國際疾病分類(ICD) 10次 改定會議結果報告

(International Conference for the tenth Revision of the ICD)

1989. 10.

經濟企劃院 調査統計局

National Bureau of Statistics Economic Planning Board

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- ▮. 회의토의 내용
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1. 회의개최

1) 주 최 : WHO

2) 일 자 : 1989. 9. 26 - 10. 2 (7일간)

3) 장 소 : 스위스 제네바

4) 참 가 : 총 123 명

• 43개국 대표 : 91명

• 관련국제협회대표 : 14명

(국제암협회,국제산부인과협회등)

· 국제기구(UN, WHO): 18명

5) 한국대표 : 김 일현 (경제기획원 조사통계국 인구과장)

6) 회의개최 경과

제 1 차 회의 - 1900, 프랑스(파리)

제 2 차 회의 - 1910, 프랑스(파리)

..

제 9 차 회의 - 1975년, 스위스(제네바)

제 10차 회의 - 1989년, 스위스(제네바)

7) 회의목적 및 의제

가. 국제질병분류 연혁

- 국제질병분류(이하 ICD)는 전세계적으로 공통으로 사용하는 분류체계이며 이는 사망원인통계 질병통계 및 기타 보건통계 의 근간이 됨.
- ICD는 1891년에 처음 작성되어 1900년에 제1차 개정된 후 매 10년 주기로 개정하는 것을 원칙으로 한바 현재 9차 개정(1975)에 이르고 있음.
- 10차 개정은 1990년에 이루어져 세계각국은 1993년 부터 적용 하게 되어 있음.

나. 회의목적

 WHO는 그동안 10차 개정을 위해 3번에 걸친 개정안을작성, 수정을 하여 이번에 작성된 최종안(Final draft)에 대해 각국의 의견을 수렴한뒤 10차 개정을 완성할 예정임.

다. 회의의제

- 국제질병분류 10차 최종 개정안에 대한 전반적인 토의

Ⅱ. 회의토의 내용 : 별점참조

Ⅲ. 한국대표활동

- 1. WHO는 ICD 10차 개정후 세계질명·사망력 조사를 실시하여 범세계적인 질병 통계 및 사망원인통계를 생산할 계획에 대하여 이사업에 우리나라가 동참할 수 있도록 고섭함.
 - 2. 우리나라의 인구동태통계(출산력통계, 사망통계)의 발전과정을 설명하고 특히, 최근 조사한 자료인 영아사망율이 선진국 수준임을 참석국가 및 WHO 관련 자문관들 에게 소개 하였음.
- 3. WHO data bank에 아국의 사망원인자료를 수록하기위한 Questionmaile form 에 대한 송부절차문제 해결 및 ICD 관련 정보제공 요청(매년 동 설문서가 보사부로 송부되기 때문에 자료수록에 어려움이 있을 뿐 아니라 그외 ICD 및 사인통계에 대한 모든 정보가 경제기획원과는 단절되어 있어 사인통계발전에 장매가 되어있음).
 - 4. 우리나라 지역별 사망원인 구조분석 연구를 위해 WHO의 Project 협조요청.

N. 회의결과

- 1. 동 회의에 상정된 최종개정안(final draft)의 대부분을 그대로 반영 하기로 결정함.
- 2. 그외 몇개의 사소한 부분은 WHO 분부 결정에 위임하기로 함.

V. 참고자료

1. 회의일정

| 일자 | 일 정 |
|--|---|
| | |
| '89. 9. 26(화) | 기회식 기회식 기회 시기 기계 |
| N 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10자 개성 준비작업 설명 |
| 9. 27(今) | 국제질병분류(I.C.D) 10차 개정에 대한 전반적인 개요 설명 ICD 10차 개정(안)의 각론 설명 (Chapter 1 - 21장) |
| 9. 28(목) | 모성사망 및 유아사망에 대한 정의·표준에 대한 논의 ICD 10차 개정 적용시 필요한 부호(coding)및 제표양식 문제 원사인 선정규칙 설명 및 사망 및 이환율 표시하는 제표양식 선택 |
| 9, 29(금) | Family Classification에 대한 논의 치료과정 (Medicine procedure)에 대해서 |
| | 불구, 장애, 무능력의 분류 방법 및 적용 문제 토의 ICD 10차 개정을 지역사회 보건사업영역 까지 연계시키는 방법토의 |
| 9.30(토) | 10차 개정을 위한 timeschedule 설명 10차 개정판 발간(publication)에 관한 논의 10차 개정판의 각나라 적용시기 문제 |
| ************************************** | 10차 개정판의 적용을 위한 각종교육 program의 총괄적인 계획설명 기타 여러안건에 대한 토의 |
| 10, 2(월) | 회의보고서 검토 및 채택 폐회식 |

2. 회의참석 국가 및 국제기관

| | 참석국명 및 국제 기구명 | 수(참석인뭔) |
|-------------------------------|---|----------|
| Nation | Angola, Australia, Bahamas, Belgium, Brazil, Bulgaria, Burundi, Canada, China, Cuba, Cyprus, Denmark, Finland, France, German-Demographic Republic, Germany Fderal Republic of, Hungary, Iceland, India, Indonesia, Israel, Italy, Japan, Kuwait, Luxembourg, Madagascar, Mali, Malta, Mexico, Mozambique, The Netherlands, Niger, Nicaragua, Portugal, Republic of Korea, Saudi Arabia, Senegal, Singapore, Spain, Sweden, Switzerland, Thailand, Uganda, Union of Soviet Socialist Republics (USSR), United Arab Emirates, United Kingdom, United State of America, | 41 (92명) |
| Special- zed Age- ncies | International Council on Alcohol and Addictions, The International Society for Burn Injuries, International Epidemiological Association, Word Organization of National Colleges, Academies and Academic, International Federation of Gynecology and Obstetrics, Word Hypertension League, International Organization of Health Records Organizations, International Federation for Preventive and Social Medicine World Federation of Neurology, International Federation of Ophthalmological Societies World Federation of Parasitologists, World Phychiatric Association, Rehabilitation International, Council for International Organizations of Medical Sciences, International Union Against the Veneral Diseases and the Treponematones, | 15 (15명) |
| Regional Office | WHO Regional Office for Africa, WHO Regional Office for the America, WHO Regional Office for Eastern Mediterraean, WHO Regional Office for Europe, | 4 (6명) |
| UN사무국 및 WHO 자문관 | Professor W. Janisch 외 10명. | 11 명 |
| 합계 | | 123 명 |

별 첨 : 회의토의내용

INTERNATIONAL CONFERENCE FOR THE TENTH REVISION OF THE ICD

(Geneva, 26 September - 2 October 1989)

1989.10

Economic Planning Board
National Bureau of Statistics
Republic of Korea

Ⅱ . 회의토의 내용

- 토 의 안 건 목 차 -
- 1. ICD 연혁 및 발전 과정
- 2. 그동안 추진 되어온 10차 개정작업 내역
- 3. 10차 개정(안)의 개요
- 4. 모성사망 및 유아사망과 관련된 기준 및 정의에 대하여
- 5. ICD 10차 개정의 사인 및 질병부호 선택준칙(selection rule) 및 제표양식
- 6. Family of Classification
- 7. Timetable for ICD 10

1. ICD 연혁 및 발전과정

- * Francosis Bossier de Lacroix (1706 1777)가 처음으로 질병을 체계적으로 분류하는 것을 시도. 그이후 William Cullen, John Graunt 등에 의해 질병 분류에 대한 발전이 있었음.
- * 1853년 제 1 차 국제통계협회 (Internal Statistical Congress)에서 사망원인에 대한 단일분류가 필요하다고 강조되어 졌고 1955년 제 2 차 국제통계협회에서 Willam Farr 와 Marc d'Espine이 제각기 작성한 질병분류안을 동시에 제출 하였음.

이를 바탕으로 1864년 138간이 분류표가 작성 되었으며 이는 다시 1874,1880, 1886년에 각각 수정 되어졌음.

그러나 동분류표는 그때까지는 전세계적으로 사용되지 못한 상태였지만 이는 후에 국제사인표의 기초가 되었음.

- * 1891년 Jacques Bertillon은 William Farr 와 Marc d'Espine이 각각 제출한 2개의 사인분류안을 통합시켰고, 이 통합안은 1893년 ISI(국제통계협회)에서 정식으로 채택되어져 이를 『Bertillon 사인분류안』 이라고 명명되어 많은 나라에서 사용 되어졌음.
- * 또한 Betillon은 개정원칙을 10년 주기로 할것을 제안하여 1900년에 *Bertillo 사인분류안』을 개정하기 위한 국제회의 (International Conference)가 파리에서 개최된 이래 (1900년 ; 1차개정, 26개국 참가) 약 10년마다 개정이 주기적으로 이루어져 9차개정을 위한 국제회의는 1975년 제네바에서 개최되었던 것이 현재까지의 개정내역임 (1975년 ; 제9차개정, 46개국참가).
- * WHO는 제6차 개정인 1946년 부터 ISI로부터 ICD개정 작업을 인수하여 사망원인 질병목록 및 원사인 선정을 국제규율(Rule)에 맞추어 발간해 왔다.

2. 그동안 추진 되어온 10차 개정 작업 내역

- * ICD 9차 개정을 평가하고 10차 개정을 준비하는 과정에서 시간이 소모되어 10년 주기 개정 원칙을 벗어나 10차 개정은 1993년 부터 세계 각국이 사용할 수 있어 9차 개정과는 15년의 시차가 남.
- * 10차 개정을 위한 첫 전문가 위원회는 1984년에 열려 10차 개정은 종전의 개정 원칙과 패턴을 바꾸지 않되 단 병명이 일련 번호로 이어지는 종전의 개정과는 달리 각 질병군 앞에 알파벳을 순서대로 첨가 시키도록 결정 하였는데, 이는
 - a) 표시되는 알파벳은 그 질병군의 특징을 나타내기 때문에 쉽게 알아 볼 수 있고,
 - b) 이로 말미암아 분류군의 범위가 더 넓어지게 되며 또한 장래 개정에 대한 분류변동의 최소화를 기하고
 - c) 세 자리수로 표시되는 종전의 개정에 상용하기 위하여 앞에는 알파벳, 뒤의 두자리는 일련번호가 매겨지도록 하고, 더 상세한 분류가 필요하면 확대 시키기 위하는등 표시할 수있는 영역을 더 확대 하기 위하는데 그 목적이 있다.
- * First draft 에서는 세 단위 항목의(three-digit categories) 질병명을 결정하고 Second draft에서는 4단위 항목의 질병명을 결정하는 등 이런 단계를 거쳐 이번 draft는 4번째이며 또한 Final draft로서 최종 확정될 예정임.

3. 10차 개정(안)의 개요

(1) Title

10차 개정의 title은 "International Statistical Classification of Diseases & Related Health Problems "로 정함.

그러나 약칭은 종전대로 " ICD "로 약속하기로 함.

(2) Form

* 각 질병군에 대한 부호화

10차 개정은 알파벳 26차중 25차를 A부터 순서대로 사용하게 된다. 알파벳중 "U"가 유일하게 사용되지 않는데 순서로 보면 Chapter 19와 Chapter 20 사이가 된다 (Chapter 19는 T로 시작하고 Chapter 20은 V로 시작하므로 "U"가 생략 되었음).

이유는 장래 개정을 위한 여백으로 남겨 놓은 것임(장래 개정시 새로운 Chapter가 필요하게 되면 U를 사용할 수 있는 Chapter 19와 Chapter 20사이에 새로운 분류를 넣을 수 있게 하기 위함.

* 3단위 항목 여백 문제

10차 개정은 3단위 항목 (three - character categories)의 25-30%가 여백으로 되어 있음. 이는 장래 개정작업시 추가되는 분류명이 있으면 동 여백을 사용하기 위함.

ex) B34(기관지 및 폐암)다음에 B37(사이누스암)으로 이어짐. 즉, B35, B36이 없으므로 다음 개정때 B35, B36을 새로 명명할 수 있게 한 것임.

* Chapter 배열 순위

Chapter 배열순위에 있어서 종전에는 Special group(특정연령층 및 특정성(性)에만 발생하는 질병군을 의미하며 그 예로 주산기사망, 임산부사망 등을 들 수 있다.)에 속하는 질병군과 Body system (인체의 해부학적 구조,병의 기전등에 따라 분류된 질병군)의 배열이 서로 혼합되어 있었는데이번 10차 개정은 Special group의 중요성을 강조하기 위해 Body system Chapter 뒤에 일괄적으로 배열 하기로 함.

Table - 1. 9차·10차 개정의 Special group에 속하는 Chapter 배열 비교

| | 9 차 개 정 | 1 | 0 차 개 정 (안) |
|------------|---|--------------------------|--|
| 대분류 번호 | Chapter 배열 | 대분류 번호 | Chapter 배열 |
| Chapter 10 | 1) 비뇨생식기계질환 (B,S) | Chapter 14 | 비뇨생식기계질환 (B,S) |
| Chapter 11 | 임신,분만 및 산욕기합병증 (S,G) 2) | Chapter 15 | 임 신 , 분 만 , 산 묙 기 질 환 (S,G) |
| Chapter 12 | 피 부 및 피 하 조 직 의 질 환(B,S) | Chapter 16 Chapter 17 | 주산기에 관련된병태(S,G) 선천이상 (S,G) |
| Chapter 13 | 근골격계 및 결합조직의 질환 (B,S) | • | • |
| Chapter 14 | 선천이상 (S,C) | · . • | • |
| Chapter 15 | 주산기에 관련된병태(S,G) • | • | • |
| 비고 | · Body system에 속하는 질 병군과 Special group에 속하는 질병군이 서로 섞여 있음. | 비고 | · Body system에 속하는 질 병군들이 먼저 나열된 뒤에 Special group에 속하는 질병들이 뒤에 배열 되었음. |

: Note : 1) B,S : Body system

2) S,G; Special group

(3) Content

* 세분되지 않는 3단위 항목 질병에 관한 부호화 문제

현존하는 질병명을 부호화 할때 질병항목의 code가 4단위 및 3단위로 흔합 구성되어 있어 data를 coding하는 과정에서 불일치가 생길 수 있다. 이럴경우 보통 세자리 끝나는 분류명도 4자리 분류명에 맞추어 coding 하는 것을 원칙으로 하고 있는데 이때 사용하는 "filler"(3단위를 4단위에 맞춰 coding하기 위한 채우기 부호)가 국제적으로 일치 하지 않을 경우 국제비교자료에 어려움이 있으므로 ICD 10차 개정에서는 표준 4단위 분류에 맞게 coding하는 방법으로 "filler"를 『X』로 권고하기로 함.

ex) 🗇 🔾 000 : 자궁외 임신

○00.0 : 복막의 자궁외 임신

○00.1 : 난관의 자궁외 임신

○00.9 : 상세불명의 자궁외 임신

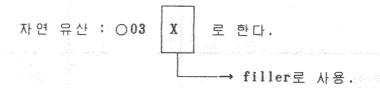
© ○03 : 자연유산 ¬

4단위 분류가 없음.

⑤ 004 : 법적유산

이때 Coding 방법으로

난관의 자궁외 임신 : O00.1



- * 3단위 항목의 증가
- 10차 개정의 3단위 항목수가 9차 개정때 보다 약 70% 증가하여 분량이 현저하게 증가하므로 정확한 coding을 하기위해 질병내용 설명에 중점을 둠.
- * 정신질환 용어 해설에 대하여
 - · 정신질환(Mental disorder)에 대한 각종 어휘 해석이 9차 개정에 처음으로 시도되어 졌음. 10차 개정에는 더 완벽하고 상세한 용어 해석이 가능하도록 발전시켜 별책부록 으로 발간할 예정임.

| | 9 차 개 정 | | | 10차 개정 (Final di | raft) |
|----------|------------------------|-----------|------------|----------------------------------|------------------------|
| 일련번호 | 질병군의 명칭 | ICD No | 일련번호 | 질병군의 명칭 | ICD No |
| . I | 감 염 성 및 기 생 충 성 질 환 | 001 - 139 | I | 감 염 성 및 기 생 충 성 질 환 | A00 - A99 B00 - B99 |
| I | 신 생 물 | 140 - 208 | П | 산 생 물 | C00 - C99 D00 - D49 |
| Ü | 내분비,영양대사 질환과 면역장애 | 240 - 279 | Ш | 혈 액 , 조 혈 기 질 환 및 면 역 장 애 질 환 | D50 - D99 |
| V | 혈액 및 조혈기 질환 | 280 - 289 | V | 내 분 비 , 영 양 대 사 질 환 | E00 - E99 |
| V | 정 신 장 애 | 290 - 319 | v | 정신 및 행동 발달장애 | F00 - F99 |
| VI | 신경계및 감각기 질환 | 320 - 389 | VI | 신 경 계 질 환 | G00 - G99 |
| VI | 순환기계의 질환, | 390 - 459 | Vii | 눈 및 부 속 기 질 환 | H00 - H59 |
| | 호흡기계의 질환 | 460 - 519 | V a | 귀 및 유양돌기 질환 | H60 - H99 |
| K | 소화기계의 질환 | 520 - 579 | X | 순 환 기 계 질 환 | 100 - 199 |
| X | 비뇨생식기계의 질환 | 580 - 629 | х | 호흡기계질환 | 100 - 199 |
| ΧI | 임신ㆍ분만 및 | 630 - 679 | хі | 소 화 기 계 질 환 | . коо – к 9 9 |

| 9 차 개 정 | | 10차 개정 (Final draft) | | |
|---|-----------|---------------------------|------------------------|--|
| 일련번호 질병군의 명칭 | ICD No 일 | 련번호 질병군의 명칭 | ICD No | |
| X II 미부및미하조직 | 680 - 709 | X II 미부및피하조직 | L00 - L99 | |
| 의 잘환 | | <u> </u> | | |
| X Ⅲ 근골격계및 결합 | 710 - 739 | X ■ 근골격계및 결합 | M00 - M99 | |
| 조직의 질환 | | 조직의 질환 | | |
| X W 선천이상 | 740 - 759 | X N 비뇨 생식기계 | N00 - N99 | |
| | | 질 <u>환</u> | | |
| XV 주산기에 관련된 | | X V 임신, 분만, | 000 - 099 | |
| 병태 | | 산욕기 질환 | | |
| X W. 증상ㆍ징후 및 | 780 - 799 | X VI 주산기에 관련된 | P00 - P99 | |
| 불명확한 병태 | | 병 태 | | |
| X VII 손상 및 중독 | 800 - 999 | X WI 선천기형,변형및 | Q00 - Q99 | |
| | | 염색체이상 | | |
| | | X W 증상. 징후및그외 | R00 - R99 | |
| | | 일반적으로 분류 되지않는 비정상 | | |
| | | 적인 임상및실험 에서 나타난현상 | | |
| | | 에서 낙다라는 o | A- | |
| | | X N 손상 · 중독 및 외인의 기타결과 | S00 - S99 T00 - T99 | |
| | | | | |
| | | XX 질병및 사망의 외부원인 | V01 - V99 Woo - W99 | |
| | | | X00 - X99 | |
| | | | Y00 - Y99 | |
| | | XXI 건강상태및보건 | Z00 - Z99 | |
| | | 서비스에 영향을 주는 요인들 | | |
| * · · · · · · · · · · · · · · · · · · · | | | | |

국제질병명명학회(Internfational Nomenclature of Diseases)는 어떤 질병이나 증상으로 고통받는 사람이 그것을 묘사한 사람과는 서로 다르다는 이유로 소유격을 쓰는 `S형태의 인명이 붙는 질병은 사라져야 한다는 권고를 한바 있고 또 또 이것은 국제의학과학협회(The Council on International Organization of Medical Science)의 의견과도 일치한다.

그러나 아직까지 이 제안은 국제적으로 승인을 받지 못하였고, 현재 소유격질병명이 많이 쓰이고 있다는 점에서 ICD 10차 개정은 동문제에 관하여서는 당분간 보류하기로 하고 종전대로 사용하기로 함.

* 수술후나 처치후에 나타나는 합병증

수술후(Post-surgical)나 처치후(Post-procedual)에 나타난 어떤 병태를 표시하기 위해서 독자적으로 적당한 Chapter에 분류하고 한편 원인을 밝히기 위한 분류인 『손상 및 중독의 Chapter』에도 같이 표기 하도록 함.

* 9차 개정에 사용되는 code표시에 대하여

이때까지 제출된 모든 10차 개정인(draft)에는 각 질병마다 10차 개정 code옆에 9차 개정때 쓰이던 code를 ()로 표시하여 주었으나 표기상의 정확도에 문제가 있어 국제회의('89, 9, 26, 제네바회의)에 제출하는 final draft에는 이것을 삭제하기로 함.

* 9차·10차 개정에 사용되는 code끼리 서로 전환(conversion)되는 문제

9차 개정때 쓰이던 code와 10차 개정시 사용되게 될 code끼리 서로 전환(conversion)될 수 있는 방법을 모색 하고 있음.

이는 시계열분석에 중요 자료가 되기 때문임.

그러나 이 전환문제는 원사인 선정규칙(selection rule)의 변동이 큰 과제인데 ICD 10차 개정 준비위원회는 10차 개정판중 Index편을 완성한 후 빠른 시일내에 동 문제를 해결할 예정 임.

- * 각 Chapter (10차 개정은 21 Chapter로 구성)별 내용설명
 - 설명생략 -

- 4. Standards and definitions related to maternal & child mortality (모성사망 및 유아사망과 관련된 기준 및 정의에 대하여)
 - * 1984년 10차 개정을 위한 준비위원회는 Geneva 회의에서 9차개정에 사용되고 있는 모성사망·유아사망 (신생아사망,주산기사망,태아사망등)에 대한 정의(definition)와 기준(standard)에 대한 수정·보완이 필요하다고 제안을 한바 이에 전문위원회는 1987년에 아래와 같은 안(案)을 제출 함.
 - (1) Child mortality에 포함되는 사망의 종류
 - * Child mortality와 관련된 사망으로 본 회의 자료 에서는 Fetal death (태아사망), Perinatal death (주산기사망), Neonatal death(신생아사망), Infant death (영아사망)등이 언급되고 있음.
 - A. Fetal death (태아사망)
 - * 태아사망을 Fetal death 에서 deadborn birth로 수정하는 것이 제안 되었으나 9차 개정때 fetal death로 사용되어진 점을 감안하여 fetal death 명칭옆에()를 하여 deadborn birth 표기를 참가 하기로 함.
 - ex) fetal death (deadborn birth)
 - * Definition

태아사망(fetal death; deadborn birth)이라 함은 임신기간(duration of pregnancy)에 관계없이 수태(conception)에의한 생성물 (product)이 그 모체로 부터 완전히 만출되기 전에 사망한 경우를 의미한다.

이때 사망이란 이러한 분리 (seperation from mother)후에 탯줄의 절단 (cut of umbilical cord)이나 태반의 부착(attachment of placenta) 여하와는 관계없이 태아 (fetus)가 호흡을 하지 않거나 심장의 고동 (beating of the heart), 탯줄의 박동 (pulsation of the umbilical cord), 수의근의 명확한 운동 (definite movement of voluntary muscles)과 같은 생명의 증후를 나타내지 않는 상태이다.

(cf) 정의는 9차 개정때와 동일하나 deadborn birth 의 용어가 첨가된 것이 10차 개정안의 보완점임.

| © Fetal death ratio (태아사랑비) Fetal deaths ———— × 1000 | |
|---|--|
| Live births ◎ Fetal death rate (태아사망율) Fetal deaths . | |
| Total births(Live birth + fetal death) | |
| ◎ Fetal death rate, weight-specific (체중별 태아사망율) 제중 1000 g 이상의 태아사망자수 | |
| 체중 1000 g 이상의 총 출산아 (total births) | |
| B. Neonatal death (신생아사망) | |
| * definition : 출생 (at birth)부터 생후 28일 이내에 사망하는 것. * Type • Early neonatal deaths (초기 샌생이 사망) : 출생부터 생후 7일(168시간) 이내에 사망. • Late neonatal deaths (후기 신생이 사망) : 생후 7일 이후부터 28일 이내에 사망. | |
| * Rate & Ratio | |
| ◎ Neonatal mortality rate (신생아사망율) Neonatal deaths | |
| Live births ⊘ Neonatal mortality rate, weight-specific (체중별 신생아 사망위체중 1000g 이상의 신생아 사망자수 | |
| × 1000 체중 1000g 이상의 출생이 (live births) | |
| ◎ Early neonatal mortality rate (초기 신생이 사망율) | |
| 초기 신생아 사망자수 | |

* Rate & Ratio

* Definition

임신주기(gestation) 22주(154일)이후에 발생하는 사산(fetal deaths)과 생후7일 이내 사망하는 초기 신생이 사망 (early neonatal death)을 포함한다.

- * Rate and ratio
 - ◎ Perinatal mortality ratio (주산기 사망비)

사산수 + 초기 신생아 사망수

× 1000

출생아수 (live births)

◎ Perinatal mortality rate (주산기 사망율)

사산수 + 초기 신생아 사망수

× 1000

총 출산아수 (Total births)

○ Perinatal mortality rate, weight specific (체중별 주산기 사망율) 체중 1000g 이상의 (사산아수 + 초기신생아 사망자수)

× 1000

체중 1000g 이상의 총 출산아 (total births)

(참고) 주산기 사망진단서에 대하여

* 9차 개정때 주산기 사망진단서의 국제적 양식과 원사인 선정에 대한 기술방법이 처음으로 소개 되었다.

주산기 사망진단서를 사용하는 나라가 점차 확대 되어져 가고 있으며 사용하는 많은 나라들이 주산기 사망진단서를 생후 28일 이내 사망하는 신생아사망 까지 영역을 확대시켜 사용하는 것을 주장하고 있다 (현재 주산기 사망진단서는 생후 7일 이내 사망까지만 사용).

이런 주장이 받아 들여진다면 『주산기 사망진단서』라는 제목의 수정도 불가피하게 될것이다.

2. Maternal mortality (모성사망)

* 서론

- Maternal mortality (모성사망)에 대해서는 9차 개정에 언급이 되었으나 상세히 다루지 못한 사항이었고 그당시 이 항목에 대해서는 WHO는 특별한 권고 (recommendation)를 한바가 없었음.
- 10차 개정 준비 과정에서 모성사망에 대한 논의가 활발히 전개되었으나 아직까지 정의 및 범위에 대해서 결정 되어지지 않은 실정 이여서 이번 본 회의에서 다시 논의 되어질 과제로 남아 있는 실정임.
- 이때 까지 논의 되어진 정의 및 종류를 9차 개정과 비교해 보면 아래와 같다.

* Definition and Type

| 모성사 망 | 9 차 개 정 | 10 차 개 정 (안) | |
|---------|--|---|---|
| 1) 정의 | - 임신기간, 또는 임신 부위에 관계없이 임신 에 관련된 원인으로 임신중(pregnancy), 분만(dilivary) 및 분만후 42일(산욕기) 이내에 임산부가 사망하는 경우. | - 9차 개정시의 정의내용 에 분만후 42일이라는 항목이 삭제 됨. | - 일반적으로 분만후 42일을 산욕기라 칭함 많은 나라에서 경험적으로 임산부가 산욕기가 지난 뒤에도 임신관련질환 으로 사망하는 예가 많다고 보고하기 때문임. |
| 2) Type | @Direct obstetric ca- use(직접산과적원인): 임신과 직접 관련된 합병증 때문에 사망하 는경우.ex)임신중독증 ⑤ Indirect obstetric cause : 임신중에 비 산과적 질병이나 지병 이 있어 "임신"이라는 | @Direct obsetetric ca- use (직접산과적원인): 이하동일. ⑤Indirect obsetric cause : 이하동일 ⑥Non-obstetric cause (비산과적 원인): 임신과 관련된 직·간 | - 그러나 국제비교를 용이하 게 하기 위하여 모성사망율 (rate), 사망비(ratio)계산 에는종전대로 산욕기(42일) 이내의 사망자만을 포함 하 기로 함. (산욕기 이후의 사망자료는 국제적인 분석 자료에 쓰 기 위함임.) |
| | 생리작용 으로 악화 되어 사망하는 경우. ex) 당뇨병, 폐염 | 접 질병이 아니라 위에서 언급한 기간동안 임산부가 사고로 인하여사망하는 경우. | - 비산과적 원인을 포함시 키므로 모성사망 이라는 개념 정립에 논란이 많을 것임. |

| Maternal mortality ratio (모성사망비) | | |
|--|-------|--------|
| 모성사망자수 (산과적원인 + 비산과적원인 포함) | | * . |
| | - × | K |
| 출생아 (Live births) | | ų |
| | • | |
| Weterel mentality mate (D M H DLQ) | | |
| Matenal mortality rate (모성사망율) | | |
| 모성사망자수 (산과적원인 + 비산과적원인 포함) | | |
| | - × | K |
| 총 출산아 (Total births) | | |
| | | |
| Obstetric mortality ratio (산과적사망비) | | |
| 산과적 원인으로만 사망한 사망자수 (직접+간접) | | |
| | | |
| | K | |
| 출생아수 (live births) | | |
| | | |
|) Obstetric mortality rate (산과적사망율) | | * |
| 산과적 뭔인으로만 사망한 사망자수 (직접+간접) | | |
| × | K | a a |
| | n | |
| 총 출산아수 (Total births) | | |
| | | |
| Direct obstetric mortality ratio (직접산과적 사망비) | | |
| 직접산과적 원인으로만 사망한 수 | | • |
| × K | • | * |
| 출생아수 (live births) | | |
| E COLL (III) | | |
| | | |
| Direct obstetric mortality rate (직접산과적 사망율) | | |
| 직접산과적 원인으로만 사망한 수 | | |
| × K | | |
| 총 출산아수 (Total births) | | |
| | | |
| (어기시 또는 가구의 비전에 따라 1000 10000 5 5 | . = | |
| (여기서 K는 각국의 사정에 따라 1000, 10000, 100000등으 | - 도 사 | 专堂 千 % |
| | | |
| | | |
| | | |
| | | |
| | | |

* Definition

- a. 출생 (live birth) : 임신기간에 관계없이 수태 (conception)에 의한 생성물(product)이 모체로부터 적출되어 탯줄의 절단이나 태반의 부작여부와는 관계없이 호흡을 하거나 심장고동,탯줄의 박동, 수의근의 명확한 운동등과 같은 생명의 증후를 나타내는것.
- b. 출생시 체중 (Birth weight) : 분만직후 신생아가 가지는 최초의 체중.
- c. 저체중 (Low birth weight) : 체중이 2500g 이하 (2499g 까지 포함).
- d. Very low birth weight : 체중이 1500g 이하 (1499g 까지 포함).
- e. Extremely low birth weight : 체중이 1000g 이하 (999g 까지 포함).
- f. 임신연령 (gestational age) : 임신기간은 마지막 정상 월경기의 첫날 부터 가산 된다. 임신연령은 완전일수(completed days) 또는 완전주수(completed weeks)로 표기된다.
 ex) 마지막 정상 월경기의 개시일후 280-286일이 경과된 경우는 임신 40주로 본다.
- g. 임신만기전 (Pre-term) : 임신주기가 37주 미만(259일 미만)을 말함.
- h. 임신만기 (Term) : 임신주기가 37주 부터 42주 미만일때(259-293일).
- i. 임신만기후 (Post-term) : 임신주기가 42주 이상 일때 (294일 이상).

- 5. Coding and Selection and tabulation lists for ICD-10 (ICD 10 차 개정의 사인 및 질병 부호 선택 준칙 및 제표양식)
 - (1) Mortality coding and selection rules (사망통계제표를 위한 사인선정준칙)

우선 ICD 9차에 적용 되었던 뭔사인 선정을 위한 준칙을 소개하면 다음과 같다.

일반준칙(General rule) : 사망진단서 제 1 부의 최하단에 단독으로 기재되어

있는 상황을 선정한다. ••• 이하생략

준칙 1 (Rule 1); 설명 이하 생략

준칙 4 (Rule 4) ; 노쇠에 관한사항

선택된 원사인이 797(노쇠)가 되나 그외 다른 질병명이 명시 되어 있으면 노쇠 대신에 다른 또하나의 병을 선택한다.

준칙 5 (Rule 5) ; 진단명이 불명확한 조건 (Ill-defined condition) 일차 선택된 뭐사인이 위에서 언급한 『진단이 불명확한 상태』

인 『780 - 796』 사이에 속하는 질병이고 또 다른 질병명 (진단이 확실)이 아래에 표기되어 있으면 병명이 확실한

것을 선택한다.

준칙 10 (Rule 10); 후유증에 관한것.

준칙 11 (Rule 11) ; 만성폐염, 인플루엔자 및 모체측 병태 (Old pneumonia,

influenza and maternal condition) - 이하생략-

준칙 12 (Rule 12) ; 의학적 처치 도중의 과실 및 불의의 사고 - 이하생략-

이하생략

여기서 10차 개정은 아래과 같은 수정 제안을 권고 함.

- * 일반준칙(General rule)의 용어를 "General principle"로 고친다.
- * 준칙 4 와 준칙 5 는 서로 합친다.
- * 준칙 11 을 삭제하여 준칙 10 의 범위안에 준칙 11 의 내용을 포함 시킨다.
- * 준칙 12 도 삭제한다.
- * 그외 몇가지 사소한 원사인이나 중간 사인에 대한 수정 설명을 덧붙이기로 함.

- * 질병명은 입원시, 치료과정중 일때, 퇴원할 때의 진단명이 서로 다를 수 있기 때문에 부호준칙(coding rule)이 매우 어려워 아직까지 준칙이 결정되지 못 하고 있음.
- ▶ 한편 전문위원회 에서는 질병부호를 위해 relevant coding rule (적절한 병명 하나를 골라서 부호 하는것)을 추천한 바 있음.
- * 이에 '88년 11월 제네바 회의에서 질병통계 제표양식으로 2개의 제표(안)를 작성 하였음.
- (3) List for tabulation of mortality and morbility(간이사망통계제표 및 질병통계제표)
 - * WHO와 UN의 통계사무국 (Statitical office)은 서로 협력하여 10차 개정부터 사용할 수 있는 보건 및 인구학적인 면에서 국제비교가 가능 하도 록 사망통계 및 질병통계에 대한 간이제표(Short list)를 고안 하기로 함.
 - ★ 이에 간이제표 작성의 기본 원칙으로 다음의 사항을 참고 하기로 함.
 - 비슷한 성질 끼리의 질병명은 의미가 같은 범위안에서 묶어 하나의 항목으로 제표한다.
 - 종전(8차나 9차개정)에 쓰이던 사망제표와 비교 가능 하도록 작성한다.
 - 작성될 간이제표는 특별한 목적을 위해서는 더 상세히 분류될 수 있도록 하고, 반대로 상세히 분류된 자료는 간이제표에 맞게 묶을 수도 있게 고안한다.
 - 몇몇개의 나라들을 묶어서 지역별로(아시아, 유럽등), 특성별로(개발 도상국, 선진국등) 비교 가능 할 수 있도록 제표양식에 쓰이는 일련 번호는 각 나라마다 일치하도록 한다.
 - 작성될 새 간이제표 양식에는 서로 다른 상황에서 사망원인 순위를 할수
 있도록 사인순위 선택항목이 총망라 되도록 고안한다.
 - * 새로 작성될 간이제표 작성을 위한 방법으로는 다음과 같은 사항을 참고 하기로 함.
 - 9차 개정에서 사용되었던 50 Mortality list와 307 기본 분류표의 단점을 보완하기로 함.

- * 모두 6개의 tabulation list가 있음.
- * 일반 사망 관련제표
 - General mortality short list (75항목)
 - Mortality tabulation short list (100항목)
- * 영아 사망 관련제표
 - General infant & child mortality short list (50항목).
 - Infant & child mortality tabulation short list (66항목)
- ☀ 질병통계를 위한 제표
 - Short tabulation list for morbidity (각 19 Chapter title 아래 51개 병명이 나열되어 있음.)
 - Intermediate tabulation list for morbidity (각 19 Chapter title 아래 298개의 병명이 나열되어 있음.)
- * 새간이제표 작성과 더불어 WHO는 다음과 같은 사항을 권고 하기로 함.
 - a. 각 나라들은 10차 개정이 이루어지면 최소한 3단위항목(three-digit) 까지는 자료를 생산하여 발표하도록 한다.
 - b. 각 나라들은 WHO data bank에 3단위 항목 자료를 수록할 수 있게 협조한다.
 - c. 3단위 항목의 자료를 제출할 수 없는 나라들은 최소한 77간이 사인 분류표 (77 The Mortality Short List)와 54 영아 사망 분류표 (54 Infant Mortality Short List)는 반드시 제출할 수 있어야한다.
- d. 또 WHO 및 UN에서 발간되는 간행물에 사망원인에 관련되는 자료를 표시할 때에는 75 간이 사인분류표 및 50 간이 영아사망 분류표에 맞추어 발간한다.
 - e. 10차 개정판에는 사마원인 순위를 간이 분류항목에 의거하여 선택할 수 있는 방법과 각 나라들이 사망자료를 수집, 제표 분석하는 방법 및 잔여항목 처리에 대한 지침을 제공하는 도움말을 첨가 시키도록 한다.

(1) Concept

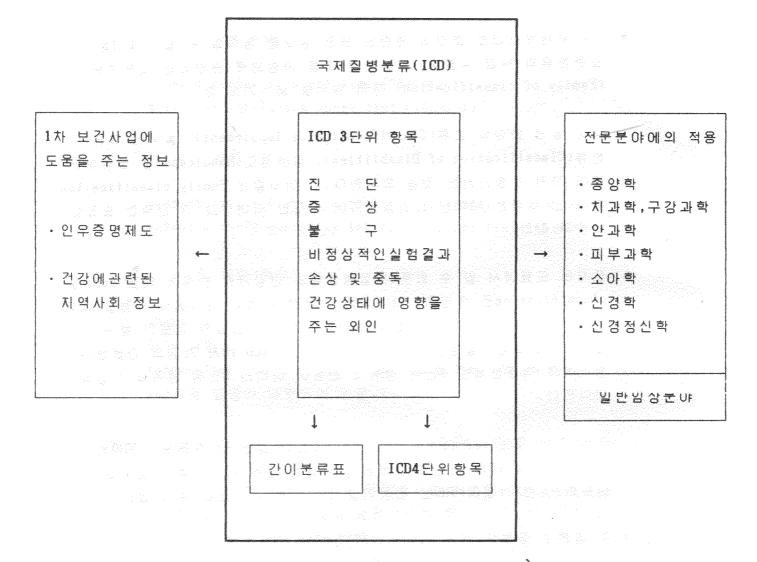
* ICD 자체로서만은 보건과 관련된 모든 정보를 충족할 수 없고 ICD를 모든분류의 핵심 역할을 하게 하여 이를 바탕으로 관련있는 모든분류 (Family of classification) 까지 영역을 넓히기로 함.

예를 들면 손상의 분류(Classification of Impairment), 불구에 대한 분류(Classification of Disablities), 장애정도(Handicaps)를 분류하는 분야 까지 포함시키는 것을 의미한다. 이와같은 Family classification 에 대한 구상은 1985년 브라질회의에서 제안 되어졌고 그 간략한 도표는 다음과 같다.

* 표시된 도표에서 알 수 있듯이 질병분류와 건강관련 분류에 대한 family classification은 종양학, 치과학등 전문분야 영역 까지에의 적용을 의미하며 본 ICD에서 알수있는 정보외에 보건사업의 중요한 정보인 불구, 장매, 치료과정, 발생원인등도 포함되었는데 ICD 10차 개정의 전문분야 영역에의 적용문제는 4단위 항목의 변동이 아니라 5단위 항목의 신설을 의미한다.

이에 이미 많은 나라에서는 비정부단체(협회 같은곳) 주관으로 WHO의 도움이래 ICD 10차 개정의 전문분야 적용을 위하여 준비를 시행하고 있으며 이런 작업에 WHO는 전문기술적인 자문과 도움을 주고 있다.

Family of diseases & health - related classification



기타 건강과 관련 된 분류

- · 불구
- · 진행정도 (procedure)
- 발생동기

국 제 질 병술 어 학 회

* International Classification of Impairment, Disabilities, and Handicaps는 1980년에 처음 공표된 후에 느리지만 점차 각 나라로 부터 적용되고 있다.

여기서 권고된 불구 및 장애에 대한 정의는 동분야의 연구 와 문제해결을 위 개념 정립에 주요하게 쓰이고 있어 처음에는 8개국으로만 번역 되었으나 점차소개가 확산됨에 따라 각국에서 번역하여 쓰여지고 있다. 이는 재활전문가 장애정도 및 과정의 평가에 동분류는 기초가 되며 이를 바탕으로 정책수립에 요긴하게 사용한다.

- * 부호화(coding)는 시간이 걸리고, 분류(classification)는 다른 분류에 비해 신중하게 다루어져야 하는 어려움이 있다. 이런 이유로 ICIDH 분류상의 어떤부분은 ICD에 맞춰 적절하게 등급을 매겨 주어야 하는문제, 몇몇 어휘에 대한 어의(語意)의 명확성 문제등이 과제로 남아있다.
- * 현재 추진하고 있는 ICD 10차 개정의 timeschedule에 맞춰 동 ICIDH 분류 도 완성하려고 노력하지만 실현이 어려운 실정임.
- (3) Procedure in medicine (치료과정)
 - * 위원회는 10차 개정에 치료과정 중 수술과정 (Surpical procedure)의 개요 정도만 이라도 ICPM(International Classification of Procedure in Medicine)을 적용하는 것을 권고하고 있음.

7. Timetable for ICD - 10

(1) Publication of ICD-10

- * WHO 회원국중 많은 나라들이 ICD 9차 개정을 전혀 적용(adoption)하지 않았다. 그 이유는 9차 개정 권고안에 따른 자료수집, 부호화(coding), 제표(tabulation) 및 분석하는데 필요한 제도장치가 미비했기때문임.
- * 9차 개정의 3단위 항목은 1178개이고 10차 개정은 2001개로써 약 70%의 증가를 가져 왔으나(4단위 항목의 양적 증가 비교는 아직 안 되어 있음) 10차개정 채택될 alphanumeric coding (앞에는 알파벳, 뒤의 두자리는 아라비아 숫자로 표기 하는것) 방법은 코딩분량을 2배 이상 감당할 수 있음.
 - * 그러나 비교적 많은 회원국들은 이러한 상세한 분류를 할 수도 없을 뿐이니라 할 필요도 느끼지 않는 실정이고, 또, 9차 개정의 기본분류표(307항목)는 제표양식 으로는 너무 광범위 하다는 지적에 대해서 WHO는 이번 10차 개정에는 참고 설명이나 색인목록은 포함 시키지 않고 3단위 항목만 설명하는 용어집을 별도의 단행본으로 출판할 예정이며 이 단행본에는 원사인선정준칙,특수제표 list 및 기타 필요한 해석은 포함 됨.

2) Training in the uses of ICD-10

- * 10차 개정 적용에 필요한 training은 9차 개정때와 마찬가지로 각 Regional Office(세계를 몇개의 지역구로 나눈것, 한국은 서태평양 지역구에 속함) 의 관할하에 이루어 지게 됨.
- * Training course는 ICD 10차 개정의 적용 년도가 1993년 이므로 1991년, 1992년에 있을 예정이나 이용자(User)를 위한 기본 훈련 준비물은(basic training materials) WHO의 예산 및 인력부족으로 1993년 이후에나 가능.
- * 10차 개정 적용에 대한 국제훈련(International training course)에 참가하는 참석자들은(각 국가 대표들) 관련전문지식과 어학실력이 갖추어진자로 제한 하기로 하고 그 자격 심사는 각 Regional Office가 담당하기로 함, 왜냐하면 international training course에 참석한 각 나라대표들은 자기나라로 돌아가서 다시 전수교육을 전달해야 하기 때문임,

아울러 인구동태통계를 생산하는 기관에서 사망원인을 coding할때 필요한 별도의 지침서도 마련할 예정 임.

3.회의보고서전문

ORIGINAL : ENGLISH

INTERNATIONAL CONFERENCE FOR THE TENTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES

Geneva, 26 September - 2 October 1989

<u>Draft Report</u>

The International Conference for the Tenth Revision of the International Classification of Diseases convened by the World Health Organization met at WHO Headquarters in Geneva from 26 September to 2 October 1989. The Conference was attended by delegates from 43 Member States (See Annex VI).

- 1. The Conference was opened by Dr J.-P. Jardel, Assistant Director-General, on behalf of the Director-General. Dr Jardel spoke of the extensive consultations and preparatory work which had gone into the revision proposals and necessitated longer than usual interval between revisions. He noted that the Tenth Revision of the ICD would have a new title "The International Statistical Classification of Diseases and Related Health Problems" to emphasize its statistical purpose and reflect the widening of its scope. He also mentioned the new alphanumeric structure to improve the balance of its content and leave room for future additions and the intention to produce an ICD-10 manual of three character categories and alphabetical index for use where the more complex, detailed four character version would be inappropriate.
- The Conference elected the following officers:

Chairman: Dr R. Wells (Australia)

Vice-Chairmen: Dr H. Bay-Nielsen (Denmark)

Dr R. Braun (German Democratic Republic)

Mr R. Israel (U.S.A.)

Dr R. Laurenti (Brazil)

Rapporteurs: Ms E. Taylor (Canada)

Dr P. Maguin (France)

3. The Conference adopted an agenda dealing with the proposed content of the chapters of the Tenth Revision of the International Classification of Diseases with associated material to be incorporated in the published Manual, the process of its introduction with associated classifications and related matters.

4. History and development of uses of the ICD

The Conference was reminded of the impressive history and evolution of a statistical classification whose roots dated from the 18th century. Early revisions of the classification were concerned only with causes of death with an extension to the inclusion of non-fatal diseases occurring at the Sixth Revision. This extension continued through the Ninth Revision with certain innovations being introduced to meet the statistical needs of widely differing organizations. In addition, at the time of the Ninth Revision recommendations were adopted for supplementary classifications of Procedures in Medicine and Impairments, Disabilities and Handicaps.

5. Review of activities in the preparation of proposals for the Tenth Revision

The proposals before the Conference were the product of a vast amount of activity at WHO and around the world. The programme of work had been guided by regular meetings of the Heads of WHO Collaborating Centres for Classification of Diseases. Policy guidance was provided by some specially arranged meetings and by the Expert Committee on ICD-10 which met twice, in 1984 and 1987, to make decisions on the direction the work should take and the form of the final proposals.

There had been much preparatory activity devoted to a radical review of the suitability of the present structure of ICD, a statistical classification of diseases and other health problems, to serve for a wide variety of different mortality and health-care data. Ways of stabilizing the coding system to minimize disruption at successive revisions had been investigated as had the possibility of providing a better balance between the contents of the chapters of ICD.

Even with a new structure, it was plain that one classification could not cope with the extremes of requirements and the concept was developed of a "family" of classifications, with the main ICD, as the "core", covering the centre ground of needs of traditional mortality and morbidity statistics, while needs for more, or less, detailed or different classifications and associated matters would be dealt with by other members of the "family".

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Various alternative models for the structure of ICD were investigated by the Collaborating Centres, but it was found that each had unsatisfactory features and none had sufficient advantages over the existing structure to justify replacing it. Special meetings held to evaluate ICD-9 confirmed that although some would-be users found the present structure of ICD unsuitable, there was a large body of satisfied users who considered it had many inherent strengths whatever its apparent inconsistencies and wished it to continue in its present form.

Various schemes involving alphanumeric notation of the present structure were tried out to produce a coding frame giving better balance to the chapters and with sufficient space to allow future changes without disrupting present codes.

Decisions made on these matters paved the way for the preparation of successive drafts of proposals for the revision of the chapters of ICD-10. These were twice circulated to member countries for comment as well as being reviewed by other interested bodies, meetings of Centre Heads, and the Expert Committee. A large number of international professional specialist associations, individual specialists and experts, other WHO headquarters units and regional offices gave advice and guidance to the WHO service responsible for ICD and to the Collaborating Centres in the preparation of the proposals for the revision of the chapters of ICD and for the associated material placed before the Conference. WHO acknowledged this assistance with gratitude.

6. Tenth Revision of the ICD (ICD-10)

6.1 ICD-10 - General presentation of form and content

The main innovation was the proposal to adopt an alphanumeric coding scheme of one letter and three numbers at the four-character level. This had the effect of more than doubling the size of the coding frame in comparison to the Ninth Revision and enabled the vast majority of chapters to be assigned a unique letter or group of letters, each capable of providing 100 three-character categories. Of the 26 available letters 25 have been used, the letter U being left vacant for local and research purposes and for possible interim solutions to major classification difficulties at the international level.

As a matter of policy a number of three-character categories were left vacant for future expansion and revision. The number of categories left vacant varied among the chapters, the chapters with a primarily anatomical axis of classification having fewer vacant categories as it was considered that future changes in these chapters would be more limited in nature.

ICD-9 contains 17 chapters plus two supplementary classifications; the Supplementary classification of External causes of injury and poisoning (the E code) and the Supplementary classification of Factors influencing health status and contact with health services (the V code). As recommended by the Preparatory meeting on ICD-10 and endorsed by subsequent meetings these two chapters are no longer considered to be supplementary but are included as a part of the core :lassification.

As regards the order of entry of the chapters, this begins in the same way as in ICD-9, however, in order to make effective use of the available space, disorders of the immune mechanism have been included with diseases of the blood and blood-forming organs whereas in ICD-9 they were included with endocrine, nutritional and metabolic diseases.

The new chapter of Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism now follows the Neoplasms chapter with which it shares the letter D.

During elaboration of early drafts of the chapter of Diseases of the nervous system and sense organs it soon became clear that it would not be possible to accommodate all the required detail under one letter in 100 three-character categories. It was decided, therefore, to create 3 separate chapters - Diseases of the nervous system having the letter G, and the 2 chapters for Diseases of the eye and adnexa and Diseases of the ear and mastoid process sharing the letter H.

