Prepared for the
International
Working Group
on Taxonomic
Databases for
Plant Sciences
(TDWG)

# ECONOMIC DATA COLLECTION STANDARD BOLLAND

Frances E M Cook



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Prepared for the International Working Group on Taxonomic Databases for Plant Sciences (TDWG)

Frances E.M. Cook

Royal Botanic Gardens, Kew

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### INTRODUCTION

### **MIA**

The aim of the Economic Botany Data Collection Standard is to provide a system whereby uses of plants (in their cultural context) can be described, using standardised descriptors and terms, and attached to taxonomic data sets. Studies on the uses of plants are becoming increasingly important and the standardisation of terms and a unified system to describe uses would be of enormous benefit to gatherers of information, especially where exchanges of data sets are involved.

### **POTENTIAL USERS**

There are various potential users of a standard which allows descriptions of plant uses to be related to taxonomic data