Also, the chapters of Diseases of the genitourinary system; Pregnancy, childbirth and the puerperium; Certain conditions originating in the perinatal period, and Congenital malformations, deformations and chromosomal abnormalities have been brought together as contiguous chapters XIV to XVII.

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With the inclusion of the former supplementary classifications as a part of the core classification and the creation of two new chapters the total number of chapters in ICD-10 becomes 21.

The titles of some chapters have been amended in order to give a better indication of their content.

It is not usual for draft proposals for revision of the ICD to be the subject of field-testing as they are the result of 10, or in the case of ICD-10, 15 years experience in the use of the previous revision. Where radical changes are proposed, however, field-testing is appropriate. This has been the case for chapters:

- V Mental and behavioural disorders
- XIX Injury, poisoning and certain other consequences of external causes
- XX External causes of morbidity and mortality

and, while the changes have not been major, the chapter of Neoplasms has also been subject to some field testing.

New features that have been introduced to the classification are as follows:

The exclusion notes at the beginning of each chapter have been expanded to explain the relative hierarchy of chapters. These now make it clear that the "special groups" chapters have priority of assignment over the organ/system chapters and that, within the special groups, pregnancy, childbirth and the puerperium and certain conditions originating in the perinatal period, have priority over the others.

Also, at the beginning of each chapter there appears an overview of the blocks of three-character categories and, where relevant, the asterisk categories. This makes the structure of the chapters transparent and facilitates the use of the asterisk categories.

The notes that appear at the various categories are those that apply to all uses of the classification. If a note is appropriate only to morbidity or only to mortality then it appears only in the special notes accompanying the morbidity coding rules or mortality coding rules.

ICD-9 identified a certain number of conditions as being drug-induced. This approach has been extended in the draft proposals for the Tenth Revision and a large number of such conditions are now separately identified.

An important innovation is the creation towards the end of certain chapters of a category for postsurgical and postprocedural disorders. These identify important conditions which arise after a procedure and which form a medical care problem in their own right. These include such examples as endocrine and metabolic diseases following ablation of an organ and other specific conditions such as post-gastrectomy dumping syndrome. Conditions which may arise as a result of any procedure continue to be classified with complications of medical care in the chapter of Injury, poisoning and certain other consequences of external causes, Chapter XIX.

Another change is that, in ICD-9, the four-digit titles often had to be read in conjunction with the three digit titles to ascertain the full meaning and intent of the subcategory. In the draft presented to the Conference the titles are almost invariably complete and stand alone.

The dual classification scheme for etiology and manifestation, known as the dagger and asterisk system, that was introduced at ICD-9 has been the subject of a certain amount of criticism. This criticism related mainly to the fact that the classification frequently contained a mixture of manifestation and other information at the three and four-digit levels and the same diagnostic labels sometimes appeared under both axes. Also, the system was not considered by many to be sufficiently comprehensive.

To overcome these problems, in the draft proposal for the Tenth Revision, the asterisk information is contained in 82 homogeneous three-character categories. This approach enables those diagnostic statements containing information about both a generalised underlying disease process and a manifestation or complication in a particular organ or site to receive two codes which will permit retrieval or tabulation according to either axis.

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The dual classification system is applied to conditions which are not recognized constituents of a disease as it first presents but which arise later as a manifestation or complication in another part of the body producing a condition, which, as a medical-care problem in its own right would be classified to another chapter of the ICD.

These characteristics of the proposed Tenth Revision were accepted by the Conference.

6.2 ICD-10 - Presentation of chapters

Each chapter (as listed in Annex I) was introduced to the Conference with a presentation on changes introduced from the Ninth Revision and some background related to certain innovations. Conference participants agreed to submit questions and comments regarding minor technical changes to the draft proposals to the Secretariat for follow-up and subsequent modification of the draft chapters as presented. Some significant issues related to changes in chapter structure and content were discussed by the Conference and agreement reached on follow-up and modification by the Secretariat (Annex VII).

7. Standards and definitions related to maternal and child health

The Conference considered with interest the recommended definitions, standards and reporting requirements for ICD-10 related to maternal mortality and to fetal, perinatal, neonatal and infant mortality. These recommendations were the result of a series of special meetings and consultations and were directed towards improving international comparability.

The Conference agreed that it was suitable to retain the definitions of live birth and fetal death as they appear in the Ninth Revision.

After discussion, and based on recommendations of a working party convened during the Conference, the Conference also agreed on the retention of the definition of maternal death as it appears in the Ninth Revision.

¹ WHO/ICD10/REV.CONF/89.11

formulated by the special working party and are included in Annex II. The Conference

RECOMMENDS that countries consider the inclusion on death certificates of a question regarding current pregnancy or pregnancy within one year preceding death to facilitate and improve international comparability of maternal mortality data.

The Conference agreed that, since the number of live births was more universally available than total births, it should be used as the denominator in all ratios related to maternal mortality.

With respect to perinatal, neonatal and infant mortality, it was strongly advised that rates calculated and published based on birth cohorts should be so identified and differentiated.

The Conference confirmed the practice of expressing age in completed units of time and thus expressing the first day of life as day zero.

The Conference

RECOMMENDS the inclusion in ICD-10 of the definitions, standards and reporting requirements related to maternal mortality and to fetal, perinatal, neonatal and infant mortality as contained in Annex II.

- 8. Coding and selection rules and tabulation lists for ICD-10
- 8.1 ICD-10 Coding and selection rules for mortality

The Conference was made aware of an extensive review process regarding the selection and modification rules for underlying cause of death and the associated notes as presented in ICD-9. This review had resulted in several recommended changes to the rules as well as extensive changes to the notes.²

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RECOMMENDS that the rules for selection of cause of death for primary mortality tabulation as they appear in the Ninth Revision be replaced in the Tenth Revision by those set out in Annex III.

The Conference was informed that additional notes for use in underlying cause coding and the interpretation of entries of causes of death had been drafted and were being reviewed. As these notes were intended to improve consistency in coding, the Conference agreed that they would also be incorporated in the Tenth Revision.

The Conference noted with interest the use of multiple condition coding and analysis in relation to causes of death. The Conference expressed encouragement of such activities but did not recommend that ICD-10 should contain any particular rules or methods of analysis to be followed.

In considering the international form of medical certificate of cause of death, the Expert Committee on ICD-10 recognized that with an aging population frequently dying with multiple pathologies and the effect of therapeutic interventions increasing the number of possible statements between the underlying cause and the direct cause of death, an increasing number of conditions were being entered on death certificates in many countries. This led the Committee to recommend the inclusion of an additional line (d) in Part I of the certificate.

Based on the recommendation of the Expert Committee, the Conference

RECOMMENDS that, where a need has been identified, countries consider the possibility of the additional line (d) in Part I of the medical certificate of cause of death.

8.2 ICD-10 Coding and selection rules for morbidity

For the first time, ICD-9 contained guidance on recording and coding for morbidity and specifically in the selection of a single cause for presentation of morbidity statistics. Experience gained through the use of the definitions and rules as presented in ICD-9 had proved their usefulness and generated requests for clarification of the definitions and further elaboration regarding the recording of diagnostic information by health care practitioners as well as for increased guidance in dealing with specific problem situations.

The Conference endorsed the recommendations of the Conference for the Ninth Revision of ICD about the condition to be used for single cause analysis of episodes of health care, and its view that, where practicable, multiple-cause analysis should be undertaken to supplement the routine data. The Conference stressed that the guidance provided in ICD-10 should make clear that much of such guidance was applicable only when the tabulation of a "main condition" for an episode was appropriate and when the concept of an "episode" per se was relevant to the way in which the data collection was organized.

The Conference accordingly

RECOMMENDS that additional guidance on recording and coding of morbidity on the lines of that set out in Annex IV should be included in the Tenth Revision. That the definitions of "main condition" and "other conditions" as set out in that Annex should be incorporated, together with the modified rules for dealing with obviously incorrectly reported "main condition".

The Conference agreed that extensive notes and examples would be added to provide further assistance.

It also

RECOMMENDS that where the "main condition" is subject to the dual classification system provided in ICD, both the dagger and asterisk codes should be recorded, to permit alternative tabulation by either.

8.3 Lists for tabulation of mortality and morbidity

The Conference was informed of difficulties that had arisen in the use of the Basic Tabulation List (BTL) based on ICD-9 and of the activities that had taken place to develop new lists for the tabulation and publication, particularly by WHO, of mortality data. In this process it had become apparent that rather than an infant mortality list, the list should include infant deaths and deaths of children up to the age of five years in view of the fact that mortality up to the age of five was a more robust indicator than infant mortality.

Two versions of each mortality list had been prepared for consideration by the Conference with the second including chapter titles and residual items for chapters as necessary.

working party was convened to consider the possible inclusion of some additional items. The report of the working party as presented was accepted by the Conference and is reflected in the mortality lists as presented in Annex V.

On the topic of lists for the tabulation of morbidity, the Conference reviewed both a proposed tabulation list and a model publication list based on chapter titles with selected items included as examples under each title. 4 Considerable concern was expressed about the applicability of such lists to all morbidity in the broadest sense and there was general agreement that the lists a presented were probably more suited to hospital morbidity but that further effor should be made toward the development of lists suitable for other morbidity applications and further that both mortality and morbidity tabulation lists shou be accompanied in ICD-10 by appropriate explanation and instruction as to their use.

Based on concerns raised in the Conference and the results of the working party, the Conference agreed that the tabulation and publication lists should remain as presented in Annex V but that there should be an effort to establish clearer, more descriptive titles for these.

To facilitate alternative tabulation of asterisk categories a second versi of the tabulation list should also be developed.

9. Family of classifications

9.1 Concept of the family of classification

Already during the preparation of the ninth revision it was realized that ICD alone could not cover all information required and that only a family of disease and health-related classifications would meet the different requirements in public health.

Annex A, B, C, D of WHO/ICD10/REV.CONF/89.9

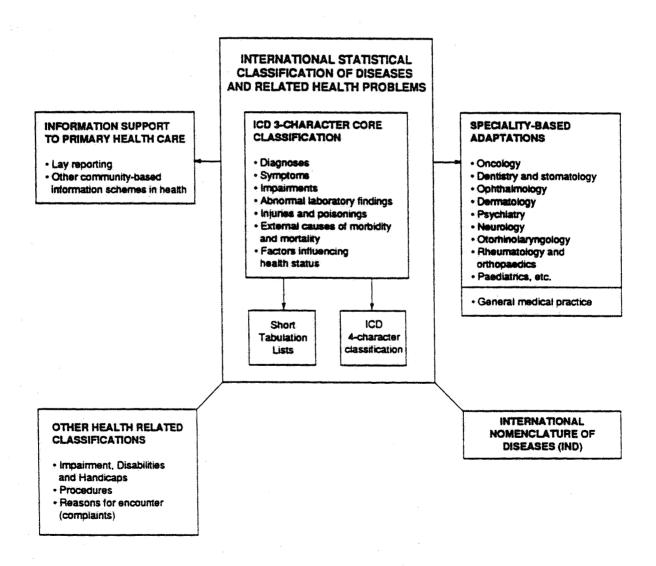
⁴ Annex E, F of WHO/ICD10/REV.CONF/89.9

envisaged, among which was a core classification (ICD) connected to a series of modules, some hierarchically structured and others of a supplementary nature.

After studies and discussions in cooperation with the various WHO Collaborating Centres for Classification of Diseases, a scheme was elaborated which was reconsidered and revised by the second Expert Committee on ICD-10 and recommended as shown below:

STRUCTURE AND CONTENT OF THE FAMILY OF DISEASE AND HEALTH RELATED CLASSIFICATIONS
The proposed scheme is presented below:

FAMILY OF DISEASE AND HEALTH RELATED CLASSIFICATIONS



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The Conference

RECOMMENDS that the concept of the family of disease and health related classification should be followed up by WHO and that the three-character core, the four-character classification and the short lists for tabulation should form together the International Statistical Classification of Diseases and Related Health Problems (ICD-10).

The Conference further

RECOMMENDS that in the interests of international comparability, no changes should be made to the content as indicated by the titles of the three-character categories and four-character subcategories of ICD-10 in the preparation of translations or adaptations.

The secretariat of WHO is responsible for ICD and acts as central clearing house for any publication or translation to be derived from it. WHO should be promptly notified about the intention to produce these.

The Conference viewed with interest a practical demonstration of the use and linkage of different members of the family in the medicosocial and multidimensional assessment of the elderly in relation not only to health but also to activities of daily living as well as the social and physical environment. It was demonstrated that effective information could be obtained through use of the ICD and the ICIDH and especially through use of the codes from the proposed Chapter XXI of ICD-10.

International Nomenclature of Diseases

Since 1970 the Council for International Organizations of Medical Sciences (CIOMS) has been involved in the preparation of an International nomenclature of diseases (IND) which should serve as a complement to the ICD.

The principal objective of the IND is to provide, for every morbid entity, a single recommended name. The main criteria for selection of this name are that it should be specific, unambiguous, as self-descriptive as possible, as simple as possible, and (wherever feasible) based on cause. Each disease or syndrome for which a name is recommended is defined as unambiguously, and yet as briefly, as possible. To the definition is appended a list of synonyms.

At the time of the Conference volumes had been published on the lower respiratory tract, infectious diseases, mycoses, viral and bacterial, and parasitic diseases, and cardiac and vascular diseases, and work was in preparation on volumes for the digestive system, urinary and male genital system, female genital system, metabolic and endocrine diseases, blood and blood-forming organs, immunological system, musculoskeletal system and nervous system.

Plans for future volumes included psychiatric diseases, as well as diseases of the skin, ear, nose and throat, and eye and adnexa.

The Conference recognized that an authoritative, up-to-date, and international nomenclature of diseases is important in the development of the ICD and for the comparability of health information. The Conference therefore

RECOMMENDS that WHO and CIOMS be encouraged to explore cost efficient ways to achieve the timely completion and maintenance of such a nomenclature.

9.2 Procedures in medicine

In 1978 WHO published the International Classification of Procedures in Medicine (ICPM) for trial purposes in accordance with the recommendations of the International Conference for the Ninth Revision in 1975 and resolution WHA29.35 of the 1976 World Health Assembly.

The classification was adopted by a few countries and was used as a basis for the national classifications of surgical operations of a number of others.

The Heads of WHO Collaborating Centres for Classification of Diseases have recognized that the essential process of drafting proposals, obtaining comments, redrafting and soliciting further comments, that WHO necessarily has to go through before finalization and publication, was inappropriate in such a rapidly advancing field as that of procedures. The Centre Heads recommended therefore that there should be no revision of the ICPM, in conjunction with ICD-10.

The second Expert Committee on ICD-10 asked that WHO consider updating for ICD-10 at least the outline of the surgical procedures (chapter 5) of the trial ICPM. Based on this request and the needs expressed by a number of countries an attempt was made by the secretariat to prepare a tabulation list for procedures.

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This list was presented to the Centre Heads at their 1989 meeting and it was agreed that such a list could serve as a guide for national presentation or publication of statistics on surgical procedures and could also facilitate intercountry comparisons.

The aim of the list would be to identify and define procedures and groups of procedures as a basis for the development of national classifications thereby improving the comparability of such classifications.

The Conference agreed on the value of such a list and that work should continue on its development even though any publication would follow the implementation of ICD-10.

9.3 Impairments, Disabilities and Handicaps

The International Classification of Impairments, Disabilities and Handicaps (ICIDH) was published in English by WHO in 1980. Since that time research and development on the classification has followed a number of paths.

All three major definitions have undoubtedly been instrumental in changing attitudes to disablement. The definition of impairment, an area where there is considerable overlap with the terms included in the International Classification of Diseases (ICD), has been widely accepted. The definition of disability broadly matches the field of action of rehabilitation professionals and groups although there is felt to be a need for more attention in the associated code to the gradation of severity, often a predictor of handicap. There has also been increasing requests to revise the definition of handicap so as to put more emphasis on the effect of the environment.

The rate of evolution of ideas and practices in the management of disablement ruled out the production of a revised ICIDH in time to be submitted to the Revision Conference. The Conference was told that a definitive revision was unlikely after implementation of ICD-10.

9.4 Extending and condensing of ICD for specific purposes/clinical specialities and general medicine

The Conference was informed of plans for development of several adaptations of ICD-10 in the mental health programme area. Clinical guidelines would accompany a version intended for use by clinicians working in the field of psychiatry; research criteria would be proposed for use in investigations of mental health problems; multiaxial presentations for use in dealing with childhood disorders and for the classification of adult problems would be developed as well as a version for use by general practitioners. Compilations of ICD codes relevant to psychiatry (ICD-10 PA) and to neurology (ICD-10 NA) would also be produced along the lines of previous such publications.

The Conference also heard of the methods used to maintain the intent of the ICD in the development of the application for medical specialities for dentistry and stomatology (ICD-DA) and that a new revision of the ICD-DA linked to the ICD-10 was in the final stages of preparation.

There was also a presentation on the International Classification of Diseases for Oncology (ICD-O), Second Edition, a multiaxial classification including both the topography and morphology of neoplasms. The topography codes of the second edition would be based on categories COO-C8O in ICD-10 and publication would, therefore, await World Health Assembly approval of the Tenth Revision. The morphology codes of the ICD-O which had evolved over a long history had been revamped and extensively field tested before inclusion in the ICD-O, Second Edition.

9.5 Community-based information for health and lay reporting

Given the shortcomings of the formal health statistical systems in specific geographic areas, alternative methods exist or should be sought.

the Ninth Revision of ICD, a Working Group was convened by the WHO Regional Office for South-East Asia in New Delhi from 22-27 November 1976. The Working Group drew up a detailed list of symptom associations. From this detailed list, two short lists were derived, one for causes of death and one for reasons for contact with health services. Field trials of this system were carried out in countries of the Region and the results were used to revise the list of symptom associations and the reporting forms. This revised version was published by WHO in 1978 in the booklet Lay Reporting of Health Information.

The global strategy for Health for All by the Year 2000 (HFA/2000) launched in 1978 has thrown open a number of challenges for the development of information systems in Member States. With countries in conjunction with the global strategy of Health for All by the year 2000, reorienting and strengthening their health services to a health system based on primary health care, they recognized an urgent need to improve their information support for developing and managing such a system. With primary health care becoming the main focus for the countries' health systems, decentralization with maximum community involvement in identifying priority problems and participating in solving them, has become the basis for health systems development and management. This requires collection of information on health status that is meaningful to health personnel with different levels of education and training in medicine.

To obtain a factual picture of the health situation for the whole country and particularly to overcome difficulties in the collection of morbidity and mortality data, several initiatives including the use of lay reporting procedures have been undertaken. The information needs of health systems based on primary health care can be achieved by broadening the scope of lay reporting to a Community-based Health Information System (CHIS) that includes: health problems and needs, related risk factors and resources (including relevant information from related sectors) and is focussed on individuals grouped to families and based on communities. This expanded scheme is being tested in a number of countries and it appears that CHIS can provide information that is:

- complete compared with conventional institution-based information i.e covering the total population and not restricted to demand;
- comprehensive as it facilitates the provision of continuity in health care; coverage of total population receiving all elements of PHC can be derived: -52-

- efficient since common data elements of various programmes are generated only once and can be continuously updated;
- effective by being the basis for providing a consistent set of eligible persons for different programmes. Programme delivery records can be tailored to the requirements of the users but built on this common dataset; relevant information and indicators can then be derived for management;
- meaningful since data are generated in terms understandable to those who generate and use them.

At the community level, apart from morbidity and mortality data that can be generated through the lay reporting method, risk factors in terms of environmental hazards, behaviour and others of medical significance requiring special care can be studied for all individuals within a family and a risk score assigned to the family for priority attention for relevant care. The list of individuals when properly updated can also provide information on eligibles for various health care activities and services such as antenatal care, immunization, child care, nutrition etc. Given the socio-economic and environmental information, it should be possible to choose appropriate types and modes of interventions, be they promotional, preventive or curative, to ensure their effectiveness and contribution to improving the quality of life that underlies the health for all strategies. Continuous care registers for various programme/service interventions can be built around this "family sheet" to facilitate the initiation and maintenance of appropriate care to individuals through "follow-ups". The service registers, records and reports will thus have a single focus, to satisfy the managerial needs for information at different levels, with information emanating from different sources, it should be possible to develop a comprehensive measure of access to PHC.

At the national level, the community information, and if necessary even family information, can be aggregated to derive among others, a complete picture of the morbidity and mortality situation including the pattern of conditions for the whole country. This can be supplemented with a scheme such as sentinel reporting for epidemiological surveillance.

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The Conference supported the concept of developing non-conventional methods at the community level as a method of filling gaps in and strengthening the information systems of individual countries. It was stressed that, for both developed and developing countries, such methods or systems should be developed locally and that, due to factors such as morbidity patterns as well as language and cultural variations, transfer to other locales should not be attempted.

10. Timetable for ICD-10

10.1 Publication of ICD-10

The Conference was informed that it was the intention of WHO to publish the 4 character version of ICD-10 in three volumes. A volume containing the Tabular List a second containing all related definitions, standards and rules, and the third containing the Alphabetical Index. The 3 character version of ICD-10 would appear as a single volume which, in the Tabular List would contain all inclusion and exclusion notes. It would also contain all related definitions, rules and instructions and a shortened Alphabetical Index.

The planned publication timetable for availability of all three volumes of the English and French four character versions of ICD-10 had a target date of the end of 1991. It was not anticipated that the three character version would be published before 1992.

Member States intending to produce national language versions of ICD-10, should notify WHO of their intentions. Copies of the draft proposals of ICD-10 at the 3 and 4 character levels would be made available from WHO both in printed form and on electronic media.

With respect to the physical appearance of the pages and type formats in both the Tabular List and Alphabetical Index, the Conference was assured that recommendations from the Centre Heads and complaints from coders would be considered and every attempt made to improve these aspects over ICD-9.

10.2 Familiarization and training

As with the ICD-9, it is intended to develop training material for reorientation of trained coders with the help of the Collaborating Centres. The actual training courses would be the responsibility of the regional offices. They would be carried out during late 1991 and through 1992 to finish before the implementation of ICD-10.

Training materials for basic training courses in the use of ICD-10 will be developed by WHO. It is not planned to begin these courses, however, before 1993.

10.3 As noted above, WHO will be prepared to provide ICD-10 (both the Tabular List and Alphabetical Index) on electronic media. In future, with the assistance of the Collaborating Centres, software may also become available. A conversion key for ICD-9 to ICD-10 and the reverse is intended to be made available before ICD-10 implementation.

10.4 Introduction of ICD-10 in countries

As activities that had been endorsed by the Expert Committee are on schedule, the Conference

RECOMMENDS that the Tenth Revision of the International Classification of Diseases should come into effect on 1 January 1993.

Future core classification

The Conference discussed the difficulties experienced over the extended implementation period of ICD-9 because of the recognition of new diseases and the lack of an updating mechanism to accommodate them.

Various suggestions for mechanisms to overcome this difficulty and avoid similar problems with respect to ICD-10 were discussed. There was a clear feeling that there was a need for ongoing information exchange to standardize the use of ICD-10 between countries but that any changes introduced throughout its "lifetime" should be considered very carefully with relation to their impact on analyses and trends. There was discussion of the types of forums in which such changes could be discussed and Member State input received as well as the potential for the use of the unused alpha character "U" for new or temporary code assignments. It was agreed that revision conferences were not feasible more frequently than every 10 years.

to attempt to determine or define the exact process to be used, the Conference

RECOMMENDS that WHO give consideration as to how an effective updating mechanism could be put in place.

12. Adoption of the Tenth Revision of the International Classification of Disea

The Conference,

Having considered the proposals prepared by the Organization on the recommendations of the Expert Committee on ICD-10

Recognizing the need for a few further minor modifications to meet the comm on points of detail submitted by Member States during the Conference,

RECOMMENDS that the proposed revised chapters as listed in Annex I and the Short Tabulation Lists for Morbidity and Mortality in Annex V to this repor constitute the Tenth Revision of the International Classification of Diseas

<u>List of Chapters</u>

| | | A Committee of the Comm | |
|---------------------|----|--|---|
| CD10/REV.PROP/89.1 | - | Chapter I: | Certain infectious and parasitic diseases |
| CD10/REV.PROP/89.2 | - | Chapter II: | Neoplasms |
| CD10/REV.PROP/89.3 | • | Chapter III: | Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism |
| CD10/REV.PROP/89.4 | - | Chapter IV: | Endocrine, nutritional and metabolic diseases |
| CD10/REV.PROP/89.5 | - | Chapter V: | Mental and behavioural disorders |
| CD10/REV.PROP/89.6 | ** | Chapter VI: | Diseases of the nervous system |
| CD10/REV.PROP/89.7 | - | Chapter VII: | Diseases of the eye and adnexa |
| CD10/REV.PROP/89.8 | - | Chapter VIII: | Diseases of the ear and mastoid process |
| CD10/REV.PROP/89.9 | - | Chapter IX: | Diseases of the circulatory system |
| CD10/REV.PROP/89.10 | - | Chapter X: | Diseases of the respiratory system |
| CD10/REV.PROP/89.11 | - | Chapter XI: | Diseases of the digestive system |
| CD10/REV.PROP/89.12 | - | Chapter XII: | Diseases of the skin and subcutaneous tissue |
| CD10/REV.PROP/89.13 | - | Chapter XIII: | Diseases of the musculoskeletal system and connective tissue |
| CD10/REV.PROP/89.14 | - | Chapter XIV: | Diseases of the genitourinary system |
| CD10/REV.PROP/89.15 | - | Chapter XV: | Pregnancy, childbirth and the puerperium |
| CD10/REV.PROP/89.16 | - | Chapter XVI: | Certain conditions originating in the perinatal period |
| CD10/REV.PROP/89.17 | | Chapter XVII: | Congenital malformations, deformations, and chromosomal abnormalities |
| CD10/REV.PROP/89.18 | - | Chapter XVIII: | Symptoms, signs and abnormal clinical and laboratory findings not elsewhere classified |
| CD10/REV.PROP/89.19 | - | Chapter XIX: | Injury, poisoning and certain other consequences of external causes |
| CD10/REV.PROP/89.20 | - | Chapter XX: | External causes of morbidity and mortality |
| CD10/REV.PROP/89.21 | - | Chapter XXI: | Factors influencing health status and contact with health services |

ANNEX II

RECOMMENDED DEFINITIONS, STANDARDS AND REPORTING REQUIREMENTS FOR ICD-10 RELATED TO FETAL, PERINATAL, NEONATAL AND INFANT MORTALITY

1. Definitions

1.1 Live birth and another than the second of the second o

Live birth is the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of the pregnancy, which, after such separation, breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached; each product of such a birth is considered live born.

1.2 Fetal death [deadborn fetus]

Fetal death is death prior to the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy; the death is indicated by the fact that after such separation the fetus does not breathe or show any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles.

1.3 Birth weight

The first weight of the fetus or newborn obtained after birth.

1.4 Low birth weight

Less than 2500 g (up to, and including 2499 g).

1.5 Very low birth weight

Less than 1500 g (up to, and including 1499 g).

1.6 Extremely low birth weight

Less than 1000 g (up to, and including 999 g).

1.7 <u>Gestational age</u>

The duration of gestation is measured from the first day of the last normal menstrual period. Gestational age is expressed in completed days or completed weeks (e.g. events occurring 280 to 286 completed days after the onset of the last normal menstrual period are considered to have occurred at 40 weeks of gestation).

1.8 Pre-term

Less than 37 completed weeks (less than 259 days) of gestation.

1.9 Term

From 37 completed weeks to less than 42 completed weeks (259 to 293 days) of gestation.

1.10 Post-term

42 completed weeks or more (294 days or more) of gestation.

1.11 <u>Perinatal period</u>

The perinatal period commences at 22 completed weeks (154 days) of gestation (the time when birth weight is normally 500 g), and ends 7 completed days (168 hours) after birth.

1.12 Neonatal period

The neonatal period commences at birth and ends 28 completed days after birth. Neonatal deaths (deaths among live births during the first 28 completed days of life) may be subdivided into early neonatal deaths, occurring in the first seven days (167 hours) of life and late neonatal deaths, occurring after the seventh day but before 28 completed days of life.

2. Notes on definitions

- 2.1 For live births, birth weight should be measured preferably within the first hour of life before significant postnatal weight loss has occurred. Whilst statistical tabulations include 500 g groupings for birth weight, weights should not be recorded in those groupings. The actual weight should be recorded to the degree of accuracy that it is measured.
- 2.2 The definitions of "low", "very low", and "extremely low" birth weight do not constitute mutually exclusive categories. Below the set limits they are all-inclusive and therefore overlap. (i.e. "low" includes "very low" and "extremely low", while "very low" includes "extremely low").

2.3 Gestational age is frequently a source of confusion when calculations are based on menstrual dates. For the purposes of calculation of gestational age from the date of the first day of the last normal menstrual period and the date of delivery, it should be borne in mind that the first day is day zero and not day one; days 0-6 therefore correspond to "completed week zero", days 7-13 to "completed week one", and the 40th week of actual gestation is synonymous with "completed week 39". In order to avoid misunderstanding, tabulations should indicate both weeks and days.

3. Reporting requirements

- 3.1 It is recognized that legal requirements for the registration of fetal deaths and live births still vary from country to country and even within countries. However, it is recommended that, wherever possible, all fetuses and infants delivered weighing at least 500 g, whether alive or dead, be included in the statistical tabulations. When birth weight is unavailable, the corresponding criteria for gestational age (22 completed weeks), or body length (25 cm crown-heel) should be used. The criteria for deciding whether an event has taken place within the perinatal period should be applied in the order 1) birth weight, 2) gestational age, 3) crown-heel length. The inclusion of fetuses and infants weighing between 500 g and 1000 g in national statistics is recommended both because of its inherent value and because this inclusion improves the completeness of reporting at 1000 g and over.
- 3.2 In statistics for <u>international</u> comparison, inclusion of this group of extremely low birth weight births disrupts the validity of comparisons and is not recommended. Countries should therefore arrange registration and reporting procedures so that the events and the criteria for their inclusion in the statistics can be easily identified. Less mature fetuses and infants not corresponding to these criteria should be excluded from perinatal statistics unless there are legal or other valid reasons to the contrary, in which case this inclusion must be explicitly stated. Where these characteristics are unknown, the event should be included in, rather than excluded from, mortality statistics of the perinatal period. Countries should also present standard statistics in which both the numerator and the denominator of all ratios and rates are restricted to fetuses and infants weighing 1000 g or more (weight-specific ratios and rates); where birth weight is unavailable, the corresponding gestational age (28 completed weeks) or body length (35 cm crown-heel) should be used.
- 3.3 In reporting fetal, perinatal, neonatal and infant mortality statistics the number of deaths due to malformations should whenever possible be identified for live births and fetal deaths and in relation to birth weight of 500-999 g and 1000 g or more. Neonatal deaths due to malformations should be subdivided into early and late neonatal deaths. The availability of this information enables perinatal and neonatal mortality statistics to be reported with or without the deaths from malformations. A malformation is defined as a congenital morphological anomaly (see Chapter XVII) regarded to be the underlying cause of death during the fetal and neonatal period.

4. Ratios and rates

Published ratios and rates should always specify the denominator that has been used, i.e., live births or total births (live births plus fetal deaths). Countries are encouraged to provide the ratios and rates listed below, or as many of them as their data collection systems permit:

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4.1 Fetal death ratio

Fetal deaths x 1000 Live births

4.2 Fetal death rate:

Fetal deaths x 1000 Total births

4.3 Fetal death rate, weight-specific:

Fetal deaths weighing 1000 g and over x 1000 Total births weighing 1000 g and over

4.4 Early neonatal mortality rate:

Early neonatal deaths x 1000

4.5 Early neonatal mortality rate, weight-specific:

Early neonatal deaths of infants weighing 1000 g and over at birth $_{\rm X}$ 1000 Live births weighing 1000 g and over

4.6 Perinatal mortality ratio:

Fetal deaths and early neonatal deaths x 1000 Live births

4.7 Perinatal mortality rate 1 Fetal deaths and early neonatal deaths \times 1000

Total births

4.8 Perinatal mortality rate, weight-specific:

Fetal deaths weighing 1000 g and over, plus

early neonatal deaths of infants weighing 1000 g and over at birth x 1000

Total births weighing 1000 g and over

4.9 Neonatal mortality rate:

Neonatal deaths x 1000

4.10 Neonatal mortality rate, weight-specific:

Neonatal deaths of infants weighing 1000 g and over at birth x 1000 Live births weighing 1000 g and over

4.11 Infant mortality rate:

Number of deaths under one year of age x 1000

¹The perinatal mortality rate is the number of fetal deaths weighing at least 500 g (or, when birth weight is unavailable, after 22 completed weeks of gestation or with a crown-heel length of 25 cm or more), plus the number of early neonatal deaths, per 1000 total births. Because of the different denominators in each component, this is not necessarily equal to the sum of the fetal death rate and the early neonatal mortality rate.

4.12 Infant mortality rate, weight-specific:

Infant deaths among live births weighing 1000 g and over at birth x 1000 Live births weighing 1000 g and over

V. RECOMMENDED DEFINITIONS, STANDARDS AND REPORTING REQUIREMENTS FOR ICD-10 RELATED TO MATERNAL MORTALITY

1. Definitions

- 1.1 A maternal death is defined as the death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of the duration and the site of the pregnancy, from any cause related to or aggravated by the pregnancy or its management but not from accidental or incidental causes.
- 1.2 Maternal deaths should be subdivided into two groups:
- 1.2.1 Direct obstetric deaths: those resulting from obstetric complications of the pregnant state (pregnancy, labour and puerperium), from interventions, omissions, incorrect treatment, or from a chain of events resulting from any of the above.
- 1.2.2 Indirect obstetric deaths: those resulting from previous existing disease or disease that developed during pregnancy and which was not due to direct obstetric causes, but which was aggravated by physiologic effects of pregnancy.
- 1.3 A pregnancy death is defined as the death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of the cause of death. This includes direct and indirect obstetric deaths as defined above under 1.2.1 and 1.2.2 plus deaths resulting from violent or incidental causes not related to pregnancy, childbirth or the puerperium, but occurring during that period.
- 1.4 A late maternal death is defined as the death of a woman from direct or indirect obstetric causes more than 42 days but less than one year after termination of pregnancy.

2. Reporting requirements

- 2.1 For the purposes of the international reporting of maternal mortality only those maternal deaths occurring before the end of the 42-day reference period should be included in the various ratios and rates, though the collection of later deaths is useful for national analytical purposes.
- 2.2 Published maternal mortality rates should always specify the numerator (number of recorded maternal deaths), which can be given as:
 - the number of recorded direct obstetric deaths, or
 - the number of recorded obstetric deaths (direct plus indirect).
- 2.3 The denominator used for calculation should likewise be specified as either the number of live births or the number of total births (live births plus fetal deaths). Where figures for both live births and fetal deaths are available, a calculation should be published for each denominator.

2.4 Maternal deaths due to obstetric causes but occurring after the end of the puerperium should not be included in the calculation of maternal mortality rates.

3. Ratios and rates

These should be expressed as a ratio of the numerator to the denominator, multiplied by 1 000, 10 000, or 100 000 as preferred and indicated by the country. Maternal mortality ratios and rates can thus be expressed as:

3.1 Maternal mortality rate:

Maternal deaths (direct and indirect) x k
Live births

3.2 Direct obstetric mortality ratio:

Direct obstetric deaths only x k
Live births

3.3 Pregnancy mortality ratio:

Pregnancy deaths x k

where k may be 1 000, 10 000 or 100 000 as specified by the country.

ANNEX III

RULES FOR SELECTION OF CAUSE OF DEATH FOR PRIMARY MORTALITY TABULATION

Logical Sequence

For the purposes of selection of the underlying cause of death, it is necessary to take into account the concept of "logical sequence".

The term "sequence" or "logical sequence" means two or more conditions entered on successive lines of Part I, each condition being an acceptable cause of the one entered on the line above it.

Example 1:

- I (a) Respiratory failure
 - (b) Bronchopneumonia
 - (c) Measles

In this example, the sequence reported by the physician is: respiratory failure (due o) bronchopneumonia (due to) measles. Or, in an inverse way: measles (leading to) bronchopneumonia (leading to) respiratory failure.

If there is more than one cause of death in a line of the certificate, it is possible to have more than one reported logical sequence. In the example shown below there are four sequences reported:

Example 2: I (a) Coma

- (b) Myocardial infarction and cerebrovascular accident
 (c) Atherosclerosis Hypertension

Atherosclerosis (leading to) Myocardial infarction (leading to) Coma Atherosclerosis (leading to) Cerebrovascular accident (leading to) Coma (leading to) Myocardial infarction (leading to) Coma Hypertension Hypertension (leading to) Cerebrovascular accident (leading to) Coma

SELECTION RULES

General Principle

When more than one condition is entered on the certificate, select the condition entered alone on the lowest used line of Part I only if it could have given rise to all the conditions entered above it.

Rule 1. If the General Principle does not apply and there is a logical sequence terminating in the condition first entered on the certificate, select the originating cause of this sequence.

If there is more than one sequence terminating in the condition first mentioned select the originating cause of the first-mentioned sequence.

Rule 2. If there is no logical sequence terminating in the condition first entered on the certificate, select this first-mentioned condition.

Rule 3. If the condition selected by the General Principle or by Rule 1 or Rule 2 is obviously a direct consequence of another reported condition, whether in Part I or Part II, select this primary condition.

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THE MODIFICATION RULES

- RULE A. SENILITY AND OTHER ILL-DEFINED CONDITIONS. Where the selected cause is classifiable to Chapter XVIII (Symptoms, signs and abnormal clinical and laboratory findings not elsewhere classified) except for R95 (Sudden Infant Death Syndrome (SIDS)) and a condition classified elsewhere than to R00-R94 or to R96-R99 is reported on the certificate, reselect the cause of death as if the condition classified to Chapter XVIII had not been reported, except to take account of that condition if it modifies the coding.
- <u>RULE B.</u> TRIVIAL CONDITIONS. Where the selected cause is a trivial condition unlikely to cause death and a more serious condition is reported, reselect the underlying cause as if the trivial condition had not been reported. If the death was the result of an adverse reaction to treatment of the trivial condition select the adverse reaction.
- <u>NULE C.</u> <u>LINKAGE</u>. Where the selected cause is linked by a provision in the classification or in the Notes for use in underlying causes mortality coding on pages ... with one or more of the other conditions on the certificate, code the combination.

Where the linkage provision is only for the combination of one condition specified due to another, code the combination only when the correct causal relationship is stated or can be inferred from application of the selection rules.

Where a conflict in linkages occurs, link with the condition that would have been selected if the cause initially selected had not been reported. Apply any further linkage that is applicable.

- <u>RULE D. SPECIFICITY</u>. Where the selected cause describes a condition in general terms and a term which provides more precise information about the site or nature of this condition is reported on the certificate, prefer the more informative term. This rule will often apply when the general term can be regarded as an adjective, qualifying the more precise term.
- RULE E. EARLY AND LATE STAGES OF DISEASE. Where the selected cause is an early stage of a disease and a more advanced stage of the same disease is reported on the certificate, code to the more advanced stage. This rule does not apply to a "chronic" form reported as due to an "acute" form unless the classification gives special instructions to that effect.
- <u>RULE F. SEQUELAE</u>. Where the selected cause is an early form of a condition for which the classification provides a separate "Sequelae of ..." category and there is evidence that death occurred from residual effects of this condition rather than in its active phase, code to the appropriate "Sequelae of ..." category.

The following "Sequelae of ..." categories have been provided: B90-B94, E64, G09, 169, 097 and Y85-Y89 (See III Sequelae, page ...).

ROUTINE SINGLE-CAUSE ANALYSIS OF CAUSES OF MORBIDITY

<u>Definitions</u>

The condition to be used for single-cause analysis of episodes of health care is the "main condition" treated or investigated during the relevant episode.

The MAIN CONDITION is defined as the diagnosis, established at the end of the episode of health care, of the condition primarily responsible for the patient receiving treatment or being investigated. If there is more than one such condition, the one which was responsible for the greatest use of resources should be selected. If no diagnosis was made, the main symptom, abnormal finding or problem should be selected as the main condition.

The record used for statistical analysis should, where practicable, also include, separately, "other conditions" or problems dealt with during the relevan episode of health care.

OTHER CONDITIONS are defined as those which co-exist or develop during the episode of health care and affect the management of the patient. Conditions that relate to an earlier episode and which have no bearing on the current episode of health care should not be recorded.

An "episode of health care" refers to a period of in-patient care or, for example, a contact (or series of contacts in a specific time-period) with a health-care practitioner in relation to the same condition or its immediate consequences. Administrative or organizational considerations will determine wha is to be regarded as an episode of health care for a specific data-collection system. It is therefore important that the criteria adopted in defining what is meant by an "episode" be explicitly stated in presentation of the statistics.

Routine single-cause analysis of data derived from surveys should be based on the condition mainly responsible for the relevant episode of illness.

The limitation of analysis to a single cause per episode necessarily involves a loss of information and it is recommended that, where practicable, multiple-condition coding and analysis be undertaken to supplement routine data. This should be done according to local rules, since no international rules have been recommended.

Guidelines for recording diagnostic information

General

The diagnoses in relation to the relevant episode of health care should be determined, and the "main condition" selected, by the health care practitioner responsible for the patient's treatment.

It is important that adequate health care record systems be provided in which the information is organized systematically and standard recording methods are used, thus allowing the responsible health care practitioner to indicate clearly his assessment of the "main condition" and "other condition" for each episode of health care. A properly-completed record is an essential tool in patient-management and also provides a valuable source of epidemiological and other statistical data on morbidity and other health care problems.

Specificity and detail

Each diagnostic label should be as informative as possible and should include whatever detail is available about the site, variety, etiology, etc. of the condition, to allow a good patient-management and at the same time a classification to the most specific ICD category. Examples of such diagnostic statements are shown below:

- transitional cell carcinoma of trigone of bladder;
- acute perforated appendicitis;
- diabetic cataract;
- meningococcal pericarditis;
- antenatal care for pregnancy-induced hypertension;
- diplopia due to allergic reaction to antihistamine taken as prescribed;
- osteoarthritis of hip due to an old hip fracture;
- fracture of neck of femur;
- third-degree burn of hand.

Uncertain diagnoses or symptoms

If, and only if, no definite diagnosis has been established by the end of an episode of health care, that information should be recorded which permits the greatest degree of specifity and knowledge about the condition which necessitated care or investigation. This should be in the form of stating a symptom, abnormal finding or problem, rather than qualifying a diagnosis as "possible", "questionable" or "suspected" when it has been considered but not established.

Non-illness situations

Episodes of health care or contact with health services are not restricted to the treatment or investigation of current illness or injury. When persons who are not currently sick or who have no condition classifiable to Chapters I-XIX encounter the health care system, details of the relevant circumstances should be recorded as the "main condition".

Examples of such reasons for contact are:

- monitoring of previously treated conditions;
- immunization;
- surveillance of persons at risk because of certain personal or family history:
- examinations of healthy persons for, e.g. insurance or occupational reasons;
- seeking of health-related advice;
- requests for advice by persons with social problems;
- consultation on behalf of a third party.

Chapter XXI (Factors influencing health status and contact with health services) provides a broad range of categories (Z00-Z98) for classifying these circumstances; reference to this chapter will give an idea of the detail required to permit classification to the most relevant category.

Multiple conditions

Where an episode of health care is directed at multiple related conditions, for example, multiple injuries, multiple sequelae of a previous illness or injury, or multiple conditions occurring in Human immunodeficiency virus [HIV] disease, and one of them is clearly more severe and resource-intensive than the others, that one should be recorded as the "main condition" and the others recorded as "other conditions". Where no one condition predominates in the use of resources, a term such as "multiple fractures", "multiple head injuries" or "HIV disease with multiple infections" may be recorded as the "main condition", followed by a list of the conditions. Only if this is impracticable because of the number of such conditions should a term such as "multiple injuries", or "multiple crushing injuries" be recorded alone. Categories are provided in ICD for coding "Multiple ... " where necessary.

Conditions due to external causes

Chapter XX (External causes of morbidity and mortality) permits the classification of external causes of morbidity. When a condition such as an injury, poisoning or an other effect of external causes is recorded, it is important to describe fully both the nature of the condition and the circumstances which gave rise to it. Examples are: "fracture of neck of femur caused by fall due to slipping on greasy pavement"; "cerebral contusion caused when patient lost control of car, which hit a tree"; "accidental poisoning - patient drank disinfectant in mistake for soft drink"; "severe hypothermia - patient fell in her garden in cold weather".

Dual classification system ("dagger and asterisk" system)

The ICD provides a dual classification system (dagger (+) codes and asterisk (*) codes) for coding diagnostic statements which combine information about an underlying disease and a complication or manifestation in a particular organ or site. Where conditions linked in this way are the main reason for treatment or investigation, both elements should be included in the description of the "main condition", to allow the ICD coding to represent the situation fully. Examples of such descriptions are: "Tuberculous pericarditis", "Diabetic cataract", "Meningitis in infectious mononucleosis". Reference to the ICD manual will give an idea of the kind of conditions which the classification links in this way.

Treatment for sequelae of pre-existing conditions

Where an episode of care is for treatment or investigation directed to a residual condition (a "sequela") of a disease that is no longer present, the nature of the sequela should be fully described and its origin stated, together with a clear indication that the original disease is no longer present. Examples are: "Deflected nasal septum - fracture of nose in childhood", "Contracture of Achilles tendon - late effect of injury to tendon", "Infertility due to tubal occlusion from old tuberculosis".

Where multiple sequelae are present and treatment or investigation is not directed predominantly at one of them, a statement such as "Sequelae of cerebrovascular accident" or "Sequelae of multiple fractures" is acceptable.

Guidelines for coding of "main condition"

General

The determination of the "main condition" and "other conditions" relevant to an episode of health care should have been done by the responsible health care practitioner, and coding is therefore usually straightforward, since the "main condition" indicated as such should be accepted for coding and processing unless it is obvious by reference to other data being coded that the health care practitioner has not understood or followed the guidelines provided above. Whenever possible, a record with an obviously inconsistent or incorrectly recorded "main condition" should be returned to the responsible health care practitioner for clarification. Failing clarification, Rules MB1 to MB5 are provided to deal with the more frequent varieties of incorrect recording which the coder may encounter.

Once the "main condition" is determined, its ICD code should be assigned following normal procedures. In most cases this is straightforward, but guidelines are provided below for assignment in certain situations in which the coder may be unclear as to the appropriate code.

It has been recommended that "other conditions" in relation to an episode of care are recorded in addition to the "main condition" even when single-cause analysis only is to be performed. This also provides the coder with a full picture of the circumstances which may assist in the assignment of the correct ICD code for the "main condition".

Optional additional codes

In the guidelines below, a preferred code for "main diagnosis" is sometimes indicated, together with an optional additional code which may elaborate the situation. The preferred code is that to be used for the "main condition" for single-cause analysis and the additional code may be included, if wished, in the codes subjected to multiple-cause analysis.

Examples: ...

Coding of conditions to which the dagger and asterisk system applies

For diagnostic statements to which the dagger and asterisk system applies, both "dagger" and "asterisk" codes should be used for coding the "main condition", since they are alternatives permitting different kinds of single-cause analysis. (See Introduction to the Manual, pages ...). If it is not possible to use more than one code, the dagger code should be used, as this is the "traditional" ICD code for epidemiological purposes.

Coding of suspected conditions, symptoms and abnormal findings, and non-illness situations

The coder should in general be wary of coding as the "main condition" conditions classifiable to Chapters XVIII and XXI if the episode of health care relates to a stay as an in-patient. If, but only if, it is apparent that no more specific diagnosis was formulated by the end of the in-patient stay, or that the in-patient care was genuinely that of a patient with no codable current illness or injury, codes from these chapters are perfectly acceptable. (See also Rules MB3 and MB5, pages and). For other types of episode of contact with health services, the categories are often acceptable without question.

If at the completion of an episode of health care the "main condition" is still recorded as "suspected ..." "questionable", etc., and other relevant information and clarification is not available or possible, the diagnosis must be coded as if it existed.

A category, Z04.-, is provided in ICD for coding certain conditions which were originally suspected but have been ruled out after study.

Examples: ...

Coding of multiple conditions

Where multiple conditions are recorded for which the ICD provides a category entitled "Multiple ..." and no single one of them is indicated as, or can be assumed to be, the condition to which treatment was predominantly directed, the code for the category or subcategory entitled "Multiple ..." should be used as the preferred code, and codes for any individual conditions listed should be added as optional additional codes.

This applies mainly to conditions associated with HIV disease, to injuries and sequelae. See the chapter-specific notes (section 2.5) for further explanation of coding.

Coding of combinations of conditions

The ICD provides certain categories where two conditions or a condition and an associated secondary process can be represented by a single code. Such combination categories should be used as the "main condition" where appropriate information is recorded. The Alphabetical Index indicates where such combinations are provided for, under the indent "with", which appears immediately after the lead term. Two or more conditions recorded under "main condition" may be linked if one of them may be regarded as an adjectival modifier of the other.

Examples: ...

Coding of external causes of morbidity

It is recommended that for injuries and other conditions due to external causes, both the nature of the condition and the circumstances of the external cause are to be coded. The preferred "main condition" code should be that for the nature of the condition. This will usually be classifiable to Chapter XIX, but will sometimes be in one of the other chapters. The code from Chapter XX indicating the external cause should be used as an optional additional code.

Coding of sequelae of certain conditions

The ICD provides a number of categories entitled "Sequelae of ..." (B90-B94, E64, E68, G09, I69, 097, T90-T98, Y85-Y89) which may be used to indicate conditions not now present as the cause of a current problem undergoing treatment or investigation. The preferred code for the "main condition" is, however, the code for the nature of the sequela itself, to which the code for "Sequelae of ..." may be added as an optional additional code.

Where a number of different very specific sequelae is present, and treatment of no one of them predominates in severity and use of resources, it is permissible for the description "Sequelae of ..." to be recorded as the "main condition", and this may then be coded to the appropriate category. Note that it is sufficient that the causal condition be described as "old", "no longer present", etc. or that the resulting condition be described as "late effect of ...", or "sequela of ..." for this to apply. There is no minimum time interval.

Examples: ...

Coding of acute and chronic conditions

Where the "main condition" is recorded as being both acute (or subacute) and chronic, and ICD-10 provides separate categories or subcategories for each, the category for the acute condition should be used as the preferred "main condition".

Examples: ...

Rules for reselection when the "main condition" is obviously incorrectly recorded

As previously emphasized, it is the responsible health care practitioner who should indicate his selection of "main diagnosis" to be coded and this should normally be accepted for coding, subject to the guidelines above.

However, certain circumstances or the availability of other information may indicate that the health care practitioner has not understood or not followed the advice on what was required. If it is not possible to obtain clarification from the health-care practitioner, one of the following rules may be applied and the "main condition" reselected.

Rule MB1. <u>Minor condition recorded as "main condition", more significant condition recorded as "other condition"</u>

Where a minor or long-standing condition or an incidental problem is recorded as the "main condition", and a more significant condition, relevant to the treatment given and/or the speciality which cared for the patient, is recorded as an "other condition", reselect the latter as the "main condition".

Examples: ...

Rule MB2. Several conditions recorded as "main condition"

If several conditions which cannot be coded jointly are recorded as the "main condition" and other details on the record point to one of them as being the "main condition" for which the patient received care, select that condition. Otherwise select the first mentioned.

Note: See paragraphs ... page ... on the use of "combination" and "multiple" codes.

Rule MB3. Condition recorded as "main condition" is the presenting symptom of diagnosed treated condition

If a symptom or sign (usually classifiable to Chapter XVIII), or a problem classifiable to Chapter XXI, is recorded as the "main condition", and this is obviously the presenting sign, symptom or problem of a diagnosed condition recorded elsewhere, and care was given for the latter, reselect the diagnosed condition as the "main condition".

Examples: ...

Rule MB4. Specificity

Where the diagnosis recorded as the "main condition" describes a condition in general terms, and a term which provides more precise information about the site or nature of the condition is recorded elsewhere, reselect the latter as the "main condition".

Examples: ...

Rule MB5. <u>Alternative main diagnoses</u>

Where a symptom or sign is recorded as the "main condition" with an indication that it may be due to either one condition or another, select the symptom as the "main condition".

Where two or more conditions are recorded as diagnostic options for the "main condition", select the first condition recorded.

| 1. | Cholera | A00 |
|-------------|--|------------------------|
| 2. | Diarrhoea and gastroenteritis of presumed infectious | A09 |
| <i>a.</i> , | origin | AU |
| 3. | Other intestinal infectious diseases | A01-A08 |
| 4. | Respiratory tuberculosis | A15-A16 |
| 5. | Other tuberculosis | A17-A19 |
| 6. | Plague | A20 |
| 7. | Tetanus | A33-A35 |
| 8. | Diphtheria | A36 |
| 9. | Whooping cough | A37 |
| 10. | Meningococcal infection | A39 |
| 11. | Septicaemia | A40-A41 |
| 12. | Infections with a predominantly sexual mode of transmission | A50-A64 |
| 13. | Acute poliomyelitis | A80 |
| 14. | Rabies | A82 |
| | Yellow fever | A95 |
| 16. | Other arthropod-borne viral haemorrhagic fevers | A90-A94, A96-A99 |
| 17. | Measles | B05 |
| 18. | Viral hepatitis | B15-B19 |
| 19. | | B20-B24 |
| 20. | Human immunodeficiency virus [HIV] disease | |
| 20. | Malaria | B50-B54 |
| | Leishmaniasis | B55 |
| 22. | | B56-B57 |
| 23. | | B65 |
| 24. | and the control of th | A21-A32, A38, A42-A49, |
| | diseases | A65-A79,A81,A83-A89, |
| | | B00-B04,B06-B09, |
| | | B25-B49, |
| ٥ | | B58-B64, B66-B99 |
| 25. | Malignant neoplasm of lip, oral cavity and pharynx | C00-C14 |
| 26. | Malignant neoplasm of oesophagus | C15 |
| 27. | Malignant neoplasm of stomach | C16 |
| | Malignant neoplasm of colon, rectum and anus | C18-C21 |
| 29. | Malignant neoplasm of liver and intrahepatic bile ducts | G22 |
| 30. | Malignant neoplasm of pancreas | C25 |
| 31. | Malignant neoplasm of larynx | C32 |
| 32. | Malignant neoplasm of trachea, bronchus and lung | C33-C34 |
| 33. | Malignant melanoma of skin | C43 |
| 34. | Malignant neoplasm of breast | C50 |
| 35. | Malignant neoplasm of cervix uteri | C53 |
| 36. | Malignant neoplasm of other and unspecified parts | C54-C55 |
| | of uterus | |
| 37. | Malignant neoplasm of ovary | C56 |
| 38. | Malignant neoplasm of prostate | C61 |
| 39. | Malignant neoplasm of bladder | C67 |
| 40. | Malignant neoplasm of meninges, brain and other | C70-C72 |
| | parts of nervous system | |
| 41. | Non-Hodgkin's lymphoma | C82-C85 |
| 42. | Multiple myeloma and plasma cell neoplasms | C90 |
| 43. | Leukaemias | C91-C95 |
| 44. | Remainder of malignant neoplasms | C17, C23-C24, |
| | | C26-C31, |
| | | C37-C41,C44-C49, |
| | | C51-C52,C57-C60, |
| | | C62-C66,C68-C69, |
| | | C73-C81, C88, |
| | - 73 - | C96-C97 |
| | | 0,9 <u>0</u> =0,94 |

| 1, 5 | Anaemias | D50-D64 | |
|-------|---|-----------------|---------------------|
| | Diabetes mellitus | E10-E14 | |
| | Malnutrition | E40-E46 | |
| | Mental and behavioural disorders due to | F10-F19 | |
| 40. | | | |
| 10 | pyschoactive and other substance use | coo coa | |
| | Meningitis | G00, G03 G30 | |
| | Alzheimer's disease | I00-I09 | |
| 51. | Acute rheumatic fever and chronic rheumatic | 100-109 | |
| c 0 | heart disease | T10 T15 | |
| | Hypertensive disease | I10-I15 | |
| | Ischaemic heart disease | 120-125 | |
| | Other heart disease | | |
| | Cerebrovascular diseases | | |
| | Atherosclerosis | 170 | |
| | Remainder of diseases of the circulatory system | | |
| | Influenza | J12-J13 | |
| | Pneumonia | J14-J20 | |
| | Other acute lower respiratory infections | J10-J11, | J21 |
| | Chronic lower respiratory diseases | J40-J47 | |
| 62. | Remainder of diseases of the respiratory system | | J30-J39, J60-J98 |
| 63. | Gastric and duodenal ulcer | K25-K27 | |
| 64. | Diseases of liver | K70-K76 | |
| 65. | Glomerular and renal tubulo-interstitial diseas | es N00-N15 | |
| 66. | Pregnancy with abortive outcome | 000-008 | |
| | Other direct obstetric deaths | 010-092 | |
| 68. | Indirect obstetric deaths | 098-099 | |
| 69. | Certain conditions originating in the perinatal | P00-P95 | |
| | period | | |
| 70. | Congenital malformations, deformations and | Q00-Q99 | |
| | chromosomal abnormalities | | |
| 71. | Symptoms, signs and abnormal clinical and | R00-R99 | |
| | laboratory findings NEC | | |
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5. TABULATION LIST FOR MORBIDITY

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MODIFICATIONS TO DRAFT PROPOSALS OF CHAPTERS

Written submissions from several countries regarding minor technical and editorial nges to the draft chapters as presented to the Conference were accepted by the retariat for follow up. Technical matters related to specific inclusion and exclusion ms were raised during the Conference and clarification was provided by the retariat. Certain issues related to the addition of more 4th character subcategories the draft chapters and others of a more significant nature were also raised. Some of se issues were resolved during the course of the Conference with some others requiring ther consideration by the Secretariat.

With respect to Chapter I, in the still evolving area of human immunodeficiency virus V) diseases (B20-B24), the related abnormal laboratory findings (R75.0) and associated sons for contact with health services (Z21) a special working party met to discuss cerns regarding the draft categories and subcategories as proposed. Amendments to the les of these categories and subcategories were proposed by the Working Party and epted by the Conference. The Conference also accepted the inclusion of a note for the ck of codes B20-B24, to indicate that the 4th character subcategories are provided for ional use where it is not possible or not desired to double code or multiple code the ditions identified in these subcategories.

In Chapter IV, it was agreed that the notes for interpretation/application of egories E43 and E44 required modification for inclusion in ICD-10.

In Chapter V, it was agreed appropriate to include a note stating that sexual entation alone should not be considered in assigning codes from category F66.

In Chapter VI, it was agreed not to add 4th character subcategories at G35 but rather leave this for an application at the 5th character level.

In Chapter X, the need for the category J46 especially for mortality coding was firmed.

In Chapter XII, the movement of category L27 and consequent renumbering of L28-L30 accepted.

In Chapter XIII, a request to transfer "other overlap syndromes" to another category puired further follow up. -103-

In Chapter XIV, it was agreed that the chemical composition of calculi in N20 would be possible through an application at the 5th character level. A request for placement or identification of "renal vein occlusion" required further follow up. Follow up was also required regarding possible transfer of all, or part of R32 and R33 to Chapter XIV.

In Chapter XVI, it was agreed that a note should be added at the beginning of the chapter to clarify its intended use. It was confirmed that birth asphyxia codes should not be assigned with mention only of Apgar scores without mention of the asphyxia. A request for a 3-character category for "deadborn fetus" was accepted.

In Chapter XVII, it was agreed that a note should be added to explain the approach used in relation to the terms "malformation" and "deformation" in relation to the musculoskeletal categories (Q50-Q79).

In Chapter XVIII, it was agreed to rearrange and combine the first two blocks of signs and symptoms (R00-R09) into a single block.

In Chapter XIX, a request for reorganizing certain categories and subcategories in the block T51-T65 was referred for further study, especially related to the effect on mortality tabulation over time.

In Chapter XX, it was agreed that although it was of interest to identify accidents involving mopeds, there was no international agreement on the difference between mopeds and motorcycles.

In Chapter XXI, the Conference agreed to the inclusion of the glossary definitions as proposed in WHO/ICD10/REV.CONF/89.12. A slight modification in the note introducing the chapter was also accepted. A change in title for category Z03 was left for follow up. In order to provide space for the identification of immunization against Hepatitis B as well as future expansion, it was agreed to allocate Z24 and Z25 to immunization against viral diseases. The categories Z25 to Z27 in the draft would then be renumbered. Category Z28 would become a subcategory. A request for identification of hospital and non-hospital birth in relation to Z38 required further follow up since several categories would be needed if this could not be accommodated as a 5th character. Several requests for changes in titles that could affect the intended content were accepted by the Secretariat for follow up as was a request to move certain accentuated personality traits from F61 to this chapter.

This draft report has, for expediency, been prepared, numbered and titled in the same format as the agenda adopted for the Conference.

The Rapporteur and Secretariat wish the approval of the Conference to organize and renumber the final report and annexes in a format suitable for presentation to the World Health Assembly and for subsequent inclusion in the introductory section of ICD-10.

For this reason as well, an additional item (12), not yet actually approved as it has been set out, has been added for proposed adoption and inclusion in the final report.

For the most part, Annex VII has been restricted, based on the judgement of the Rapporteur, to matters related to Chapters, to blocks of categories and to categories. Issues related to inclusion terms, exclusion notes and subcategories that do not appear in the Annex have been noted for agreed upon action or further review by the Secretariat in the process of finalizing the chapters of ICD-10. (Annex VII will not form part of the report as published in ICD-10). All written comments and questions received by the Secretariat as well as those recorded during the Conference will be considered in this process.



WORLD HEALTH ORGANIZATION WHO/ICD10/REV.CONF/89.2

ORGANISATION MONDIALE DE LA SANTE

INTERNATIONAL CONFERENCE FOR THE TENTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES

Geneva, 26 September - 2 October 1989

CONFERENCE INTERNATIONALE POUR LA DIXIEME REVISION DE LA CLASSIFICATION INTERNATIONALE DES MALADIES

Genève, 26 septembre - 2 octobre 1989

Provisional List of Documents Liste provisoire des Documents

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| | | Liste provisoire des Documents |
|-------------------------|----------|---|
| WHO/ICD10/REV.CONF/89.1 | 9059h | Provisional agenda Ordre du jour provisoire |
| WHO/ICD10/REV.CONF/89.2 | | List of documents Liste des documents |
| WHO/ICD10/REV.CONF/89.3 | | Circulation of the final proposal for the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10) Dixième Révision de la Classification Statistique internationale des Maladies et des Problèmes de Santé connexes - distribution du texte du projet final |
| WHO/ICD10/REV.CONF/89.4 | • | The "Dagger and Asterisk" system for dual classification of certain diagnostic statements in ICD-10 Le système des dagues and des astérisques pour la double classification de certains diagnostics dans la CIM-10 |
| WHO/ICD10/REV.CONF/89.5 | | Medicosocial screening and multidimensional assessment of the elderly - need for linked classifications Dépistage médico-social et bilan fonctionnel multidimensionnel des personnes âgées - nécessité de coordonner les classifications |
| WHO/ICD10/REV.CONF/89.6 | 1000 | International Nomenclature of Diseases Nomenclature internationale des Maladies |
| WHO/ICD10/REV.CONF/89.7 | 1989A | From lay reporting to community-based health information De la notification d'informations sanitaires par un personnel non médical au système communautaire d'information sanitaire |
| WHO/ICD10/REV.CONF/89.8 | 1980 | Status and development of the International Classification of Impairments, Disabilities and Handicaps Classification internationale des handicaps : déficiences, incapacités et désavantages |

WHO/ICD10/REV.CONF/89.9 - Special tabulation lists for ICD-10

- Listes spéciales pour la mise en tableaux pour la CIM-10

WHO/ICD10/REV.CONF/89.10 - Morphology of neoplasms

- Morphologie des tumeurs

WHO/ICD10/REV.CONF/89.11 - Definitions, standards and reporting requirements related to

maternal and child health and the perinatal period

Definitions, normes et conditions de notification relatives

à la santé maternelle et infantile et a la période

périnatale

WHO/ICD10/REV.CONF/89.12 -Proposals for glossary definitions for some subcategories of Z60, Z61, Z62, Z63 in the chapter on Factors influencing

health status and contact with health services

Glossaire - definitions proposées pour certaines subdivisions des catégories Z60, Z61, Z62 et Z63 du chapitre

sur les facteurs influant sur l'état de santé

WHO/ICD10/REV.CONF/89.13 - Mortality - certification and rules for classification

Mortalité - certificat médical et règles de classement

WHO/ICD10/REV.CONF/89.14 -Morbidity - definitions and rules for classification

Morbidité - instructions pour l'enregistrement et le codage

WHO/ICD10/REV.CONF/89.15 The family of disease and health related classifications

La famille des classifications des maladies et autres

classifications sanitaires connexes

WHO/ICD10/REV.CONF/89.16 Recommended glossary definitions for ICD-10 categories E43 and E44 - unspecified severe protein-energy malnutrition, protein-energy malnutrition of moderate and mild degree - in

> the chapter on endocrine, nutritional and metabolic diseases Propositions de glossaire - définitions pour les catégories E43 et E34 de la CIM-10 malnutrition protéino-énergétique

grave non spécifée, malnutrition protéino-énergétique légère ou modérée - chapitre des maladies endocriniennes,

nutritionnelles et métaboliques

WHO/ICD10/REV.CONF/89.17 - From the first steps in lay reporting to the current concept

of community based information in the region of the Americas

Des premiers essais de notifications d'informations sanitaires par un personnel sanitaire aux concepts actuels

d'information communautaire dans la Région des Amériques

ICD10/DISCUSSION DOCUMENT -Report on the system for the auto-translation of the ICD-10

from English to Japanese by computer

DES/ICD10/REV.BACKG/89.1 -International Statistical Classification of Diseases and

Related Health Problems

| | Chapitre I : | Certaines maladies infectieuses et parasitaires |
|----------------------------|----------------------------------|---|
| WHO/ICD10/REV.PROP/89.2 - | Chapter II: Chapitre II : | Neoplasms Tumeurs |
| WHO/ICD10/REV.PROP/89.3 - | Chapter III: Chapitre III : | Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism Maladies du sang et des organes hématopoïétiques et troubles du système immunitaire |
| WHO/ICD10/REV.PROP/89.4 - | Chapter IV: Chapitre IV: | Endocrine, nutritional and metabolic diseases Maladies endocriniennes, nutritionnelles et |
| WHO/ICD10/REV.PROP/89.5 | Chapter V: Chapitre V : | métaboliques Mental and behavioural disorders (F) Troubles mentaux et du comportement |
| WHO/ICD10/REV.PROP/89.6 - | Chapter VI: Chapitre VI : | Diseases of the nervous system (G) Maladies du système nerveux |
| WHO/ICD10/REV.PROP/89.7 - | Chapter VII: Chapitre VII : | Diseases of the eye and adnexa Maladies de l'oeil et de ses annexes |
| WHO/ICD10/REV.PROP/89.8 - | Chapter VIII: Chapitre VIII : | Diseases of the ear and mastoid process Maladies de l'oreille et de l'apophyse mastoïde |
| WHO/ICD10/REV.PROP/89.9 - | Chapter IX: Chapitre IX: | Diseases of the circulatory system (I) Maladies de l'appareil circulatoire |
| WHO/ICD10/REV.PROP/89,10 - | Chapter X: Chapitre X: | Diseases of the respiratory system (J) Maladies de l'appareil respiratoire |
| WHO/ICD10/REV.PROP/89.11 - | Chapter XI: Chapitre XI: | Diseases of the digestive system (K) Maladies du tube digestif |
| WHO/ICD10/REV.PROP/89.12 - | Chapter XII: Chapitre XII: | Diseases of the skin and subcutaneous tissue Maladies de la peau et du tissu cellulaire sous-cutané |
| WHO/ICD10/REV.PROP/89.13 - | Chapter XIII: | Diseases of the musculoskeletal system and connective tissue (M) Maladies du système ostéo-articulaire des muscles et du tissu conjonctif |
| WHO/ICD10/REV.PROP/89.14 - | Chapter XIV: Chapitre XIV: | Diseases of the genitourinary system Maladies des organes génito-urinaires |

- Chapitre XV : Grossesse, accouchement et puerpéralité

WHO/ICD10/REV.PROP/89.16 - Chapter XVI: Certain conditions originating in the

perinatal period

Chapitre XVI: Certaines affections dont l'origine se

situe dans la période périnatale

WHO/ICD10/REV.PROP/89.17 - Chapter XVII: Congenital malformations, deformations, and

chromosomal abnormalities (Q)

Chapitre XVII: Malformations congénitales, déformations et

anomalies chromosomiques

WHO/ICD10/REV.PROP/89.18 - Chapter XVIII: Symptoms, signs and abnormal clinical and

laboratory findings not elsewhere

classified

- Chapitre XVIII : Symptômes, signes et résultats anormaux

d'examens cliniques et de laboratoire non

classés ailleurs

WHO/ICD10/REV.PROP/89.19 - Chapter XIX: Injury, poisoning and certain other

consequences of external causes (S,T)

- Chapitre XIX : Lésions traumatiques, empoisonnements et

certaines autres conséquences de causes

externes

WHO/ICD10/REV.PROP/89.20 - Chapter XX: External causes of morbidity and mortality

Chapitre XX: Causes externes de morbidité et de

mortalité

WHO/ICD10/REV.PROP/89.21 - Chapter XXI: Factors influencing health status and

contact with health services

- Chapitre XXI : Facteurs influent sur l'état de santé et

motifs de recours aux services de santé

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WHO/ICD10/REV.CONF/89.3

ORIGINAL: ENGLISH

INTERNATIONAL CONFERENCE FOR THE TENTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES

Geneva, 26 September - 2 October 1989

CIRCULATION OF THE FINAL PROPOSAL FOR THE TENTH REVISION OF
THE INTERNATIONAL STATISTICAL CLASSIFICATION OF DISEASES AND RELATED
HEALTH PROBLEMS (ICD-10)

The International Classification of Diseases (ICD) has been for many decades, under various names, the essential tool for national and international comparability in public health.

Originally intended to be used primarily for the classification of causes of death, its scope has been progressively widening to include coding and tabulation of causes of morbidity as well as medical record indexing and retrieval. This statistical tool has been customarily revised every 10 years in order to keep up with the advances of medicine.

The World Health Organization has been responsible for the organization, coordination and execution of activities related to the ICD since its creation in 1948 (Sixth Revision of the ICD). In the build-up to the Tenth Revision a number of meetings have been held under the auspices of WHO that evaluated the experience of countries in the use of ICD-9, discussed new requirements and considered the direction the classification should take in the future. The Preparatory meeting on ICD-10 convened by WHO in 1983 and the first Expert Committee on ICD-10 in 1984 recommended that the well-established pattern of the ICD should be retained in order to preserve its function as a basic tool for statistical tabulations and comparisons of the incidence of diseases in countries at the same point in time and changes in incidence within and between countries over long periods. It was further recommended that ICD-10 should be based on an alphanumeric coding scheme and developed in a way that it could act as the core of a future family of classifications.

Twice in the revision process leading up to ICD-10, WHO has carried out a wide-ranging and in-depth process of consultation, at significant cost and has sought the views of WHO Member States, WHO Collaborating Centres for Classification of Diseases, nongovernmental organizations (NGOs) in official relations with WHO, and other interested groups and individuals.

In August 1984 a first draft proposal for ICD-10 containing three-character category titles was circulated to obtain views on the proposed alphanumeric structure, the relative number of categories provided for each chapter and the amount of space left for future expansion and revision within chapters.

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The vast majority of replies supported the alphanumeric approach and were in agreement with the general direction that the Tenth Revision was taking. While it was known that the alphanumeric scheme of the future ICD would cause some difficulties and increased costs, particularly in computer processing, the advantages of the expanded coding frame were considered to outweight the disadvantages.

A second draft proposal for ICD-10 containing both three- and four-character category titles was distributed in July 1986 to solicit comments on the content of chapters. This second draft incorporated comments on the first draft proposal; recommendations of the annual meetings of WHO Collaborating Centres for Classification of Diseases; input from WHO divisions and units; and contributions from temporary advisers and other sources.

Following the circulation of the second draft proposal, a large number of comments and recommendations for amendment were submitted to WHO. All were carefully studied with the assistance of specialist consultants and the eight WHO Collaborating Centres for Classification of Diseases located in institutions in Beijing (for Chinese language users), London and Washington, DC (for English) Paris (for French), Sao Paulo (for Portuguese), Moscow (for Russian), Uppsala (for the Nordic countries) and Caracas (for Spanish).

Wherever possible, the suggestions received were incorporated into a revision proposal which was presented to the Expert Committee on ICD-10 held in Geneva in November 1987 and further discussed and amended in the meetings of Heads of WHO Collaborating Centres for Classification of Diseases in 1988 and 1989. The final revision proposal that is accompanying this document will be presented to the International Conference for the Tenth Revision of ICD, to be held in Geneva from 26 September to 2 October 1989. The proposal has been structured so that data requested by WHO for international comparisons can be based exclusively on the three-character categories.

The dagger(+) and asterisk(*) system of dual classification that was introduced at the Ninth Revision has been refined and extended. The asterisk classification is contained in homogeneous categories at the three-character level for ease of use and interpretation.

The proposal for the Tenth Revision contains 21 chapters (see Annex), uses all letters of the Roman alphabet except U and includes the two former supplementary classifications of External causes of injury and poisoning and Factors influencing health status and contact with health services as a part of the main classification. The letter U has been left unused as it falls between the chapters on injuries and external causes where it is felt that expansion might be required in future revisions.

New chapters have been created for Diseases of the eye and adnexa and Diseases of the ear and mastoid process which were included in the chapter on Diseases of the nervous system and sense organs in ICD-9.

Disorders involving the immune mechanism which were formerly classified in the same chapter as endocrine, nutritional and metabolic diseases have been significantly extended and transferred to the chapter on Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism.

In order to maximize the use of the available space within the coding frame the chapter on Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism follows the Neoplasms chapter with which it shares the letter D.

The chapters of Diseases of the genitourinary system; Pregnancy, childbirth and the puerperium; Certain conditions originating in the perinatal period; and Congenital malformations, deformations, and chromosomal abnormalities are brought together as contiguous chapters. The titles of some chapters, including the chapter on Mental and behavioural disorders, have been amended in order to better reflect their content.

Particularly the chapters on Injury, poisoning and certain other consequences of external causes; External causes of morbidity and mortality; Factors influencing health status and contact with health services; and Mental and behavioural disorders have been completely restructured in order to meet the needs of users of those data.

The newly recommended classification for Human immunodeficiency virus [HIV] disease which was elaborated at a consultation convened by WHO in November 1988 is contained in categories B20-B24 of the chapter on Certain infectious and parasitic diseases.

As ICD-10 will cover more than just categories of diseases the title of the future ICD will be the International Statistical Classification of Diseases and Related Health Problems, but the convenient abbreviation "ICD" will be retained.

Given the exhaustive consultation and scrutiny which these proposals have undergone (with the exception of HIV-classification), it is hoped that the International Conference will accept this without further amendment except for the corrections of errors and omissions; any substantial amendment would inevitably result in a delay in the introduction of the Tenth Revision which is scheduled for 1993.

Accompanying this document are the final proposals for the Tenth Revision for all chapters except Chapter V (Mental and behavioural disorders), Chapter XIX (Injury, poisoning and certain other consequences of external causes) and Chapter XX (External causes of morbidity and mortality). These will be circulated at a later date.

It is the intention of WHO to publish the ICD-10 not only as a four-character version with Alphabetical Index but also to provide a separate volume including the classification at the three-character level with inclusion and exclusion terms, definitions and rules and an alphabetical index. This version will be presented to the International Conference in Geneva.

The International Conference will be held in the Executive Board Building of the World Health Organization in Geneva and will commence at 10.00 hrs on Tuesday, 26 September 1989. To ensure that they will be given the floor when appropriate and to enable the Chairman to allocate the limited available time, delegates are asked on arrival to give the Secretariat a brief indication of any agenda items on which they might wish to intervene.

Outline of ICD-10 draft proposals

| <u>Chapters</u> | | Range of codes |
|-----------------|---|----------------|
| I | Certain infectious and parasitic diseases | A00-B99 |
| II | Neoplasms | C00-D48 |
| III | Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism | D50-D89 |
| IV | Endocrine, nutritional and metabolic diseases | E00-E90 |
| v | Mental and behavioural disorders | F00-F99 |
| VI | Diseases of the nervous system | G00-G99 |
| VII | Diseases of the eye and adnexa | н00-н59 |
| VIII | Diseases of the ear and mastoid process | н60-н95 |
| ΪX | Diseases of the circulatory system | 100-199 |
| X | Diseases of the respiratory system | J00-J99 |
| ХI | Diseases of the digestive system | к00-к93 |
| XII | Diseases of the skin and subcutaneous tissue | L00-L99 |
| XIII | Diseases of the musculoskeletal system and connective tissue | M00-M99 |
| XIV | Diseases of the genitourinary system | NOO-N99 |
| ΧV | Pregnancy, childbirth and the puerperium | 000-099 |
| XVI | Certain conditions originating in the perinatal period | P00-P95 |
| IIVX | Congenital malformations, deformations, and chromosomal abnormalities | Q00+Q99 |
| IIIVX | Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified | R00-R99 |
| XIX | Injury, poisoning and certain other consequences of external causes | S00-T98 |
| XX | External causes of morbidity and mortality | V00-Y98 |
| XXI | Factors influencing health status and contact with health services | Z00-Z98 |

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WHO/ICD10/REV.CONF/89.4

ORIGINAL: ENGLISH

INTERNATIONAL CONFERENCE FOR THE TENTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES

Geneva, 26 September - 2 October 1989

THE "DAGGER AND ASTERISK" SYSTEM FOR DUAL CLASSIFICATION OF CERTAIN DIAGNOSTIC STATEMENTS IN ICD-10

by

Unit of Development of Epidemiological and Health Statistical Services

Historical background

The Ninth Revision of the International Statistical Classification of Diseases (ICD-9) contained as an innovation a special provision for the classification of diagnostic statements in which there is a dual element of information concerning both a generalized underlying disease and a manifestation or complication in a particular organ or site. The structure of ICD has traditionally resulted in such diagnostic statements being classified in the chapter appropriate to the underlying disease, usually in one of its chapters for special groups of diseases such as those for infectious and parasitic diseases or endocrine, metabolic and nutritional diseases, which have precedence in assignment over the chapters related to body systems.

During the preparations for the Ninth Revision, specialists and those concerned with information needs for health-care management expressed their interest in a change of the primary assignment of dual-element conditions. It was felt that in those conditions (e.g. diabetic cataract) the manifestation or complication in the organ or site reflected in a better way the reason why the patient was receiving treatment at that particular time than the underlying disease did. However, such a change was not acceptable for the traditional use of the ICD in epidemiology where the prime emphasis has to be the underlying disease. Accordingly, provision was made for two codes for dual-element conditions, one in the chapter related to the underlying disease, marked with a dagger (+) and one in the chapter relating to the condition in the organ or site, marked with an asterisk (*). The system provided flexibility and enabled retrieval or tabulation of such cases according to the conditions being treated without disturbing the traditional way of presenting such conditions in tabulations with an epidemiological-type purpose.

The dagger and asterisk system in ICD-10

After lengthy discussion of the pros and cons of the system at ICD-9 evaluation meetings, it was considered that the advantages justified its being continued in the Tenth Revision of ICD. In spite of its usefulness there were some criticisms on the grounds of incompleteness and inconsistency and some difficulties in processing caused by the fact that the dagger and asterisk symbols were applied to the same codes as those used for conditions to which the system did not apply.

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In preparing the proposals for ICD-10 an attempt has been made to implement the system more fully and to meet these criticisms.

Separate asterisk categories are recommended for appropriate conditions when they occur "... in diseases classified elsewhere", indicating that the traditional placing of the ICD code would have been in another chapter. Some of these asterisk categories and their subcategories are specific to a particular underlying cause and manifestation combination, others have more general titles and include a number of different cause and manifestation combinations. An attempt has been made to list items classifiable to these categories as completely as possible but consistently with normal ICD rules of presentation i.e. inclusion terms relate to conditions which occur commonly and others will be shown in the alphabetical index.

It was not found feasible to provide separate dagger categories for the underlying cause of conditions for which asterisk categories were provided elsewhere in the classification. This would have resulted in two categories for each of very many conditions, occupying a lot of space in the structure of the classification and producing a very confused-looking classification for the presentation of statistics for the underlying causes.

Asterisk categories have been interspersed throughout the classification, where appropriate, usually at the end of the range of non-asterisk categories for the same conditions. Thus, in Chapter VIII (Diseases of the eye), which is commonly affected in a wide range of underlying diseases, there is an asterisk category at the end of each block of categories, i.e. H03*, "Disorders of eyelid in diseases classified elsewhere", H06*, "Disorders of lacrimal system and orbit in diseases classified elsewhere", and so on. On the other hand, in Chapter IX, (Diseases of the circulatory system) many of the categories relate to conditions which only infrequently, if ever, occur as a consequence of another disease, so asterisk categories will be found only for the specific conditions such as pericarditis (I32*), endocarditis and other heart valve disorders (I39*) and myocarditis (I41*), which do occur in this way; there are some more general categories such as I52*, "Other heart diseases in diseases classified elsewhere", to take care of the more infrequent instances where an asterisk code is needed.

The principles which have been adopted in applying the system in the recommendations for ICD-10 are in general the same as those enunciated for ICD-9 though they can now be stated more simply. The system is to be applied to conditions which are not recognized constituents of a disease entity as it first presents but which arise later as manifestations in, extension to, or complications in another part of the body, producing a condition which, as a medical-care problem in its own right, would be classifiable elsewhere in ICD. However, it is not applied to diagnostic statements referring to disease descriptions such as "Viral meningitis", "Trachoma" etc., which refer to diseases which although relating to a particular organ, are of themselves classifiable to the chapter of Infectious and parasitic diseases. Where the same organism produces a variety of disease pictures, as meningococci, enteroviruses or adenoviruses, the asterisk coding is used for all the different conditions produced. In the case of a disease such as Tuberculosis (A15-A19), which is primarily a respiratory disease but may also affect other organs, the dagger and asterisk system is not applied to respiratory conditions, but the system does apply when other organs are affected. Similarly intestinal infectious diseases (A00-A09) do not have the system applied to digestive system conditions but do to complications such as Typhoid endocarditis (A01.0+, I39.-*).

Where infections with a predominantly sexual mode of transmission are concerned (A50-A64), dagger and asterisk coding is not provided for the sites of the initial lesions, but it is for later stages of the disease, even in the upper part of the genito-urinary tract, since these represent serious medical-care problems which are not part of the picture of the initial disease. The principles need to be clearly understood by those using the classification. It was never intended that the coding of "manifestations" should lead to systematic separate coding of all facets of diseases and misconceptions on this score may have led to some of the complaints of incompleteness in ICD-9.

It is proposed that, as was the case with ICD-9, the dagger code for the dual-element conditions should always be used, and the asterisk code should be added if required by the rules of the respective coding or data-collection scheme. It is recommended that asterisk codes should not be used alone; the dagger code in combination with the asterisk code provides additional specificity for which there would be insufficient space in the classification to try to incorporate this information in the asterisk categories themselves.

In the presentation of the dagger and asterisk system proposed for ICD-10, there is a fairly comprehensive, but not exhaustive, listing in the asterisk categories of the conditions which would be classified there, showing the appropriate dagger codes. The same is true when categories for underlying causes of dual-element conditions to which the dagger and asterisk system applies contain any subclassification by, or reference to, the organ or site involved. The dagger sign is attached to appropriate codes, the conditions listed in the relevant asterisk categories are repeated, and the relevant asterisk codes are given (see A17+ Tuberculosis of nervous system). Where there is no reference to organs or sites affected, however, the asterisk sign does not appear and possibly relevant asterisk codes are not listed, even though the category's code may be used as a dagger code in the system and will be shown in relevant asterisk categories. The style of presentation is otherwise the same as described on pages XXVIII-XXIX of the Introduction to ICD-9 (Volume 1).

When an underlying disease to which the system applies affects a particular organ or site, the resultant condition may sometimes be described in a variety of ways, and where there is a choice of several asterisk categories, the most appropriate one should be used, whether or not the condition is specifically listed. Thus it will be seen in category A18.5+ that a number of different eye conditions can occur in tuberculosis, and the most usual specific ones are shown. Any specific conditions not listed may be coded to the correct asterisk category and a general description Tuberculous oculopathy should have the asterisk code H58.8*. The alphabetical index will usually indicate the codes for dual-element diagnostic terms which, though not listed as inclusion terms, do occur. However, it is not possible for the index to be exhaustive and coders will have to be trained how to arrive at appropriate codes, and how to determine whether or not the term is one to which the dagger and asterisk system should be applied.

system in the proposals for ICD-10, many difficulties arise in attempting to be comprehensive and consistent. Some of the specialists who were asked for advice were more inclined than others to recommend asterisk categories.

The system as recommended is the best that can be offered at the present time and should be a workable one; the new special asterisk categories are seen as an improvement. Nevertheless, it has to be recognized that it is limited. On the other hand it has also to be realized that if in future revisions an attempt were to be made greatly to extend the system, it would be difficult if not impossible to provide sufficient space in the structure of the classification for all the special asterisk categories that would be needed and the whole classification would become too complicated. The solution would then most likely be to recommend double coding of dual-aspect diagnoses probably as part of a more general multiple-condition coding scheme.

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ORIGINAL: ENGLISH

INTERNATIONAL CONFERENCE FOR THE TENTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES

Geneva, 26 September - 2 October 1989

MEDICOSOCIAL SCREENING AND MULTIDIMENSIONAL ASSESSMENT OF THE ELDERLY - NEED FOR LINKED CLASSIFICATIONS

Comparate programme abytem in an electronic whole programme

Dr Hana Hermanova, Regional Officer for Elderly, Disability and Rehabilitation, WHO Regional Office for Europe

1. Introduction

Demographic changes predicted by the United Nations suggest that the numbers of elderly persons will increase considerably by the end of this century. For details, please look at tables attached in Annex 1.

Disability and dependence increase dramatically in old age. One simple measure of this is the proportion of those who are housebound or bed-ridden - the figure rising from less than 5% of those aged under 75 to nearly 20% of those aged 85 and over.

The family is, of course, the primary support of its less able and elderly members. Those of us who work for the care of the elderly tend to have a biased impression of the degree of family support, because we often see those for whom support is inadequate - either through rejection by their families or because support has been removed by emigration of the children or death of the spouse.

If a family cannot cope or if there is no family, the health and social services step in to maintain an elderly or disabled person in some degree of dignity and comfort. The provision of such services has become a growth area in the past two decades.

In some areas the lack of support is striking, in others it is the multiplicity of support agencies which is striking. To the person in need, regardless of age, a multiplication of assistants is confusing and can be alarming. The coordination of these agencies is often ineffective and expensive. A common tool, providing relevant information, is missing.

2. Medicosocial screening and multidimensional functional assessment

General remarks

A large part of improvement in elderly persons associated with qualified intervention is the result of the interest, support and stimulation provided by different categories of personnel when they work from a detailed assessment.

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Les opinions exprimées dans les documents par des auteurs cités nommément n'engagent que lesdits auteurs.

A detailed assessment is a time-consuming procedure and cannot be done - with regard to resource limitations - routinely in all elderly persons in need of medical and/or social attention $\frac{1}{2}$

Medicosocial screening

As mentioned already, a detailed assessment is a time-consuming procedure and cannot be done routinely. Therefore, an "introductory" step, i.e. screening for risk situations or risk factors indicating dysbalance within the system man-environment, is useful.

A WHO Expert Committee (Planning and organization of geriatric services, WHO TRS 548, 1974) identified the following risk groups among the elderly:

- 1. 80+ or 90+ (very old)
- One Person Household
 Comment: very common situation in old age. High risk only in disabled, isolated, bereaved, very old.
- Aged Women (single)
 Comment: very common situation in old age. High risk mainly in disabled, isolated, bereaved, very old.
- 4. Institutionalized
- 5. Isolated
- 6. Childless Comment: not considered to be a particular risk in industrialized countries.
- 7. Disabled
- 8. Old Couples
- 9. Low Economic Status
- 10. Recently Bereaved, Rehoused (point 10 was suggested by Professor J. Williamson, Edinburgh, 1979)

This information might be easily collected, for example using questionnaires, one-side punch cards (see example given on page 3), etc.

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Health

Assessment of state of health from the functional point of view finds its place regularly in the functional assessments of the last decades, particularly in the area of mental, locomotor, sensory/communication functioning, with additional information on balance, control of sphincters, shortness of breath, pain, etc.

ADL

Performance in activities of daily living and their testing is the most widespread method in any functional assessment. The variations among different ADL schemes are enormous. Real developments in the ADL offering all-round practicality and utility, based on proper-scoring, validating and "norming", are missing.

Social and physical environment

The social environment is characterized by the relations with and among people. The physical environment is fixed in time and space. Both these environments are closely connected. The obvious evidence of the interaction between social and physical environments has been based more on observations than evidenced by research.

3. Need for reporting and recording findings

The numerous multidimensional functional assessment tools based on many ADL schemes provide a fragmented picture, offering "bits and pieces" instead of a comprehensive data base. Therefore, data on incidence/prevalence of consequences of diseases are not comparable; the outcome of health/social intervention is not measurable; and simple basic statistics enabling better planning for disability prevention at primary, secondary and tertiary level of control are not possible. This was perceived very clearly at the beginning of the International Year of the Disabled Persons (1981).

The International Classification of Diseases is an important tool in classifying diseases, injuries and causes of death. The introduction of the V-Code in the ninth revision (particularly items V60-V65, coding conditions other than health/medical, leading to contact of persons with health/social facilities) is an important contributing tool in providing supplementary relevant information on social and economic circumstances of the elderly. The V-Code has been used by individual investigators in limited areas only (photocopies of relevant pages of the V-code are attached in Annex 2).

Wood's concept of developing a pathology into handicap (through impairment and disability), based on analysis of multidimensional assessment tools available by the late 1970's, epidemiological studies, and health statistics, as described in the International Classification of Impairments, Disabilities and Handicaps, Geneva, 1980, offers an option for classification and recording. However, before adopting or adapting the ICIDH, serious attempts have to be made to simplify it and to convert it into a tool which can be generally accepted and used as an assessment for the elderly. A network of institutions (in the Netherlands, in France, in Canada) are currently studying the ICIDH for this purpose.

handicaps, the structure of which was based on ICIDH, in Spanish translation (Ref.). The report on this survey includes a chapter on rehabilitation. It specifically discusses the age group 65 and over, and the differences observed according to various localities, as an indirect indicator of equity in health.

The Classification of Impairments, Disabilities and Handicaps, has also recently successfully been implemented in the United Kingdom in the survey of disability (OPCS surveys of disability in Great Britain, Report 1, The prevalence of disability among adults).

This latter survey distinguished 13 types of disability based on the International Classification of Impairments, Disabilities and Handicaps. In addition, there is some information about complaints which gave rise to the disabilities. These last were, as far as possible, assigned to categories based on the International Classification of Diseases (i.e. an example of using the "family" of classifications).

A system of measuring severity was used to classify people with different numbers and types of disability. Severity in each of the 13 different categories was first established, then the 3 highest scores combined to give an overall score from which people were allocated; category 1 being least severe, category 10 being most severe. The judgements were made in terms of the likely effect of a disability on someone's daily life and therefore, partially at any rate, in relation to handicap. It could not be a full handicap measure however, for the circumstances of an individual were not known, for example, their age or sex. The severity measures are therefore not related to handicap as defined in the IGIDH.

Some questions were asked about dependence on others for help with the self care activity, that who provided care, but these do not belong to the assessment of disability section. This was an important omission from the study.

Elderly people

Almost 70% of disabled adults living at home were over 60 and half of them were aged 70 and over. In communal establishment the proportion of elderly disabled people was very high indeed. The most severely disabled adults, those in categories 9 and 10 largely consisted of very elderly people, particularly those of 80 years of age, thus 41% of people in categories 9 and 10 were over 80.

The survey found that there were particularly high rates of disability among elderly women compared with men in the over 75 age group. It is not clear however whether the survey methods allowed for the fact that women over 75 are usually considered biologically older than men aged over 75.

Conclusions

The health, social, economic and environmental conditions of the elderly are closely interwoven; all this information has to be taken into account in assessing an elderly individual, in planning for the elderly in "small areas" (districts) or in planning for the elderly on a national scale.

The International Classification of Diseases cannot provide the necessary information. The V-code (transformed into the "Z" code in the Xth revision of the ICD) is an essential tool in coding information on situations on "persons encountering health services in other circumstances". The International Classification of Impairments, Disabilities and Handicaps is a very useful tool in the assessment of disability and measurement of prevalence of disability by severity and type of disability.

into routine reporting systems on the elderly by respective national statistical authorities.

In order to highlight the need for information on the elderly, obtained through a "family of classifications", the most frequent situations in lives of the elderly, with identification of classifications to be used, are shown below:

| Old Person | Philosophy (Principles) | Methods of Work | Problems |
|--|--|--|--|
| ###################################### | | . 1 | |
| Healthy" - ndependent - home | Maintain Independence | Health promotion and maintenance | Separation of |
| | | Social + Econ counselling | - medical - social issues |
| · | 4 | - integration into community | Lack of |
| | | - voluntary | professional |
| | | assistance | knowledge |
| | en de la companya de La companya de la co | | Economic constraints |
| | Classific | cations to be implemen | nted |
| | | Z-code | Z-code |
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| cutely ill - | Comprehensive | Health | Medical: |
| ome | Treatment | PHC + Spec. + | Clinical knowledge |
| | | nursing | missing |
| | | Social support | Social: |
| | • | | Family unable or |
| | | | unwilling to care |
| | Classific | cations to be implemen | nted |
| CD | | ICD | ICIDH |
| | | Z code | Z-code |
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| ommunity | Home + institutional | "Chronic Medicine" Social support | only partly known |
| | support | Family | Self help |
| | | Services | Self care |
| | Support of | Environment | |
| | Self care | Identify high | Quality of life |
| | | risks (interior | underestimated |
| | | and exterior of | The second section of the second section secti |
| | | household) | |
| | Classific | cations to be impleme | nted |
| CCD & ICIDH | ICIDH | ICIDH/Z-code | Z-code |
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| Old Person | Philosophy (Principles) | Methods of Work | Problems |
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| Acutely ill - | Recovery and | Medical | After-care not |
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| | approaches in | *************************************** | Danger of |
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| | | | geriatrics |
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| | segregation) | | Development of |
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| | | | |
| Chronic in long- | Stimulate | Counselling | Training in team- |
| term care, including | activity/ | Rehabilitation | work missing |
| maintenance of ADL | social inter- | An No. No. At An No. No. Anno Anno Anno Anno Anno No. No. No. No. No. No. No. No. No. No | ************************************** |
| marincenance or ADL | action | | Custodial work |
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| | | Volunteer | |
| | | | Assessment schemes |
| | | involvement | only partly known |
| | | e halling how as far to be the co | |
| | | Keep social | Quality of life |
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| | | | |
| "Frail" in | Independent | Physical/mental | "Totality" of Inst. |
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TABLE 30. ESTIMATED AND PROJECTED POPULATION ASED 68 AND OVER, BY SEX AND ASE GROUP, EUROPE, NORTHERN AMERICA, AND THE USSR, 1960, 1988, 2000, 2026, 2025 (IN THOUSANDS).

| Consider A Maria Contract | 1960 | | 1989 | 100 | 2000 | e de la | 2220 | | 2025 | 1.1 |
|--|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| REGION OR COUNTRY: | MALE | FEMALE | MALE | FEMALE | MALE | FEMALE | MALE | FEMLE | MALE | FEMLE |
| EUROPE | 40.000 | | 40 pe à | 2.2 | 20 255 | | 70.000 | | 21 227 | |
| 60-69 70-79 80• | 15,333 7,976 2,294 | 20,160 11,794 3,791 | 17,724 12,447 3,293 | 22,628 18,537 7,855 | 23,959 14,628 4,678 | 27,308 21,855 9,279 | 29,909 17,752 6,863 | 33,324 24,119 12,749 | 31,007 19,351 7,067 | 34,201 26,599 13,035 |
| EASTERN EUROPE | 3.202 | 4.322 | 3,519 | 4.702 | 5.344 | 4.242 | 7.277 | 8.214 | 4.7A3 | 2,590 |
| 70-79 80• | 3,202 1,508 384 | 4,322 2,279 626 | 2,666 | 4,702 3,918 1,251 | 5,344 3,138 746 | 6,242 4,803 1,728 | 7,277 3,763 1,334 | 8,214 5,241 2,733 | 6,763 4,574 1,344 | 7,590 6,290 2,761 |
| Bulgaria 60-67 | 243 | 277 | 358 | 386 | 483 | 540 | 534 | 587 | 520 | 561 |
| 70-7 9 80+ | 133 | 1 <i>69</i> 45 | 242 56 | 294 85 | 332 81 | 429 141 | 335 126 | 443 236 | 364 125 | 481 339 |
| Czechoslovakia 60-69 | 493 | 640 | 539 | 659 | 418 | 754 | 944 | 1,089 | 895 | 1,011 |
| 70-79 80+ German Democratic Republic | 215 62 | 329 96 | 400 84 | 578 185 | 417 101 | 662 205 | 552 143 | 807 309 | 629 163 | 911 346 |
| 60-69 70-79 | 809 456 | 1,201 686 | 505 526 | 892 895 | 922 481 | 1,035 734 | 1,052 525 | 1,156 731 | 1,105 | 1,216 804 |
| Nunnary | 128 | 176 | 143 | 325 | 114 | 346 | 216 | 458 | 224 | 471 |
| 70-79 | 375 180 | 475 255 | 413 291 | 521 413 | 478 313 | රමයි 201 | 647 360 | 755 545 | 548 419 | 635 618 |
| 90+ Poland | 45 | 65 | 70 | 137 | 78 | 183 | 111 | 270 | 121 | 286 |
| 29-29 79-79 | 742 285 75 | 1,032 493 | 1,028 | 1,370 1,090 334 | 1,658 975 231 | 1,540 | 2,682 1,242 421 | 3,059 | 2,436 1,652 410 | 2,767 2,307 |
| 80† Roman i a 60~67 | | 141 | 146 | | | | | AñA | | 884 |
| 70-7 9 84+ | 548 239 46 | 697 347 83 | 676 490 106 | 875 637 183 | 1,184 700 169 | 1,339 937 296 | 1,418 749 317 | 1,566 969 551 | 1,269 907 301 | 1,401 1,165 536 |
| NORTHERN EUROPE 49 | 9 850 | 9 009 | 9.993 | A 414 | 6 486 | 4 4/4 | 4 4/8 | | - 420 | - 40= |
| 70-79 80+ | 3,059 1,639 504 | 3,892 2,452 886 | 3,774 2,288 438 | 4,414 3,442 1,484 | 3,602 2,407 1,047 | 4,069 3,571 1,769 | 4,668 3,012 1,134 | 5,211 4,251 1,943 | 5,073 3,106 1,220 | 5,627 4,412 2,086 |
| Denmark | 190 | 214 | | | | | | | 317 | - |
| 60-69 70-79 80+ | 106 34 | 125 | 238 149 50 | 267 202 85 | 232 155 67 | 258 215 127 | 306 223 72 | 336 292 136 | 223 84 | 349 292 153 |
| Finland 60-69 | | 176 | 170 | 247 | 213 | 255 | 316 | 345 | 308 | 357 |
| 70-7 9 80+ | 126 55 13 | 96 28 | 102 | 183 | 130 38 | 217 102 | 207 55 | 295 125 | 222 63 | 323 137 |
| Iceland 68-69 | 6 | . 6 | 7 | 8 | 9 | 10 | 17 | 18 | 19 | 20 14 |
| 70-79 80+ Ireland | 3 1 | 3 | 5 2 | 5 3 | 7 | 8 | 10 | 12 | 12 | 14 |
| 60-69 70-79 | 115 | 120 83 | 135 82 | 142 98 | 126 80 | 138 109 54 | 197 | 214 144 | 223 | 244 |
| 80+ Norway | 75 24 | 31 | 25 | 40 | 30 | 54 | 107 31 | , 43 | 122 35 | 162 69 |
| 60-69 70-79 | 154 81 | 172 103 | 201 120 | 224 164 | 167 | 183 179 | 263 173 | 284 217 | 270 186 | 270 238 |
| 80+ Sweden | 30 | 39 | 42 | 70 | 134 | 108 | 56 | 102 | 63 | īii |
| 60-69 70-79 | 343 174 | 378 233 | 441 284 | 476 365 | 380 284 | 414 379 232 | 473 374 | 497 477 | 471 358 | 516 463 |
| 80+ United Kingdom of Great Britain | 63 | 80 | 91 | 153 | 125 | 232 | 122 | 228 | 142 | 254 |
| 60-69 and Northern Ireland | 2,118 | 2,816 1,802 | 2,571 | 3,037 | 2,463 | 2,778 | 3,080 | 3,478 | 3,428 | 3,830 |
| 80+ | 2,118 1,120 338 | 665 | 492 | 3,037 2,415 1,067 | 2,463 1,618 721 | 2,798 2,453 1,138 | 3,080 1,907 790 | 3,478 2,799 1,278 | 3,428 1,973 824 | 3,830 2,907 1,348 |
| SOUTHERN EUROPE (30 60 - 69 | 3.711 | 4. >n: | 5.014 | A. 117 | A. Onn | | 8 444 | | | 18 654 |
| 70-79 80+ | 3,711 1,970 555 | 4,781 2,775 863 | 5,014 3,345 874 | 6,112 4,560 1,613 | 4,307 1,498 | 8,181 6,218 2,510 | 8,444 4,877 2,191 | 2,422 6,754 3,767 | 7,101 5,471 2,173 | 19,020 7,429 3,758 |
| Albania 68-69 | 38 | 23 24 7 | 55 27 8 | 59 | 104 | 114 | 202 95 31 | 215 113 | 245 113 | 258 138 54 |
| 70-79 | 22 | | | | | | 444 | | | £1769 |

| TABLE 30. CONTINUED. | 1969 | | 1980 | | 2000 | | 2020 | | 2025 | |
|------------------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| region or Country | MALE | FEMLE | MALE | FEMALE | MALE | FEMLE | MALE | FEMALE | HALE | FEMALE |
| Greece 60-69 | 251 | 307 | 402 | 470 | 315 | 616 | 587 | 612 | 614 | 650 |
| 70-79 80+ | 251 142 48 | 194 63 | 278 82 | 342 127 | 515 342 137 | 450 206 | 339 182 | 452 296 | 389 171 | 482 282 |
| Italy 68-69 | 1.717 | 2.197 | | | 2.883 | | 3.184 | - | 3,469 | |
| 70-79 80+ | 966 275 | 1,314 | 2,285 1,569 417 | 2,698 2,124 791 | 1,840 790 | 3,414 2,783 1,171 | 2,032 1,068 | 3,571 2,864 1,648 | 2,143 1,059 | 3,957 2,976 1,635 |
| Malta 68-69 | 10 | 12 | 11 | 14 | 14 | 20 | 27 | 33 | 27 17 | 30 |
| 70-79 80+ | 5 | 1 | 9 | 10 | 8 | 13 | 13 | 23 | 17 | 26 8 |
| Portugal 60-69 | 255 | 340 | 344 | 434 | 385 | 541 | 607 | 701 | 675 | 754 |
| 70-79 80+ | 133 35 | 202 72 | 197 | 309 93 | 248 67 | 401 140 | 287 91 | 467 218 | 357 92 | 529 227 |
| Spain 60-69 20-79 | 978 | 1,213 | 1,334 | 1,669 | 1,790 1,178 | 2,095 | 2,276 1,304 507 | 2,572 1,770 975 | 2,550 | 2,800 1,975 |
| 70-79 80+ | 495 125 | 699 226 | 820 231 | 1,151 423 | 352 | 1,637 692 | 507 | 975 | 1,450 511 | 982 |
| Yugoslavia 69-69 70-79 | 468 | 597 336 | 579 | 765 | 1,202 637 | 1,376 | 1,554 805 308 | 1,711 | 1,515 997 301 | 1,665 1,298 569 |
| 80+ | 227 65 | 105 | 443 93 | 765 590 162 | 136 | 947 274 | 308 | 574 | 361 | 569 |
| WESTERN EUROPE (4) 60-69 | 5.341 | 7.766 | 5,417 | 7.399 | R.113 | 8.814 | 9.519 | 10.481 | 10,070 | 10.963 |
| 78-79 80+ | 5,341 2,839 848 | 7,244 4,288 1,416 | 4,149 1,177 | 7,399 6,625 2,707 | 8,113 4,775 1,367 | 8,816 7,264 3,272 | 9,519 6,099 2,203 | 10,481 7,874 4,306 | 6,402 2,330 | 10,963 8,468 4,430 |
| Austria 60-69 | 308 | 433 | 262 | 394 | 344 | 394 | 433 | 488 | 488 | |
| 70-79 88+ | 155 44 | 250 78 | 221 60 | 366 141 | 215 | 364 167 | 273 93 | 382 195 | 273 104 | 548 979 212 |
| Beīgium c0−d? | 414 | 506 | 396 | 460 | 484 | 556 | 632 | 697 | 655 | 1.1 |
| 70-79 88+ | 222 65 | 300 194 | 285 81 | 413 165 | 318 | 467 195 | 632 358 123 | 263 | 455 405 124 | 724 553 261 |
| France 60-69 70-79 | 1,772 950 | 2,425 1,614 | 1,836 | 2,220 2,178 | 2,596 1,776 | 2,857 | 3,488 2,163 | | 3,526 2,452 | 3,902 |
| 80+ | 799 | 1,614 | 1,454 422 | 2,178 1,026 | 1,776 | 2,445 1,036 | 2,163 733 | 3,876 2,725 1,388 | 2,452 745 | 3,902 3,201 1,379 |
| 60-69 | | 3,150 1,704 | 2,117 | 3,313 2,905 | 3,634 1,813 | 3,822 | 3,548 2,320 | | 3,712 | |
| 70-79 80+ | 2,239 1,168 336 | 1,704 | 1,48B 446 | 1,048 | 500 | 3,822 3,009 1,396 | 934 | 3,947 3,059 1,850 | 3,912 2,247 997 | 4,2% 3,053 1,926 |
| Lexembourg 60-69 | 14 | 16 | 15 10 | 18 | 21 11 | 22 15 | 22 15 | 25 | 23 15 5 | 25 20 |
| 70-79 88+ Ne shoot and a | ź | 3 | 3 | 15 5 | 3 | 17 | 15 | 19 | *5 | îŏ |
| Ne ther I ands 60-69 70-79 | 407 229 | 455 260 | 530 31 <i>9</i> | 625 465 | 695 435 | 734 586 | 1,010 674 | 1,073 | 1,859 | 1,144 |
| 88* Switzerland | 72 | 88 | iii | 186 | 149 | 282 | 209 | 366 | 725 234 | 400 |
| 60-69 70-79 | 205 107 | 257 150 | 258 170 | 368 281 | 337 205 | 427 375 | 383 291 | 349 373 | 402 281 | 317 341 |
| 88+ | 30 | 50 | 53 | 135 | 77 | 188 | 105 | 232 | 119 | 239 |
| NORTHERN AMERICA (s) | 6.875 | 7,616 | 9,425 | 11.259 | 18,244 | 12,105 | 19,482 | 22,106 | 20,538 | 23,012 16,624 |
| 70~79 80+ | 6,875 3,870 1,135 | 4,627 1,613 | 5,162 1,858 | 11,259 7,478 3,758 | 7,105 2,434 | 10,151 | 19,482 18,241 3,009 | 14,106 5,974 | 20,538 12,149 3,430 | 16,624 6,688 |
| Canada 60-69 | | 527 | 815 | 919 | 1,077 | 1,189 | 2.001 | 2,224 1,420 | 2,126 | 2,346 1,680 |
| 70-79 80+ | 520 324 95 | 339 111 | 431 136 | 545 231 | 713 248 | 971 | 1,081 359 | 1,420 | 1,269 | 1,680 716 |
| United States of America | 6,352 3,564 | 7,086 | 8,605 | 10,334 | 9,161 | 10,910 | 17,468 | 19.862 | 18,399 | 20,450 |
| 70-79 80+ | 3,564 1,040 | 7,086 4,286 1,501 | 8,605 4,729 1,721 | 10,334 6,929 3,525 | 9,161 6,388 2,184 | 10,910 9,174 4,376 | 17,468 9,153 2,647 | 19,869 12,677 5,332 | 18.399 10,871 3,018 | 20,650 14,933 5,968 |
| UNION OF SOVIET SOCIALIST REPUBLIC | 8 4 275 | | | 17,820 | | | 18.477 | 20,669 | 19,609 | 21,877 |
| 70-79 88+ | 4,275 2,206 567 | 8,174 4,844 1,498 | 6,927 3,677 1,938 | 12,029 8,768 3,172 | 13,638 6,685 1,317 | 16,862 12,249 4,397 | 18,477 7,980 3,487 | 11,166 | 10,474 3,159 | 14,144 6,811 |
| UR 7 | 201 | 0,770 | . 1.20 | africe | . 141 | 4000 | 2,70 | - 1000 | -1-0 | -, |

SOURCE: Derived from <u>World Population Prospects: Estimates and Projections as Assessed in 1982</u> (United Nations publication, Sales No. 83.XIII.5).

NOTE: Figures may not add to totals because of rounding.

* For explanatory notes regarding regions and countries, see p. 53.

PERSONS ENCOUNTERING HEALTH SERVICES IN OTHER

CIRCUMSTANCES (V60-V68)

Orthoptic training V57.4

Other V57.8 Unspecified V57.9

Housing, household and economic circumstances 1000

Lack of housing V60.0 Transients

Hobos

Social migrants ramps

Vagabonds

V60.1 Inadequate housing

Technical defects in home preventing adequate care

Lack of heating

Admission solely for radiotherapy, the main part of the treatment (for malignant disease) already having been completed

Other and unspecified aftercare

Radiotherapy session

V58.0

Excludes: prophylactic chemotherapy against disease which has never been present (V03.- to V07.-)

V58.1 Maintenance chemotherapy

Blood transfusion, without reported diagnosts

V58.2 V58.3

Attention to surgical dressings and sutures

Restriction of space

V60.2 Inadequate material resources

Economic problem

Poverty NOS

V60.3 Person living alone

V60.4 No other household member able to render care

family member too handicapped, ill or otherwise unsuited to render Person requiring care (has) (is):

temporarily away from usual place of abode partner temporarily away from home

Excludes: holiday relief care (V60.5)

V60.5 Holiday relief care

Provision of health care facilities to a person normally cared for at home, to enable relatives to take a vacation

160.6 Person living in residential institution

Boarding school resident

V60.8 Other

Excludes: examination of potential donor (V70.8)

V59.0 Blood

Donors

V.59

V60.9 Unspecified

Other family circumstances 2 Includes: when these circumstances or fear of them, affecting the person justified or not, for seeking or receiving medical advice directly involved or others, are mentioned as the reason,

V61.0 Family disruption

Other specified organ or tissue

Cornea Kidney

V59.4

Unspecified

V59.9

V59.8 V59.5

Bone marrow

V 59.3

Bone

Skim

V 59. I V59.2 Divorce

- 128 -

V58.4

Excludes: attention to artificial openings (V55.-)

Other aftercare following surgery

Change of dressings

orthopaedic aftercare (V54.-)

Orthodontics

V58.5

Other

V58.8

Unspecified

V58.9

Removal of sutures

TABULAR LIST

V61.1 Marital problems

Marital conflict

Excludes: problems related to:

psychosexual disorders (302.-) sexual function (V41.7)

V61.2 Parent-child problems

Concern about behaviour of child

Problem concerning adopted or Parent-child conflict

foster child neglect

battering

abuse

Excludes: effect of maltreatment on the child (995.5) V61.3 Problems with aged parents or in-laws

V61.4 Health problems within family

Alcoholism in family

Presence of sick or handicapped person in family or household

V61.5 Multiparity

V61.6 Illegitimacy or illegitimate pregnancy 129

Other unwanted pregnancy V61.7

V61.8 Other

Unspecified V61.9

Other psychosocial circumstances V62

justified or not, for seeking or receiving medical advice when these circumstances or fear of them, affecting the person directly involved or others, are mentioned as the reason, or care Includes:

Excludes: previous psychological trauma (V15.4)

V62.0 Unemployment

Excludes: when main problem is inadequate material resources (V60.2)

V62.1 Adverse effects of work environment

V62.2 Other occupational circumstances or maladjustment

Dissatisfaction with employment Career choice problem

V62.3 Educational circumstances

Educational handicap Dissatisfaction with school environment

SUPPLEMENTARY CLASSIFICATION (V CODE)

V62.4 Social maladiustment

Political, religious or sex Cultural deprivation discrimination

persecution isolation" Social:

V62.5 Legal circumstances

Litigation

Prosecution

mprisonment

V62.6 Refusal of treatment for reasons of religion or conscience

V62.8 Other psychological or physical strain, not elsewhere classified

V62.9 Unspecified

Unavailability of other medical facilities for care

V63.0 Residence remote from hospital or other health care facility

V63.1 Medical services in home not available

Excludes: no other household member able to render care (V60.4)

163.2 Person awaiting admission to adequate facility elsewhere

163.8 Other

Person on waiting list undergoing social agency investigation

V63.9 Unspecified

Persons encountering health services for specific procedures, not carried out VE

Vaccination not carried out because of contraindication V64.0

Surgical or other procedure not carried out because of contraindication V64.1

Surgical or other procedure not carried out because of patient's decision V64.2

V64.3 Procedure not carried out for other reasons

Other persons seeking consultation without complaint or sickness

V65.0 Healthy person accompanying sick person

3oarder

V65.1 Person consulting on behalf of another person

Excludes: anxiety (normal) about sick person in family (V61.4) Advice or treatment for nonattending third party

DISTR.: LIMITED DISTR.: LIMITEE

WHO/ICD10/REV.CONF/89.6

ORIGINAL: ENGLISH

INTERNATIONAL CONFERENCE FOR THE TENTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES

Geneva, 26 September - 2 October 1989

INTERNATIONAL NOMENCLATURE OF DISEASES

by

Z. Bankowski*

Introduction

It has long been recognized that the increasing confusion in disease nomenclature constitutes a severe barrier to communication and to the storage and retrieval of information. Few diseases have a single recognized name: most have several different — often widely different — names, and some have thirty or more. Many of these names are strict synonyms; others, however, are not, but may represent only a single clinical manifestation of a given disease rather than the disease itself. The confusion is aggravated by the fact that the same name, or very similar names, may be applied to two or more different conditions, or be used in different ways by different authors. Moreover, very similar names may be used in different senses in different languages. At a time when health is increasingly a matter of concerted international effort, such confusion gives rise to intolerable difficulty in communication and the waste of precious resources.

In 1970 the Council for International Organizations of Medical Sciences (CIOMS) began the preparation of an International nomenclature of diseases (IND), with the assistance of its member organizations, and five volumes of provisional nomenclature were issued during 1972-1974. It was soon realized, however, that such a nomenclature, if it was to be truly international, necessitated much wider consultation than was possible solely through the CIOMS member bodies. In 1975 the IND became a joint project of CIOMS and the World Health Organization, guided by a Technical Steering Committee representing both organizations.

The project was supported initially by a contract with the United States Public Health Services and since 1982 by the Kuwait Foundation for the Advancement of Sciences and the Kuwait Ministry of Public Health

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^{*} Executive Secretary, Council for International Organizations of Medical Sciences (CIOMS), Geneva, Switzerland

The principal objective of the IND is to provide, for every morbid entity, a single recommended name. The main criteria for selection of this name are that it should be specific (i.e., that it should apply to one and only one disease), unambiguous, as self-descriptive as possible, as simple as possible, and (wherever feasible) based on cause. However, many widely used names do not fully meet these criteria, and to propose new names might well increase, rather than eliminate, confusion. Consequently, names that are in virtually universal usage are retained, even if they do not fully meet the criteria listed above, provided they are not seriously incorrect, misleading, or contrary to the recommendations of international specialist organizations. Eponymous terms are avoided to the maximum possible extent, since they are not self-descriptive; however, many of these also are in such widespread use, such as Hodgkin's disease, Parkinson's disease and Addison's disease, that they must be retained.

Each disease or syndrome for which a name is recommended is defined as unambiguously, and yet as briefly, as possible. To the definition is appended a list of synonyms - that is, terms other than the recommended term that have been applied to the morbid entity in question. These lists are invaluable for information retrieval and are made as complete as possible; they are supplemented, where necessary, by notes explaining why certain synonyms are rejected or why an alleged synonym is not in fact a synonym at all. (Fig. 1).

A final objective of the IND is that it should serve as an complement to the International Classification of Diseases (ICD). This calls for a brief explanation of the difference, and the relationship, between the two. The ICD is designed for the reporting of mortality and morbidity statistics, and for this purpose it groups diseases into categories; its primary concern is not the name that should be given to a disease, but the category under which an occurrence of the disease should be reported. The IND, on the other hand, is concerned solely with the names that should be given to disease; it is a list of recommended names for diseases, with no attempt to specify the manner in which those diseases should be classified for the purposes of statistical reporting. Consequently, it is not concerned with categories, although of course it names and describes related diseases in chapters that have general titles such as "congenital abnormalities of the oesophagus" or "ischaemic heart diseases". The difference between the ICD and the IND can be seen most clearly in the inclusion and exclusion notes found in many ICD rubrics and in rubrics such as "other aneurysm" or "of unspecified site". Such entries have no place in the IND, in which everything must be specified and named. Early volumes of the IND included the ICD code for each disease. It was found, however, that this gave rise to some confusion, some readers assuming that the IND was intended to replace the ICD. ICD codes are therefore no longer included.

Final text and publication



INTERNATIONAL NOMENCLATURE OF DISEASES

| | of experts n. | | | # | | |
|-----------|--|-------------|-------------------|-----------------------|--------------|------------------------|
| | international groups every disease of mai | PREPARATION | First draft | Review of first draft | Second draft | Review of second draft |
| OBJECTIVE | us of large d name for | | | | | |
| | To establish, through consensus of large international groups of experts a single recommended name for every disease of man. | CONTENTS | Recommended names | Definitions | Synonyms | Explanatory notes |

In the preparation of the 10th Revision of the ICD use was made of the experience gained in the preparation of the IND, particularly in regards to the groups of diseases for which the IND has been published or is about to be published.

Method of Work

For the purpose of the <u>International nomenclature of diseases</u>, the following working criteria are applied for the identification of disease entities which qualify for inclusion in the IND. Disease entities are well-defined pathological entities characterized by abnormal histological, chemical, immunological, genetic or other changes, of known or unknown cause and pathogenesis. Such pathological entities may or may not give rise to abnormal functions, signs or symptoms. The IND does not catalogue manifestations of disease entities, that is, signs and symptoms, though these may be mentioned in the definitions or descriptions of the diseases.

For each volume, a first draft is prepared by consultants working in accordance with detailed guidelines approved by the Steering Committee and taking into account existing international and national recommendations and in consultation with CIOMS and WHO experts. In preparing this draft, all existing international terminologies are considered; wherever possible, original articles in journals are consulted; reference is also made to standard textbooks, dictionaries, classifications, and other reference works. this draft is distributed to a large number of experts throughout the world., including those nominated by the appropriate international nongovernmental organizations. These experts are invited to comment on all aspects of the first draft, especially the recommended names. Subsequently the draft is revised in the light of their comments, and the revised text is again distributed for review. On rare occasions it may be necessary to prepare a third draft. If problems involving differences of interpretation should arise, meetings of experts may be convened in order to resolve the difficulties. The text is published only when a consensus has been reached. On the basis of the final comments received from the experts, the text is prepared for the printer, together with an alphabetical index of all recommended names and synonyms. The International nomenclature of diseases is distributed through the WHO Distribution and Sales Service.

Recommended nomenclature in related areas. Any international nomenclature must, if it is to be credible, follow all relevant nomenclature that has been recommended by other international organizations, especially the international scientific unions. For example, the names of chemical substances should follow the rules of the International Union of Pure and Applied Chemistry, the names of enzymes should be those recommended by the International Union of Biochemistry, and the names of pesticides should be those recommended by the International Organization for Standardization. Similarly, the names of bacteria and viruses should be those validly published by the International Committee on Systematic Bacteriology and the International Committee on Taxonomy of Viruses, respectively. In many cases this can be done simply, but in others a great deal of difficult and time-consuming work is involved. For instance, in the case of the volume on parasitic diseases, it was necessary to enlist the help of the secretariat of the International Commission on Zoological Nomenclature (ICZN), who verified the validity of all the names of parasites used (some 2000 names).

PARASITIC DISEASES

Falciparum malaria

A severe (and, in nonimmune persons, rapidly fulminating) form of malaria caused by <u>Plasmodium (Laverania) falciparum</u>. Clinical manifestations (usually occurring 5-15 days after inoculation) are highly variable and may include high fever, chills, headache, myalgia, rapid pulse rate, splenomegaly, and sometimes delirium; there is often a high level of parasitaemia and capillary obstruction may occur. After the initial illness a periodic pattern of paroxysms may be established. The paroxysms, with fever and chills, usually last for 12-24 hours and tend to be repeated every 48 hours. Coma, excessive destruction of erythrocytes, convulsions, and heart failure may lead to death. The disease may produce very serious complications. Synonyms: acute pernicious fever; aestivo-autumnal fever; aestivo-autumnal malaria; algid malaria; Chagres fever; continued malarial fever; estivo-autumnal fever; estivo-autumnal malaria; estivo-autumnal malarial fever; falciparum fever; malignant tertian fever; malignant tertian malaria; Panama fever (in part); pernicious intermittent fever; pernicious malaria; Plasmodium falciparum malaria; quotidian malaria; Roman fever (in part); subtertian fever; subtertian malaria fe

Linguistic note: The term "algid malaria" refers to falciparum malaria in which gastrointestinal manifestations predominate. "Chagres fever" (a term that has been used) should not be confused with Chagres virus disease.

CARDIAC AND VASCULAR DISEASES

Acute myocardial infarction

Necrosis of a portion of the heart muscle as a result of inadequate blood supply.

Synonyms: acute cardiac infarction; coronary heart attack; coronary occlusion; coronary thrombosis.

- Notes. 1. The term may be qualified by a topographical descriptor, e.g., inferior myocardial infarction, inferolateral myocardial infarction.
- 2. The term old myocardial infarction (or healed myocardial infarction) is applied to the state of healed myocardial infarction, usually with persistent abnormal Q waves present.
- 3. The so-called "shoulder-hand syndrome", which in the past was regarded as a late complication of myocardial infarction, may have been due to prolonged bed rest and has no specific links with cardiovascular disease; it is not covered in this volume of the <u>International nomenclature of diseases</u>.

Status

Preparation of the IND has proved to be more time-consuming than had originally been thought, mainly owing to the difficulty of handling simultaneously, with a very small staff, up to twelve different sections of the IND at different stages of preparation. However, this has been offset to some extent by making the maximum use of computer techniques, e.g., totally automatic index preparation.

The present status of the IND is outlined below:

Published

Lower Respiratory Tract, 1979
Infectious Diseases:
Mycoses, 1982
Viral, 1983
Bacterial, 1985
Parasitic, 1987
Cardiac and Vascular Diseases, 1989

In Preparation

Digestive System (ready for printing)
Urinary and Male Genital System
Female Genital System
Metabolic and Endocrine Diseases
Blood and Blood-forming Organs
Immunological System
Musculoskeletal System
Nervous System

To be prepared

Psychiatric Diseases Skin Ear, Nose and Throat Eye and Adnexa

The Arabic version of nomenclature of diseases of the Lower Respiratory Tract has been completed and published. The WHO Regional Office for the Eastern Mediterranean, in collaboration with the Arab Centre for Medical Literature, has agreed to publish the nomenclature of Bacterial Diseases, Mycoses, Parasitic Diseases and Viral Diseases in 1989.

It is the hope of both CIOMS and WHO that the <u>International nomenclature of diseases</u> will serve to improve communication in health sciences and to facilitate the storage and retrieval of information.

ORGANISATION MONDIALE DE LA SANTE

DISTR.: LIMITED DISTR.: LIMITEE

WHO/ICD10/REV.CONF/89.7 ORIGINAL: ENGLISH

INTERNATIONAL CONFERENCE FOR THE TENTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES

Geneva, 26 September - 2 October 1989

FROM LAY REPORTING TO COMMUNITY-BASED HEALTH INFORMATION

1. Review of activities in lay reporting of health information

Since 1954, there has been an increasing concern over poor access to the services of qualified health personnel by a large proportion of the population in many developing countries and hence over the incompleteness and poor coverage of health information, particularly on mortality and morbidity, that can provide a reliable epidemiological picture. As the International Classification of Diseases (ICD) was revised periodically to improve its usefulness, based on advances in the medical and public health area, its application in developing countries brought to the forefront the need to have simple methods and tools that could be used by peripheral health workers with generally limited medical knowledge.

The WHO Expert Committee on Health Statistics in 1954 and the International Conference for the Seventh Revision of the ICD in 1955 both stressed the desirability of devising methods of recording vital and health information suited to conditions in developing countries, and particularly to those areas where there was a dearth, or even a complete absence, of physicians for diagnostic purposes.

In response to this concern, a proposal entitled "A Method for the Recording of Crude Causes of Death by Laymen in Underdeveloped Areas" was presented at the African Conference on Vital and Health Statistics held in Brazzaville from 19-24 November 1956 and discussed at the Expert Committee on Health Statistics held in Geneva from 10-15 December 1956. Annex I describes the proposal which showed remarkable insight into the problems and possible methods of obtaining vital and health information through non-medical personnel.

Also in 1956, a study into lay reporting was undertaken by the WHO-assisted Nagpur Demonstration and Training Unit, Bombay State, India. The results of that study were presented to the WHO Regional Seminar on Certification and Classification of Mortality and Morbidity held in New Delhi, India in September 1958.

Since that time a number of lay reporting schemes have been field-trialed or established and in the early 1970s WHO held two meetings on lay reporting namely:

- Consultation on Lay Reporting of Perinatal Mortality and Morbidity, Geneva,
 27 September 1 October 1971, and
- Consultation on the Methodology and Application of Lay Reporting of Perinatal and Maternal Morbidity and Mortality, Geneva, 26-30 March 1973.

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The International Conference for the Ninth Revision of the ICD convened by WHO in Geneva from 30 September to 6 October 1975 discussed the problem of securing badly needed morbidity and mortality statistics in countries still suffering from a lack of sufficiently qualified personnel. A small working party, consisting of delegates from Member States with experience of the problem, was convened and in the light of its report the Conference recommended that WHO should:

- (1) become increasingly involved in attempts made by the various developing countries for the collection of morbidity and mortality statistics through lay or paramedical personnel;
- (2) organize meetings at regional level for facilitating the exchange of experiences between countries currently facing this problem so as to design suitable classification lists with due consideration to national differences in terminology;
- (3) assist countries in their endeavour to establish or expand the system of collection of morbidity and mortality data through lay or paramedical personnel.

In accordance with these recommendations, a Working Group was convened by the WHO Regional Office for South-East Asia in New Delhi from 22-27 November 1976. The Working Group drew up a detailed list of symptom associations. From this detailed list, two short lists were derived, one for causes of death and one for reasons for contact with health services. Field trials of this system were carried out in countries of the Region and the results were used to revise the list of symptom associations and the reporting forms. This revised version was published by WHO in 1978 in the booklet Lay Reporting of Health Information. 2,3

In 1981, questions concerning lay reporting were included in a questionnaire to Member States relating to the Ninth Revision of the International Classification of Diseases. More than half of the countries completing the questionnaire stated that lay reporting was relevant and this applied to the majority of Member States in the WHO African, American and South-East Asian Regions. While the majority of countries having a favourable attitude towards lay reporting considered the booklet suitable, it was also stressed in the replies that the booklet required local adaptation in order to meet the specific and peculiar needs of countries. European countries, considered the system as developed by WHO of value particularly for household surveys.

Convinced of the usefulness of lay reporting in morbidity and mortality statistics and its potential in obtaining other health and health-related information in countries where medical manpower is inadequate, a number of WHO-sponsored regional and national workshops have been organized in many regions to share experiences in lay reporting initiatives and to plan activities for its improvement and expansion. Apart from the meeting in Senegal in March 1982 that discussed the reporting of health information by paramedical personnel and health auxiliaries and adaptation of the list provided by WHO, meetings were also held in Nairobi in September 1981 and in Dakar in March 1982 to consider the inclusion of environmental features related to health within a lay reporting system. 4 The subject was also discussed at the International Conference on Health Statistics for the Year 2000 held in Bellagio, from 27 September to 1 October 1982. The major problem raised related to the integration of "lay reporting" information with others conventionally used and routinely generated for health management and initiatives were taken to study this, not in isolation but as one of the efficient ways to make available relevant information for health management.

The Consultation on Primary Care Classifications held in Geneva in November 1985 recognized the needs for information for a PHC-based health system and hence the need for an approach that could unify information support, health service management and community services, through information based on lay reporting in the expanded sense of community-based information. The Second Expert Committee on the International Classification of Diseases - 10th Revision in 1987 also discussed this aspect and agreed that, though it would not be possible to develop a uniform classification for community-based health information, WHO should continue to give guidance at regional and national levels and issue guidelines to facilitate the development of local schemes.

It is pertinent to point out, at this stage, that, as many countries in Asia and Africa have taken "lay reporting" initiatives to bridge the gap in the availability of information, particularly in the morbidity and mortality areas, a number of countries in the Americas designed and tested innovative procedures and tools not only for generating data using community resources, but also for validating and analysing existing data generated through "conventional" routine reporting procedures. An attempt is being made in Mexico to translate symptoms and signs, that are meaningful and of primary use to the peripheral health worker/volunteer, into diagnoses for use at higher levels. (Annex 2) Some developed countries have also introduced coding schemes to assist doctors and staff to understand the patients' problems. They cover the whole range of clinical medicine to the level of detail required by the practising doctors and includes signs and symptoms, laboratory tests, diagnoses, therapeutic procedures, occupational history, family history, social history etc. A number of health care programmes have also developed simple procedures for obtaining relevant health information, taking into account both the programme priority needs and the specific developing countries situation.

2. Community-based Health Information System (CHIS)

The global strategy for Health for All by the Year 2000 (HFA/2000) launched in 1978 has thrown open a number of challenges for the development of information systems in Member States. 7 With the countries reorienting and strengthening their health services to a health system based on primary health care, they recognize an urgent need to improve their information support for developing and managing such a system. The framework for such an improvement is based on the conceptual aspects of the health for all goals and primary health care. The perspective of enabling, by the year 2000, all people in all countries to have a level of health that will permit them to lead a socially and economically productive life requires relevant health and health services information for all the population, that are comparable over time and among population groups and geographical areas including between countries where necessary. With primary health care becoming the main focus for the countries' health systems to attain efficiently the HFA/2000 goals, decentralization with maximum community involvement in identifying priority problems and participating in solving them, has become the basis for the health systems development and management. This has made it imperative that, in addition to information on health status, one possesses information on health resources and technology and on health activities and services including health care coverage, equity, quality, effectiveness and impact. It is also necessary that such information is meaningful to health personnel with different levels of education and training in medicine. The information should also be comparable over time and among population groups and areas.

Health systems based on primary health care require that information for the whole country is available on:

- (i) complete morbidity and mortality situations and their patterns that can be compared over time and among geographical areas for a given point of time,
- (ii) socio-economic and environmental determinants as well as the operational and other risk factors associated with given morbidity and mortality patterns so that priority population groups and areas can be identified and health care activities can be targeted, and on
- (iii) resources, financial and others, that are available so that they can be meaningfully redirected to improving the quality of life of the people.

This can be achieved by broadening the scope of lay reporting to a Community-based Health Information System (CHIS) that includes: health problems and needs, related risk factors and resources (including relevant information from related sectors) and is focussed on <u>individuals</u> grouped to <u>families</u> and based on <u>communities</u>.

At the community level, apart from morbidity and mortality data that can be generated through the lay reporting method, risk factors in terms of environmental hazards, behaviour and others of medical significance requiring special care can be studied for all individuals within a family and a risk score assigned to the family for priority attention for relevant care. The list of individuals when properly updated can also provide information on eligibles for various health care activities and services such as antenatal care, immunization, child care, nutrition etc. Given the socio-economic and environmental information, it should be possible to choose appropriate types and modes of interventions, be they promotional, preventive or curative, to ensure their effectiveness and contribution to improving the quality of life that underlies the health for all strategies. Continuous care registers for various programme/service interventions can be built around this "family sheet" to facilitate the initiation and maintenance of appropriate care to individuals through "follow-ups" (Annex 3). The service registers, records and reports will thus have a single focus, viz. family of individuals to satisfy the managerial needs for information at different levels, with information emanating from different sources, it should be possible to develop a comprehensive measure of access to PHC. A sample of the family sheet is given as Annex 4.

At the <u>national</u> level, the community information, and if necessary even family information, can be aggregated to derive among others, a complete picture of the morbidity and mortality situation including the pattern of conditions for the <u>whole</u> country. This can be supplemented with a scheme such as sentinel reporting for epidemiological surveillance.

2.1 CHIS Procedure

Since most of the contents of the community-based information system described above has to be generated at the community level by the peripheral workers as well as community volunteers and other health workers, it is imperative that the terms used are simple and meaningful and should be, as far as possible, in local dialects. In respect of the diagnosis-related health information, use of "lay reporting" methods suitably adapted to a community situation are appropriate. They should be able to facilitate comparability over time for the monitoring of the changes both within and between communities. National and international comparisons of data generated in this way are of secondary importance but relevant tools can be developed to transform and translate these "local level" terms to suit "higher level" requirements. To facilitate the use of information not only to know about the problems but also for

planning and managing relevant interventions to solve them, it is necessary that the <u>simplicity</u> and <u>comparability</u> go beyond the health problems of morbidity, mortality and disability and include at least health resources, services/activities including their effectiveness etc. Standardization procedures are needed not only for monitoring changes in the health situation but also in manpower, financial resources and their utilization, and in activities and services as well as in the effectiveness and impact of the interventions.

A number of countries have been developing and testing some or all aspects of the Community-based Health Information System (CHIS) and from their experiences so far they seem to be feasible and effective in terms of their utilization.

3. Conclusions

To obtain a factual picture of the health situation for the whole country and particularly to overcome difficulties in the collection of morbidity and mortality data, several initiatives including the use of lay reporting procedures have been undertaken. In implementing their health for all strategies, countries noted persistent deficiencies in information support mechanisms and procedures in providing relevant information. They also recognized the need not only for a complete picture of the health situation but also for related risk and other factors inhibiting and influencing the situation, and of resources. Based on the experience gained so far, the scope of the lay reporting method was broadened to a "community-based Health Information System" that includes diagnosis-related health information through lay reporting mainly by nonmedically-trained health personnel. This expanded scheme is being tested in a number of countries. It seems that CHIS can provide information that is:

- (i) <u>complete</u> compared with conventional institution-based information i.e. covering the total population and not restricted to <u>demand</u>;
- (ii) comprehensive as it facilitates the provision of continuity in health care; coverage of total population receiving all elements of PHC can be derived;
- (iii) <u>efficient</u> since common data elements of various programmes are generated only once and can be continuously updated,
- (iv) effective by being the basis for providing a consistent set of eligible persons for different programmes. Programme delivery records can be tailored to the requirements of the users but built on this common dataset; relevant information and indicators can then be derived for management;
- (v) <u>meaningful</u> since data are generated in terms understandable to those who generate and use them.

CHIS provides basic demographic and health data and at the same time can be a useful sampling frame for eventual later sample surveys. On It is envisaged that a number of activities in support of the adaptation, application and further development of CHIS will be undertaken in Member States. It is to be acknowledged however that even this CHIS need not necessarily be a standard tool for generating health information in all countries. Given the different socio-cultural situations of the countries and diagnostic knowledge level of the peripheral health personnel several schemes to facilitate the collection of health information may have to be considered. However, whatever the scheme, one should ensure that the data thus generated are comparable over time and among population groups and geographical areas. In evolving tools for standardization, it is desirable to ensure that the classification schemes, organized to meet the needs of different users in the most effective manner, are developed around a "family of classifications" to enable comparisons over areas/countries by higher level users, using a core classification such as the International Classification of Diseases. This also applies to the schemes associated with health resources, health activities and with health services.

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A METHOD FOR THE RECORDING OF CRUDE CAUSES OF DEATH BY LAYMEN IN UNDERDEVELOPED AREAS

bу

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1. Origin of the present paper

The WHO Expert Committee on Health Statistics 1 and the International Conference for the Seventh Revision of the International Lists of Diseases and Causes of Death 2 have both stressed the desirability of devising methods of recording vital and health information suited to conditions in underdeveloped areas, and particularly to those areas where there is a dearth, or even a complete absence, of physicians for diagnostic purposes.

- 2. Various degrees of deficiency in vital and health recording in underdeveloped areas
- 2.1 Countries in which the whole territory enjoys the services of an adequately numerous an qualified medical profession, capable of ascertaining and certifying the cause of practicall every death, and of an efficient administrative machinery, registering all births, deaths, and causes of death, and publishing them annually, as specified in WHO Regulations No. 1 (1948), on health statistics may be considered as statistically developed. However, the number of such countries is limited.
- 2.2 There is a large variety of conditions of "statistical underdevelopment" of countries. These conditions are seldom uniform throughout the countries concerned, and indeed may vary from full development (as described above) in the chief city or cities, to complete absence of any form of health recording in outlying areas, where physicians, and even administrative machinery, may not exist. It would be more proper, therefore, to speak of statistically underdeveloped areas than of underdeveloped countries.
- 2.3 One may observe here that, of the many countries which do not issue regularly vital and health statistics for the whole of their territories, few are truly destitute of such statistics. Most of them at least have material which, by judicious and comparatively simpl treatment, could yield health statistics, or at least numerical information of practical value to the health administration.
- 2.3.1 There may be urban areas in which vital and health registration is practised on more or less standard lines and medical certificates from practitioners are available in respect of a fraction at least of the deaths. If these areas are well defined, and the deaths of

Document WHO/HS/56 (1954) item 5, pp. 14-16.

² Document WHO/HS/7 Rev.Conf./17 (Rev.1) (1955) item 2, pp. 11-12.

which the cause is medically certified are compiled separately from those for which the cause is known only from statements from lay family members, they may well furnish valuable health statistics.

- 2.3.2 In many towns where medical practitioners are too few for any death registration system to be based on their certificates, there are hospitals in which records of patients' treatments and/or deaths are based on reliable medical diagnoses. Hospital records, if properly kept and analysed, may therefore constitute a very valuable source of knowledge on the diseases prevailing in a particular country or in parts of a country, and indeed serve as a means of checking returns obtained from other sources.
- 2.3.3 In some countries there exists, apart from the hospitals enjoying the services of physicians, a network of medical outposts, i.e. small out-patient dispensaries equipped for elementary medical and surgical treatment and manned by dressers, male or female nurses, or other local types of junior semi-medical personnel. The records of such outposts, if kept on properly devised forms, can contribute very useful information as regards prevailing morbidity.
- 2.3.4 In some territories with a scattered population a system of mobile units replaces or complements the network of hospitals and medical outposts. While mobile units generally concentrate on mass detection and mass treatment of a few specific conditions, such as sleeping sickness, yaws, leprosy, etc., they may record a variety of other conditions and provide valuable information on local morbidity.
- 2.3.5 There are, however, in many countries and territories, outlying areas where no medical or semi-medical personnel is available and concerning which the health authorities are not adequately or regularly informed.
- 2.3.5.1 In some such areas, births and deaths are registered for administrative and legal purposes, but causes of death are not properly recorded or even ascertained.
- 2.3.5.2 In others, conditions are even more primitive, and no record is kept of births, deaths, or their causes.
- 2.3.5.3 It is with a view to facilitating the filling of these gaps in the health registration system, due to the complete absence of local medical personnel, through the use of selected laymen, that the suggestions contained in the present paper are made.
- 3. Possibility of obtaining valuable basic vital and health records through laymen
- 3.1 The proposed system is based on a series of assumptions, each of which is based on experience gained in one or more areas.
- 3.1.1 The first assumption is that a person familiar with a local community, such as a village or small town, and possessing therein administrative or moral authority, or both, such as a village chief or government clerk, may learn of any birth or death occurring there, and of the circumstances relating to the deaths.
- 3.1.2 The second assumption is that, if provided with a convenient method of recording such events and circumstances, and a suitable financial or other inducement to do so, he will record them and send regularly the record to the central authority concerned.
- 3.1.3 The third assumption is that the causes of deaths as recorded by a layman, duly trained to do so, of course, may, if classified by a proper, even though simple, method, be interpreted by an epidemiologist with a knowledge of the country, of its lore and of its pathology, in such a way as to prove useful to the health authorities of the territory as a basis for practical action.
- 3.2 This last assumption being of a technical nature requires proving.

3.2.1 Age at death is in itself of considerable health significance. Whether death occurs at birth, during the period of breast feeding, during childhood, adulthood, or in old age, the general health implications are obvious. Now, it is not necessary to know the exact age at death, which will not be obtainable in a community where birth registration is not practised, or is of recent introduction.

The following broad "physiological" age-groups may well be used in this connexion: sucklings, youths, adults, old people (cf. paragraph 4.4.6). Any layman may record these age-groups.

- 3.2.2 Accidents and other violent deaths. Drowning, crushing by fallen trees, transport accidents, attacks from venemous snakes, scorpions, crocodiles, and other wild animals, suicide, homicide and many injuries leading to infection and death, do not require medical knowledge for diagnosis, and may be readily recorded. Such is also the case for deaths of women in childbirth.
- 3.2.3 Broad symptoms, anatomical site, and duration of complaint may point to rough "diagnoses" of many conditions or groups of conditions.
 - (a) Abdominal pain, if accompanied by diarrhoea, will cover cholera (well known, wherever it occasionally prevails), dysentery, gastroenteritis, and some food poisonings.
 - (b) Abdominal pain without diarrhoea will cover gastrointestinal ulcers and tumours, appendicitis, intestinal obstruction (hernia is often well recognized), and many conditions relating to ovaries, tubes, and uterus.
 - (c) Cough, with a short illness, will cover influenza, pneumonia and broncho-pneumonias.
 - (d) Cough with a long illness will cover, inter alia, pulmonary tuberculosis and bronchiectasis.
 - (e) Shortness of breath with swelling of the legs will include many of the heart diseases.
 - (f) Difficulty or pain in passing urine will include many diseases of the kidneys, bladder and urinary passages.
 - (g) Jaundice of the skin, and of the eyeballs (more readily recognized in coloured races) will point to acute and chronic conditions of the liver and bile passages.
- 3.2.4 A good many of the "fevers" may be further identified by the mention of some symptoms associated with them. Thus, skin eruptions will point to the eruptive fevers, smallpox, measles, typhus (any of which may be well known locally and designated by a vernacular name). Headache and stiffness of the neck will indicate cerebrospinal meningitis and meningitis from other causes. Repetition of the febrile attacks will single out malaria, relapsing fevers and brucellosis.
- 3.3 Checking of the lay diagnoses by the epidemiologist. If the deaths are recorded on single lines and in chronological order, the very proximity of certain deaths with a similar diagnosis will indicate the probable "epidemic" character of the condition: Similarly, if the records are made out monthly, the concentration of certain fevers at certain seasons may suggest retrospectively the diagnosis: influenza or cerebrospinal meningitis in winter, P. falciparum malaria in early autumn.

¹ In many primitive communities, where the belief in evil influences at a distance is widespread, only deaths from actual injuries sustained from other men should be accepted as due to homicide.

3.4 It is admitted that the system of lay recording of causes of death described above is too crude to provide reliable individual diagnoses, even when checked by an epidemiologist. It is believed, however, that when so checked, lay recording may provide community diagnoses. It may, for example, reveal an abnormal frequency of infant mortality, due to respiratory or to digestive causes, an excessive maternal mortality, or again water-borne or malarial infections.

Individual diagnoses would not be very useful in a community not enjoying medical treatment facilities; but community diagnoses may direct the attention of the health authorities to the most desirable and urgent community control measures or special campaigns.

- 4. Practical point regarding the establishment of a lay system of vital and health registration
- 4.1 Areas to be selected. As stated above, this system is particularly desirable in areas for which no medical or semi-medical information is available. Each area to be selected as a "vital and health recording area" should be large enough to allow its vital figures to be significant, and at the same time it should be small enough to enable the recorder to learn of any birth or death and the cause of the latter.

A village, or a group of neighbouring villages with a population of 3000 to 5000, would provide on an average 60 to 120 deaths a year, i.e. 5 to 10 per month, a number small enough not to overtax the recorder.

It will generally be found convenient to select an area where the population is not only physically concentrated but also racially homogeneous, so that the recorder may have access to all without barriers of tribe or clan. A homogeneous sample would also enable some inferences to be drawn as regards the whole of the ethnic group from which the sample is drawn.

In a territory with a fairly homogeneous population, sample areas will be selected on a geographical basis, each serving as a watch unit over a definite sector. In a territory inhabited by tribes of different races and living habits, sample areas will have to be selected in each of the most important racial communities.

In any case, each recording area will have to be sharply defined and correspond to a population, the number and the age composition of which are known through a recent census or an ad hoc survey.

4.2 The recorder

- 4.2.1 The recorder might be a tribal or village chief possessing first-hand knowledge of his people, to enable him to be apprised of any vital event occurring amongst them, and with authority to obtain information on circumstances relating to the deaths. He might exercise the "recordership" personnally, if he is literate, or entrust it to a clerk under his authority. The "recordership" might also be entrusted to a government official, as a part-time duty.
- 4.2.2 The first recorders appointed should be given a very short course of training in the principles and procedures involved, including the allocation to the items in the list of causes of death of a series of theoretical or actual cases, and also discussion of and agreement on specific diseases, which could be singled out in the list under a local vernacular name.
- 4.2.3 Recorders to be appointed in the later stages of the development of the scheme would, in addition to the above training, be shown on the spot the functioning of the scheme in one of the existing vital and health recording areas.

4.3 Facts to be recorded

4.3.1 Kegular recording should be made:

- 4.3.1.1 first and foremost of <u>deaths</u>, with such details as may be obtained regarding their causes and the age and sex of the <u>deceased</u>;
- 4.3.1.2 also of births, this being necessary for an eventual computation of infant mortality (or at least "suckling mortality"), and also for gauging the natural increase or decrease of the population; and finally for the system to be in a position gradually to develop into a regular vital registration system, conforming with the United Nations requirements. 1
- 4.3.2 The recorder should be in possession of figures relating to the population of his area by sex and age to make it possible eventually to compute rates specific for sex and age, even if, in the early stages of the system, no such computing is to be attempted at the recorder's level. The recorder should be in a position to make censuses by age and sex in his area at comparatively short intervals (every year or every second year) if general population censuses are carried out at five or ten year intervals only. These local censuses would constitute a check on the recording of births and deaths and vice versa.
- 4.3.3 The recorder might usefully add to his basic function of birth and death reporting the notification to the central or regional health authorities of the occurrence of epidemics of unusual violence or severity, whether he is able to give them a name or not. It must be borne in mind in this connection that the recording system is to function initially where no medical or semi-medical personnel is available. The health recorder must therefore act as an observation post for the benefit of the health administration, and raise the alarm in emergencies.
- 4.3.4 The local knowledge of the health recorder might also be made use of by entrusting him occasionally with the <u>crude survey of some specific diseases</u> well known to the local population, at any rate in their advanced stages, such as leprosy, sleeping-sickness, or yaws. Of course, the results of such a survey cannot be placed on the same level as a true survey by medical or semi-medical personnel. But even a crude survey may point to the need or otherwise for a true (medical) survey as a basis for the organization of a mass control action.

4.4 Form of recording

- 4.4.1 In view of the type of persons who are to act as recorders, the forms for recording should be as simple as is consistent with the purpose of the system, and should require as little actual writing as possible.
- 4.4.2 It is proposed that the health recorder should keep, as a matter of routine, a register of births and another of deaths, each of these registers to be made up of printed forms of monthly recording, one detachable sheet alternating with an identical but permanently bound sheet. The former sheet, filled by carbon transcript, should be detached monthly and sent as a regular report to the health authority, while the bound original would remain available for permanent local record. The thickness and quality of the paper should be such as to facilitate carbon transcription, thus avoiding not only unnecessary writing, but any possibility of error in copying. Under tropical conditions, preservation of the registers against insects and fungus growth may have to be ensured by metal or plastic boxes, or by chemical impregnation of the paper, or by spraying so as to ensure permanency of the records.

4.4.3 Numbering of the vital events

4.4.3.1 each vital event should be recorded, as far as possible, in chronological order, and given one numbered line on the page of the register. The number of the line, coupled with the number of the month and year, will furnish a convenient serial number for reference purposes (for instance, 57/6/8 = death No. 8 of June 1957).

¹ ct. Principles for a Vital kegistration System (UN Statistical Papers, Series M, No. 19, New York, 1953).

- 4.4.3.2 The serial number may serve to identify a death in the table of causes of death, with the name of the deceased, which may be kept in a separate register with any information of legal interest (names of parents, next of kin, heirs, address), which may be considered desirable for civil purposes, but which does not concern the health authorities and should not encumber their files.
- 4.4.3.3 In order to facilitate the monthly despatch of carbon-transcript reports, each page of the register should relate to a month or to a fraction thereof. It may be found convenient to have each page contain ten numbered lines, so that the mere inspection of the page (or pages) will give the total of deaths recorded during the month.
- 4.4.4 Date of the vital event. Although this may not be considered essential there are advantages in recording the actual date of the birth or the death. This date may precede the month of recording.

The serial number relates to the recording and not to the chronological sequence of deaths. This will avoid corrections and consequent obscurities. It will also prevent the monthly report being held up before despatch to allow late insertions in the month's record.

- 4.4.5 <u>Sex</u> should be recorded. An abnormal male/female ratio of births may in some territories give an idea of the incompleteness of recording. 1
- 4.4.6 Age of the deceased. In most underdeveloped areas, the precise age at death will not be known. Where it is known in years, even without certainty, it should be stated. If it is not known, the rough physiological age-grouping is to be used:1
 - (i) at birth: meaning a few minutes, hours, or even days from birth;
 - (ii) <u>sucklings</u>: this will include infants from birth till complete weaning. This period, according to local practice, will vary from twelve to forty months or so. If the length of this period is known, and the local population survey made along the same lines, the lack of general comparability is not very important;²
 - (iii) youth will include children and adolescents from the age of weaning to nubility. Here again local custom will usually sharply differentiate the youths who have and who have not been submitted to ritual initiation ceremonies, and who have been to the "bush schools" or otherwise. Age 15 may be considered a common limit for females. It is somewhat higher for males;
 - (iv) adult age, as regards females will be the age of fertility (roughly 15 to 45); for males it does not possess any sharp upper limit; it may however be considered to extend roughly to 15 years or so beyond what it is for females, i.e. up to 55 or 60; after which
 - (v) old age is reached.

Babies without any teeth and unable to walk = under 8 months Babies with teeth but not yet walking = 8-12 months Babies with teeth and able to walk = over 12 months.

See Granville Edge: "Vital Statistics and Public Health Work in the Tropics, page 33 (Baillière, Tindall and Cox, London, 1947); also from the author: "Vital Records in the Tropics", Routledge, London, 1932.

¹ On the difficulties and causes of errors in the preparation and interpretation of vital statistics in Africa, one may consult my paper: "Notes on Vital Statistics in Africa", in League of Nations Epidemiological Report, 1932, Vol. 11, pp. 118-139, 167-189, particularly pages 183 et seq.

² If it is desired to ascertain more prescisely the age at death, one may use the following approximate distinctions:

| OF CAUSES | |
|-------------------|--|
| 0 | |
| LIST | - |
| n NN n | |
| OF DEATH: "NM" LI | |
| Ö | |
| CAUSES | |
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4.4.7 Causes of death. The form of monthly death record suggested provides for an approximate classification of the causes of death in 21 categories, with the possibility of specifying more accurately the cause of death, if due to an accident or to a disease which is well known locally.

The 21 categories in the list correspond, as far as practicable, with certain categories or sections of the International Statistical Classification, but this is a very rough correspondence because of the fundamental difference in the nature of the underlying "diagnosis" in the lists: medical as regards the standard International Statistical Classification, and non-medical in the case of the proposed list, which for this reason is designated as "NM" (non-medical).

A table of categories in the abridged and in the detailed International Lists, corresponding with the "NM" categories is appended. For the sake of brevity only the main causes of death are specified by name.

It must be emphasized that these lists are not to be taken as indications of proper assignment of causes, but of what may be expected. Thus an elephantiasic scrotum tumour is likely to be ascribed to NM15: (lumps, tumour) a category which, on the other hand, will unfortunately not include most neoplasms for lack of diagnosis.

- 4.4.8 The symptoms mentioned in the list of causes of death may be expressed in the vernacular or in the language of the administration, but in this case the simplest and most common terms are to be preferred, all esoteric medical terms being banned; thus "bellyache" will be preferred to abdominal pain; difficulty or pain in passing urine to dysuria; yellow skin and eyes to jaundice, etc.
- 4.4.9 One must envisage the drawing up of a small handbook of instructions for the recorders containing not only a description of the procedures, but also the meaning of all medical terms used, and perhaps also outlines of questions to be put to the families in order to ascertain causes of death.
- 4.5 medical interpretation of the non-medical diagnoses recorded. The NM diagnoses recorded constitute only basic material for interpretation by a qualified epidemiologist and medical statistician in the light of what is already known regarding prevailing diseases, and also of the local customs and ways of thinking, particularly in respect of spirits, "evil influences", 1 etc.

The vernacular names of some diseases which may be specified in column (i) are expected to be of particular value for interpretation of the crude records.

4.6 Compiling of statistics out of the NM death records. We have so far carefully abstained from using the word "statistics" in connection with the NM death records. We did not wish to create the impression that these records could, in fact, be placed on the same footing as standard statistics of mortality by cause based on medical certificates, or even hospital statistics.

We also wanted to avoid any belief that the proposed system was intended to provide statistics from countries as yet unable to contribute them to international statistical services in the United Nations or WHO. We believe, nevertheless, that, properly checked by a qualified medical officer, as stated above (4.4.8), and summed up into yearly totals large enough to be significant, and related to figures of population by age-groups (global and age-specific rates) the "NM" data can be made into a useful substitute for standard mortality statistics, if not for purposes of publication (as the international comparability would be poor) at least to provide the health administration with numerical information of sufficient reliability to serve as a guide for practical health action.

This is why the "homicide" category has been so named as to include only physical attacks on the individual and not malignant "influences" by others.

The need for obtaining at fairly short intervals figures of population for the area, both global and according to the physiological age-groups adopted for death recording, must again be stressed here as a requirement for the computing of rates. Even in the absence of a precise population survey, the crude records may reveal significant seasonal and secular trends of the local pathology as monthly records accumulate over a period of years.

4.7 Use of statistics based on NM death records: need for keeping separate statistics from various sources. If statistics are eventually compiled from NM death records obtained through the method described above, care must be exercised to keep them separate from those compiled from other sources, both medical and "semi-medical".

A now very long practice in the international compiling and use of health statistics has convinced us that the main cause of the lack of international comparability of mortality statistics, or indeed of the unreliability of such statistics, is the indiscriminate pooling of data of various degrees of reliability in an attempt to produce "national" statistics.

When certain statistics compiled by a civil vital registration system are stated to be based, as regards causes of death, on verbal statements made to the registrars by members of the family of the deceased, unsubstantiated by medical opinion, because in most cases the fatal illness was not medically attended, then one knows, or at least one may guess, to what extent the diagnoses of cause must be discounted. In such statistics, certain "diagnoses" have a greater degree of credibility than others.

These diagnoses of cause of death, coupled with a fairly reliable age and sex distribution of such deaths, will allow some estimate to be made of the health situation of the population concerned.

If, however, one deals with a mixture of heterogeneous diagnoses, some from attending physicians, some from medical death certifiers (post-mortem inspection), and others made by lay registrars from statements from the families, it becomes quite impossible to estimate the significance of these diagnoses and of their resulting mixture.

Where civil registration does not exist, the mixture of medical diagnoses from physicians and of semi-medical diagnoses from dressers and nurses in the outlying dispensaries is equally undesirable. The two sets of data, if separate, would be valuable; but they are spoiled by their very mixture. 1

The practical conclusion is that mortality statistics based on data collected under different conditions and with diagnoses of cause made by different types of persons should be kept separate, even if issued in the same publication, with very precise statements as regards the areas covered and the reliability of the date (registration areas of different grades).

- kelationships between the proposed system lay recording of causes of death and the health administration on the one hand, and the civil or vital registration system where it does exist, on the other
- 5.1 It should be quite clear from the above description that it is not recommended, or even suggested, that a system of vital and health recording be built up independently of the health administration; nor is it intended to favour the use of lay personnel in preference to medical or semi-medical personnel.

The system described is designed first and foremost to provide basic health data $\underline{\text{for}}$ the health administration, in areas where there is no medical or semi-medical personnel.

The following comparison illustrates the point. If the water supply of a community includes both a small spring of pure water and abundant but dirty water from a river, nothing will be gained by mixing them. A little clean water added to the dirty water will not make it appreciably better; and the addition of even a little dirty water to the clean will be sufficient to spoil it.

- 5.2 It is believed, however, that the establishment of more hospitals and of more medical outposts in the future, when trained medical or semi-medical staff becomes available, need not do away with the system proposed, as presumably the medical staff will remain primarily concerned with morbidity while the system relates essentially to mortality and its causes.
- 5.3 The hospital or medical posts data relate only to patients seeking medical assistance, and such patients may be attracted from a wide and undefined area. They cannot therefore provide rates related to any definite population.
- 5.4 The mortality recording by lay personnel is, on the other hand, sharply limited to a definite population and is intended to cover all deaths within that population. With a varying degree of reliability it will therefore provide mortality rates.
- 5.5 While the system described is primarily intended as a sample one, it may, if successful, be gradually extended to cover increasingly large areas (health recording areas). It may also be improved in such a way as to constitute the nucleus of a regular vital registration system.
- 5.6 Indeed, where such civil registration system does already exist, it should be readily merged with it, to provide information on <u>causation</u> of deaths in addition to their mere recording.

6. Summary

A system is described for the recording of vital events and crude causes of death by laymen in underdeveloped areas without medical or even semi-medical personnel.

Simple forms are suggested for this purpose, together with a list of 21 causes of death. These forms are so worded as to enable a "non-medical" person to use them, and thus furnish to the health authorities basic data which, when interpreted by an epidemiologist, will give them some idea of the health conditions and needs of the population concerned.

Approximate relationship between the NM List of Causes of Death and the Abbreviated (B) List, and the Detailed International Statistical Classification

NM Category

Corresponding categories in:

| | | | | | D-4-41-3 |
|-----|---|---|---|----------------|---|
| | | | International Abbreviate | d List | Detailed International Classification |
| NM | 1 | ACCIDENTS | Motor vehicle accidents Other accidents | BE 47 BE 48 | E 810-835 E 800-802 E 840-965 |
| NM | 2 | ATTACKS FROM VENOMOUS AND OTHER ANIMALS | | | E 927, 928 |
| Nbi | 3 | INJUNY BY OTHER PERSON (HOMICIDE) | Homicide Death in war | в 50 | E 980-985 E 990-999 |
| NM | 4 | SUICIDE | | BE 49 | E 970-979 |
| Nм | 5 | DEATH OF WOMAN IN CHILDBIRTH | Complications of pregnancy Childbirth and puerperium | в 40 | 640-652 670-689 |
| | | | baerbergam | | And the second second |
| NH | 6 | BELLYACHE WITH DIARRHOEA | Cholera Dysentery Salmonella infections | B 5 B 6 | 043 045-048 041-042 |
| | | | Food poisoning Gastroenteritis | в 36 | 049 571-573 |
| | | | odderodned return | | 785 |
| NH | 7 | BELLYACHE WITHOUT DIARRHOEA | Ulcer of stomach and duodenum Appendicitis Hernia and intestinal | B 33 B 34 | 540-541 550-553 |
| | | | obstruction Peritonitis | в 35 | 560, 561, 570 576, 577, 578 584, 587, 784 785, 011 |
| | | | Also in females: diseases of ovaries, tubes and uterus | | 622-626 630-633 |
| NM. | 8 | COUGH WITH SHORT ILLNESS | Influenza Pneumonia and | в 30 | 480-483 |
| | | | bronchopneumonia Whooping cough Acute bronchitis | B 31 B 9 | 490-493 056 500 |
| NM | 9 | COUGH WITH LONG ILLNESS | Pulmonary tuberculosis Bronchitis, unqualified | В 1 | 001-008 |
| | | | and chronic Lung abscess Bronchiectasis | В 32 | 501-502 521 526, 783 |

Appendix

NM Category

Corresponding categories in:

| | | International Abbreviate | d List | Detailed International Classification |
|-------|--|---|----------------------|---|
| NM 10 | SHORTNESS OF BREATH WITH SWELLING OF LEGS | Chronic rheumatic heart disease Other diseases of heart Hypertension with heart disease | B 25 B 27 B 28 | 410-416 430-436 440-443 |
| | | Hypertension without mention of heart disease | В 29 | 444-447 522, 782 |
| NM 11 | SUDDEN DEATH (STROKE) | Vascular lesions affecting the central nervous system Arteriosclerotic and | В 22 | 330 - 334 420-422 |
| | | degenerative heart disease | В 26 | 782, 795.2 795.4 |
| NM 12 | DIFFICULTY OR PAIN IN PASSING URINE | Diseases of urinary tract Nephritis and Nephrosis Hyperplasia of prostate | | 600-609 590-594 610-612 786, 016 |
| NM 13 | YELLOW SKIN AND EYES, WITH SHORT ILLNESS | Yellow fever Acute atrophy of liver Leptospirosis | | 091 580 072 |
| NM 14 | YELLOW SKIN AND EYES WITH LONG ILLNESS | Cirrhosis of liver Cancer of liver Other diseases of liver | в 37 | 581 155-156 582-586 |
| NM 15 | LUMPS (TUMOURS) | Malignant neoplasms Benign and unspecified | B 18 | 140-205 |
| | | neoplasm Goitre Elephantiasis | В 19 | 210-239 250-254 127 |
| NM 16 | FEVER WITH SKIN ERUPTION | Smallpox Measles Typhus and other | B 13 B 14 | 084 085 |
| NM 17 | FEVER WITH HEADACHE AND | rickettsioses Tuberculous meningitis | B 15 p. B 2 | 100 - 108 010 |
| | STIFF NECK | Cerebrospinal meningitis | p. B 10 | 057 |
| | | Non-meningococcal meningitis Acute encephalitis | В 23 | 340 |
| | | and poliomyelitis | | 080-083 342-344 392-393 |

Appendix

NM Category

Corresponding categories in:

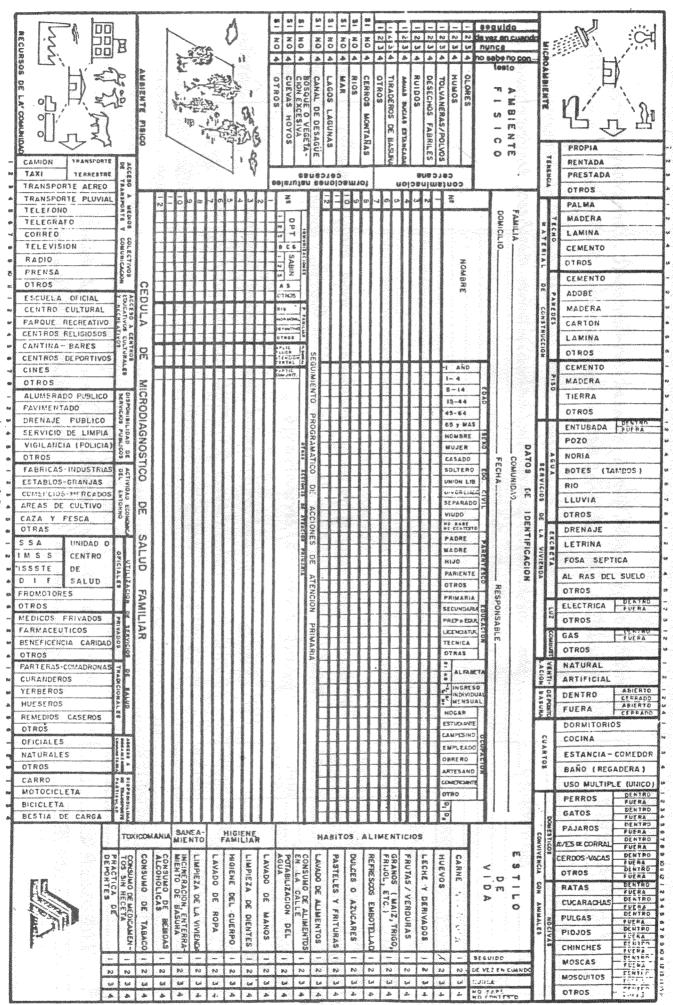
| | International Abbreviated | l List | Detailed International Classification |
|------------------------------------|--|------------------------|--|
| NM 18 FEVER WITH REPEATED ATTACKS | Malaria Relapsing fevers Brucellosis | B 16 p. B 17 | 110-117 071 044 |
| NM 19 FEVERS - OTHER (UNQUALIFIED) | Typhoid fever Rheumatic fever Trypanosomiasis All other infective and parasitic diseases | B 4 B 24 p. B 17 | 040 400-402 121 |
| NM 20 OTHER KNOWN CAUSES OF DEATH | Diabetes Mental and neurological conditions Diseases of the sensory organs Diseases of the organs of movement All other diseases | В 20 | 260 780, 300-326 690-716 720-749, 787 |
| Nh 21 UNKNOWN CAUSE | 21.1 In a newborn baby (at birth) | | |
| | Congenital malformation Birth injuries, asphyxia and atelectasis | B 41 B 42 | 750 - 759 760 - 762 |
| | Infections of newborn Immaturity | | 767-771 774-776 |
| | 21.2 In a suckling Diseases of early infancy Gastroenteritis | в 44 | 772 - 773 571.0 |
| | 21.3 In an old person | | |
| | Senility Senility | p. B 45 | 795 |
| | 21.4 In other age-group | s | 795 |

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WHO/ICD10/REV.CONF/89.8

ORIGINAL : ENGLISH

INTERNATIONAL CONFERENCE FOR THE TENTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES

Geneva, 26 September - 2 October 1989

STATUS AND DEVELOPMENT OF THE INTERNATIONAL CLASSIFICATION OF IMPAIRMENTS, DISABILITIES AND HANDICAPS

by

Unit of Development of Epidemiological and Health Statistical Services

Background

The publication of the International Classification of Impairments, Disabilities, and Handicaps (ICIDH) was approved "for trial purposes" by the World Health Assembly in 1976. The classification provides a basis for order in conceptualizing and planning activities dealing with the consequences of disease. The introduction describes a progression of consequences following a disease event: a pathological change leads to impairment of structure or function, which may lead to disability — defined as modification or loss of the individual's ability to carry out certain activities; the disability may interact with the environment of an individual in such a way as to reduce the capacity to fulfil the role expected of this individual, thus creating a handicap.

ICIDH was published in English by WHO in 1980. The Classification and its introduction have been or are being translated into a dozen languages (see Annex 1). Its presentation of the basic consequences of disease has triggered major changes in attitude and practice among those working in the field of disablement, including policy makers, insurance organizations, staff working in patient care and rehabilitation, and organizations representing and concerned with people with disabilities.

Research and development on the ICIDH

This has followed a number of paths:

1. Definitions

All three major definitions have undoubtedly been instrumental in changing attitudes to disablement. The definition of impairment, an area where there is considerable overlap with the terms included in the International Classification of Diseases (ICD), has been widely accepted. The definition of disability broadly matches the field of action of rehabilitation professionals and groups, although the associated D-code is felt to pay insufficient attention to the gradation of severity, which is often a predictor of handicap. Problems of grading and problems of boundaries with handicap and impairment are felt to be particularly severe in the field of mental disability. Expressing a view which is more than mere semantics, several authors have suggested that the definitions of disability rely more on the

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(residual) abilities of patients, in other words on what people can do rather than on what they cannot do. There is an increasingly expressed wish to revise the definition of handicap so as to put more emphasis on the effect of the environment, since handicaps result from factors in the environment which affect particularly those with disabilities, and the classification should deal as much with those factors as with characteristics of the individual.

2. Surveys

Population surveys using instruments compatible with the I- and D-codes have been used in several countries. Specialist surveys loosely based on the ICIDH have also been carried out, most notably in the field of mental health. The ICIDH has generally felt to be a useful and practical instrument in these surveys, although it has required ad hoc adaptation. Unfortunately, there have been a number of surveys in which the designers departed extensively from the ICIDH, and these have been quoted subsequently as examples of the unsuitability of the classification for survey purposes.

The United Nations Statistical Office has established a data base which pools data from over 60 countries, and has organized or reorganized the presentation of these data on the basis of the ICIDH. This provides a starting point for national surveys and will hopefully further encourage the sensible use of the ICIDH in this field.

3. Patient registration and rehabilitation

The ICIDH has been used as the basis for assessment of status and progress by rehabilitation professionals in several fields and many countries, including developing countries from South America and Asia and its usefulness in this area is increasingly appreciated. The availability of a standard approach has also attracted those involved with insurance assessment, and derivatives of the ICIDH are in use in at least three countries as the basis for comparison of insurance claims assessment.

The chief deficit felt by those who have used the ICIDH in the above areas is that of available gradings. Another difficulty is that of the suitability of ICIDH for use by health personnel in developing countries; a shortened or simplified version may have to be envisaged.

4. Policy formulation

The conceptual basis of ICIDH has positively affected the development of policies relating to disablement in the Netherlands, the Federal Republic of Germany, Quebec (Canada) and France. This often arose because high quality data based on the classification were available. In Quebec, the policies for the disabled have been very largely influenced by the Office des Personnes Handicapées, which has taken the concepts of the ICIDH as the basis of many of its policy decisions. In France, an official nomenclature of impairments, disabilities and handicaps (Nomenclature des déficiences, incapacités, désavantages), very closely based on the ICIDH, was issued on 4 May 1988 by the Ministère des Affaires sociales et de l'emploi, for use in studies and statistical work.

One particularly interesting development with implications for the assessment of progress towards the goals of Health for All has been the increasing interest in the measurement of life expectancy free from disability (LEFD), which provides a more qualitative approach to the measurement of life expectancy. The measurement of LEFD makes considerable use of the ICIDH in defining disability values.

ICIDH and the ICD

The Tenth Revision of the ICD has been formulated in such a way as to enable the development of a family of classifications. As the only classification concerned with consequences of disease and its impact on everyday life rather than with the disease itself or its etiology, the ICIDH is an important part of the family, and it is necessary to maintain some sort of common ground between the ICIDH and the ICD to simplify the parallel use of the two classifications. There is some concordance between the ICD and the I-code of the ICIDH, and the possibility has been considered of doing away with the I-code and using the ICD instead. This is unlikely, however, since the ICIDH considers functions first and foremost, a topic which is little considered by the ICD. There is also some overlap between the ICD and parts of the Disability code, but the dimension of severity, which is central to the D-code, is generally absent in the ICD.

Future developments

Some of the main areas in which work will be needed are the relationship of ICIDH items to ICD, the continuing application of ICIDH in mental health, and the development of ICIDH application to developing countries. As regards the latter point, there are encouraging signs that the ICIDH is being investigated and recognized as a practical tool in the American Region (Venezuela, Cuba) and in Pakistan, but, as stated earlier, the current format of ICIDH may require further adaptation.

Work is in progress on the ICIDH in several countries, and has been reviewed at several international meetings in recent years. A collaborating centre has been established in the Netherlands, and others are under way. These centres will share with each other and with WHO the results of their work, and will at the same time assist the coordination of work within their respective countries. The Office des Personnes handicapées du Québec has in recent years paid particular attention to work on definitions of handicap which take into account the role of physical and social environment; this important development should affect future revisions of ICIDH. The recent publication of a French version of ICIDH has renewed interest in a version of the introduction to ICIDH adapted for the general public; this would allow for a wider dissemination of its concepts to the general public, including persons with disabilities. Such a version should be considered by WHO together with the various centres involved.

The ICIDH is increasingly recognized as the classification which provides a common information base for complex and multisectoral activities in the field of disablement. It is likely that the impairments code will remain essentially unchanged in format. From the experiences of the groups that have used it, the Disabilities code needs a fairly major revision. Handicap is so much determined by culture that any attempt to achieve comparability of coding of handicap between cultures is very problematic. However, the demands from organizations of the disabled to give greater emphasis to environmental influences in the H-code suggests that there is need for such a classification; the reformulation of this classification will require extensive consultation with such organizations and with policy makers.

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An ongoing bibliography of uses of ICIDH has been established by the Netherlands Collaborating Centres and should serve as a primary reference on the uses of ICIDH.

The rate of evolution of ideas and practices in the management of disablement has ruled out the production of a revised ICIDH in time to be submitted to the Revision Conference. At the same time, these changes demand a more flexible coding which takes into account the ICD but which is not governed by it. A definitive revision is therefore unlikely to be issued before 1993.

Versions of ICIDH known to DES

Chinese

[International classification of impairments, disabilities and handicaps], Beijing: People's Health Publication House, issed by Beijing Booksellers 1987. 300 pp.

Czech

Mezinárodní klasificace poruch disaptibility a handicapu. Bratislava (Limbova ul., 5 83305) 1984. 144 pp. Issued as <u>Rehabilitácia</u>, 1984, <u>17</u> (suppl 28).

Dutch

Internationale classificatie van stoornissen, beperkingen en handicaps 1980. Voorburg: Raad voor gezondheidsresearch, Prinses Beatrixlaan 428 Postbus 959 2270AZ, 1981. 156 pp (introduction to the English-language version omitted).

French

Classification internationale des handicaps : déficiences, incapacités et désavantages. Paris : INSERM/CTNERHI/OMS (diffusion PUF) 1988. 203 pp.

<u>Italian</u>

Classificazione internazionale delle menomazioni, disabilità, e delle svantaggi esistenziali. Milano (Centro lombardo per l'educazione sanitaria, via P Pancrazi 12) 1983. 200 pp (introduction to the English-language version omitted).

<u>Japanese</u>

[International classification of impairments, disabilities and handicaps]. Tokyo (Statistics and Information Department of the Ministry of Health and Welfare) 1984. 373 pp (includes text in English and in Japanese).

Russian

Mezdunarodnaja klassifikacija naruseniij snizenija trudosposobnosti i social'noj nedostatocnosti. Moscow (Ministry of Public Health, USSR (Semasko Institute, ul Obukha 12) 1982. 187 pp.

Serbocroatian

Meduradnodna klasifikacija ostecenja, invaliditeta i hendikepa. Zagreb (Ministry of Health, Republic of Croatia) 1986. 163 pp.

Spanish

Clasificación internacional de deficiencias, discapacidades y minusvalías. Madrid (Instituto nacional de servicios sociales, calle Maria de Guzmán 52, Madrid-3), 1983. 281 pp.

A German and a Portuguese version are expected in 1989/1990. Other language versions are under consideration.

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SPECIAL TABULATION LISTS FOR ICD-10

Introduction

The WHO mortality data bank receives information from countries at varying levels of aggregation. Some provide the full three-digit or even four-digit detail, while others report only at the level of the Basic Tabulation List (BTL). Data are only retained in the data bank however at the level of the BTL. The BTL, which was introduced at ICD-9, had been intended to provide a basic list for international reporting while allowing a certain flexibility at the national level. However, in practice, the absence of residual categories caused difficulties in data processing, while the inclusion of items from the four-digit subcategory level of ICD-9 meant that the list could not be used by countries which did not code to that level. Flexibility was lost when the BTL was published with an alphabetical index which included codes for residual items that did not appear in the list. As a result of these problems international comparability was affected and countries did not receive sufficient guidance in the development of national lists. Moreover, the BTL did not easily facilitate the assessment of leading causes of death. This has become increasingly important for Member States in the evaluation of their national health for all strategies. In order to overcome these difficulties the special tabulation lists were reviewed and discussed at several meetings of Heads of WHO Collaborating Centres for Classification of Diseases and two consultations on short lists were convened by WHO.

Mortality tablulation lists

A Consultation on Short Lists for ICD-10 was held in Geneva from 16 to 20 November 1987 (WHO/DES/EC/ICD-10/87.34). This group drafted a general mortality short list of 77 items and an infant mortality short list of 54 items, but had insufficient time to develop recommendations for morbidity short lists.

In drafting the two mortality short lists the consultation considered that bearing in mind the criteria of frequency, gravity, cost to the community and special interest in public health previously established by the Centre Heads, the lists should include those diseases which are the subject of international prevention programmes and which are important for health situation assessment (including the determination of leading causes), the planning and management of health services, surveillance and research. This includes the diseases which are covered by the International Health Regulations, other diseases under international surveillance, and the target diseases of the WHO Expanded Programme on Immunization.

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The consultation strongly recommended that WHO should establish and maintain a mortality data bank for ICD-10 at the three-character level. This recommendation follows logically from the requirement that countries use ICD, at least at the core classification level. Most countries currently reporting data to WHO are already doing so at this level of detail. Others may be encouraged to do so by having WHO set this level as a target. The storage and retrieval of data at the three-character level would also greatly enhance the utility of the WHO data bank by avoiding serious losses of information resulting from grouping rubrics which cannot be subsequently separated.

The consultation also recommended: that the Mortality Short list and the Infant Mortality Short list be used as reporting lists for those countries unable to submit data at the three-character level and by WHO and the United Nations as the basis for the publication of mortality data by cause.

The general mortality short list was evaluated by WHO in terms of the coverage of the specific items in the list and the results were discussed by the Centre Heads in June 1988. The Centre Heads then made a number of recommendations for amendment to the list and the resultant list was further evaluated by WHO. On the basis of this evaluation a further revision of the list was submitted to the Centre Heads when they met again in February 1989.

In order to make the list more meaningful it was proposed by the Centre Heads that the chapter titles should be included in the lists as well as residual items for chapters where necessary.

In reviewing the infant mortality list the Centre Heads questioned whether it would be preferable to have a list that was suitable for deaths up to the age of five years, with the addition of accidents and other causes relevant to that age-group, in view of the fact that mortality up to age five was a more robust indicator than infant mortality.

In order to facilitate the meaningful ranking of leading causes of death the mortality short lists as proposed contain two distinct types of residual groups of diseases. Homogeneous groups to be included as leading causes of death are labelled "Other ...", while groups containing widely disparate conditions are labelled "Remainder of ..." or "All other ...". It is recommended that those tabulating leading causes of death should do so from the items as defined in the general mortality short list of 75 causes (Annex A) with the exception of those items labelled "Remainder of ..." or "All other ...".

It is proposed that ICD-10 should contain detailed guidance on the derivation of leading causes of death and on the adaptation and extension of the tabulation lists for national purposes.

Morbidity Tabulation Lists

A Consultation on Morbidity Short lists for ICD-10 (DES/ICD/C/89.36) was held in Geneva from 7 to 11 November 1988. The consultation recommended two lists, a short tabulation list using an approach similar to that of the ICD-9 Basic Tabulation List and an intermediate list showing 298 causes. Both these lists were based on the dagger axis of classification.

The short tabulation list included chapter titles and identified certain specific conditions or groups of conditions within the chapters containing a total of 65 entries. The intermediate list was seen as a basis for national lists and for intercountry comparisons. The Centre Heads at their meeting in February 1989 recommended that to be useful the intermediate list should also include the chapter titles and to ensure flexibility it should be unnumbered.

Six tabulation lists are proposed as follows:

- GENERAL MORTALITY SHORT LIST (Annex A) 75 causes
- MORTALITY TABULATION SHORT LIST (Annex B)
 100 causes
 - GENERAL INFANT AND CHILD MORTALITY SHORT LIST (Annex C) 50 causes
- INFANT AND CHILD MORTALITY TABULATION SHORT LIST (Annex D) 66 causes
 - SHORT TABULATION LIST FOR MORBIDITY (Annex E) this list includes 19 chapter titles (external causes are excluded and diseases of the eye and ear form a single group) and 51 detailed items.
 - INTERMEDIATE TABULATION LIST FOR MORBIDITY (Annex F) this list includes the 19 chapter titles (as above) and 298 detailed items.

GENERAL MORTALITY SHORT LIST

```
Cholera
                                                             A00
    Diarrhoea and gastroenteritis of presumed infectious
                                                             A09
    Other intestinal infectious diseases
                                                             A01-A08
   Respiratory tuberculosis
                                                             A15-A16
5.
   Other tuberculosis
                                                             A17-A19
6. Plague
                                                             A20
7. Tetanus
                                                             A33-A35
8. Diphtheria
                                                             A36
   Whooping cough
                                                             A37
10. Meningococcal infection
                                                             A39
11. Septicaemia
                                                             A40-A41
12. Infections with a predominantly sexual mode of
                                                             A50-A64
      transmission
13. Acute poliomyelitis
                                                             A80
14. Yellow fever
                                                             A95
15. Other anthropod-borne viral haemorrhagic fevers
                                                             A90-A94, A96-A99
16. Measles
                                                             B05
17. Viral hepatitis
                                                             B15-B19
18. Human immunodeficiency virus [HIV] disease
                                                             B20-B24
19. Malaria
                                                             B50-B54
20. Leishmaniasis
                                                             B55
21. Trypanosomiasis
                                                             B56-B57
22. Schistosomiasis
                                                             B65
23. Remainder of certain infectious and parasitic
                                                             A21-A32, A38, A42-A49,
      diseases
                                                             A65-A79, A81-A89, B00-B04
                                                             B06-B09, B25-B49, B58-B64
                                                             B66-B99
24. Malignant neoplasm of lip, oral cavity and pharynx
                                                             C00-C14
25. Malignant neoplasm of oesophagus
                                                             C15
26. Malignant neoplasm of stomach
                                                             C16
27. Malignant neoplasm of colon, rectum and anus
                                                             C18-C21
28. Malignant neoplasm of liver and intrahepatic bile
                                                             C22
29. Malignant neoplasm of pancreas
                                                             C25
30. Malignant neoplasm of larynx
                                                             C32
31. Malignant neoplasm of trachea, bronchus and lung
                                                             C33-C34
32. Malignant neoplasm of breast
                                                             C50
33. Malignant neoplasm of cervix uteri
                                                             C53
34. Malignant neoplasm of other and unspecified parts
                                                             C54-C55
      of uterus
35. Malignant neoplasm of ovary
                                                             C56
36. Malignant neoplasm of prostate
                                                             C61
37. Malignant neoplasm of bladder
                                                             C67
38. Malignant neoplasm of meninges, brain and other
                                                             C70-C72
      parts of nervous system
39. Non-Hodgkin's lymphoma
                                                             C82-C85
40. Leukaemias
                                                             C91-C95
41. Remainder of malignant neoplasms
                                                             C17, C23-C24, C26-C31,
                                                             C37-C49, C51-C52, C57-C60
                                                             C62-C66, C68-C69, C73-C81,
                                                             C88-C90, C96-C97
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42. Anaemias
                                                             D50-D64
43. Diabetes mellitus
                                                             E10-E14
44. Malnutrition
                                                             E40-E46
45. Mental and behavioural disorders due to
                                                             F10-F19
      pyschoactive and other substance use
46. Meningitis
                                                             G00, G03
47. Acute rheumatic fever and chronic rheumatic
                                                             100-109
     heart disease
48. Hypertensive disease
                                                             I10-I15
49. Ischaemic heart disease
                                                             120-125
50. Other heart disease
                                                             126-151
51. Cerebrovascular diseases
                                                             160-169
                                                             170-199
52. Remainder of diseases of the circulatory system
53. Influenza
                                                             J12-J13
54. Pneumonia
                                                             J14-J20
55. Other acute lower respiratory infections
                                                             J10-J11, J21
56. Chronic lower respiratory diseases
                                                             J40-J47
57. Remainder of diseases of the respiratory system
                                                             J00-J06, J30-J39, J60-J98
58. Gastric and duodenal ulcer
                                                             K25-K27
59. Diseases of liver
                                                             K70-K76
60. Glomerular and renal tubulo-interstitial diseases
                                                             N00-N15
61. Pregnancy with abortive outcome
                                                             000-008
62. Other direct obstetric deaths
                                                             010-092
63. Indirect obstetric deaths
                                                             098-099
64. Certain conditions originating in the perinatal
                                                             P00-P95
      period
65. Congenital malformations, deformations and
                                                             Q00-Q99
      chromosomal
66. Symptoms, signs and abnormal clinical and
                                                             R00-R99
     laboratory findings NEC
67. All other diseases
                                                             D00-D48, D65-D89, E00-E07
                                                             E20-E35, E50-E90, F01-F09
                                                             F20-F99, G04-G99, H00-H95,
                                                             K00-K22, K27-K66, K80-K92,
                                                             LOO-L98, MOO-M99, N17-N99,
                                                             095-099, S00-T98
68. Transport accidents
                                                             V00-V99
69. Falls
                                                             W00-W19
70. Accidental drowning and submersion
                                                             W65-W74
71. Exposure to smoke, fire and flames
                                                             X00-X09
72. Exposure to forces of nature
                                                             X30-X39
73. Accidental poisoning by and exposure to noxious
                                                             X40-X49
      substances
74: Assault
                                                             X85-Y09
75. All other external causes
                                                             W20-W64, W75-W99, X10-X29,
                                                             X50-X84, Y10-Y89
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MORTALITY TABULATION SHORT LIST

```
1.
   CERTAIN INFECTIOUS AND PARASITIC DISEASES
                                                           A00-B99
2.
    Cholera
                                                           A00
3.
    Diarrhoea and gastroenteritis of presumed infectious A09
4.
    Other intestinal infectious diseases
5.
   Respiratory tuberculosis
                                                           A15-A16
   Other tuberculosis
                                                           A17-A19
6.
7. Plague
                                                           A20
8.
   Tetanus
                                                           A33-A35
   Diphtheria
                                                           A36
10. Whooping cough
                                                           A37
11. Meningococcal infection
                                                           A39
12. Septicaemia
                                                           A40-A41
13. Infections with a predominantly sexual mode of
                                                           A50-A64
      transmission
14. Acute poliomyelitis
                                                           A80
15. Yellow fever
                                                           A95
16. Other anthropod-borne viral haemorrhagic fevers
                                                           A90-A94, A96-A99
17. Measles
                                                           B<sub>0</sub>5
18 Viral hepatitis
                                                           B15-B19
19. Human immunodeficiency virus [HIV] disease
                                                           B20-B24
20. Malaria
                                                           B50-B54
21. Leishmaniasis
                                                           B55
22. Trypanosomiasis
                                                           B56-B57
23. Schistosomiasis
                                                           B65
24. Remainder of certain infectious and parasitic
                                                           A21-A32, A38, A42-A49
      diseases
                                                           A65-A79, A81-A89, B00-B04,
                                                           B06-B09, B25-B49, B58-B64,
                                                           B66-B99
25. NEOPLASMS
                                                           C00-D48
26. Malignant neoplasm of lip, oral cavity and pharynx
                                                           C00-C14
27. Malignant neoplasm of oesophagus
                                                           C15
28. Malignant neoplasm of stomach
                                                           C16
29. Malignant neoplasm of colon, rectum and anus
                                                           C18-C21
30. Malignant neoplasm of liver and intrahepatic bile
                                                           C22
31. Malignant neoplasm of pancreas
                                                           C25
32. Malignant neoplasm of larynx
                                                           C32
33. Malignant neoplasm of trachea, bronchus and lung
                                                           C33-C34
34. Malignant neoplasm of breast
                                                           C50
35. Malignant neoplasm of cervix uteri
                                                           C53
36. Malignant neoplasm of other and unspecified parts
                                                           C54-C55
      of uterus
37. Malignant neoplasm of ovary
                                                           C56
38. Malignant neoplasm of prostate
                                                          C61
39. Malignant neoplasm of bladder
                                                           C67
40. Malignant neoplasm of meninges, brain and other
                                                           C70-C72
      parts of nervous system
41. Non-Hodgkin's lymphoma
                                                           C82-C85
42. Leukaemias
                                                           C91-C95
43. Remainder of malignant neoplasms
                                                           C17, C23-C24, C26-C31,
                                                          C37-C49, C51-C52, C57-C60
                                                           C62-C66, C68-C69, C73-C81,
                                                          C88-C90, C96-C97
```

| 44 | | | | |
|---|---|---|----------------------|---------|
| | Remainder of neoplasms | D00-D48 | * | |
| | DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS AND | D50-D89 | | |
| 75. | CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM | D 50 D 05 | | |
| | | 250 261 | | |
| | Anaemias | D50-D64 | | |
| 47. | Remainder of diseases of the blood and blood-forming | D65-D89 | | |
| | organs and certain disorders involving the | | • | |
| | immune mechanism | | | |
| 4.0 | | PAA. PAA | | |
| | ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES | E00-E89 | | |
| 49. | Diabetes mellitus | E10-E14 | | |
| 50. | Malnutrition | E40-E46 | | |
| 51 | Remainder of endocrine, nutritional and metabolic | E00-E07 | E15-E34, | . * |
| | diseases | E50-E8 | | |
| | | | 2 | |
| | MENTAL AND BEHAVIOURAL DISORDERS | F01-F99 | *** | |
| 53. | Mental and behavioural disorders due to | F10-F19 | | |
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| 95. | Accidental drowning and submersion | W65-W74 |
| 96. | Exposure to smoke, fire and flames | X00-X09 |
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| Other structures of teeth and supporting | K00-K01, K03-K08 |
| structures | ROU-ROI, ROS-ROU |
| Other diseases of the oral cavity, salivary | K09-K14 |
| glands and jaws | |
| Gastric and duodenal ulcer | K25-K27 |
| Gastritis and duodenitis | K29 |
| Other diseases of oesophagus, stomach and | K20-K22, K28, K30-K31 |
| duodenum | |
| Diseases of appendix | K35-K38 |
| Inguinal hernia | K40 |
| Other hernia | K41-K46 |
| Crohn's disease [regional enteritis] and | K50-K51 |
| ulcerative colitis | |
| Paralytic ileus and intestinal obstruction | K56 |
| without hernia | |
| Diverticular disease of intestine | K57 |
| Other diseases of intestines and peritoneum | K52-K55, K58-K63, K65-K66 |
| Alcoholic liver disease | K70 |
| Other diseases of the liver | K71-K76 |
| Cholelithiasis and cholecystitis | K80-K81 |
| Acute pancreatitis and other diseases | K85-K86 |
| of the pancreas | K05-K00 |
| Other diseases of the digestive system | K82-K83, K90-K92 |
| | , |
| L. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE | L00-L98 |
| Infections of the skin and subcutaneous tissue | L00-L08 |
| Other diseases of the skin and subcutaneous | L10-L98 |
| tissue | |

| М. | DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE Rheumatoid arthritis and other | M00-M99 M05-M13 |
|----|---|---------------------------------------|
| | inflammatory polarthropathies | |
| | Arthrosis | M15-M19 |
| | Acquired deformities of limbs | M20-M21 |
| | Other disorders of joints | MOO-MO2, M22-M25 |
| | Systemic connective tissue disorders | M30-M35 |
| | Cervical, lumbar and other disc disorders | M50-M51 |
| | Other dorsopathies | M40-M48, M53-M54 |
| | Soft tissue disorders | M60-M79 |
| | Disorders of bone density and structure | M80-M85 |
| | Osteomyelitis | M86 |
| | Other diseases of the musculoskeletal system | M87-M99 |
| | and connective tissue | |
| N. | DISEASES OF THE GENITOURINARY SYSTEM | NOO-N99 |
| | Acute and rapidly progressive nephritic syndromes | NOO-NO1 |
| | Other glomerular diseases | NO2-NO7 |
| | Renal tubulo-interstitial diseases | N10-N15 |
| | Renal failure | N17-N19 |
| | Urolithiasis | N20-N23 |
| | Cystitis | N30 |
| | Other diseases of the urinary system | N25-N28, N31-N39 |
| | Other diseases of the diffially system | N23-N26, N31-N39 |
| | Hyperplasia of prostate | N40 |
| | Other disorders of prostate | N41-N42 |
| | Hydrocele and spermatocele | N43 |
| | Redundant prepuce, phimosis and paraphimosis | N48 |
| | Other diseases of male genital organs | N44-N47, N49-N50 |
| | Disorders of the breast | N60-N64 |
| | Salpingitis and oophoritis | N70 |
| | Inflammatory disease of cervix | N72 |
| | Other inflammatory diseases of female pelvic | N71, N73-N76 |
| | organs | 1, 1, 1, 5 |
| | Endometriosis | N80 |
| | Female genital prolaps | N81 |
| | Noninflammatory disorders of ovary, fallopian | N83 |
| | tube and broad ligament | NO1 NO0 |
| | Disorders of menstruation | N91-N92 |
| | Menopausal and other perimenopausal disorders | N95 |
| | Female infertility | N97 |
| | Other noninflammatory disorders of female genital tract | N82, N84-N90, N93-N94 N96, N98-N99 |
| 0. | PREGNANCY, CHILDBIRTH AND THE PUERPERIUM | 000-099 |
| υ. | | 003 |
| | Spontaneous abortion | 004 |
| | Medical abortion | |
| | Other pregnancies with abortive outcome | 000-002, 005-008 |
| | Oedema, proteinaria and hypertensive disorders | 010-016 |
| | in pregnancy, childbirth and the puerperium | 020 0/2 0/7 0/6 |
| | Other maternal care related to fetus and amniotic | 030-043, 047-048 |
| | cavity and possible delivery problems | 011 015 |
| | Placenta praevia, premature separation of placenta | 044-046 |
| | [abruptio placentae] and antepartum haemorrhage | |
| | Obstructed labour | 064-066 |
| | Postpartum haemorrhage | 072 |
| | Other complications of pregnancy and delivery | 020-029, 060-063, 067-071 |
| | | 073-075 |

| | Single spontaneous delivery | 080 |
|----|--|--|
| | Complications predominantly related to the puerperium | 085-092 |
| Ρ. | CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD | P00-P95 |
| | Fetus or newborn affected by maternal factors and | |
| | by complications of pregnancy, labour and | |
| | delivery Slow fetal growth, fetal malnutrition and | P05-P07 |
| • | disorders related to short gestation and | 103 10, |
| | unspecified low birthweight | |
| | Birth trauma | P10-P15 P20-P21 |
| | Intrauterine hypoxia and birth asphyxia Other respiratory disorders in the newborn | P22-P28 |
| | originating in the perinatal period | |
| | Congenital infectious and parasitic diseases | P35-P37 |
| | Other infections specific to the perinatal period Haemolytic disease of fetus or newborn | P38-P39 P55 |
| | | P08, P29, P50-P54 |
| | perinatal period | P56-P95 |
| | | |
| Q. | CONGENITAL MALFORMATIONS, DEFORMITIES AND CHROMOSOMAL ABNORMALITIES | Q00-Q99 |
| | Spina bifida | 005 |
| | Other congenital malformations of the nervous | Q00-Q04, Q06-Q07 |
| | system | 000 000 |
| | Congenital malformations of the circulatory system Cleft palate and cleft lip | Q20-Q28 Q35-Q37 |
| | Absence, atresia and stenosis of small intestine | Q41 |
| | Other congenital malformations of the | Q38-Q40, Q42-Q45 |
| | digestive system | 052 |
| | Undescended testicle Other malformations of the genito-urinary system | Q53 Q50-Q52, Q54-Q64 |
| | Congenital deformities of hip | Q65 |
| | Congenital deformities of feet | Q66 |
| | Other congenital malformations and deformations of | Q67-Q79 |
| | the musculoskeletal system Other congenital malformations | Q80-Q89 |
| | Chromosomal abnormalities not elsewhere classified | |
| R. | SYMPTOMS, SIGNS AND ABNROMAL CLINICAL AND LABORATORY | R00-R99 |
| | FINDINGS NOT ELSEWHERE CLASSIFIED Abdominal and pelvic pain | R10 |
| | Fever of unknown origin | R50 |
| | Senility, unspecified | R54 |
| | Other symptoms, signs and abnormal clinical and | R00-R09, R11-R49 R51-R53, R55-R99 |
| | laboratory findings not elsewhere classified | KJI-KJS, KJS-K99 |
| S. | INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES | S00-T98 |
| | Fractures of specified and multiple body regions | SO2, S12, S22, S32, |
| | | \$42, \$52, \$62, \$72, \$82, \$92, TO2, TO7, |
| | and the commence of the commen | T08 |
| | Fracture of skull and facial bones | S02 |
| | Fracture of neck, thorax and pelvis | S12, S22, S32, T07 |
| | Fracture of femur | S72 |
| | | |
| | | |
| | | |
| | | |
| | — 184 — | |
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- Other fractures of limb
                                                              S42, S52, S62, S82
                                                              S92, T08
         Dislocations, sprains and strains of specified
                                                              S03, S13, S23, S33, S43,
           and multiple body regions
                                                              $53, $63, $73, $83, $93.
                                                              T03
         Injury of eye and orbit
                                                              S05
         Intracranial injury
                                                              S06
                                                              $26-$27, $36-$38
$07-$08, $17-$18, $28
         Injury of internal organs
         Crushing injuries and traumatic amputations of
           specified and multiple body regions
                                                              S38, S47-S48, S57-S58
                                                              $67-$68, $77-$78, $87-$88
                                                              S97-S98, T04, T05
         Superficial injury, open wound and other and
                                                              S00-S01, S09, S10-S11,
           unspecified injuries of specified and
                                                              S14-S16, S19, S20-S21,
           multiple body regions
                                                              S24-S25, S29, S30-S31
                                                              S33-S35, S39, S40-S41,
                                                              S44-S46, S49, S50-S51,
                                                              $54-$56, $59, $60-$61,
                                                              S64-S66, S69, S70-S71,
                                                              $74-$76, $79, $80-$81,
                                                              S84-S86, S89, S90-S91,
                                                              S94-S96, S99, T00-T01,
                                                              T06, T09-T11
         Effects of foreign body entering through
                                                              T12-T19
           natural orifice
         Burns and corrosions
                                                             T20-T32
         Poisoning by drugs and biological substances
                                                             T36-T50
         Toxic effects of substances chiefly nonmedicinal
                                                             T51-T65
           as to source
         Maltreatment syndromes
                                                             T74
         Other and unspecified effects of external causes
                                                             T66-T73, T75-T78
         Early complication of trauma and complication of
                                                             T79, T80-T88
           surgical and medical care of injuries and
           poisonings
         Other consequences of external causes
                                                             T90-T98
Z.
     FACTORS INFLUENCING HEALTH STATUS AND CONTACT WITH
                                                             Z00-Z98
       HEALTH SERVICES
         Persons encountering health services
                                                             Z00-Z13
           for examination and investigation
         Asymptomatic human immunodeficiency virus [HIV]
                                                             Z21
           seropositive status
         Other persons with potential health hazards
                                                             Z20, Z22-Z29
           related to communicable disease
         Contraceptive management
                                                             230
         Supervision of pregnancy and antenatal screening
                                                             Z34-Z36
         Liveborn infants according to type of birth
                                                             Z38
         Postpartum care and examination
                                                             Z39
         Persons encountering health services for specific
                                                             Z40-Z53
           procedures and aftercare
         Persons encountering health services for other
                                                             Z31-Z33, Z37, Z55-Z98
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DISTR.: LIMITED DISTR.: LIMITEE

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ORIGINAL: ENGLISH

INTERNATIONAL CONFERENCE FOR THE TENTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES

Geneva, 26 September - 2 October 1989

MORPHOLOGY OF NEOPLASMS

The World Health Organization has published a revised adaptation of the International Classification of Diseases for Oncology (ICD-0), Second Edition. It contains a coded nomenclature for the morphology of neoplasms, introducing some new morphologic entities that have come into existence since the 1976 ICD-0 was published. The preferred morphologies (first term) are reproduced here for those who wish to use them in conjunction with Chapter II of the International Classification of Diseases.

The morphology code numbers consist of six digits: the first four identify the histologic type of the neoplasm, the fifth indicates its behaviour and the sixth indicates grading and differentiation and for lymphomas or leukaemias the presence of T or B cells.

The one digit behaviour code is as follows:

- /O Benign
- /1 Uncertain whether benign or malignant
 Borderline malignancy (except cystadenomas in the histology range
 844-849)
 Low malignant potential (except cystadenomas in the histology range
 844-849)
- /2 Carcinoma in situ
 Intraepithelial
 Noninfiltrating
 Noninvasive
- /3 Malignant, primary site
- /6 Malignant, metastatic site
 Malignant, secondary site
- /9 Malignant, uncertain whether primary or metastatic site

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The one digit grading or differentiation code for all malignant neoplasms follows. The presence of T or B cells for leukaemias and lymphomas is also identified.

| 1 | Grade I | Well differentiated Differentiated, NOS |
|---|--------------------------------|---|
| 2 | Grade II | Moderately differentiated Moderately well differentiated Intermediate differentiation |
| 3 | Grade III | Poorly differentiated |
| 4 | Grade IV | Undifferentiated Anaplastic |
| 5 | T-cell | |
| 6 | B-cell Pre-B B-precursor |) and there's Property Character. |
| 7 | Null cell Non T-non B |) For leukaemias |

Grade or differentiation not determined, not stated or not applicable Cell type not determined, not stated or not applicable

In the nomenclature below the morphology code numbers include the usual behaviour co appropriate to the histological type of neoplasm, but this behaviour code can be changed other reported information makes this necessary. This is the basis of the "matrix" syst as reported in the introduction of ICD-O. For example, "chordoma (M9370/3)" is assumed be malignant. If the term "benign chordoma" is diagnosed, this should be coded M9370/0. Similarly "papillary adenocarcinoma (M8260/3)" described as "in situ" should be coded M8260/2.

The following table shows the correspondence between the behaviour code and the different sections of Chapter II.

| Morpholog Behavio | our | | ICD C | hapter II |
|----------------------|-----|--|--------|---|
| /0 | | n en | 10 D36 | Benign neoplasms |
| /0 | | | | Topeuran reobtasus |
| /1 | | D. | 37-D47 | Neoplasms of uncertain and unknown behaviour |
| /2 | | D | 00-D09 | In situ neoplasms |
| /3 | | | | Malignant neoplasms, |
| | | C | 80-C96 | stated or presumed to be primary |
| /6 | | C | 77-C79 | Malignant neoplasms, stated or presumed to be secondary |

The ICD-O behaviour digit /9 is not applicable in an ICD context, since all malignant neoplasms are presumed to be either primary (/3) or secondary (/6).

Only the first-listed term of the complete ICD-O morphology nomenclature appears against each code number in the list below. The ICD Alphabetical Index (Volume 2), however, includes all the ICD-O synonyms as well as a number of other morphological names still likely to be encountered on medical records but omitted from ICD-O as outdated or otherwise undesirable.

A coding difficulty sometimes arises when a morphological diagnosis contains two qualifying adjectives that have different four digit histology code numbers. An example is "transitional cell epidermoid carcinoma". "Transitional cell carcinoma, NOS" is M8120/3 and "epidermoid carcinoma, NOS" is M8070/3. In such circumstances, the higher code number (M8120/3 in this example) should be used, as it is usually more specific. For other information about the coding of morphology see pages _______.

```
NEOPLASMS, NOS
M800
M8000/0
          Neoplasm, benign
          Neoplasm, uncertain whether benign or malignant
M8000/1
M8000/3
          Neoplasm, malignant
M8000/6
          Neoplasm, metastatic
          Neoplasm, malignant, uncertain whether primary or
M8000/9
           metastatic
M8001/0
          Tumor cells, benign
          Tumor cells, uncertain whether benign or malignant
M8001/1
M8001/3
          Tumor cells, malignant
M8002/3
          Malignant tumor, small cell type
M8003/3
          Malignant tumor, giant cell type
M8004/3
          Malignant tumor, fusiform cell type
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M801-M804 EPITHELIAL NEOPLASMS, NOS

```
M8010/0
          Epithelial tumor, benign
M8010/2
          Carcinoma in situ, NOS
M8010/3
          Carcinoma, NOS
M8010/6
          Carcinoma, metastatic, NOS
M8010/9
          Carcinomatosis
M8011/0
          Epithelioma, benign
M8011/3
          Epithelioma, malignant
M8012/3
          Large cell carcinoma, NOS
M8020/3
          Carcinoma, undifferentiated, NOS
M8021/3
          Carcinoma, anaplastic, NOS
M8022/3
          Pleomorphic carcinoma
          Giant cell and spindle cell carcinoma
M8030/3
M8031/3
          Giant cell carcinoma
          Spindle cell carcinoma
M8032/3
M8033/3
          Pseudosarcomatous carcinoma
M8034/3
          Polygonal cell carcinoma
M8040/1
          Tumorlet
M8041/3
          Small cell carcinoma, NOS
```

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page 4
        M8042/3
                Oat cell carcinoma
        M8043/3
                Small cell carcinoma, fusiform cell
        M8044/3
                Small cell carcinoma, intermediate cell
                Small cell-large cell carcinoma
        M8045/3
        M805-M808 SQUAMOUS CELL NEOPLASMS
        M8050/0 Papilloma, NOS (except Papilloma of urinary bladder
                n-ol2U/1)
Papillary carcinoma in situ
        M8050/2
        M8050/3
                Papillary carcinoma, NOS
        M8051/0
                Verrucous papilloma
                Verrucous carcinoma, NOS
        M8051/3
        M8052/0
                Squamous cell papilloma
        M8052/3
                Papillary squamous cell carcinoma
        M8053/0 Inverted papilloma
        M8060/0 Papillomatosis, NOS
        M8070/2
                Squamous cell carcinoma in situ, NOS
                Squamous cell carcinoma, NOS
        M8070/3
                Squamous cell carcinoma, metastatic, NOS
        M8070/6
                Squamous cell carcinoma, keratinizing, NOS
        M8071/3
                Squamous cell carcinoma, large cell, non-keratinizing
        M8072/3
        M8073/3
                Squamous cell carcinoma, small cell, non-keratinizing
        M8074/3
                Squamous cell carcinoma, spindle cell
        M8075/3
                Adenoid squamous cell carcinoma
        M8076/2
                Squamous cell carcinoma in situ with questionable
                 stromal invasion
                Squamous cell carcinoma, micro-invasive
        M8076/3
        M8080/2 Queyrat's erythroplasia
M8081/2 Bowen's disease
        M8082/3
                Lymphoepithelial carcinoma
        M809-M811 BASAL CELL NEOPLASMS
        M8090/1 Basal cell tumor
M8090/3 Basal cell carcinoma, NOS
        M8091/3 Multicentric basal cell carcinoma
M8092/3 Basal cell carcinoma, morphea
        M8093/3 Basal cell carcinoma, fibroepithelial
        M8094/3 Basosquamous carcinoma
M8095/3 Metatypical carcinoma
        M8096/0 Intraepidermal epithelioma of Jadassohn
        M8100/0 Trichoepithelioma
        M8101/0
                Trichofolliculoma
                Tricholemmoma
        M8102/0
        M8110/0 Pilomatrixoma, NOS
        M8110/3 Pilomatrix carcinoma
        M812-M813 TRANSITIONAL CELL PAPILLOMAS AND CARCINOMAS
        M8120/0
                Transitional cell papilloma, NOS
        M8120/1
                Urothelial papilloma
        M8120/2
                Transitional cell carcinoma in situ
                Transitional cell carcinoma, NOS
        M8120/3
        M8121/0 Schneiderian papilloma
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M8121/1 Transitional cell papilloma, inverted

page 5 M8121/3 Schneiderian carcinoma M8122/3 Transitional cell carcinoma, spindle cell M8123/3 Basaloid carcinoma
M8124/3 Cloacogenic carcinoma M8130/3 Papillary transitional cell carcinoma M814-M838 ADENOMAS AND ADENOCARCINOMAS M8140/0 Adenoma, NOS M8140/1 Bronchial adenoma, NOS
M8140/2 Adenocarcinoma in situ
M8140/3 Adenocarcinoma, NOS
M8140/6 Adenocarcinoma metastatia NOS M8140/3 Adenocarcinoma, NOS
M8140/6 Adenocarcinoma, metastatic, NOS
M8141/3 Scirrhous adenocarcinoma
M8142/3 Linitis plastica M8143/3 Superficial spreading adenocarcinoma M8144/3 Adenocarcinoma, intestinal type M8144/3 Adenocarcinoma, intestinal type
M8145/3 Carcinoma, diffuse type
M8146/0 Monomorphic adenoma
M8147/0 Basal cell adenoma
M8147/3 Basal cell adenoma
M8150/0 Islet cell adenoma
M8150/3 Islet cell carcinoma
M8151/0 Insulinoma, NOS
M8151/3 Insulinoma, malignant
M8152/0 Glucagonoma, NOS
M8152/3 Glucagonoma, malignant
M8153/1 Gastrinoma, NOS
M8153/3 Gastrinoma, malignant
M8154/3 Mixed islet cell and exocrine adenocarcinoma M8154/3 Mixed islet cell and exocrine adenocarcinoma Language Carlos Salara Salara Salara Salara Salara Salara Salara Salara Salara Salara Salara Salara Salara Sal M8155/3 Vipoma M8160/0 Bile duct adenoma Cholangiocarcinoma
Bile duct cystadenoma M8160/3 M8161/0 M8161/3 Bile duct cystadenocarcinoma
M8162/3 Klatskin's tumor
M8170/0 Liver cell adenoma
M8170/3 Hepatocellular carcinoma, NOS M8171/3 Hepatocellular carcinoma, fibrolamellar M8180/3 Combined hepatocellular carcinoma and cholangiocarcinoma
M8190/0 Trabecular adenoma
M8190/3 Trabecular adenocarcinoma M8191/0 Embryonal adenoma
M8200/0 Eccrine dermal cylindroma Eccrine dermal cylindroma
Adenoid cystic carcinoma
Cribriform M8200/3 Cribriform carcinoma M8201/3 M8202/0 Microcystic adenoma Adenomatous polyp, NOS M8210/0

Adenocarcinoma in situ in adenomatous polyp M8210/2 Adenocarcinoma in adenomatous polyp M8210/3 M8211/0 Tubular adenoma, NOS M8211/3 Tubular adenocarcinoma
M8220/0 Adenomatous polyposis coli M8220/3 Adenocarcinoma in adenomatous polyposis coli M8221/0 Multiple adenomatous polyps M8221/3 Adenocarcinoma in multiple adenomatous polyps M8230/3 Solid carcinoma, NOS

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M8231/3 Carcinoma simplex
M8240/1 Carcinoid tumor, NOS, of appendix
M8240/3 Carcinoid tumor. NOS (except of Appendix M-8240/1)
M8241/1 Carcinoid tumor, argentaffin, NOS
M8241/3 Carcinoid tumor, argentaffin, malignant
M8241/3 Carcinoid tumor, argentallin, malignant
M8243/3 Goblet cell carcinoid
M8244/3 Composite carcinoid
M8245/3 Adenocarcinoid tumor
M8246/3 Neuroendocrine carcinoma
M8247/3 Merkel cell carcinoma
M8248/1 Apudoma
M8250/1 Pulmonary adenomatosis
M8250/3 Bronchiolo-alveolar adenocarcinoma
M8251/0 Alveolar adenoma
M8251/3 Alveolar adenocarcinoma
M8260/0 Papillary adenoma, NOS
M8260/3 Papillary adenocarcinoma, NOS
M8261/1 Villous adenoma, NOS
M8261/2 Adenocarcinoma in situ in villous adenoma
M8261/3 Adenocarcinoma in villous adenoma
M8261/3 Adenocarcinoma in viiious adenoma
M8262/3 Villous adenocarcinoma
M8263/0 Tubulovillous adenoma, NOS
M8263/2 Adenocarcinoma in situ in tubulovillous adenoma
M8263/3 Adenocarcinoma in tubulovillous adenoma
M8270/0 Chromophobe adenoma
M8270/3 Chromophobe carcinoma
M8271/0 Prolactinoma
M8280/0 Acidophil adenoma
M8280/3 Acidophil carcinoma
M8280/3 Minad acidophil beauthil adenoma
M8281/0 Mixed acidophil-basophil adenoma
M8281/3 Mixed acidophil-basophil carcinoma
M8290/0 Oxyphilic adenoma
M8290/3 Oxyphilic adenocarcinoma
M8300/0 Basophil adenoma
M8300/3 Basophil carcinoma
M8310/0 Clear cell adenoma
M8310/3 Clear cell adenocarcinoma, NOS
M8311/1 Hypernephroid tumor
M8312/3 Renal cell carcinoma
M8313/0 Clear cell adenofibroma
M8314/3 Lipid-rich carcinoma
M8315/3 Glycogen-rich carcinoma
M8320/3 Granular cell carcinoma
 M8321/0 Chief cell adenoma
M8322/0 Water-clear cell adenoma
M8322/3 Water-clear cell adenocarcinoma
M8323/0 Mixed cell adenoma
M8323/0 Mixed cell adenoma
M8323/3 Mixed cell adenocarcinoma
M8324/0 Lipoadenoma
M8330/0 Follicular adenoma
M8330/3 Follicular adenocarcinoma, NOS
M8331/3 Follicular adenocarcinoma, well differentiated
M8332/3 Follicular adenocarcinoma, trabecular
M8333/0 Microfollicular adenoma
M8334/0 Macrofollicular adenoma
M8340/3 Papillary carcinoma, follicular variant
M8350/3 Nonencapsulated sclerosing carcinoma
M8360/1 Multiple endocrine adenomas
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Juxtaglomerular tumor
M8361/1
M8370/0 Adrenal cortical adenoma, NOS
M8370/3 Adrenal cortical carcinoma
M8371/0
        Adrenal cortical adenoma, compact cell
M8372/0 Adrenal cortical adenoma, heavily pigmented variant
M8373/0
         Adrenal cortical adenoma, clear cell
M8374/0
         Adrenal cortical adenoma, glomerulosa cell
         Adrenal cortical adenoma, mixed cell
M8375/0
          Endometrioid adenoma, NOS
M8380/0
          Endometrioid adenoma, borderline malignancy
M8380/1
M8380/3 Endometrioid carcinoma
M8381/0 Endometrioid adenofibroma, NOS
M8381/1 Endometrioid adenofibroma, borderline malignancy
M8381/3 Endometrioid adenofibroma, malignant
M839-M842 ADNEXAL AND SKIN APPENDAGE NEOPLASMS
         Skin appendage adenoma
         Skin appendage adenoma
Skin appendage carcinoma
Sweat gland adenoma
Sweat gland tumor, NOS
Sweat gland adenocarcinoma
Apocrine adenoma
Apocrine adenocarcinoma
M8390/0
M8390/3
M8400/0
M8400/1
M8400/3
M8401/0
M8401/3 Apocrine adenocarcinoma
M8402/0 Eccrine acrospiroma
M8403/0 Eccrine spiradenoma
M8404/0 Hidrocystoma
M8405/0 Papillary hidradenoma
M8406/0 Papillary syringadenoma
M8406/0 Papillary syringadenoma
M8407/0 Syringoma, NOS
         Eccrine papillary adenoma
M8408/0
          Sebaceous adenoma
M8410/0
         Sebaceous adenocarcinoma
M8410/3
          Ceruminous adenoma
M8420/0
M8420/3 Ceruminous adenocarcinoma
         MUCOEPIDERMOID NEOPLASMS
M843
M8430/1
        Mucoepidermoid tumor
M8430/3
          Mucoepidermoid carcinoma
M844-M849 CYSTIC, MUCINOUS AND SEROUS NEOPLASMS
        Cystadenoma, NOS
Cystadenocarcinoma, NOS
Serous cystadenocar, NOS
Serous cystadenocarcinoma, NOS
M8440/0
M8440/3
M8441/0
M8441/3
          Serous cystadenoma, borderline malignancy
M8442/3
          Papillary cystadenoma, NOS
Papillary cystadenocarcinoma, NOS
M8450/0
M8450/3
M8451/3 Papillary cystadenoma, borderline malignancy
M8452/1
          Papillary cystic tumor
          Papillary serous cystadenoma, NOS
M8460/0
M8460/3
         Papillary serous cystadenocarcinoma
M8461/0
         Serous surface papilloma
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| | » was 11 to | |
|--------------------|--|--------------|
| M8461/3 | Serous surface papillary carcinoma | |
| M8462/3 | Papillary serous cystadenoma, borderline | malignancy |
| M8470/0 | Mucinous cystadenoma, NOS | |
| M8470/3 | Mucinous cystadenocarcinoma, NOS | |
| M8471/0 | Papillary mucinous cystadenoma, NOS | |
| M8471/3 | Papillary mucinous cystadenocarcinoma | |
| M8472/3 | Mucinous cystadenoma, borderline malignan | |
| M8473/3 | | |
| 1104/3/3 | Papillary mucinous cystadenoma, borderlin | e marignancy |
| W07.00 /0 | Mucinous adenoma | |
| M8480/0 M8480/3 | Mucinous adenocarcinoma | |
| M8480/6 | | Section 20 |
| * | Pseudomyxoma peritonei | |
| M8481/3 | Mucin-producing adenocarcinoma | |
| M8490/3 | Signet ring cell carcinoma | |
| M8490/6 | Metastatic signet ring cell carcinoma | |
| | | |
| | | |
| M850-M854 | DUCTAL, LOBULAR AND MEDULLARY NEOPLASMS | |
| . Caraba a sa | | |
| M8500/2 | | NOS |
| M8500/3 | Infiltrating duct carcinoma | |
| M8501/2 | Comedocarcinoma, non-infiltrating | |
| M8501/3 | Comedocarcinoma, NOS | |
| M8502/3 | Juvenile carcinoma of breast | |
| M8503/0 | Intraductal papilloma | |
| M8503/2 | Non-infiltrating intraductal papillary ad | enocarcinoma |
| M8503/3 | Intraductal papillary adenocarcinoma with | invasion |
| M8504/0 | Intracystic papillary adenoma | |
| M8504/2 | Non-infiltrating intracystic carcinoma | |
| M8504/3 | Intracystic carcinoma, NOS | |
| M8505/0 | Intraductal papillomatosis, NOS | |
| M8506/0 | Adenoma of nipple | |
| M8510/3 | Medullary carcinoma, NOS | |
| M8511/3 | Medullary carcinoma with amyloid stroma | |
| M8512/3 | Medullary carcinoma with lymphoid stroma | |
| M8520/2 | Lobular carcinoma in situ | |
| M8520/3 | Lobular carcinoma, NOS | |
| M8521/3 | Infiltrating ductular carcinoma | |
| M8522/2 | Intraductal carcinoma and lobular carcinom | ma in citu |
| M8522/3 | Infiltrating duct and lobular carcinoma | ma In Sica |
| M8530/3 | Inflammatavi aavainama | |
| M8540/3 | Paget's disease, mammary | |
| M8541/3 | Paget's disease and infiltrating duct care | oioona of |
| 110341/3 | breast | CINOMA OL |
| M8542/3 | | |
| 110342/3 | Paget's disease, extramammary (except Page | et's disease |
| W05/3/3 | of bone) | |
| M8543/3 | Paget's disease and intraductal carcinoma | or preast |
| | ि कु १५ । अस्तिकार मेनुस्य सुवार क्षेत्र करी करी वस्ति है। | |
| WOCC | ACINAR CELL NEOPLASMS | |
| M855 | ACINAR CELL NEOPLASMS | |
| | | |
| M8550/0 | Acinar cell adenoma | |
| M8550/1 | Acinar cell tumor | |
| M8550/3 | Acinar cell carcinoma | |

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M8560/3
          Adenosquamous carcinoma
M8561/0
          Adenolymphoma
M8562/3
          Epithelial-myoepithelial carcinoma
          Adenocarcinoma with squamous metaplasia
M8570/3
M8571/3
          Adenocarcinoma with cartilaginous and osseous
            metaplasia
M8572/3
          Adenocarcinoma with spindle cell metaplasia
M8573/3
          Adenocarcinoma with apocrine metaplasia
M8580/0
          Thymoma, benign
M8580/3
          Thymoma, malignant
M859-M867 SPECIALIZED GONADAL NEOPLASMS
M8590/1
          Sex cord-stromal tumor
M8600/0
          Thecoma, NOS
M8600/3
          Thecoma, malignant
M8601/0
          Thecoma, luteinized
M8602/0
          Sclerosing stromal tumor
          Luteoma, NOS
M8610/0
          Granulosa cell tumor, NOS
M8620/1
M8620/3
          Granulosa cell tumor, malignant
M8621/1
          Granulosa cell-theca cell tumor
M8622/1
          Juvenile granulosa cell tumor
M8623/1
          Sex cord tumor with annular tubules
M8630/0
          Androblastoma, benign
M8630/1
          Androblastoma, NOS
M8630/3
          Androblastoma, malignant
M8631/0
          Sertoli-Leydig cell tumor
M8632/1
          Gynandroblastoma
M8640/0
          Sertoli cell tumor, NOS
M8640/3
          Sertoli cell carcinoma
M8641/0
          Sertoli cell tumor with lipid storage
M8650/0
          Leydig cell tumor, benign
          Leydig cell tumor, NOS
M8650/1
M8650/3
          Leydig cell tumor, malignant
M8660/0
          Hilus cell tumor
M8670/0
          Lipid cell tumor of ovary
M8671/0
          Adrenal rest tumor
M868-M871 PARAGANGLIOMAS AND GLOMUS TUMORS
M8680/1
          Paraganglioma, NOS
M8680/3
          Paraganglioma, malignant
M8681/1
          Sympathetic paraganglioma
M8682/1
          Parasympathetic paraganglioma
M8683/0
          Gangliocytic paraganglioma
M8690/1
          Glomus jugulare tumor
          Aortic body tumor
M8691/1
M8692/1
          Carotid body tumor
M8693/1
          Extra-adrenal paraganglioma, NOS
M8693/3
          Extra-adrenal paraganglioma, malignant
M8700/0
          Pheochromocytoma, NOS
M8700/3
          Pheochromocytoma, malignant
M8710/3
          Glomangiosarcoma
M8711/Ò
          Glomus tumor
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M8712/0

Glomangioma

M872-M879 NEVI AND MELANOMAS

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M8720/0
          Pigmented nevus, NOS
          Malignant melanoma, NOS A
M8720/3
M8721/3
          Nodular melanoma
M8722/0
         Balloon cell nevus
M8722/3
         Balloon cell melanoma
M8723/0
         Halo nevus
M8723/3
         Malignant melanoma, regressing
M8724/0
         Fibrous papule of nose
M8725/0
          Neuronevus
         Magnocellular nevus
M8726/0
M8727/0
         Dysplastic nevus
M8730/0
          Non-pigmented nevus
M8730/3
          Amelanotic melanoma
M8740/0
          Junctional nevus
M8740/3
          Malignant melanoma in junctional nevus
M8741/2
          Precancerous melanosis, NOS
M8741/3
          Malignant melanoma in precancerous melanosis
M8742/2
          Hutchinson's melanotic freckle
          Malignant melanoma in Hutchinson's melanotic freckle
M8742/3
M8743/3
          Superficial spreading melanoma
M8744/3
          Acral lentiginous melanoma, malignant
M8745/3
          Desmoplastic melanoma, malignant
M8750/0
          Intradermal nevus
M8760/0
          Compound nevus
M8761/1
          Giant pigmented nevus
          Malignant melanoma in giant pigmented nevus
M8761/3
M8770/0
          Epithelioid and spindle cell nevus
M8771/0
          Epithelioid cell nevus
M8771/3
          Epithelioid cell melanoma
M8772/0
          Spindle cell nevus
M8772/3
          Spindle cell melanoma, NOS
M8773/3
          Spindle cell melanoma, type A
M8774/3
          Spindle cell melanoma, type B
M8775/3
          Mixed epithelioid and spindle cell melanoma
M8780/0
         Blue nevus, NOS
M8780/3
          Blue nevus, malignant
M8790/0
          Cellular blue nevus
M880
          SOFT TISSUE TUMORS AND SARCOMAS, NOS
0\0088M
          Soft tissue tumor, benign
M8800/3
          Sarcoma, NOS
M8800/9
          Sarcomatosis, NOS
M8801/3
          Spindle cell sarcoma
M8802/3
          Giant cell sarcoma (except of Bone M-9250/3)
M8803/3
          Small cell sarcoma
          Epithelioid sarcoma
M8804/3
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M8810/0
          Fibroma, NOS
M8810/3
          Fibrosarcoma, NOS
M8811/0
          Fibromyxoma
M8811/3
          Fibromyxosarcoma
          Periosteal fibroma
M8812/0
M8812/3
          Periosteal fibrosarcoma
          Fascial fibroma
M8813/0
M8813/3
          Fascial fibrosarcoma
M8814/3
          Infantile fibrosarcoma
M8820/0
          Elastofibroma
M8821/1
          Aggressive fibromatosis
M8822/1
          Abdominal fibromatosis
M8823/1
          Desmoplastic fibroma
M8824/1
          Myofibromatosis
M8830/0
          Fibrous histiocytoma, NOS
M8830/1
          Atypical fibrous histiocytoma
M8830/3
          Fibrous histiocytoma, malignant
          Dermatofibroma, NOS
M8832/0
          Dermatofibrosarcoma, NOS
M8832/3
M8833/3
          Pigmented dermatofibrosarcoma protuberans
M884
          MYXOMATOUS NEOPLASMS
M8840/0
          Myxoma, NOS
M8840/3
          Myxosarcoma
M8841/1
          Angiomyxoma
M885-M888 LIPOMATOUS NEOPLASMS
M8850/0
          Lipoma, NOS
M8850/3
          Liposarcoma, NOS
M8851/0
          Fibrolipoma
          Liposarcoma, well differentiated
M8851/3
M8852/0
          Fibromyxolipoma
M8852/3
          Myxoid liposarcoma
          Round cell liposarcoma
M8853/3
M8854/0
          Pleomorphic lipoma
          Pleomorphic liposarcoma
M8854/3
M8855/3
          Mixed liposarcoma
M8856/0
          Intramuscular lipoma
M8857/0
          Spindle cell lipoma
M8858/3
          Dedifferentiated liposarcoma
M8860/0
          Angiomyolipoma
M8861/0
          Angiolipoma, NOS
M8870/0
          Myelolipoma
M8880/0
          Hibernoma
M8881/0
          Lipoblastomatosis
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| M8890/0 | Leiomyoma, NOS |
|---------|------------------------------|
| M8890/1 | Leiomyomatosis , NOS |
| M8890/3 | Leiomyosarcoma, NOS |
| M8891/1 | Epithelioid leiomyoma |
| M8891/3 | Epithelioid leiomyosarcoma |
| M8892/1 | Cellular leiomyoma |
| M8893/0 | Bizarre leiomyoma |
| M8894/0 | Angiomyoma |
| M8894/3 | Angiomyosarcoma |
| M8895/0 | Myoma |
| M8895/3 | Myosarcoma |
| M8896/3 | Myxoid leiomyosarcoma |
| M8897/1 | Smooth muscle tumor, NOS |
| M8900/0 | Rhabdomyoma, NOS |
| M8900/3 | Rhabdomyosarcoma, NOS |
| M8901/3 | Pleomorphic rhabdomyosarcoma |
| M8902/3 | Mixed type rhabdomyosarcoma |
| M8903/0 | Fetal rhabdomyoma |
| M8904/0 | Adult rhabdomyoma |
| M8910/3 | Embryonal rhabdomyosarcoma |
| M8920/3 | Alveolar rhabdomyosarcoma |

M893-M899 COMPLEX MIXED AND STROMAL NEOPLASMS

| M8930/0 | Endometrial stromal nodule |
|---------|------------------------------|
| M8930/3 | Endometrial stromal sarcoma |
| M8931/1 | Endolymphatic stromal myosis |
| M8932/0 | Adenomyoma |
| M8933/3 | Adenosarcoma |
| M8940/0 | Pleomorphic adenoma |
| M8940/3 | Mixed tumor, malignant, NOS |
| M8941/3 | |
| M8950/3 | Mullerian mixed tumor |
| M8951/3 | Mesodermal mixed tumor |
| M8960/1 | Mesoblastic nephroma |
| M8960/3 | Nephroblastoma, NOS |
| M8963/3 | Rhabdoid sarcoma |
| M8964/3 | Clear cell sarcoma of kidney |
| M8970/3 | Hepatoblastoma |
| M8971/3 | Pancreatoblastoma |
| M8972/3 | Pulmonary blastoma |
| M8980/3 | |
| M8981/3 | |
| M8982/0 | Myoepithelioma |
| M8990/0 | Mesenchymoma, benign |
| M8990/1 | Mesenchymoma, NOS |
| M8990/3 | Mesenchymoma, malignant |
| M8991/3 | Embryonal sarcoma |

M900-M903 FIBROEPITHELIAL NEOPLASMS

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M9000/1
          Brenner tumor, borderline malignancy
M9000/3
          Brenner tumor, malignant
M9010/0
          Fibroadenoma, NOS
M9011/0
          Intracanalicular fibroadenoma
          Pericanalicular fibroadenoma
M9012/0
M9013/0
          Adenofibroma, NOS
M9014/0
           Serous adenofibroma
M9015/0
          Mucinous adenofibroma
M9016/0
           Giant fibroadenoma
           Phyllodes tumor, benign
M9020/0
           Phyllodes tumor, NOS
M9020/1
M9020/3
           Phyllodes tumor, malignant
M9030/0
          Juvenile fibroadenoma
M904
           SYNOVIAL-LIKE NEOPLASMS
M9040/0
           Synovioma, benign
M9040/3
           Synovial sarcoma, NOS
          Synovial sarcoma, spindle cell
Synovial sarcoma, epithelioid cell
Synovial sarcoma, biphasic
M9041/3
M9042/3
M9043/3
M9044/3
           Clear cell sarcoma (except of Kidney M-8964/3)
M905
           MESOTHELIAL NEOPLASMS
M9050/0
          Mesothelioma, benign
M9050/3
          Mesothelioma, malignant
M9051/0
           Fibrous mesothelioma, benign
M9051/3
          Fibrous mesothelioma, malignant
M9052/0
           Epithelioid mesothelioma, benign
           Epithelioid mesothelioma, malignant
M9052/3
          Mesothelioma, biphasic, benign
Mesothelioma, biphasic, malignant
M9053/0
M9053/3
M9054/0
           Adenomatoid tumor, NOS
M9055/1
           Cystic mesothelioma
M906-M909 GERM CELL NEOPLASMS
M9060/3
           Dysgerminoma
M9061/3
           Seminoma, NOS
M9062/3
           Seminoma, anaplastic
M9063/3
           Spermatocytic seminoma
M9064/3
           Germinoma
M9070/3
           Embryonal carcinoma, NOS
M9071/3
           Endodermal sinus tumor
M9072/3
           Polyembryoma
M9073/1
          Gonadoblastoma
M9080/0
          Teratoma, benign
M9080/1
           Teratoma, NOS
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M9082/3
          Malignant teratoma, undifferentiated
M9083/3
          Malignant teratoma, intermediate
M9084/0
          Dermoid cyst
M9084/3
          Teratoma with malignant transformation
M9085/3
          Mixed germ cell tumor
M9090/0
          Struma ovarii, NOS
M9090/3
          Struma ovarii, malignant
M9091/1
          Strumal carcinoid
M910
          TROPHOBLASTIC NEOPLASMS
M9100/0
          Hydatidiform mole, NOS
M9100/1
          Invasive hydatidiform mole
M9100/3
          Choriocarcinoma
M9101/3
          Choriocarcinoma combined with other germ cell elements
M9102/3
          Malignant teratoma, trophoblastic
M9103/0
          Partial hydatidiform mole
M9104/3
          Placental site trophoblastic tumor
M911
          MESONEPHROMAS
M9110/0
          Mesonephroma, benign
M9110/1
          Mesonephric tumor
M9110/3
          Mesonephroma, malignant
M912-M916 BLOOD VESSEL TUMORS
M9120/0
          Hemangioma, NOS
M9120/3
          Hemangiosarcoma
M9121/0
          Cavernous hemangioma
M9122/0
          Venous hemangioma
M9123/0
          Racemose hemangioma
M9124/3
          Kupffer cell sarcoma
M9125/0
          Epithelioid hemangioma
M9126/0
          Histiocytoid hemangioma
M9130/0
          Hemangioendothelioma, benign
M9130/1
          Hemangioendothelioma, NOS
M9130/3
          Hemangioendothelioma, malignant
M9131/0
          Capillary hemangioma
M9132/0
          Intramuscular hemangioma
M9133/1
          Epithelioid hemangioendothelioma, NOS
M9133/3
          Epithelioid hemangioendothelioma, malignant
M9134/1
          Intravascular bronchial alveolar tumor
M9140/3
          Kaposi's sarcoma
M9141/0
          Angiokeratoma
M9142/0
          Verrucous keratotic hemangioma
M9150/0
          Hemangiopericytoma, benign
M9150/1
          Hemangiopericytoma, NOS
M9150/3
          Hemangiopericytoma, malignant
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M917 LYMPHATIC VESSEL TUMORS M9170/0 Lymphangioma, NOS M9170/3Lymphangiosarcoma Capillary lymphangioma M9171/0 Cavernous lymphangioma M9172/0 M9173/0 Cystic lymphangioma M9174/0 Lymphangiomyoma M9174/1 Lymphangiomyomatosis M9175/0 Hemolymphangioma M918-M924 OSSEOUS AND CHONDROMATOUS NEOPLASMS M9180/0 Osteoma, NOS M9180/3Osteosarcoma, NOS M9181/3Chondroblastic osteosarcoma M9182/3Fibroblastic osteosarcoma M9183/3 Telangiectatic osteosarcoma M9184/3 Osteosarcoma in Paget's disease of bone M9185/3 Small cell osteosarcoma M9190/3 Juxtacortical osteosarcoma M9191/0 Osteoid osteoma, NOS M9200/0 Osteoblastoma, NOS M9200/1 Aggressive osteoblastoma M9210/0 Osteochondroma M9210/1 Osteochondromatosis, NOS M9220/0 Chondroma, NOS M9220/1 Chondromatosis, NOS M9220/3Chondrosarcoma, NOS Juxtacortical chondroma M9221/0 M9221/3 Juxtacortical chondrosarcoma M9230/0 Chondroblastoma, NOS M9230/3 Chondroblastoma, malignant M9231/3Myxoid chondrosarcoma M9240/3 Mesenchymal chondrosarcoma M9241/0 Chondromyxoid fibroma M925 GIANT CELL TUMORS M9250/1 Giant cell tumor of bone, NOS Giant cell tumor of bone, malignant M9250/3M9251/1Giant cell tumor of soft parts, NOS M9251/3Malignant giant cell tumor of soft parts M926 MISCELLANEOUS BONE TUMORS

M9260/3

Ewing's sarcoma

M927-M934 ODONTOGENIC TUMORS

| M9270/0 | Odontogenic tumor, benign |
|---------|---|
| M9270/1 | Odontogenic tumor, NOS |
| M9270/3 | Odontogenic tumor, malignant |
| M9271/0 | Dentinoma |
| M9272/0 | Cementoma, NOS |
| M9273/0 | Cementoblastoma, benign |
| M9274/0 | Cementifying fibroma |
| M9275/0 | Gigantiform cementoma |
| M9280/0 | Odontoma, NOS |
| M9281/0 | Compound odontoma |
| M9282/0 | Complex odontoma |
| M9290/0 | Ameloblastic fibro-odontoma |
| M9290/3 | Ameloblastic odontosarcoma |
| M9300/0 | Adenomatoid odontogenic tumor |
| M9301/0 | Calcifying odontogenic cyst |
| M9302/0 | Odontogenic ghost cell tumor |
| M9310/0 | Ameloblastoma, NOS |
| M9310/3 | Ameloblastoma, malignant |
| M9311/0 | Odontoameloblastoma |
| M9312/0 | Squamous odontogenic tumor |
| M9320/0 | Odontogenic myxoma |
| M9321/0 | Central odontogenic fibroma |
| M9322/0 | Peripheral odontogenic fibroma |
| M9330/0 | Ameloblastic fibroma |
| M9330/3 | Ameloblastic fibrosarcoma |
| M9340/0 | Calcifying epithelial odontogenic tumor |
| | |

M935-M937 MISCELLANEOUS TUMORS

| M9350/1 M9360/1 | Craniopharyngioma |
|--------------------|----------------------------------|
| M936U/1 M9361/1 | Pinealoma Pineocytoma |
| M9362/3 | Pineoblastoma |
| M9363/0 | Melanotic neuroectodermal tumor |
| M9364/3 | Peripheral neuroectodermal tumor |
| M9370/3 | Chordoma |

M938-M948 GLIOMAS

| M9380/3 | Glioma, malignant |
|---------|-------------------------------------|
| M9381/3 | Gliomatosis cerebri |
| M9382/3 | Mixed glioma |
| M9383/1 | Subependymal glioma |
| M9384/1 | Subependymal giant cell astrocytoma |
| M9390/0 | Choroid plexus papilloma, NOS |
| M9390/3 | Choroid plexus papilloma, malignant |

| | | page 17 | |
|--------------------|---|---------|--|
| M9391/3 | Ependymoma, NOS | | |
| M9392/3 | Ependymoma, anaplastic | | |
| M9393/1 | Papillary ependymoma | | |
| M9394/1 | Myxopapillary ependymoma | | |
| M9400/3 | Astrocytoma, NOS | | |
| M9401/3 | Astrocytoma, anaplastic | | |
| M9410/3 | Protoplasmic astrocytoma | | |
| M9411/3 | Gemistocytic astrocytoma | | |
| M9420/3 | Fibrillary astrocytoma | | |
| M9421/3 | Pilocytic astrocytoma | | |
| M9422/3 | Spongioblastoma, NOS | | |
| M9423/3 | Spongioblastoma polare | | |
| M9424/3 | Pleomorphic xanthoastrocytoma | | |
| M9430/3 | Astroblastoma | | |
| M9440/3 | Glioblastoma, NOS | | |
| M9441/3 | Giant cell glioblastoma | | |
| | Gliosarcoma | | |
| M9442/3 | Primitive polar spongioblastoma | | |
| M9443/3 M9450/3 | Oligodendroglioma, NOS | | |
| M9451/3 | Oligodendroglioma, anaplastic | | |
| M9460/3 | Oligodendroblastoma | | |
| | Medulloblastoma, NOS | | |
| M9470/3 | Desmoplastic medulloblastoma | | |
| M9471/3 M9472/3 | Medullomyoblastoma | | |
| M9473/3 | Primitive neuroectodermal tumor | | |
| M9480/3 | Cerebellar sarcoma, NOS | | |
| M9481/3 | Monstrocellular sarcoma | | |
| 113401/3 | Honstietellulai Salcoma (1988) and a salcoma (1988) | | |
| | | | |
| MQ/Q_MQ50 | NEUROEPITHELIOMATOUS NEOPLASMS | | |
| 11747 11732 | | | |
| M9490/0 | Ganglioneuroma | | |
| M9490/3 | Ganglioneuroblastoma | | |
| M9491/0 | | | |
| M9500/3 | Ganglioneuromatosis Neuroblastoma, NOS | | |
| M9501/3 | Medulloepithelioma, NOS | | |
| M9502/3 | Torotaid modulloonitholioms | | |
| M9503/3 | Neuroepithelioma, NOS | | |
| M9504/3 | Spongioneuroblastoma | | |
| M9505/1 | Ganglioglioma | | |
| M9506/0 | Neurocytoma | | |
| M9507/0 | Pacinian tumor | | |
| M9510/3 | Retinoblastoma, NOS | | |
| M9511/3 | Retinoblastoma, differentiated | | |
| M9512/3 | Retinoblastoma, undifferentiated | | |
| M9520/3 | Olfactory neurogenic tumor | | |
| | Esthesioneurocytoma | | |
| M9521/3 | Esthesioneuroblastoma | | |
| M9522/3 | | | |
| M9523/3 | Esthesioneuroepithelioma | | |
| | | | |
| M052 | MENINCIOMAS | | |
| M953 | MENINGIOMAS | | |
| M9530/0 | Meningioma, NOS | | |
| | HOUTHPAOMA L. HOO. | | |
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WHO/ICD10/REV.CONF/89.10 page 18 M9530/1 Meningiomatosis, NOS M9530/3 Meningioma, malignant M9531/0 Meningotheliomatous meningioma M9532/0 Fibrous meningioma M9533/0 Psammomatous meningioma M9534/0 Angiomatous meningioma M9535/0 Hemangioblastic meningioma Hemangiopericytic meningioma Transitional meningioma M9536/0 M9537/0 Papillary meningioma M9538/1 M9539/3 Meningeal sarcomatosis M954-M957 NERVE SHEATH TUMORS M9540/0 Neurofibroma, NOS M9540/0 Neurofibroma, NOS M9540/1 Neurofibromatosis, NOS M9540/3 Neurofibrosarcoma M9541/0 Melanotic neurofibroma M9550/0 Plexiform neurofibroma M9560/0 Neurilemmoma, NOS M9560/1 Neurinomatosis M9560/3 Neurilemmoma, malignant M9561/3 Triton tumor, malignant M9562/0 Neurothekeoma M9570/0 Neuroma, NOS euroma, NOS pp. 12.23 — 19.25 M958 GRANULAR CELL TUMORS AND ALVEOLAR SOFT PART SARCOMA M9580/0 Granular cell tumor, NOS M9580/3 Granular cell tumor, malignant M9581/3 Alveolar soft part sarcoma M959-M970 HODGKIN'S AND NON-HODGKIN'S LYMPHOMA M959 MALIGNANT LYMPHOMAS, NOS OR DIFFUSE M9590/3 Malignant lymphoma, NOS M9591/3 Malignant lymphoma, non-Hodgkin's, NOS M9592/3 Lymphosarcoma, NOS M9593/3 Reticulosarcoma, NOS

M9594/3 Microglioma M9595/3 Malignant lymphoma, diffuse, NOS

M965-M966 HODGKIN'S DISEASE

| | | | NOS | | |
|---------|-----------|----------|-------------|-------------|---------|
| M9652/3 | Hodgkin's | disease, | mixed cellu | larity, NOS | |
| M9653/3 | Hodgkin's | disease, | lymphocytic | depletion, | NOS |
| M9654/3 | Hodgkin's | disease, | lymphocytic | depletion, | diffuse |
| | fibrosis | 5 | | | |

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page 19
          Hodgkin's disease, lymphocytic depletion, reticular
M9655/3
          Hodgkin's disease, lymphocytic predominance, NOS
M9657/3
          Hodgkin's disease, lymphocytic predominance, diffuse
M9658/3
         Hodgkin's disease, lymphocytic predominance, nodular
M9659/3
          Hodgkin's paragranuloma, NOS
M9660/3
          Hodgkin's granuloma
M9661/3
M9662/3
          Hodgkin's sarcoma
          Hodgkin's disease, nodular sclerosis, NOS
M9663/3
          Hodgkin's disease, nodular sclerosis, cellular phase
M9664/3
          Hodgkin's disease, nodular sclerosis, lymphocytic
M9665/3
           predominance
M9666/3
          Hodgkin's disease, nodular sclerosis, mixed cellularity
          Hodgkin's disease, nodular sclerosis, lymphocytic
M9667/3
            depletion
M967-M968 MALIGNANT LYMPHOMA, DIFFUSE OR NOS, SPECIFIED TYPE
          Malignant lymphoma, small lymphocytic, NOS
M9670/3
          Malignant lymphoma, lymphoplasmacytic
M9671/3
          Malignant lymphoma, small cleaved cell, diffuse
M9672/3
          Malignant lymphoma, lymphocytic, intermediate
M9673/3
            differentiation, diffuse
          Malignant lymphoma, centrocytic
M9674/3
          Malignant lymphoma, mixed small and large cell, diffuse
M9675/3
          Malignant lymphoma, centroblastic-centrocytic, diffuse
M9676/3
          Malignant lymphoma, large cell, diffuse
M9680/3
M9681/3 Malignant lymphoma, large cell, cleaved, diffuse
M9682/3
          Malignant lymphoma, large cell, non-cleaved, diffuse
         Malignant lymphoma, centroblastic, diffuse
M9683/3
         Malignant lymphoma, immunoblastic
M9684/3
        Malignant lymphoma, lymphoblastic
M9685/3
        Malignant lymphoma, small cell, non-cleaved, diffuse
M9686/3
M9687/3 Burkitt's lymphoma, NOS
M969
          MALIGNANT LYMPHOMA, FOLLICULAR OR NODULAR, with or
            without diffuse areas
          Malignant lymphoma, follicular, NOS
M9690/3
          Malignant lymphoma, mixed small cleaved and large cell,
M9691/3
            follicular
          Malignant lymphoma, centroblastic-centrocytic,
M9692/3
            follicular
M9693/3
          Malignant lymphoma, lymphocytic, well differentiated,
            nodular
          Malignant lymphoma, lymphocytic, intermediate
M9694/3
            differentiation, nodular
          Malignant lymphoma, small cleaved cell, follicular Malignant lymphoma, lymphocytic, poorly differentiated,
M9695/3
M9696/3
            nodular
          Malignant lymphoma, centroblastic, follicular
M9697/3
          Malignant lymphoma, large cell, follicular, NOS
M9698/3
          SPECIFIED CUTANEOUS AND PERIPHERAL T-CELL LYMPHOMAS
M970
M9700/3' Mycosis fungoides
M9701/3 Sezary's disease
M9702/3 Peripheral T-cell lymphoma
```

| M971 | OTHER SPECIFIED NON-HODGKIN'S LYMPHOMAS |
|---------|--|
| M9711/3 | Monocytoid B-cell lymphoma |
| M9712/3 | Angioendotheliomatosis |
| M9713/3 | Angiocentric T-cell lymphoma |
| M9714/3 | Large cell Ki-1 lymphoma |
| | |
| M972 | OTHER LYMPHORETICULAR NEOPLASMS |
| M9720/3 | Malignant histiocytosis |
| M9722/3 | Letterer-Siwe's disease |
| M9723/3 | True histiocytic lymphoma |
| • | |
| M973 | PLASMA CELL TUMORS |
| M9730/3 | Multiple myeloma |
| M9731/3 | Plasmacytoma, NOS |
| | |
| M974 | MAST CELL TUMORS |
| M9740/1 | Mastocytoma, NOS |
| M9740/3 | Mast cell sarcoma |
| M9741/3 | Malignant mastocytosis |
| | |
| M976 | IMMUNOPROLIFERATIVE DISEASES |
| | |
| M9760/3 | Immunoproliferative disease, NOS |
| M9761/3 | Waldenstrom's macroglobulinemia |
| M9762/3 | Alpha heavy chain disease |
| M9763/3 | Gamma heavy chain disease |
| M9764/3 | Immunoproliferative small intestinal disease |
| M9765/1 | Monoclonal gammopathy |
| M9766/1 | Angiocentric immunoproliferative lesion |
| M9767/1 | Angioimmunoblastic lymphadenopathy |
| M9768/3 | T-gamma lymphoproliferative disease |
| | |

M980-M994 LEUKEMIAS

M980

| M9800/3 | Leukemia, NOS |
|---------|------------------------|
| M9801/3 | Acute leukemia, NOS |
| M9802/3 | Subacute leukemia, NOS |
| M9803/3 | Chronic leukemia, NOS |

LEUKEMIAS, NOS

| M982 | LYMPHOID LEUKEMIAS |
|---------|--|
| M9820/3 | Lymphoid leukemia, NOS |
| | Assets levels 1 and 1 and 1 |
| M9821/3 | Acute lymphoblastic leukemia |
| M9822/3 | Subacute lymphoid leukemia |
| M9823/3 | Chronic lymphocytic leukemia |
| M9824/3 | Aleukemic lymphoid leukemia |
| M9825/3 | Prolymphocytic leukemia |
| M9826/3 | Prolymphocytic leukemia Burkitt's cell leukemia |
| M9827/3 | Adult T-cell leukemia/lymphoma |
| | |
| м983 | PLASMA CELL LEUKEMIA |
| M9830/3 | Plasma cell leukemia |
| | |
| M984 | ERYTHROLEUKEMIAS |
| M9840/3 | Erythroleukemia |
| M9841/3 | Acute erythremia |
| M9842/3 | Chronic erythremia |
| , | |
| M985 | LYMPHOSARCOMA CELL LEUKEMIA |
| M9850/3 | Lymphosarcoma cell leukemia |
| M986 | MYPLOID (CDANULOCYTEC) I PHYPMAN |
| M900 | MYELOID (GRANULOCYTIC) LEUKEMIAS |
| M9860/3 | Myeloid leukemia, NOS |
| M9861/3 | Acute myeloid leukemia |
| M9862/3 | Subacute myeloid leukemia |
| M9863/3 | Chronic myeloid leukemia |
| M9864/3 | Aleukemic myeloid leukemia |
| M9866/3 | Acute promyelocytic leukemia |
| M9867/3 | Acute myelomonocytic leukemia |
| M9868/3 | |
| M3000/3 | Chronic myelomonocytic leukemia |
| M987 | BASOPHILIC LEUKEMIA |
| | |
| M9870/3 | Basophilic leukemia |
| M988 | EOSINOPHILIC LEUKEMIA |
| | |
| M9880/3 | Eosinophilic leukemia |
| • | |

| M9890/3 | Monocytic leukemia, NOS |
|-----------|--|
| M9891/3 | Acute monocytic leukemia |
| M9892/3 | Subacute monocytic leukemia |
| M9893/3 | Chronic monocytic leukemia |
| M9894/3 | Aleukemic monocytic leukemia |
| , | |
| | |
| M990-M994 | OTHER LEUKEMIAS |
| | |
| M9900/3 | Mast cell leukemia |
| M9910/3 | Acute megakaryoblastic leukemia |
| M9930/3 | Myeloid sarcoma |
| M9931/3 | Acute panmyelosis |
| M9932/3 | Acute myelofibrosis |
| M9940/3 | Hairy cell leukemia |
| | |
| ***** | WTGGDT LANGUAG AND ADDAT TOOD AND A |
| M995-M99/ | MISCELLANEOUS MYELOPROLIFERATIVE AND |
| | LYMPHOPROLIFERATIVE DISORDERS |
| M9950/1 | Polycythemia vera |
| M9960/1 | Chronic myeloproliferative disease |
| M9961/1 | Myelosclerosis with myeloid metaplasia |
| M9962/1 | Idiopathic thrombocythemia |
| M9970/1 | Lymphoproliferative disease, NOS |
| | 25 mpriop 2012 2012 de la companya d |
| | |
| M998 | MYELODYSPLASTIC SYNDROMES |
| | |
| M9980/1 | Refractory anemia, NOS |
| M9981/1 | Refractory anemia without sideroblasts |
| M9982/1 | Refractory anemia with sideroblasts |
| M9983/1 | Refractory anemia with excess of blasts |
| M9984/1 | Refractory anemia with excess of blasts with |
| | transformation |
| M9989/1 | Myelodysplastic syndrome NOS |

Myelodysplastic syndrome, NOS

M9989/1

DISTR.: LIMITED DISTR.: LIMITEE

WHO/ICD10/REV.CONF/89.11

INTERNATIONAL CONFERENCE FOR THE TENTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES

Geneva, 26 September - 2 October 1989

DEFINITIONS, STANDARDS AND REPORTING REQUIREMENTS RELATED TO MATERNAL AND CHILD HEALTH AND THE PERINATAL PERIOD

I. HISTORICAL BACKGROUND

A limited number of definitions and recommendations were included in the Eighth Revision of the ICD. The definitions themselves covered only live birth, fetal death, causes of death, and the underlying cause of death.

As a part of the preparations for the Ninth Revision, a Scientific Group on Health Statistics Methodology Related to Perinatal Events was held in Geneva from 30 April to 6 May 1974. The group formulated a number of definitions and recommendations for perinatal and maternal events as well as for the terminology and format for statistical tables.

These recommendations were submitted to the Expert Committee on Health Statistics which met from 4 to 10 June 1974. The Expert Committee endorsed the Scientific Group's recommendations relating to the perinatal period but noted with reservations the recommendations related to maternal mortality definitions.

The Scientific Group had defined "life at birth" and then defined "live birth" as a birth with evidence of life and "still birth" as birth with no evidence of life. The definitions also included a lower limit of birth weight (1000g) for stillbirths for the calculation of perinatal mortality rates.

The International Conference for the Ninth Revision of the ICD which took place from 30 September to 6 October 1975 gave further detailed consideration to the definitions and recommendations and decided to retain the definitions of live birth and fetal death as they appeared in ICD-8. Also, because of a lack of general agreement on a number of the definitions, the only new definitions recommended for adoption by the World Health Assembly related to birth weight, gestational age and maternal mortality. However, the recommendations for the presentation of perinatal statistics included a cut-off point of a 1000 g birth weight for inclusion in statistics for international comparisons to overcome the problems caused by differences within and between countries in the application of definitions.

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II. ACTIVITIES RELATED TO DEFINITIONS AND STANDARDS FOR ICD-10

In the interest of improving the comparability of national and international health statistics, the Preparatory meeting on ICD-10 held in Geneva in September 1983 and the first Expert Committee on ICD-10 which met in San Francisco in June 1984 recommended the review and revision of definitions and standards related to maternal and child health and the perinatal period in consultation with experts, including epidemiologists and representatives of the United Nations Statistical Office (UNSO).

In response to these recommendations, WHO convened a consultation on definitions and standards related to maternal and child health and the perinatal period which was held in Geneva from 10 to 14 December 1984 (WHO working document ICD/PE/84.1). The consultation discussed the definitions and recommendations contained in ICD-9 and made a number of proposals for addition and amendment which were circulated to WHO Collaborating Centres for Classification of Diseases, appropriate groups of experts and discussed with UNSO.

A summary of the comments received on the recommendations was presented to the Heads of WHO Collaborating Centres for the Classification of Diseases in April 1986 (Working document WHO/DES/ICD/86.19). The Centre Heads noted the two major areas of disagreement, namely the change of concept from "fetal death" to the new concept of "deadbirth", and the definition of numerators and denominators for the calculation of perinatal and maternal mortality rates. In addition, there were a number of questions related to definitions of maternal mortality and the associated 42 day reference period. In view of the importance of these topics, the expressed interest of many countries, and the concerns of UNSO of balancing the need for providing internationally comparable statistics with the need for promoting the availability of statistics, particularly in developing countries, the Centre Heads recommended that WHO convene a further meeting to resolve the outstanding areas of disagreement.

This consultation was held in Washington DC, USA from 30 March to 3 April 1987 and included representatives of the International Federation of Gynaecology and Obstetrics (FIGO) and UNSO.

Its recommendations were presented to the second Expert Committee on ICD-10 in November 1987 (Working documents WHO/DES/ICD/PE/87.1 and WHO/DES/EC/IC-10/87.25). The Expert Committee was also informed of the objections that had been made to the recommendation of the Washington consultation that a "fetal death" be redesignated a "deadborn fetus". While the Committee agreed that deadborn fetus was logically more correct, fetal death is the term traditionally used for statistical purposes. The Committee therefore recommended the following definition:

"Fetal death (deadborn fetus). For statistical purposes a fetal death is a deadborn fetus which, after birth, does not breathe or show evidence of life as demonstrated by beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached".

The Expert Committee also disagreed with the use of the term "standard" to describe early neonatal and infant mortality rates, and felt that further clarification was required concerning the types of maternal mortality rates that were recommended. It proposed that the maternal mortality rate should include both direct and indirect obstetric deaths. Separate rates for direct maternal mortality and indirect maternal mortality should also be calculated.

At their meeting in 1988, the Centre Heads gave further consideration to the definitions and recommendations and proposed that the definitions of both "live birth" and "fetal death" used in ICD-9 should be retained in ICD-10. In relation to the words "deadborn fetus" it was agreed to use them in parentheses after fetal death and in the numerators of ratios and rates. However, countries could drop the term in those language versions where this was appropriate.

Further extensive discussions and correspondence took place subsequently between WHO, FIGO and UNSO and revised proposals were submitted to the Centre Heads at their 1989 meeting. A number of separate comments and recommendations from UNSO were also discussed.

While the Centre Heads agreed that it was possible to accept the UNSO recommendation relating to the descriptors applied to the various ratios and rates and to the order of entry of items, problems remained regarding the definitions applied to maternal mortality and to the descriptors of the maternal mortality ratios and rates.

No explicit definition of maternal mortality had been included in the report of the Washington consultation.

The Centre Heads were concerned that the ICD-9 definition excluded the increasing number of deaths from obstetric causes that occurred after the end of the puerperium and recommended that maternal mortality should be defined as follows:

"A maternal death is defined as the death of a woman from any cause arising during pregnancy, childbirth or the puerperium (usually considered to be 42 days) irrespective of the duration and site of the pregnancy, even though death may occur after the end of the puerperium".

It should be noted that the ICD-9 definition of maternal mortality includes only direct and indirect obstetric deaths whereas the definition as proposed for ICD-10 includes maternal deaths from any cause i.e. direct obstetric, indirect obstetric and non-obstetric (coincidental) maternal deaths.

For the purposes of the international reporting of maternal mortality, only those deaths occurring before the end of the 42 day reference period would be included in the various ratios and rates, though it was felt that the collection of later deaths would be useful for national analytical purposes.

This change of definition has resulted in the addition of appropriate categories to the Chapter of Pregnancy, childbirth and the puerperium of ICD-10 to ensure that maternal mortality from direct obstetric causes could be defined by ICD codes according to when death occurred.

III. CERTIFICATE OF CAUSE OF PERINATAL DEATH

A certificate of cause of perinatal death together with instructions for completion and coding of the causes of death was introduced at the Ninth Revision of the ICD.

This certificate has been successfully adopted by a number of countries. At the meeting of Heads of WHO Collaborating Centres for Classification of Diseases held from 28 February to 7 March 1989, the London and Moscow Centres reported on their experience in the use of the certificate. The papers and subsequent discussion led the Centre Heads to recommend that the scope of the certificate should be extended to cover all neonatal deaths (i.e. those occurring during the first 28 days of life). This would require a change of title to show that the certificate was intended for fetal and neonatal deaths. Also, the instructions for selection and tabulation of a single underlying cause should be included in the section related to the certificate and not in the section on Definitions and Recommendations on Perinatal Mortality Statistics as had been the case in ICD-9.

IV. RECOMMENDED DEFINITIONS, STANDARDS AND REPORTING REQUIREMENTS FOR ICD-10 RELATED TO FETAL, PERINATAL, NEONATAL AND INFANT MORTALITY

1. <u>Definitions</u>

1.1 Live birth

Live birth is the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which, after birth, breathes or shows any other evidence of life as demonstrated by beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached; each product of such a birth is considered live born.

1.2 Fetal death [deadborn fetus]

Fetal death is death prior to the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy; the death is indicated by the fact that after such separation the fetus does not breathe or show any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached.

1.3 Birth weight

The first weight of the fetus or newborn obtained after birth.

1.4 Low birth weight

Less than 2500 g (up to, and including 2499 g).

1.5 Very low birth weight

Less than 1500 g (up to, and including 1499 g).

1.6 Extremely low birth weight

Less than 1000 g (up to, and including 999 g).

The duration of gestation is measured from the first day of the last normal menstrual period. Gestational age is expressed in completed days or completed weeks (e.g. events occurring 280 to 286 completed days after the onset of the last normal menstrual period are considered to have occurred at 40 weeks of gestation).

1.8 Pre-term

Less than 37 completed weeks (less than 259 days) of gestation.

1.9 Term

From 37 completed weeks to less than 42 completed weeks (259 to 293 days) of gestation.

1.10 Post-term

42 completed weeks or more (294 days or more) of gestation.

1.11 Perinatal period

The perinatal period commences at 22 completed weeks (154 days) of gestation (the time when birth weight is normally 500 g), and ends 7 completed days (168 hours) after birth.

1.12 Neonatal period

The neonatal period commences at birth and ends 28 completed days after birth. Neonatal deaths (deaths among live births during the first 28 completed days of life) may be subdivided into <u>early neonatal deaths</u>, occurring in the first seven completed days (168 hours) of life and <u>late neonatal deaths</u>, occurring after the seventh day but before 28 completed days of life.

2. Notes on definitions

- 2.1 For live births, birth weight should be measured preferably within the first hour of life before significant postnatal weight loss has occurred. Whilst statistical tabulations include 500 g groupings for birth weight, weights should not be recorded in those groupings. The actual weight should be recorded to the degree of accuracy that it is measured.
- 2.2 The definitions of "low", "very low", and "extremely low" birth weight do not constitute mutually exclusive categories. Below the set limits they are all-inclusive and therefore overlap. (i.e. "low" includes "very low" and "extremely low", while "very low" includes "extremely low").
- 2.3 Gestational age is frequently a source of confusion when calculations are based on menstrual dates. For the purposes of calculation of gestational age from the date of the first day of the last normal menstrual period and the date of delivery, it should be borne in mind that the first day is day zero and not day one; days 0-6 therefore correspond to "completed week zero", days 7-13 to "completed week one", and the 40th week of actual gestation is synonymous with "completed week 39". In order to avoid misunderstanding, tabulations should indicate both weeks and days.

3. Reporting requirements

- 3.1 It is recognized that legal requirements for the registration of fetal deaths and live births still vary from country to country and even within countries. However, it is recommended that, wherever possible, all fetuses and infants delivered weighing at least 500 g, whether alive or dead, be included in the statistical tabulations. When birth weight is unavailable, the corresponding criteria for gestational age (22 completed weeks), or body length (25 cm crown-heel) should be used. The criteria for deciding whether an event has taken place within the perinatal period should be applied in the order 1) birth weight, 2) gestational age, 3) crown-heel length. The inclusion of fetuses and infants weighing between 500 g and 1000 g in national statistics is recommended both because of its inherent value and because this inclusion improves the completeness of reporting at 1000 g and over.
- 3.2 In statistics for <u>international</u> comparison, inclusion of this group of extremely low birth weight births disrupts the validity of comparisons and is not recommended. Countries should therefore arrange registration and reporting procedures so that the events and the criteria for their inclusion in the statistics can be easily identified. Less mature fetuses and infants not corresponding to these criteria should be excluded from perinatal statistics unless there are legal or other valid reasons to the contrary, in which case this inclusion must be explicitly stated. Where these characteristics are unknown, the event should be included in, rather than excluded from, mortality statistics of the perinatal period. Countries should also present standard statistics in which both the numerator and the denominator of all ratios and rates are restricted to fetuses and infants weighing 1000 g or more (weight-specific ratios and rates); where birth weight is unavailable, the corresponding gestational age (28 completed weeks) or body length (35 cm crown-heel) should be used.
- 3.3 In reporting fetal, perinatal, neonatal and infant mortality statistics the number of deaths due to lethal malformations should whenever possible be identified for live births and fetal deaths and in relation to birth weight of 500-999 g and 1000 g or more. Neonatal deaths due to lethal malformations should be subdivided into early and late neonatal deaths. The availability of this information enables perinatal and neonatal mortality statistics to be reported with or without the deaths from lethal malformations. A lethal malformation is defined as a congenital morphological anomaly (see Chapter XVII) regarded to be the primary cause of death during the fetal and neonatal period.

When a malformation was thought to have led to a train of events resulting in death the fetus or infant should be classified under this heading. In other words, an infant with diaphragmatic hernia who died during surgery would be deemed to have died as a result of a lethal malformation. On the other hand, an infant with a hare lip that died of meningitis would not.

4. Ratios and rates

Published ratios and rates should always specify the denominator that has been used, i.e., live births or total births (live births plus fetal deaths). Countries are encouraged to provide the ratios and rates listed below, or as many of them as their data collection systems permit:

4.1 Fetal death ratio

Fetal deaths Live births x 1000 4.2 Fetal death rate:

Fetal deaths x 1000
Total births x 1000
4.3 Fetal death rate, weight-specific: Fetal deaths weighing 1000 g and over
Total births weighing 1000 g and over

4.4 Early neonatal mortality rate:

Early neonatal deaths
Live births

4.5 Early neonatal mortality rate worth

4.5 Early neonatal mortality rate, weight-specific:

Early neonatal deaths of infants weighing 1000 g and over at birth x 1000 Live births weighing 1000 g and over

4.6 Perinatal mortality ratio:

Fetal deaths and early neonatal deaths x 1000 Live births Live births

4.7 Perinatal mortality rate¹ Fetal deaths and early neonatal deaths x 1000 Total births

4.8 Perinatal mortality rate, weight-specific:

Fetal deaths weighing 1000 g and over, plus early neonatal deaths of infants weighing 1000 g and over at birth x 1000 Total births weighing 1000 g and over

4.9 Neonatal mortality rate:

Neonatal deaths x 1000 Live births

4.10 Neonatal mortality rate, weight-specific:

> Neonatal deaths of infants weighing 1000 g and over at birth x 1000 Live births weighing 1000 g and over

Infant mortality rate: 4.11

Number of deaths under one year of age x 1000 Live births

¹The perinatal mortality rate is the number of fetal deaths weighing at least 500 g (or, when birth weight is unavailable, after 22 completed weeks of gestation or with a crown-heel length of 25 cm or more), plus the number of early neonatal deaths, per 1000 total births. Because of the different denominators in each component, this is not necessarily equal to the sum of the fetal death rate and the early neonatal mortality rate.

4.12 Infant mortality rate, weight-specific:

Infant deaths among live births weighing 1000 g and over at birth x 1000 Live births weighing 1000 g and over

V. RECOMMENDED DEFINITIONS, STANDARDS AND REPORTING REQUIREMENTS FOR ICD-10 RELATED TO MATERNAL MORTALITY

1. <u>Definitions</u>

- 1.1 A maternal death is the death of a woman from any cause arising during pregnancy, childbirth or the puerperium (usually considered to be 42 days), irrespective of the duration and site of the pregnancy, even though death may occur after the end of the puerperium.
- 1.2 Maternal deaths may be subdivided into three groups:
- 1.2.1 Direct obstetric deaths: those resulting from complications of pregnancy, childbirth, or the puerperium including interventions, omissions, incorrect treatment, or from a chain of events resulting from any of the above.
- 1.2.2 Indirect obstetric deaths: those resulting from previous existing diseases or diseases that developed during pregnancy, childbirth, or the puerperium which were not due to direct obstetric causes but which were aggravated by the physiologic effects of pregnancy.
- 1.2.3 Non-obstetric maternal deaths: those resulting from accidental or incidental causes not related to pregnancy, childbirth, or the puerperium but occurring during that period.

2. Reporting requirements

- 2.1 For the purposes of the international reporting of maternal mortality only those deaths occurring before the end of the 42-day reference period should be included in the various ratios and rates, though the collection of later deaths is useful for national analytical purposes.
- 2.2 Published maternal mortality rates should always specify the numerator (number of recorded maternal deaths), which can be given as:
 - the number of recorded direct obstetric deaths, or
 - the number of recorded obstetric deaths (direct plus indirect), or
 - the number of all recorded maternal deaths, being the sum of both the number of recorded obstetric deaths and the number of recorded non-obstetric maternal deaths (each component value should be provided).
- 2.3 The denominator used for calculation of the maternal mortality ratios or rates should likewise be specified as the number of live births or the number of total births (live births plus fetal deaths). Where figures for both live births and fetal deaths are available, a ratio and a rate should be published for each denominator.

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- 2.4 Maternal deaths due to obstetric causes but occurring after the end of the puerperium should not be included in the calculation of maternal mortality
- 3. Ratios and rates

Rates should be expressed as a ratio of the numerator to the denominator, multiplied by 1 000, 10 000, or 100 000 as preferred and indicated by the country. Maternal mortality ratios and rates can thus be expressed as:

3.1 Maternal mortality ratio:

Maternal deaths (obstetric and non-obstetric) x k Live births

3.2 Maternal mortality rate:

Maternal deaths (obstetric and non-obstetric) x k Total births

3.3 Obstetric mortality ratio:

Obstetric deaths (direct and indirect) only x k Live births

3.4 Obstetric mortality rate:

Obstetric deaths (direct and indirect) only x k Total births

3.5 Direct obstetric mortality ratio:

Direct obstetric deaths only x k Live births

Live births

3.6 Direct obstetric mortality rate: Total births

where k may be 1 000, 10 000 or 100 000 as specified by the country.

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Geneva, 26 September - 2 October 1989

PROPOSALS FOR GLOSSARY DEFINITIONS FOR SOME SUBCATEGORIES OF Z60, Z61, Z62, Z63 IN THE CHAPTER ON FACTORS INFLUENCING HEALTH STATUS AND CONTACT WITH HEALTH SERVICES

The following glossary definitions are proposed to be included in Chapter XXI (Z-code) of ICD-10 to facilitate the use of the newly introduced categories Z60, Z61, Z62, and Z63.

Z60 Problems related to the social environment

- Z60.1 Atypical parenting situation
 Problems related to a parenting situation (e.g. rearing of children) other than of two cohabiting biological parents.
- Z60.4 Social exclusion and rejection

 Exclusion and rejection on the basis of personal characteristics, e.g. unusual physical appearance, illness or behaviour.

Excludes: target of adverse discrimination such as for racial or religious reasons (Z60.5).

Z60.5 Target of adverse discrimination and persecution

Persecution or discrimination, resulting in injury or humiliation on the basis of membership of some group (as defined by skin colour, religion, ethnic origin, etc.) rather than personal characteristics.

Excludes: social exclusion and rejection (Z60.4).

- Z61 Problems related to negative life events in childhood
- Z61.0 Loss of love relationship

 Loss of an emotionally close relationship, e.g. of a parent, a sibling, a very special friend or a loved pet, by death or permanent departure or rejection.
- Z61.1 Removal from home

 Admission to a foster home or a hospital causing psychosocial stress or forced conscription into an activity away from home for a prolonged period.
- Negatively altered pattern of family relationships

 Arrival of a new person into a family resulting in adverse change in child's relationships. Can include new marriage by a parent or birth of younger sibling.

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- Z61.3 Events resulting in loss of self-esteem

 Events resulting in a negative self reappraisal by the child. Failure in tasks with high personal investment. Disclosure or discovery of a shameful or stigmatizing personal or family event. Humiliation experiences.
- Problems related to sexual abuse of child by person with primary support group Problems related to any form of physical contact or exposure between an adult member of the child's household and the child that has led to sexual arousal, whether or not the child has willingly engaged in the sexual acts (e.g. any genital contact, manipulation or deliberate exposure of breasts or genitals).
- Problems related to sexual abuse of child by person outside of primary support group

 Problems related to contact or attempted contact with the child's or the other person's breasts or genitals, sexual exposure in close confrontation or attempt to undress or seduce the child, by a substantially older person outside the child's family, either on the basis of this person's position or status or against the will of the child.
- Problems related to physical child abuse

 Problems related to incidents in which the child has been injured in the past by any adult in the household to a medically significant extent (e.g. fractures, marked bruising) or that involved forms of violence that are abnormal (e.g. hitting the child with hard or sharp implements, burning or tying up of the child).
- Z61.7 Personal frightening experience
 Experience carrying a threat for the child's future, such as a kidnapping,
 natural disasters with a threat to life, injury with a threat to self-image or
 security, or witnessing a severe trauma to a beloved person.
- Z62 Other problems related to upbringing of child

 Lack of parental knowledge of what the child is doing or where the child is;

 poor control; lack of concern or lack of attempted intervention when the child is in risky situations.
- Z62.1 Parental overprotection

 Pattern of upbringing resulting in infantilization and prevention of independent behaviour.
- Z62.2 Institutional upbringing
 Group foster care in which parenting responsibilities are largely taken over by some form of institution (such as residential nursery, orphanage, children's home) or therapeutic care over a prolonged period in which the child is in a hospital, convalescent home or the like, without at least one parent living with the child.

- Hostility towards and scapegoating of child
 Negative parental behaviour specifically focussed on the child as an
 individual, persistent over time and pervasive over several child behaviours
 (e.g. automatically blaming the child for any problems in the household or
 attributing negative characteristics to the child).
- Z62.4 Emotional neglect of child

 Parent talking to the child in a dismissive or insensitive way. Lack of
 interest in the child, of sympathy for the child's difficulties and of praise
 and encouragement. Irritated reaction to anxious behaviour and absence of
 sufficient physical comforting (including lack of warmth).
- Inappropriate parental pressures and other abnormal quality of upbringing
 Parents forcing the child to be different than the local norm, either sex
 inappropriate (e.g. dressing a boy in girl's clothes), age inappropriate (e.g.
 forcing a child to take on responsibilities above her or his age) or otherwise
 inappropriate (e.g. pressing the child to engage in unwanted or too difficult
 activities).
- Other problems related to the primary support group, including family circumstances
- Z63.0 Problems in relationship with spouse or partner

 Discord between partners resulting in severe or prolonged loss of control, generalization of hostile or critical feelings or in a persisting atmosphere of severe interpersonal violence (hitting or striking).

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Geneva, 26 September - 2 October 1989

MORTALITY - MEDICAL CERTIFICATION AND RULES FOR CLASSIFICATION

INTRODUCTION

Three consultations have been convened by WHO to consider the instructions for the selection and coding of the underlying cause of death to be used in conjunction with ICD-10. A Working Party on the Review of Selection and Modification Rules for Underlying Cause of Death met in Budapest, Hungary in April 1983, and a Consultation on Rules and Definitions in Death Certification in Relation to ICD-10 was held in Titchfield, United Kingdom in April 1987. In addition, a Consultation on Cancer Coding Rules for ICD-10 took place in Geneva in November 1988.

The recommendations of these meetings combined with further input from temporary advisers, meetings of Heads of WHO Collaborating Centres for Classification of Diseases, and a full proposal for revision of the notes prepared by the Pan American Health Organization and the WHO Collaborating Centre for Classification of Diseases in Portugese, Sao Paulo, Brazil have resulted in definitive proposals for ICD-10. Also, field trials of the draft notes for the coding of death certificates with mention of malignant neoplasms have been conducted under the auspices of the International Agency for Research on Cancer and the United States National Cancer Institute.

Many of the proposed changes relate to the order of items, to improved wording and to the inclusion of additional explanation and examples to the coding rules. The substantive changes are outlined below.

INTERNATIONAL FORM OF MEDICAL CERTIFICATE OF CAUSE OF DEATH

In considering the international form of medical certificate of cause of death the Expert Committee on ICD-10, which met in Geneva from 23 to 27 November 1987, recognized that with an aging population frequently dying with multiple pathologies and the effect of therapeutic interventions increasing the number of possible statements between the underlying cause and the direct cause of death, an increasing number of conditions were being entered on death certificates in many countries. This often meant that once the direct and antecedent causes had been entered the only space left for the underlying cause was in Part II of the certificate.

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For these reasons the Expert Committee recommended that for ICD-10, an additional line (d) be added to Part I of the certificate. The Centre Heads at their 1989 meeting, however, realized that this recommendation might cause legal difficulties in some countries and recommended that a statement be included in ICD-10 to the effect that Member States could retain a certificate with three lines in Part I.

RULES FOR SELECTION OF CAUSE OF DEATH FOR PRIMARY MORTALITY TABULATION

Selection rules

In order to make the process of selection of a single cause easier to teach, understand and apply, it is proposed firstly to define what is meant by a "logical sequence" and then to formulate the various rules to explain the action to be taken in the presence or absence of a logical sequence.

It is proposed to redefine the General rule as a "General principle" in a positive rather than a negative way as follows:

"When more than one condition is entered on the certificate, select the condition entered alone on the lowest used line of Part I only if it could have given rise to all the conditions entered above it".

No change is proposed to ICD-9 Rules 1 and 2 except to substitute "logical sequence" and "General principle" for "reported sequence" and "General rule", respectively.

ICD-9 Rule 3 is probably the rule that caused the widest divergence in interpretation because of the difficulty found by coders in deciding whether one condition "can be considered" a direct sequel of another.

In order to minimize possible variations in interpretation, it is proposed to record the rule as follows:

"If the condition selected by the General principle or by Rule 1 or Rule 2 is obviously a direct consequence of another reported condition, whether in Part I or Part II, select this primary condition".

Also, additional guidance will be provided as to which conditions may be considered as obviously being a direct consequence of other reported conditions.

Modification rules

It is proposed to redesignate these rules by a letter instead of a number in order to distinguish them more clearly from the selection rules.

Regarding ICD-9 Rules 4 (Senility) and 5 (II1-defined conditions), the Budapest and Titchfield consultations recommended that Rules 4 and 5 should be combined. This was subsequently endorsed by the Expert Committee on ICD-10. The revised rule would read as follows:

"Rule A. Senility and ill-defined conditions Where the selected cause is classifiable to Chapter XVIII (Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified) except for R95 (Sudden infant death syndrome) and a condition classified elsewhere than to R00-R94, R96-R99 is reported on the certificate, reselect the cause of death as if the condition classified to Chapter XVIII had not been reported, except to take account of that condition if it modifies the coding".

and others in interpretation, as it attempted to make a distinction between those therapeutic misadventures related to trivial conditions and those associated with more serious conditions covered by Rule 12 (Errors and accidents in medical care). It is recommended that the part of the ICD-9 rule preferring a more serious unrelated condition should be deleted so that the rule would read:

"Rule B. Trivial conditions
Where the selected cause is a trivial condition unlikely to
cause death and a more serious condition is reported, reselect
the underlying cause as if the trivial condition had not been
reported. If the death was the result of an adverse reaction to
treatment of the trivial condition, select the adverse reaction".

International guidance as to what constitutes a trivial condition has not been given in the past because of a lack of agreement on these conditions. The Heads of WHO Collaborating Centres for Classification of Diseases have expressed their concern about the effect this has on the international comparability of mortality data and have agreed to supply WHO's Unit of Development of Epidemiological and Health Statistical Services with copies of national lists. These will then be collated and discussed at the next meeting of Centre Heads in 1990 with a view to their possible inclusion in the reorientation training material for ICD-10.

For ICD-9 Rules 7-9, no changes are proposed. These rules will appear in ICD-10 as:

Rule C. Linkage

Rule D. Specificity

Rule E. Early and late stages of disease

For ICD-9 Rule 10 (Late effects), no change is proposed to application. The term "Sequelae" is used instead of the ICD-9 designation Late effects to reflect the terminology in the draft proposals for ICD-10. The title of the rule would read as follows: Rule F. Sequelae.

In ICD-9, Rule 11 (Old pneumonia, influenza and maternal conditions) moved assignment away from pneumonia or influenza where there was evidence that the date of onset was one year or more prior to death or a resultant chronic condition was reported. Similarly, for maternal conditions, where there was evidence that death occurred more than 42 days after termination of pregnancy or a resultant chronic condition was reported, the underlying cause was reselected as if the maternal condition had not been reported.

Experience has shown that old pneumonia and old influenza are not a problem as a cause of late effects. Also, provision has been made in the draft proposal for ICD-10 to identify direct obstetric deaths occurring more than 42 days but less than one year after termination, and those occurring one year or more after termination. It is recommended therefore that this rule should be deleted.

ICD-9 Rule 12 (Errors and accidents in medical care) was introduced at ICD-9 in an attempt to identify those causes of mortality that were the result of an error or accident during medical care (conditions classifiable to ICD-9 categories E850-E858, E870-E876). Such information is however rarely available on death certificates and the little that is given is often misleading to the coder. The Titchfield consultation noted that physicians were reluctant to declare such circumstances and so there was little point in attempting to collect the information. Consequently, it is recommended that this rule be deleted.

NOTES FOR USE IN UNDERLYING CAUSE MORTALITY CODING

These notes are revised to reflect changes proposed for ICD-10 and to:

- allow human immunodeficiency virus [HIV] disease as a cause of malignant neoplasm;
- select tetanus (A35) as the underlying cause irrespective of the severity of the injury (in ICD-9 the external cause was selected when tetanus followed a serious injury but the tetanus was selected when there was only minor injury);
- assign accidents due to epilepsy to the external cause. In ICD-9 these were classified to epilepsy.

It was proposed that the linkages relevant to modification rule C should also be shown in a columnar format as in the following example:

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NOTES FOR INTERPRETATION OF ENTRIES OF CAUSES OF DEATH

It is proposed that in addition to the changes necessitated by the classification, the following amendments should be implemented:

ICD-9 Section I: Guides for the determination of the probability of sequences

For part B. Interpretation of "highly improbable":

- allow any infectious disease to be "due to" diseases and tumours compromising the immune mechanism, including the effects of chemotherapy and radiation;
- accept varicella zoster infections as "due to" diabetes.

ICD-9 Section III: Late effects

Amend title to "Sequelae", otherwise no change.

ICD-9 Section IV: Sex limitations

Change title to "Consistency between gender and diagnosis"

ICD-9 Section VI: Malignant neoplasms

It is proposed that this section should be significantly extended with more detailed guidance and examples to overcome inconsistent application of the notes in ICD-9. In particular, a new subsection is recommended for the use of category C97 (Independent (primary) multiple sites) and to allow any infectious disease, except HIV disease, to be "due to" cancer because of the immunosuppressive effects of modern therapy and to permit HIV disease as a cause of malignant neoplasms. The section related to "metastatic" neoplasms is considerably expanded as a result of experience obtained from the International Death Certificate Study organized by the United States National Cancer Institute.

ICD-9 Section VIII: Congenital anomalies

Amend title to "Congenital malformations, deformations and chromosomal abnormalities". Apart from the changed heading it is recommended that endocarditis and myocarditis should no longer be assumed to be congenital when death from these causes occurs at under four weeks of age.

ICD-9 Section IX: Nature of injury

ICD-9 provided an order of preference for cases where more than one kind of injury was mentioned. Given the proposed change in the main axis of classification in Chapter XIX from "type of injury" to "body region" it is recommended that where there is more than one kind of injury to a single body region and there is no clear indication as to which caused death then the General principle and the Selection rules should be applied in the normal way. When more than one body region is involved then coding should be made to the relevant category of Injuries involving multiple body regions (T00-T06).

The tollowing note is proposed to be added to the Notes for interpretation of entries of causes of death as guidance on the use of Chapter XX:

"External causes

The codes for External causes (V01-Y89) should be used as the primary codes for single-condition coding and tabulation of the underlying cause when, and only when, the morbid condition is classifiable to Chapter XIX (Injury, poisoning and certain other consequences of external causes).

When the morbid condition is classified to Chapters I-XVIII, the morbid condition itself should be coded as the underlying cause and categories from the chapter for External causes may be used, if desired, as supplementary codes."

No changes are propsed to ICD-9 sections:

- II. Effect of duration on classification
- V. Operations
- VII. Rheumatic fever with heart involvement
- X. Poisoning by drugs, medicaments and biological substances
- XI. Expression indicating doubtful diagnosis

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MORBIDITY - GUIDELINES FOR RECORDING AND CODING

1. INTRODUCTION

1.1 Background

Although the International Statistical Classification of Diseases and Related Health Problems had as its origin a classification for standard recording and coding of medical information concerning causes of death (mortality), in recent years the classification has been increasingly adapted so that it is suitable for application to data on illness, injuries and associated health care problems (morbidity). This has involved both greater specificity in the classification itself and extension to allow adequate classification of non-fatal conditions.

Mortality statistics are derived from medical certificates of causes of death which summarize the diseases, injuries and circumstances leading to death and, where there is more than one, categorize them so that one "underlying" cause can be selected for routine, single-cause analysis. This provides the data required for statistical analysis of the causes of mortality and for the derivation of information for epidemiological studies. The underlying cause has been defined from the standpoint of prevention of death with the aim of preventing the precipitating cause from operating, or of interrupting the chain of events, or of instituting a cure at some point.

For morbidity, the situation is far from clear-cut. Data have to be derived from whatever source-material is available in health care records, or collected specially, and a picture of illness and injury in the "community" has to be built up, piecemeal, from these various sources. The Sixth, Seventh and Eighth Revisions of ICD, whilst making recommendations concerning certification and rules for classification of causes of mortality, have been silent on the subject of morbidity, leaving such methods and rules to be developed by individual users, or groups of users, of the classification.

However, the interest in data on episodes of morbidity (either from records of episodes of health care or from surveys on episodes of illness or injury), has increased and more and more countries have started to collect data on a wide scale for routine analysis of morbidity in a way similar to that undertaken for mortality, and based on a single cause.

Starting with the Ninth Revision, WHO provided guidance on the recording of diagnoses and the selection of a single cause of morbidity from records of episodes of hospital or other health-care in this context. This has been clarified and elaborated in the light of experience and is set out in section 2 of the present paper.

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1.2 Sources of data on causes of morbidity

Information on the causes of illness and injury is recorded in clinical and administrative records when persons seek health care, when health care is delivered to them in the form of special programmes, and when health records are kept or special surveys are done of populations or sub-populations. Examples of such records are:

- hospital and similar in-patient records;
- ambulatory care (out-patient) records;
- records of maternal and child health services;
- school medical records;
- occupational medical records;
- armed services medical records;
- surveys of the population or sub-populations in which data are collected of episodes of illness current at a given point in time or experienced in a specified time-period;
- recording of occurrence of "sentinel" conditions or conditions such as congenital anomalies, communicable diseases etc;
- cancer and chronic disease registry records;
- special records kept over long periods of follow-up of particular groups or samples of people e.g. those born at a specific time, those who have suffered from a specific "index" disease or injury.

Where statistical analysis of morbidity is to be performed, the data have to be organized systematically, and the diagnoses classified according to ICD usually have to relate to conditions involved in a specific episode of illness or health care or to a cumulative series of such episodes. If the data are to be derived from detailed records kept primarily for clinical and administrative purposes, the relevant data must be easily identifiable for statistical processing.

1.3 Uses of morbidity data

Data derived from the above records can be used for many purposes and in various ways. The following are examples of some broad (and sometimes overlapping) areas:

- in clinical applications for treatment evaluation, clinical research and case retrieval;
- in applied epidemiology, where analysis of morbidity patterns of geographical areas or demographic and socioeconomic groups at the same period of time or over time, has an important role; with record linkage, it may be possible to estimate incidence and prevalence of some conditions, although this is subject to several important limitations;

- in preventive medicine, where morbidity data may provide clues to the etiology of disease and form the basis for evaluation of preventive measures;
- in surveillance of "sentinel" conditions of general importance or important in a particular area or at a particular time;
- in planning and management of health services for resource allocation, reimbursement, and monitoring and evaluation of health care utilization. The analysis of patterns and trends in disease and the use of health service facilities may contribute to the planning and development of medical education and health service manpower.

Whatever the application, all data need careful interpretation and it should be recognized that they have limitations as indicators of total "morbidity".

2. ROUTINE SINGLE-CAUSE ANALYSIS OF CAUSES OF MORBIDITY

2.1 <u>Definitions</u>

Many of the analyses described above are, particularly in relation to reimbursement, of an ad hoc or special nature, and rules for the recording of data and the presentation of statistics have to be developed locally.

Routine single-cause analysis of data derived from surveys should be based on the condition mainly responsible for the relevant episode of illness.

An "episode of health care" refers to a period of hospital or other in-patient care or to a series of contacts with a health care practitioner in relation to the same condition or its immediate consequences. Sometimes administrative considerations may determine what is regarded as an episode of health care. It is therefore important that the criteria adopted in defining what is meant by an "episode" be explicitly stated in presentation of the statistics.

The condition to be used for single-cause analysis of episodes of health care is the "main condition" treated or investigated during the relevant episode.

The MAIN CONDITION is defined as the diagnosis, established at the end of the episode of health care, of the condition primarily responsible for the patient receiving treatment or being investigated. If there is more than one such condition, the one which was responsible for the greatest use of resources should be selected. If no diagnosis was made, the main symptom, abnormal finding or problem should be selected as the main condition.

The record used for statistical analysis should, where practicable, also include, separately, "other conditions" or problems dealt with during the relevant episode of health care.

OTHER CONDITIONS are defined as those which co-exist or develop during the episode of health care and affect the management of the patient. Conditions that relate to an earlier episode and which have no bearing on the current episode of health care should not be recorded.

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The limitation of analysis to a single cause per episode necessarily involves a loss of information and it is recommended that, where practicable, multiple-condition coding and analysis be undertaken to supplement routine data. This should be done according to local rules, since no international rules have been recommended. However, some suggestions are included below about useful additional codes in particular situations where a single code is not adequate to represent fully the selected condition.

2.2 Guidelines for recording diagnostic information

General

The diagnoses in relation to the relevant episode of health care should be determined, and the "main condition" selected, by the health care practitioner responsible for the patient's treatment.

It is important that adequate health care record systems be provided in which the information is organized systematically and standard recording methods are used, thus allowing the responsible health care practitioner to indicate clearly his assessment of the "main condition" and "other condition" for each episode of health care. A properly-completed record is an essential tool in patient-management and also provides a valuable source of epidemiological and other statistical data on morbidity and other health care problems.

Specificity and detail

Each diagnostic label should be as informative as possible and should include whatever detail is available about the site, variety, etiology, etc. of the condition, to allow a good patient-management and at the same time a classification to the most specific ICD category. Examples of such diagnostic statements are shown below:

- transitional cell carcinoma of trigone of bladder;
- acute perforated appendicitis;
- diabetic cataract;
 - meningococcal pericarditis;
 - antenatal care for pregnancy-induced hypertension:
 - diplopia due to allergic reaction to antihistamine taken as prescribed;
 - osteoarthritis of hip due to an old hip fracture;
 - fracture of neck of femur;
 - third-degree burn of hand.

Uncertain diagnoses or symptoms

If, and only if, no definite diagnosis has been established by the end of an episode of health care, that information should be recorded which permits the greatest degree of specifity and knowledge about the condition which necessitated care or investigation. This should be in the form of stating a symptom, abnormal finding or problem, rather than qualifying a diagnosis as "possible", "questionable" or "suspected" when it has been considered but not established.

Non-illness situations

Episodes of health care or contact with health services are not restricted to the treatment or investigation of current illness or injury. When persons who are not currently sick or who have no condition classifiable to Chapters I-XIX encounter the health care system, details of the relevant circumstances should be recorded as the "main condition". an gydd Addinidiaethau

Examples of such reasons for contact are:

- monitoring of previously treated conditions;
- immunization:
- surveillance of persons at risk because of certain personal or family history:
- examinations of healthy persons for, e.g. insurance or occupational reasons;
- seeking of health-related advice;
- requests for advice by persons with social problems;
- consultation on behalf of a third party.

Chapter XXI (Factors influencing health status and contact with health services) provides a broad range of categories (200-298) for classifying these circumstances; reference to this chapter will give an idea of the detail required to permit classification to the most relevant category.

Multiple conditions

Where an episode of health care is directed at multiple related conditions, for example, multiple injuries, multiple sequelae of a previous illness or injury, or multiple conditions occurring in Human immunodeficiency virus [HIV] disease, and one of them is clearly more severe and resource-intensive than the others, that one should be recorded as the "main condition" and the others recorded as "other conditions". Where no one condition predominates in the use of resources, a term such as "multiple fractures", "multiple head injuries" or "HIV disease with multiple infections" may be recorded as the "main condition", followed by a list of the conditions. Only if this is impracticable because of the number of such conditions should a term such as "multiple injuries", or "multiple crushing injuries" be recorded alone. Categories are provided in ICD for coding "Multiple ... " where necessary.

Conditions due to external causes

Chapter XX (External causes of morbidity and mortality) permits the classification of external causes of morbidity. When a condition such as an injury, poisoning or an other effect of external causes is recorded, it is important to describe fully both the nature of the condition and the circumstances which gave rise to it. Examples are: "fracture of neck of femur caused by fall due to slipping on greasy pavement"; "cerebral contusion caused when patient lost control of car, which hit a tree"; "accidental poisoning patient drank disinfectant in mistake for soft drink"; "severe hypothermia - patient fell in her garden in cold weather".

Dual classification system ("dagger and asterisk" system)

The ICD provides a dual classification system (dagger (+) codes and asterisk (*) codes) for coding diagnostic statements which combine information about an underlying disease and a complication or manifestation in a particular organ or site. Where conditions linked in this way are the main reason for treatment or investigation, both elements should be included in the description of the "main condition", to allow the ICD coding to represent the situation fully. Examples of such descriptions are: "Tuberculous pericarditis", "Diabetic cataract", "Meningitis in infectious mononucleosis". Reference to the ICD manual will give an idea of the kind of conditions which the classification links in this way.

Treatment for sequelae of pre-existing conditions

Where an episode of care is for treatment or investigation directed to a residual condition (a "sequela") of a disease that is no longer present, the nature of the sequela should be fully described and its origin stated, together with a clear indication that the original disease is no longer present. Examples are: "Deflected nasal septum - fracture of nose in childhood", "Contracture of Achilles tendon - late effect of injury to tendon", "Infertility due to tubal occlusion from old tuberculosis".

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Where multiple sequelae are present and treatment or investigation is not directed predominantly at one of them, a statement such as "Sequelae of cerebrovascular accident" or "Sequelae of multiple fractures" is acceptable.

2.3 Guidelines for coding of "main condition"

General

The determination of the "main condition" and "other conditions" relevant to an episode of health care should have been done by the responsible health care practitioner, and coding is therefore usually straightforward, since the "main condition" indicated as such should be accepted for coding and processing unless it is obvious by reference to other data being coded that the health care practitioner has not understood or followed the guidelines provided in section 2.2. Whenever possible, a record with an obviously inconsistent or incorrectly recorded "main condition" should be returned to the responsible health care practitioner for clarification. Failing clarification, Rules MB1 to MB5 are provided to deal with the more frequent varieties of incorrect recording which the coder may encounter.

Once the "main condition" is determined, its ICD code should be assigned following normal procedures. In most cases this is straightforward, but guidelines are provided below for assignment in certain situations in which the coder may be unclear as to the appropriate code.

It has been recommended that "other conditions" in relation to an episode of care are recorded in addition to the "main condition" even when single-cause analysis only is to be performed. This also provides the coder with a full picture of the circumstances which may assist in the assignment of the correct ICD code for the "main condition".

Optional additional codes

In the guidelines below, a preferred code for "main diagnosis" is sometimes indicated, together with an optional additional code which may elaborate the situation. The preferred code is that to be used for the "main condition" for single-cause analysis and the additional code may be included, if wished, in the codes subjected to multiple-cause analysis.

Examples: ...

Coding of conditions to which the dagger and asterisk system applies

For diagnostic statements to which the dagger and asterisk system applies, both "dagger" and "asterisk" codes should be used for coding the "main condition", since they are alternatives permitting different kinds of single-cause analysis. (See Introduction to the Manual, pages ...). If it is not possible to use more than one code, the dagger code should be used, as this is the "traditional" ICD code for epidemiological purposes.

Examples: ...

<u>Coding of suspected conditions</u>, symptoms and abnormal findings, and non-illness <u>situations</u>

The coder should in general be wary of coding as the "main condition" conditions classifiable to Chapters XVIII and XXI if the episode of health care relates to a stay as an in-patient. If, but only if, it is apparent that no more specific diagnosis was formulated by the end of the in-patient stay, or that the in-patient care was genuinely that of a patient with no codable current illness or injury, codes from these chapters are perfectly acceptable. (See also Rules MB3 and MB5, pages and). For other types of episode of contact with health services, the categories are often acceptable without question.

recorded as "suspected ..." "questionable", etc., and other relevant information and clarification is not available or possible, the diagnosis must be coded as if it existed.

A category, Z04.-, is provided in ICD for coding certain conditions which were originally suspected but have been ruled out after study.

Examples: ...

Coding of multiple conditions

Where multiple conditions are recorded for which the ICD provides a category entitled "Multiple ..." and no single one of them is indicated as, or can be assumed to be, the condition to which treatment was predominantly directed, the code for the category or subcategory entitled "Multiple ..." should be used as the preferred code, and codes for any individual conditions listed should be added as optional additional codes.

This applies mainly to conditions associated with HIV disease, to injuries and sequelae. See the chapter-specific notes (section 2.5) for further explanation of coding.

Coding of combinations of conditions

The ICD provides certain categories where two conditions or a condition and an associated secondary process can be represented by a single code. Such combination categories should be used as the "main condition" where appropriate information is recorded. The Alphabetical Index indicates where such combinations are provided for, under the indent "with", which appears immediately after the lead term. Two or more conditions recorded under "main condition" may be linked if one of them may be regarded as an adjectival modifier of the other.

Examples: ...

Coding of external causes of morbidity

It is recommended that for injuries and other conditions due to external causes, both the nature of the condition and the circumstances of the external cause are to be coded. The preferred "main condition" code should be that for the nature of the condition. This will usually be classifiable to Chapter XIX, but will sometimes be in one of the other chapters. The code from Chapter XX indicating the external cause should be used as an optional additional code.

Examples: ...

Coding of sequelae of certain conditions

The ICD provides a number of categories entitled "Sequelae of ..." (B90-B94, E64, E68, G09, I69, O97, T90-T98, Y85-Y89) which may be used to indicate conditions not now present as the cause of a current problem undergoing treatment or investigation. The preferred code for the "main condition" is, however, the code for the nature of the sequela itself, to which the code for "Sequelae of ..." may be added as an optional additional code.

Where a number of different very specific sequelae is present, and treatment of no one of them predominates in severity and use of resources, it is permissible for the description "Sequelae of ..." to be recorded as the "main condition", and this may then be coded to the appropriate category. Note that it is sufficient that the causal condition be described as "old", "no longer present", etc. or that the resulting condition be described as "late effect of ...", or "sequela of ..." for this to apply. There is no minimum time interval.

Examples: ...

Where the "main condition" is recorded as being both acute (or subacute) and chronic, and ICD-10 provides separate categories or subcategories for each, the category for the acute condition should be used as the preferred "main condition".

Examples: ...

2.4 Rules for reselection when the "main condition" is obviously incorrectly recorded

As previously emphasized, it is the responsible health care practitioner who should indicate his selection of "main diagnosis" to be coded and this should normally be accepted for coding, subject to the guidelines above and in the chapter-specific notes in section 2.5.

However, certain circumstances or the availability of other information may indicate that the health care practitioner has not understood or not followed the advice on what was required. If it is not possible to obtain clarification from the health-care practitioner, one of the following rules may be applied and the "main condition" reselected.

Rule MB1. Minor condition recorded as "main condition", more significant condition recorded as "other condition"

Where a minor or long-standing condition or an incidental problem is recorded as the "main condition", and a more significant condition, relevant to the treatment given and/or the speciality which cared for the patient, is recorded as an "other condition", reselect the latter as the "main condition".

Examples: ...

Rule MB2. Several conditions recorded as "main condition"

If several conditions which cannot be coded jointly are recorded as the "main condition" and other details on the record point to one of them as being the "main condition" for which the patient received care, select that condition. Otherwise select the first mentioned.

Note: See paragraphs ... page ... on the use of "combination" and "multiple" codes.

Examples: ...

Rule MB3. Condition recorded as "main condition" is the presenting symptom of diagnosed treated condition

If a symptom or sign (usually classifiable to Chapter XVIII), or a problem classifiable to Chapter XXI, is recorded as the "main condition", and this is obviously the presenting sign, symptom or problem of a diagnosed condition recorded elsewhere, and care was given for the latter, reselect the diagnosed condition as the "main condition".

Examples: ...

Rule MB4. Specificity

Where the diagnosis recorded as the "main condition" describes a condition in general terms, and a term which provides more precise information about the site or nature of the condition is recorded elsewhere, reselect the latter as the "main

Examples: ...

Rule MB5. Alternative main diagnoses

Where a symptom or sign is recorded as the "main condition" with an indication that it may be due to either one condition or another, select the symptom as the "main condition".

Where two or more conditions are recorded as diagnostic options for the "main condition", select the first condition recorded.

Examples:

2.5 Chapter-specific notes

Guidance is provided below for specific chapters, where problems may be encountered in coding preferred and optional additional "main condition" codes. The preceding general guidelines and rules apply to all chapters, unless a specific chapter note states otherwise.

CHAPTER I: CERTAIN INFECTIOUS AND PARASITIC DISEASES

B20-B24 - Human immunodeficiency virus [HIV] disease

Categories and subcategories are provided for HIV disease with various other accompanying diseases. It is not uncommon for a patient with HIV disease to be treated during the same episode of care for more than one of these accompanying diseases, for example mycobacterial and cytomegalovirus infections. Code the "main condition" for that episode as selected by the health care practitioner to the appropriate subcategory.

Where the "main condition" has been recorded as HIV disease with multiple accompanying diseases, the appropriate .7 subcategory from B20-B22 should be coded, and additional codes used, if desired, to specify individual conditions listed.

Examples: ...

B95-B98 - Bacterial, viral and other infectious agents

Not to be used as "main condition" codes. These categories are provided for optional use as additional codes to identify the infectious agent or organism in diseases classified outside Chapter I. Infections of unspecified site due to these agents are classified elsewhere in Chapter I.

Examples: ...

A neoplasm, whether of primary or metastatic site, which is the focus of care during a relevant episode of health care should be recorded and coded as the "main condition". When the "main condition" as recorded by the health care practitioner is a primary neoplasm which is no longer present (having been removed during a previous episode of care) code as the "main condition" the neoplasm of secondary site, the current complication, or the appropriate set of circumstances from Chapter XXI (see page) which was the focus of treatment or investigation during the current episode of care.

Examples: ...

C80 - Malignant neoplasm without specification of site and C97 Malignant neoplasms of independent (primary) multiple sites

C80 and C97 should only be used for "main condition" coding when the health-care practitioner has clearly recorded the neoplasms in such a manner.

Examples: ...

CHAPTER III: DISEASES OF BLOOD AND BLOOD-FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM

Certain conditions classifiable to this chapter may result from drugs or other external causes. Codes from Chapter XX may be used as optional additional codes.

Examples: ...

CHAPTER IV: ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES

Certain conditions classifiable to this chapter may result from drugs or other external causes. Codes from Chapter XX may be used as optional additional codes.

Examples: ...

E10-E14 - Diabetes mellitus

In coding the "main condition", the selection of an appropriate subcategory from the list which applies to all of these categories should be based on the "main condition" as recorded by the health care practitioner. Subcategory .7 should only be used as the "main condition" code when multiple complications without a special preference of diabetes have been recorded as the "main condition".

Examples: ...

CHAPTER V: MENTAL AND BEHAVIOURAL DISORDERS

The definitions of categories and subcategories in this chapter are provided to assist the health care practitioner in establishing diagnostic labels; they should not be used by coders. The "main condition" code should be assigned on the basis of the diagnosis as recorded by the practitioner, even if there appears to be a conflict between the conditions described and the category title. In some categories, there is provision for optional additional codes to be used.

Certain conditions classifiable to this chapter may result from drugs or other external causes. Codes from Chapter XX may be used as optional additional codes.

G81-G83 - Paralytic syndromes

Not to be used as the preferred code for the "main condition" if a current case is recorded, unless the episode of care was directed predominantly at the paralysis itself. When coding to the cause, G81-G83 may be used as optional additional codes.

CHAPTER VII: DISEASES OF THE EYE AND ADNEXA

H54 - Blindness and low vision

Not to be used as the preferred code for the "main condition" if the cause is recorded, unless the episode of care was directed predominantly at the blindness itself. When coding to the cause, H54 may be used as an optional additional code.

CHAPTER VIII: DISEASES OF THE EAR AND MASTOID PROCESS

H90, H91 - Hearing loss

Not to be used as the preferred code for the "main condition" if the cause is recorded, unless the episode of care was directed predominantly at the hearing loss itself. When coding to the cause, H90 or H91 may be used as optional additional codes.

CHAPTER IX: DISEASES OF THE CIRCULATORY SYSTEM

115 (Secondary hypertension)

Not to be used for coding "main condition" if the cause is recorded, unless the episode of care was predominantly directed at the hypertension. When coding to the cause, Il5 may be used as an optional additional code.

CHAPTER XIV: DISEASES OF THE GENITOURINARY SYSTEM

N47, N97 - Infertility

Not to be used for coding "main condition" if a current cause is recorded, unless the episode of care was predominantly directed at the infertility. When coding to the cause, N47 or N97 may be used as an optional additional code.

CHAPTER XV: PREGNANCY, CHILDBIRTH AND PUERPERIUM

008 - Complications following abortion, ectopic and molar pregnancy

Not to be used as code for "main condition", except where a patient undergoes a new episode of care for treatment of a complication, for example, for a current complication of an abortion (003-007) which was the subject of a previous episode. May be used as optional additional code with categories 003-007 and with categories 000-002 to identify associated complications.

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Note that the inclusion terms provided at the subcategories of 008 should be referred to when assigning the fourth-character subcategories of 003-007.

081-084 - Method of delivery

Not to be used as "main condition" codes, unless no other condition classifiable in Chapter XV is recorded by the health care practitioner. May be used as optional, additional codes if tabulation of the method of delivery is desired and there is no separate data item indicating method of delivery.

097 - Sequelae of direct obstetric causes

Not to be used as preferred "main condition" code if the nature of the residual condition is recorded. When coding to the residual condition, 097 may be used as an optional additional code.

098-099 - Maternal diseases classifiable elsewhere but complicating pregnancy, labour and delivery, and the puerperium

The subcategories provided should be used as "main condition" codes in preference to categories outside Chapter XV when the conditions being classified have been indicated by the health care practitioner to have complicated the pregnant state, to have been aggravated by the pregnancy, or to have been the reason for obstetric care. The respective codes from other chapters may be used as optional additional codes to provide specificity of the condition.

CHAPTER XVIII: SYMPTOMS, SIGNS AND ABNORMAL CLINICAL AND LABORATORY FINDINGS NOT ELSEWHERE CLASSIFIED

Categories from this chapter should not be used as "main condition" codes unless the symptom, sign or abnormal finding was clearly the "main condition" treated or investigated during an episode of care and was unrelated to other conditions recorded by the health care practitioner. See also Rule MB3, page .

CHAPTER XIX: INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES

Where multiple injuries are recorded and no one of these has been selected as the "main condition" by the responsible health care practitioner, code to one of the categories provided for statements of multiple injuries of:

- same type to the same body region (usually 4th character .7 in categories \$00-\$99):
- different types to the same body region (usually 4th character or .0 or .7 in the last category of each block, i.e. S09, S19, S29 etc.);
- same type to different body regions (T00-T06).

This suffers with the following exceptions:

- internal injuries recorded with superficial injuries and/or open wounds only code to internal injuries as the "main condition";
- intracranial haemorrhage recorded with other injuries to the head only code to "intracranial haemorrhage" as the "main condition":
- fractures recorded with open wounds of the same location only code to "fracture" as the "main condition".

When the "multiple injury" categories are used, codes for any individual injuries listed may be used as optional additional codes.

CHAPTER XX: EXTERNAL CAUSES OF MORBIDITY AND MORTALITY

Not to be used as "main condition" codes. Intended to be used as optional additional codes to identify the external cause of conditions classified in Chapter XIX or elsewhere.

CHAPTER XXI: FACTORS INFLUENCING HEALTH STATUS AND CONTACT WITH HEALTH SERVICES

To be used as "main condition" codes only when circumstances other than a current illness necessitate an episode of health care. The list of blocks at the beginning of the chapter provides an indication of the types of circumstances included. It should be noted that use of this chapter will vary between localities, depending on the nature of the health care system, and comparisons may be difficult. For in-patient episodes, few of the categories are likely to be appropriate as a "main condition" code.

For episodes of care for follow-up of a previous illness, code the "main condition" to an appropriate subcategory of Z08-Z09. Where there is no appropriate subcategory, code to "Personal history of ... (the disease)" (Z85-Z87).

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THE FAMILY OF DISEASE AND HEALTH RELATED CLASSIFICATIONS

by

Dr K. Kupka

INTRODUCTION

The International Classification of Diseases (ICD), under different names and changing auspices, has undergone nine decennial revisions to reflect advances in medical knowledge and changing emphases in Public Health.

An additional five years have been allowed for the Tenth Revision to cope with major changes in its format and structure, to accommodate the content, and to solve several problems that had been identified in the existing classification.

PROBLEMS

(a) ICD was, from its origin until the Sixth Revision in 1948, used only for mortality statistics. Over the years its uses expanded to cover the whole spectrum of health data.

It is presently used to compile statistics on underlying causes of death, multiple causes of death, hospital and ambulatory care morbidity, and for epidemiological research, hospital indexing of medical records, medical audit systems, planning and evaluation of health services and finally economics: social security, health insurance, health cost and reimbursement for care services. ICD also serves the Health Administration — preventive as well as curative — in the planning, management and evaluation of services and its use is an essential basis of many fields of research.

Some of these uses started very soon after the introduction of the Sixth Revision, some during use of the Eighth Revision in the late sixtles, and others since the Ninth Revision in the late seventies.

(b) The degree of detail required from ICD varies over a very wide range of users, from rather simple community-based schemes like lay reporting or short lists for international reporting to very sophisticated and detailed classifications required by specialists, where even five and six character classifications often appear insufficient to provide all the information asked for. In addition, many countries do not necessarily have the necessary capacity and interest to cope with the current problems. This fact must be considered very seriously and receive an adequate solution.

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Les opinions exprimées dans les documents par des auteurs cités nommément n'engagent que lesdits auteurs.

(c) The periodic revisions of ICD modify its organisation and structure and result in changes to the numbering system and also in the content of categories. Furthermore, the revisions may have a deleterious influence on the comparability of data in studies over long periods. When the available space in the classification is unable to absorb new additional categories, changes to the content of many rubrics may make the studies of trends impossible.

The long process of obtaining the consensus of the international community and the large amount of work involved is very costly to prepare and implement, not only to WHO bu also to Member States and other interested groups.

(d) All of these problems, unforeseen uses, requests for varying degrees of detail, the frequency and scope of revisions, led to a new concept in classification. It became clea that no single classification scheme could solve all of the problems at hand and give equal satisfaction to all users for all uses at all times.

HISTORY OF THE CONCEPT FOR ICD-10

Experience has shown that if the ICD is not a perfect tool, and is subject to criticism because it is unable to respond equally to all, it remains definitely the best one in the field. Its durability as well as persistent and increasing uses testify to this. Many have successfully attempted to produce different schemes; this is a relativel easy task, but all efforts have failed to produce a better tool, accepted by the international community and able to replace the one we have - the ICD.

WHO realized very early in the Ninth Revision process which culminated in 1975, that some major changes had to take place and that not the ICD alone but a series of additiona classifications were needed to solve the above problems in the Tenth Revision.[1]

Since the late seventies therefore, various possible solutions have been envisaged, among which was a core classification (ICD) connected to a series of modules, each hierarchically structured and having a specific purpose and area of application.

After studies and discussions in cooperation with the various WHO Collaborating Centres for Classification of Diseases, a scheme elaborated around a core or simplified base classification was proposed at the Preparatory Meeting on ICD-10 held in Geneva in September 1983.[2]

The core classification was intended to be appropriate to all, regardless of the degree of development, its structure making it possible to expand or reduce the number of categories according to need. It was to be connected to a large family of related classifications to which the core would form a common base.

With only minor modifications, the proposal was subsequently endorsed at the meeting of the Expert Committee on ICD-10 held in Geneva in 1987.[3]

CONCEPT OF THE FAMILY OF CLASSIFICATIONS

This concept brings in two major changes:

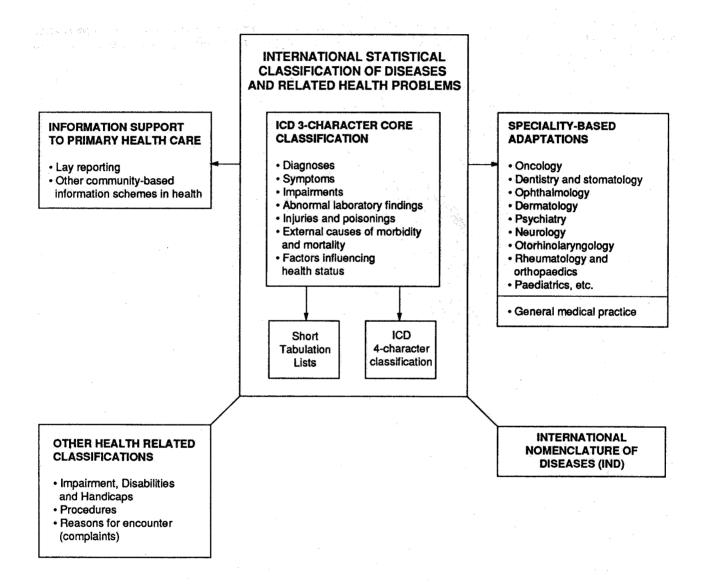
- A change from the traditional numeric coding system to an alphanumeric one more than doubling the available space for future additions and modifications. This proposal makes changes in the numbers of individual rubrics unnecessary in revisions to come and maintains the consistency of the content of rubrics in a more satisfactory manner.
- A shift from one single classification to a concept of a family where a core is surrounded by a series of supplementary classifications more or less closely interrelated and each serving a specific purpose.

As in any family, the definition may be more or less comprehensive and its membership may range from "blood-related" members to far more remote relatives "by marriage" or even to simple acquaintance.

STRUCTURE AND CONTENT OF THE FAMILY OF DISEASE AND HEALTH RELATED CLASSIFICATIONS

The proposed scheme is presented below:

FAMILY OF DISEASE AND HEALTH RELATED CLASSIFICATIONS



Each member of the family has a more or less remote relationship to the "CORE CLASSIFICATION", each is designed in a hierarchical way and is therefore collapsible or extendable to other meaningful groupings - compatible with the required degree of detail. The family is composed of:

- (a) ICD which contains a series of very closely "blood-related" classifications:
 - ICD three-character core representing the basic and main body of the classification. This "core" represents the minimum level of international comparability. It is the only mandatory one at the international level and often the only one used because of limited interest and ability.

For this reason it includes not only all diagnoses, but also a whole range of items like symptoms, impairments, abnormal findings, injuries and poisonings as well as external factors affecting health and non-medical reasons for contact with health services. In the past these were included in the supplementary classifications, "E" and "V" codes.

- ICD four-character classification resulting from the systematic subdivision of the three-character categories to offer a greater degree of specificity and to give satisfaction to more sophisticated users and more detailed uses.

It is intended to cover the needs in the traditional fields of mortality and morbidity and as much as possible in other - present and future - applications in related areas.

 Short tabulation lists, obtained by the selection of some individual three-character categories and the systematic grouping of other three-character categories of the CORE classification.

The short tabulation lists are only mandatory for statistics of mortality - the traditional main field of the ICD - but in many countries they are equally used for morbidity reporting. As in the past they are essential for the standardization and comparability of data.

The three-character core, the four-character classification and the short tabulation lists are an integral part of the ICD and are totally compatible with one another. In constructing these classifications and lists, the WHO secretariat benefited greatly from collaboration with various specialities, represented by non-governmental organizations (NGOs).

The categories at each level of detail had to be carefully structured so as to allow further extensions at the fifth-character level and beyond and to maintain the maximum of consistency.

(b) <u>International Nomenclature of Diseases</u> (IND), which should be, at least in theory, the basis of the classification of diseases.

At the beginning of the century the title of what eventually became the "ICD" was the "International Nomenclature" of which the main aim was to promulgate a uniform nomenclature - list of approved terms - in the field of mortality. The subsequent shift from the idea of a nomenclature to a statistical classification has been shown by the change of the title during the Sixth Revision in 1948.[4]

In 1970, the Council for International Organizations of Medical Sciences (CIOMS) began work on the International Nomenclature of Diseases in the hope of improving communications in the health field. Because of various factors and the extreme complexity of the tasks undertaken, the work is far from being completed in English, not to mention other languages.[5]

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Revisions of the ICD should reflect the agreed international nomenclature when available, even in part, in the text and promote its use. However, it must not be forgotten that ICD and IND have a very different role to play. A nomenclature requires extreme specificity, completeness and flexibility, while a classification, as the name indicates, relies on a limited number of categories of identical or similar entities as well as on residual categories, sometimes of a very heterogeneous nature consisting of groupings of less important entities ("others"). Such groupings - however justified - result in a loss of specificity.

(c) <u>Specialty-based adaptations</u> represent another degree of relationship with the main body of the ICD.

Among the first adaptations to appear, one must mention a modification of ICD8A oriented towards hospital morbidity (a version of the Eighth Revision adapted for use in the United States) published in 1968 for hospital purposes and the evaluation of health care under the title of Hospital Adaptation of ICDA (H-ICDA).[6]

This went some way to meet the requirement of various clinical specialties in the search for greater detail, detail not obtainable with the ICD-8. The <u>ICD-DA</u> [7] was also conceived at about the same time for dentistry and stomatology.

Many other specialty adaptations were subsequently created in the Seventies when ICD-9 was published, and in the Eighties. These included adaptations for <u>oncology</u> [8], <u>ophthalmology</u>, <u>neurology</u>, <u>rheumatology</u> and <u>orthopaedics</u>, and <u>dermatology</u>.

These specialty-based adaptations were produced mainly thanks to a very close collaboration between NGOs, WHO Divisions and Units, other agencies and the then ICD Unit, the latter mainly assuming a coordinating role and providing guidance and advice. All the adaptations exhibit similar characteristics in their structure and hierarchy resulting from the subdivision of groups existing in the ICD and allowing further subdivisions to provide meaningful extensions. There must exist others which are not known to WHO due to the fact that the copyright notice was omitted from Volume 1 of ICD-9 and this encouraged some to elaborate adaptations without the Organization being informed.

(d) General medical practice represents still another problem area.

The problems relevant to this field are often worded differently and any classification necessarily relies to a greater extent on traditional residual categories, symptoms, signs and complaints, and reasons for contact with health services. An adaptation for this purpose does not necessarily always require greater detail in the same manner as the above-mentioned adaptations and the relative importance of the problems encountered and their different nature require a different approach in different groupings and extensions.

One such adaptation - the International Classification of Health Problems in Primary Care (ICHPPC) dates back to 1975 and was conceived by the World Organization of National Colleges, Academies and Academic Associations of General Practitioners/Family Physicians (WONCA). It was revised in 1979 to conform to the newly published Ninth Revision of the ICD and to ensure direct comparability with it under the name of ICHPPC-2. In 1983 the classification was revised again, with the text supplemented by definitions - under the title ICHPPC-2-Defined.

(e) Information support to Primary Health Care

Classifications for Community-based schemes, such as <u>Lay Reporting of Health</u> <u>Information</u>, have yet another relationship as a family member. [9]

This was designed for the collection and presentation of <u>local</u> data, in particular situations, without particular concern about international comparability. It stems from the pioneering work in the 1950s in the collection of causes of death by non-medical personnel.[10]

In many parts of the world the lack of qualified medical personnel is a major reason for the absence of data needed by health administrations. WHO has undertaken several activities in this field since 1971. The International Conference for the Ninth Revision of the ICD acknowledged this effort and recommended further development of methods using lay or paramedical personnel.

In 1978, Lay Reporting of Health Information was published, thanks mainly to the interest and support of the WHO Regional Office for South-East Asia. This publication had been the subject of extensive field trials in many countries of several regions. With the advent of Primary Health Care as a concept at about the same time, the system was modified to facilitate the work of health administrations based on Primary Health Care in obtaining information on epidemiology and prevention. It is not a classification as such, but rather a model which needs adaptation and modification to fit local circumstances in data collection. A system developed for one area cannot be just copied for another, each region having different health problems and priorities.

The relevance of the scheme is mainly local, or sometimes regional, for immediate analysis. It is very simple in structure, the contents being limited to essential conditions according to frequency, severity and cost to the community. About twenty groups of conditions described in simple local terms are based on associations of main symptoms with additional manifestations. The minimal lists for mortality (30 items) and morbidity (48 items) are also included, as is an alphabetical index. The scheme has been adopted and adapted by a number of member states with very encouraging results.

It should, however, be remembered that there is a very low level of comparability with the ICD and analysis should preferably be done separately for each group of data.

(f) Other health related classifications include:

- Impairments, Disabilities and Handicaps. At the time of the Ninth Revision, WHO produced a data collection and coding scheme (rather than a classification, in spite of its name), for experimental use.[11] One of the merits of the classification is that it seeks to establish, for international acceptance and use, uniform definitions of the terminology used and often confused and misused in the field of rehabilitation. Tested in a series of countries, it has been widely discussed and reviewed, and versions have been published in a dozen languages in addition to the original English. Despite some difficulties and differences of opinion such as are normal in an international forum it has proved its usefulness and will be revised by WHO in the light of experience gained.
- Procedures in medicine. This classification, which had been requested many times over several decades, was finally published during the Ninth Revision for experimental use.[12] As a companion to ICD, but not part of it, it contains the therapeutic, diagnostic and prophylactic procedures in surgery and other fields of medicine.

Great difficulties were encountered because of the existence of several national classifications, problems of adequate updates in this fast moving field, and the necessarily slow consultation process in achieving international agreement. The current text will therefore not be subject to revision, but those chapters necessary to facilitate essential comparisons in the provision of care will be abstracted and updated and become part of the family of classifications.

- <u>Reasons for encounter.[13]</u> These reasons, as expressed by the patients themselves during a first contact with health personnel, are likely to be formulated in a somewhat different way than the reasons stated by the attending physician. The medical terminology being already included in the main body of the ICD, this particular classification was intended mainly for assessment and research in the diagnostic field and the qualitative measurement of the load on diagnostic services.

A great amount of work has been put into this task under the sponsorship and with the collaboration of the United States Public Health Service during the past several years. Additional work is needed to clarify the main objectives of its use and finalize the existing draft for publication.

POSSIBLE GROWTH OF THE FAMILY

There are additional health-related classifications which might form part of the family in the future. Some have been suggested previously, such as:

- Classification of occupational diseases and industrial accidents
 In view of the great variation in national legislation and definitions, this
 frequently asked for classification is at present facing practically insoluble
 problems at the international level. These could possibly be overcome at the
 country level, by providing an additional character to the code for the disease
 or the circumstances of the accident.
- <u>Classification of health status</u>. The need for such a classification has been expressed in the past, but no clear statement as to the intended use, definitions, or gradient of involvement have been formulated. This difficult task remains to be tackled.
- <u>Classification of diagnostic criteria and values</u>, to supplement the present ICD which in most instances disregards the differences in diagnostic values.
- Classification of health and health-related facilities
- Classification of laboratory results
- <u>Classification of the outcome of disease</u> evolution and outcome as a result of therapy or in the absence of any therapeutic intervention.

This list is far from being exhaustive more often than not, specific studies and objectives will need another "ad hoc" additional classification.

SUMMARY AND RECOMMENDATIONS

The concept of a family of related classifications appears to be at present the best solution to preserve the usefulness of the ICD. ICD is needed not only for international comparability but for national purposes as well as being essential in the field of health statistical systems in general in all countries, whatever the degree of development.[14]

Even the best conceived family of classifications will sooner or later face the impossibility of covering all future, and possibly unforeseen, needs, developments and problems. As in the past, so in the future, WHO will have to cope with a variety of often contradictory requests.

As to the future revisions they will be facilitated by the new structure of ICD-10 which provides space for possible extension and because of the existence of the family of classifications, the different components can be revised with different periodicity and at different times allowing for better distribution of work load and resources.

with problems of this magnitude. In view of its economic situation and limited human resources, it will have to limit itself to the revision problems. For various new classifications, adaptations and extensions, it will have to rely increasingly on the collaboration of different extra-organizational resources from the international community, whilst assuming a role of cooperative leadership and acting as a clearinghouse, providing technical guidance and support when needed. Overlap and replication of work would be avoided by a coordinated approach in the development of the various components.

In addition WHO will have to play the major role in the elaboration and promotion of the definitions and terminology used in the ICD field. Last but not least, it is to assist Member States in the elaboration of national versions and the introduction of the schemes by organizing training courses and making available the necessary teaching material.[15]

There is no doubt that WHO will, as it has in the past, assume this constitutional obligation and privilege to the best of its ability.

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TENTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES

Geneva, 26 September - 2 October 1989

RECOMMENDED GLOSSARY DEFINITIONS FOR ICD-10 CATEGORIES E43 AND E44 UNSPECIFIED SEVERE PROTEIN-ENERGY MALNUTRITION,
PROTEIN-ENERGY MALNUTRITION OF MODERATE AND MILD DEGREE IN THE CHAPTER ON ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES

by

Nutrition Unit

The following definitions are proposed for ICD-10 categories E43 and E44.

E43 Unspecified severe protein-energy malnutrition

Severe loss of weight in children or adults, or lack of weight gain in children leading to the loss of at least 3 percentile or 3 standard deviations. When only one measurement is made, a high probability of severe wasting is likely when weight or height is lesser than minus 3 standard deviations below the reference value in children or when body mass index is less than 18 in adults.

E44 Protein-energy malnutrition of moderate and mild degree

- E44.0 Moderate protein-energy malnutrition
 Weight loss of 2 up to 3 percentiles or standard deviations when compared to the
 previous growth of the individual. When only one measurement is made, a high
 probability of moderate protein-energy malnutrition is likely when weight or
 height is more than 2 and less than 3 standard deviations below the mean of a
 reference population distribution.
- E44.1 Mild protein-energy malnutrition
 Weight loss of 1 up to 2 percentiles or standard deviations when compared to the
 previous growth of the individual. When only one measurement is made, a high
 probability of moderate protein-energy malnutrition is likely when weight or
 height is more than 1 and less than 2 standard deviations below the mean of a
 reference population distribution.

The following note should be inserted below the block title "MALNUTRITION (E40-E46)".

When several previous measurements are available, failure to grow in children or weight loss in children or adults, leading to a shift of more than 3-2-1 percentiles or standard deviations when compared to the previous growth of the individual, should be classified as severe, moderate or mild malnutrition.

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When only one measurement is available, the diagnosis is only based on probabilities and is not definitive without other clinical or laboratory tests. In a normal (gaussian) distribution only 0.36%, 2.15%, and 13.5% of population are located below the cut-off points represented by 1, 2 or 3 standard deviations below the mean of the reference value. For observed values below the mean of the reference value, there is thus a high probability of severe malnutrition for a value situated more than 3 standard deviations from the mean, a high probability of moderate malnutrition for values located between 2 and less than 3 standard deviations and a high probability of mild malnutrition for values located between 1 and less than 2 standard deviations below the mean of a reference population distribution.

An isolated measure would thus give an erroneous classification of malnutrition in the case of a normal healthy individual whose weight is and has always been between minus 2 and minus 3 standard deviations. Conversely, a person whose weight is normally located 2 standard deviations or more above the mean and who has lost weight could, in an isolated measurement, show a value between the mean of the reference value and minus 1 standard deviation, and may therefore be erroneously classified as normal.

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Zoonotic bacterial diseases (020-027)
Other bacterial diseases (030-041)
Poliomyelitis and other non-arthropod-borne viral diseases of central
  nervous system (045-049)
Viral diseases accompanied by exanthem (050-057)
Arthropod-borne viral diseases (060-066)
Other diseases due to viruses and chlamydiae (070-079)
Rickettsioses and other arthropod-borne diseases (080-088)
Syphilis and other venereal diseases (090-099)
Other spriochaetal diseases (100-104)
Mycoses (110-118)
Helminthiases (120-129)
Other infectious and parasitic diseases (130-136)
Late effects of infectious and parasitic diseases (137-139)
              ICD/10
Chapter I
Intestinal infectious diseases (A00-A09)
Tuberculosis (Al5-Al9)
Certain zoonotic bacterial diseases (A20-A28)
Other bacterial diseases (A30-A49)
Infections with a predominantly sexual mode of transmission (A50-A64)
Other spirochaetal diseases (A65-A69)
Other diseases caused by chlamydiae (A70-A74)
Rickettsioses (A75-A79)
Viral infections of the nervous system (A80-A89)
Arthropod-borne viral fevers and viral haemorrhagic fevers (A90-A99)
Viral infections characterized by skin and mucous
  membrane lesions (B00-B09)
Viral hepatitis (B15-B19)
Human immunodeficiency virus [HIV] disease (B20-B24)
Other viral diseases (B25-B34)
Mycoses (B35-B49)
Protozoal diseases (B50-B64)
Helminthiasis (B65-B83)
Pediculosis, acariasis and other infestations (B85-B89)
Sequelae of infectious and parasitic diseases (B90-B94)
Bacterial, viral and other infectious agents (B95-B98)
Other infectious diseases (B99)
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Malignant neoplasm of lip, oral cavity and pharynx (140-149) Malignant neoplasm of digestive organs and peritoneum (150-159) Malignant neoplasm of respiratory and intrathoracic organs (160-165) Malignant neoplasm of bone, connective tissue, skin and breast (170-175) Malignant neoplasm of genitourinary organs (179-189) Malignant neoplasm of other and unspecified sites (190-199) Malignant neoplasm of lymphatic and haematopoietic tissue (200-208) Benign neoplasms (210-229) Carcinoma in situ (230-234) Neoplasms of uncertain behaviour (235-238) Neoplasms of unspecified nature (239)

Chapter II ICD/10

Malignant neoplasm of lip, oral cavity and pharynx (COO-C14) Malignant neoplasm of digestive organs (C15-C26) Malignant neoplasm of respiratory and intrathoracic organs (C30-C39) Malignant neoplasm of bone and articular cartilage (C40-C41) Malignant melanoma and other malignant neoplasms of skin (C43-C44) Malignant neoplasm of mesothelial and soft tissue (C45-C49) Malignant neoplasm of breast (C50) Malignant neoplasm of female genital organs (C51-C58) Malignant neoplasm of male genital organs (C60-C63) Malignant neoplasm of urinary tract (C64-C68) Malignant neoplasm of eye, brain and other parts of central nervous system (C69-C72) Malignant neoplasm of thyroid and other endocrine glands (C73-C75) Malignant neoplasm of ill-defined sites, secondary and unspecified site (C76-C80) Malignant neoplasm of lymphoid, haematopoietic and related tissue (C81-C96)Malignant neoplasms of independent (primary) multiple sites (C97) In situ neoplasms (D00-D09) Benign neoplasms (D10-D36) Neoplasms of uncertain and unknown behaviour (D37-D48)

Disorders of thyroid gland (240-246)

Diseases of other endocrine glands (250-259)

Nutritional deficiencies (260-269)

Other metabolic disorders and immunity disorders (270-279)

Chapter IV ICD/10

Disorders of thyroid gland (E00-E07)
Diabetes mellitus (E10-E14)
Other disorders of glucose regulation (E15-E16)
Disorders of other endocrine glands (E20-E35)
Malnutrition (E40-E46)
Other nutritional deficiencies (E50-E64)
Obesity and other hyperalimentation (E65-E68)
Hetabolic disorders (E70-E90)

Diseases of blood and blood-forming organs (280-289)

Chapter III ICD/10

Nutritional anaemias (D50-D53)
Haemolytic anaemias (D55-D59)
Aplastic and other anaemias (D60-D64)
Coagulation defects, purpura and other haemorrhagic conditions (D65-D69)
Other diseases of blood and blood-forming organs (D70-D76)
Certain disorders involving the immune mechanism (D80-D89)

Organic psychotic conditions (290-294)

Other psychoses (295-299)

Neurotic disorders, personality disorders and other nonpsychotic mental disorders (300-316)

Mental retardation (317-319)

Chapter V ICD/10

Organic, including symptomatic, mental disorders (F00-F09)

Mental and behavioural disorders due to psychoactive and other substance use (F10-F19)

Schizophrenia, schizotypal and delusional disorders (F20-F29)

Mood [affective] disorders (F30-F39)

Neurotic, stress-related and somatoform disorders (F40-F48)

Behavioural syndromes and mental disorders associated with physiological dysfunction (F50-F59)

Disorders of adult personality and behaviour (F60-F69)

Mental retardation (F70-F79)

Disorders of psychological development (F80-F89)

Behavioural and emotional disorders with onset usually occurring in childhood or adolescence (F90-F98)

Unspecified mental disorder (F99)

Other disorders of the central nervous system (340-349)
Disorders of the peripheral nervous system (350-359)
Disorders of the eye and adnexa (360-379)
Diseases of the ear and mastoid process (380-389)

Chapter VI ICD/10

Inflammatory diseases of the central nervous system (G00-G09)

Systemic atrophies primarily affecting the central nervous system (G10-G13)

Extrapyramidal diseases and movement disorders (G20-G26)
Other degenerative diseases of the nervous system (G30-G32)
Demyelinating diseases (G35-G37)

Episodic and paroxysmal disorders (G40-G47)

Nerve, nerve root and plexus disorders (G50-G59)

Polyneuropathies and other disorders of the peripheral nervous system (G60-G64)

Diseases of myoneural junction and muscle (G70-G73) Cerebral palsy and paralytic syndromes (G80-G83) Other disorders of the nervous system (G90-G99)

Chapter VII ICD/10

Disorders of eyelid, lacrimal system and orbit (H00-H06)
Disorders of conjunctiva (H10-H13)
Disorders of sclera, cornea, iris and ciliary body (H15-H22)
Disorders of lens (H25-H28)

Disorders of choroid and retina (H30-H36)

Glaucoma (H40-H42)

Disorders of vitreous body and globe (H43-H45)

Disorders of optic nerve and visual pathways (H46-H48)

Disorders of ocular muscles, binocular movement, accommodation and refraction (H49-H52)

Visual disturbances and blindness (H53-H54)

Other disorders of eye and adnexa (H55-H59)

Chapter VIII ICD/10

Diseases of external ear (H60-H62)

Diseases of middle ear and mastoid (H65-H75)

Disorders of inner ear (H80-H83)

Other disorders of ear (H90-H95)

Acute rheumatic fever (390-392)

Chronic rheumatic heart disease (393-398)

Hypertensive disease (401-405)

Ischaemic heart disease (410-414)

Diseases of pulmonary circulation (415-417)

Other forms of heart disease (420-429)

Cerebrovascular disease (430-438)

Diseases of arteries, arterioles and capillaries (440-448)

Diseases of veins and lymphatics, and other diseases of circulatory system (451-459)

Chapter IX ICD/10

Acute rheumatic fever (I00-I02)

Chronic rheumatic heart disease (IO5-IO9)

Hypertensive disease (I10-I15)

Ischaemic heart disease (I20-I25)

Pulmonary heart disease and diseases of pulmonary circulation (I26-I28)

Other forms of heart disease (I30-I52)

Cerebrovascular diseases (160-169)

Diseases of arteries, arterioles and capillaries (I70-I79)

Diseases of veins and lymphatics (I80-I89)

Other and unspecified disorders of the circulatory system (195-199)

Acute respiratory infections (460-466)

Other diseases of upper respiratory tract (470-478)

Pneumonia and influenza (480-487)

Chronic obstructive pulmonary disease and allied conditions (490-496)

Pneumoconioses and other lung diseases due to external agents (500-508)

Other diseases of respiratory system (510-519)

Chapter X ICD/10

Acute upper respiratory infections (J00-J06)

Acute lower respiratory infections (J10-J21)

Other diseases of upper respiratory tract (J30-J39)

Chronic lower respiratory diseases (J40-J47)

Lung diseases due to external agents (J60-J70)

Other respiratory diseases affecting principally the interstitium (J80-J84)

Suppurative and necrotic conditions of the lower respiratory tract (J85-J86)

Other diseases of the pleura (J90-J94)

Other diseases of the respiratory system (J95-J99)

Diseases of oral cavity, salivary glands and jaws (520-529)
Diseases of oesophagus, stomach and duodenum (530-537)
Appendicitis (540-543)
Hernia of abdominal cavity (550-553)
Noninfective enteritis and colitis (555-558)
Other diseases of intestines and peritoneum (560-569)
Other diseases of digestive system (570-579)

Chapter XI ICD/10

Diseases of the oral cavity, salivary glands and jaws (K00-K14)

Diseases of oesophagus, stomach and duodenum (K20-K31)

Diseases of appendix (K35-K38)

Hernia (K40-K46)

Noninfective enteritis and colitis (K50-K52)

Other diseases of intestines (K55-K63)

Diseases of peritoneum (K65-K67)

Diseases of the liver (K70-K77)

Disorders of gallbladder, biliary tract and pancreas (K80-K87)

Other diseases of the digestive system (K90-K93)

Nephritis, nephrotic syndrome and nephrosis (580-589)
Other diseases of urinary system (590-599)
Diseases of male genital organs (600-608)
Disorders of breast (610-611)
Inflammatory disease of female pelvic organs (614-616)
Other disorders of female genital tract (617-629)

Chapter XIV ICD/10

Glomerular diseases (NOO-NO8)

Renal tubulo-interstitial diseases (N1O-N16)

Renal failure (N17-N19)

Urolithiasis (N2O-N23)

Other disorders of kidney and ureter (N25-N29)

Other diseases of urinary system (N3O-N39)

Diseases of male genital organs (N4O-N51)

Disorders of breast (N6O-N64)

Inflammatory diseases of female pelvic organs (N7O-N77)

Noninflammatory disorders of female genital tract (N8O-N99)

Pregnancy with abortive outcome (630-639)

Complications mainly related to pregnancy (640-648)

Normal delivery, and other indications for care in pregnancy, labour and delivery (650-659)

Complications occurring mainly in the course of labour and delivery (660-669)

Complications of the puerperium (670-676)

Chapter XV ICD/10

Pregnancy with abortive outcome (000-008)

Oedema, proteinuria and hypertensive disorders in pregnancy, childbirth and the puerperium (010-016)

Other maternal disorders predominantly related to pregnancy (020-029)

Maternal care related to fetus and amnotic cavity and possible delivery problems (030-048)

Complications of labour and delivery (060-075)

Method of delivery (080-084)

Complications predominantly related to the puerperium (085-092)

Other obstetric conditions not elsewhere classified (095-099)

Infections of skin and subcutaneous tissue (680-686)

Other inflammatory conditions of skin and subcutaneous tissue (690-698)

Other diseases of skin and subcutaneous tissue (700-709)

Chapter XII ICD/10

Infections of the skin and subcutaneous tissue (L00-L08)
Bullous disorders (L10-L14)

Dermatitis and eczema (L20-L30)

Papulosquamous disorders (L40-L45)

Urticaria and erythema (L50-L54)

Radiation related disorders of the skin and subcutaneous tissue (L55-L59)

Disorders of skin appendages (L60-L75)

Other disorders of the skin and subcutaneous tissue (L80-L99)

Arthropathies and related disorders (710-719)

Dorsopathies (720-724)

Rheumatism, excluding the back (725-729)

Osteopathies, chondropathies and acquired musculoskeletal deformities (730-739)

Chapter XIII ICD/10

Infective arthropathies (MOO-MO3)

Inflammatory polyarthropathies (MO5-M14)

Arthrosis (M15-M19)

Other joint disorders (M20-M25)

Systemic connective tissue disorders (M30-M36)

Deforming dorsopathies (M40-M43)

Spondylopathies (M45-M49)

Other dorsopathies (M50-M54)

Disorders of muscles (M60-M63)

Disorders of synovium and tendon (M65-M68)

Other soft tissue disorders (M70-M79)

Disorders of bone density and structure (M80-M85)

Other osteopathies (M86-M90)

Chondropathies (M91-M94)

Other disorders of the musculoskeletal system and connective tissue (M95-M99)

Chapter XVII ICD/10

Congenital malformations of the nervous system (Q00-Q07)

Congenital malformations of eye, ear, face and neck (Q10-Q18)

Congenital malformations of the circulatory system (Q20-Q28)

Congenital malformations of the respiratory system (Q30-Q34)

Cleft lip and cleft palate (Q35-Q37)

Other congenital malformations of the digestive system (Q38-Q45)

Congenital malformations of genital organs (Q50-Q56)

Congenital malformations of the urinary system (Q60-Q64)

Congenital malformations and deformations of the musculoskeletal system (Q65-Q79)

Other congenital malformations (Q80-Q89)

Chromosomal abnormalities not elsewhere classified (Q90-Q99)

Certain conditions originating in the perinatal period (760-779)

Chapter XVI ICD/10

Fetus or newborn affected by maternal factors and by complications of pregnancy, labour and delivery (POO-PO4)

Disorders relating to length of gestation and fetal growth (PO5-PO8) Birth trauma (PlO-Pl5)

Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)

Infections specific to the perinatal period (P35-P39)

Haemorrhagic and haematological disorders of fetus or newborn (P50-P61)

Transitory endocrine and metabolic disorders specific to fetus or newborn (P70-P74)

Digestive system disorders of fetus or newborn (P75-P78)

Conditions involving the integument and temperature regulation of fetus or newborn (P80-P83)

Other disorders originating in the perinatal period (P90-P95)

Symptoms (780-789)

Nonspecific abnormal findings (790-796)

Ill-defined and unknown causes of morbidity and mortality (797-799)

Chapter XVIII ICD/10

Symptoms involving the circulatory system (ROO-RO4)

Symptoms involving the respiratory system (RO5-RO9)

Symptoms involving the digestive system (R10-R19)

Symptoms involving the skin and other integumentary tissue (R20-R23)

Symptoms involving the nervous and musculoskeletal systems (R25-R29)

Symptoms involving the urinary system (R30-R39)

Symptoms involving cognition, perception, emotional state and behaviour (R40-R46)

Symptoms involving speech and voice (R47-R49)

General symptoms (R50-R69)

Abnormal findings on examination of blood without diagnosis (R70-R79)

Abnormal findings on examination of urine without diagnosis (R80-R82)

Abnormal findings on examination of other body fluids, substances and tissues without diagnosis (R83-R89)

Abnormal findings on diagnostic imaging and function studies without diagnosis (R90-R94)

Ill-defined and unknown causes of mortality (R95-R99)

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Fracture of skull (800-804)
Fracture of spine and trunk (805-809)
Fracture of upper limb (810-819)
Fracture of lower limb (820-829)
Dislocation (830-839)
Sprains and strains of joints and adjacent muscles (840-848)
Intracranial injury, excluding those with skull fracture (850-854)
Internal injury of chest, abdomen and pelvis (860-869)
Open wound of head, neck and trunk (870-879)
Open wound of upper limb (880-887)
Open wound of lower limb (890-897)
Injury to blood vessels (900-904)
Late effects of injuries, poisonings, toxic effects and other
  external causes (905-909)
Superficial injury (910-919)
Contusion with intact skin surface (920-924)
Crushing injury (925-929)
Effects of foreign body entering through orifice (930-939)
Burns (940-949)
Injury to nerves and spinal cord (950-957)
Certain traumatic complications and unspecified injuries (958-959)
Poisoning by drugs, medicaments and biological substances (960-979)
Toxic effects of substances chiefly nonmedicinal as to source (980-989)
Other and unspecified effects of external causes (990-995)
Complications of surgical and medical care not elsewhere
  classified (996-999)
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Injuries to the head (S00-S09)

Injuries to the neck (S10-S19)

Injuries to the thorax (S20-S29)

Injuries to the abdomen, lower back, lumbosacral spine and pelvis (S30-S39)

Injuries to the shoulder and upper arm (S40-S49)

Injuries to the forearm, except wrist and hand (S50-S59)

Injuries to the wrist and hand (S60-S69)

Injuries to the hip and thigh (S70-S79)

Injuries to the knee and lower leg (S80-S89)

Injuries to the ankle and foot (S90-S99)

Injuries involving multiple body regions (T00-T06)

Injuries to unspecified part of trunk, limb or body region (T07-T11)

Effects of foreign body entering through natural orifice (T12-T19)

Burns and corrosions (T20-T32)

Frostbite (T33-T35)

Poisoning by drugs and biological substances (T36-T50)

Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)

Other and unspecified effects of external causes (T66-T78)

Certain early complications of trauma (T79)

Complications of surgical and medical care (T80-T89)

Sequelae of injuries, poisoning and of other consequences of external causes (T90-T98)

ACCIDENTS (VO1-X59)

TRANSPORT ACCIDENTS (V01-V99)

- Pedestrian injured in transport accident (V01-V09)
- Pedalcyclist injured in transport accident (V10-V19)
- Motorcycle rider injured in transport accident (V20-V29)
- Three-wheeled motor vehicle occupant injured in transport accident (V30-V39)
- Car occupant injured in transport accident (V40-V49)
- Pickup truck or van occupant injured in transport accident (V50-V59)
- Heavy transport vehicle occupant injured in transport accident (V60-V69)
- Bus occupant injured in transport accident (V70-V79)
- Other land transport accidents (V80-V89)
- Other transport accidents (V90-V99)
- Water transport accidents (V90, V94)
- Air and space transport accidents (V95-V97)
- Other and unspecified transport accidents (V98, V99)

OTHER ACCIDENTS (WOO-X59)

- Falls (w00-w19)
- Exposure to inanimate mechanical forces (W20-W49)
- Exposure to animate mechanical forces (W50-W64)
- Accidental drowning and submersion (W65-W74)
- Other accidental threats to breathing (W75-W84)
- Exposure to electric current, radiation and extreme ambient air temperature and pressure (W85-W99)
- Exposure to smoke, fire and flames (X00-X09)
- Contact with heat and hot substances (X10-X19)
- Contact with venomous plants and animals (X20-X29)
- Exposure to forces of nature (X30-X39)
- Accidental poisoning by and exposure to noxious substances (X40-X49)
- Overexertion travel and privation (X50-X57)
- Exposure to other and unspecified factors (X58, X59)

INTENTIONAL SELF-HARM (includes suicide) (X60-X84)

ASSAULT (X85-Y09)

EVENT OF UNDETERMINED INTENT (Y10-Y34)

LEGAL INTERVENTION AND OPERATIONS OF WAR (Y35, Y36)

COMPLICATIONS OF MEDICAL AND SURGICAL CARE (Y40-Y84)

- Drugs and biological substances causing adverse effects in therapeutic use (Y40-Y59)
- Misadventures to patients during surgical and medical care (Y60-Y69)
- Medical devices associated with adverse incidents in diagnostic and therapeutic use (Y70-Y82)
- Surgical and medical procedure as the cause of abnormal reaction of patient or of later complication, without mention of misadventure at the time of procedure (Y83,Y84)

SEQUELAE OF EXTERNAL CAUSES (Y85-Y89)

SUPPLEMENTARY FACTORS RELATED TO MORBILITY AND MORTALITY (Y90-Y98)

- Persons with potential health hazards related to communicable diseases (V01-V07)
- Persons with potential health hazards related to personal and family history (V10-V19)
- Persons encountering health services in circumstances related to reproduction and development (V20-V28)
- Healthy liveborn infants according to type of birth (V30-V39)
- Persons with a condition influencing their health status (V40-V49)
- Persons encountering health services for specific procedures and aftercare (V50-V59)
- Persons encountering health services in other circumstances (V60-V68)

tion cases, for the case of the case of animals for

Persons without reported diagnosis encountered during examination and investigation of individuals and populations (V70-V82)

Court Company (1970) is a substitute of the contract of the co

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- Persons encountering health services for examination and investigation (Z00-Z13)
- Persons with potential health hazards related to communicable diseases (Z20-Z29)
- Persons encountering health services in circumstances related to reproduction (Z30-Z39)
- Persons encountering health services for specific procedures and care (Z40-Z53)
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- Persons encountering health services in other circumstances (270-276)
- Persons with potential health hazards related to family and personal history and certain conditions influencing the health status (Z80-Z98)

| CHAPTER | AVAILABLE | USED | *CATEGORIES | 3-CHARACTERS |
|---|--|--|---|--|
| | 3-CHARACTER | 3-CHARACTER | AT 3-CHARACTER | WITHOUT SUB- |
| | CATEGORIES | CATEGORIES | LEVEL | DIVISIONS |
| XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 200 150 50 100 100 100 60 40 100 100 100 100 100 100 100 100 100 | 170 136 32 73 77 67 47 24 76 63 71 72 79 82 77 58 87 91 196 375 82 | 1 2 2 16 12 5 8 3 5 6 12 9 | 38 22 5 17 16 13 2 5 7 18 5 15 1 15 11 7 1 39 13 9 4 |

| CHAPTER | AVAILABLE 3-DIGIT CATEGORIES | USED 3-DIGIT CATEGORIES | *CATEGORIES AT 3-DIGIT LEVEL | 3-DIGITS WITHOUT SUBDIVISION |
|---------|------------------------------|-------------------------------|------------------------------------|------------------------------------|
| | | | · | |
| ı | 139 | 120 | • | 23 |
| II | 100 | 92 | - | 10 |
| III | 40 | 37 | . | 5 |
| IA | 10 | 10 | • | 1 |
| Δ | 30 | 30 | • | 5 |
| VI | 70 | 65 | 1 | 4 |
| VII | 70 | 58 | <u>.</u> | 13 |
| AIII | 60 | 49 | 2 | 22 |
| IX | 60 | 48 | • | 7 |
| x | 50 | 47 | • | 7 |
| XI | 50 | 46 | • | 8 5 2 |
| XII | 30 | 26 | • | 5 |
| XIII | 30 | 30 | 1 | 2 |
| XIV | 20 | 20 | • | |
| XV | 20 | 20 | • | 1 |
| XVI | 20 | 20 | • | 1 |
| XVII | 200 | 190 | • | 10 |
| E-code | 200 | 192 | | 50 |
| V-code | 100 | 77 | • | 1 |

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| XII | Diseases of the skin and subcutaneous tissue | L00-L99 |
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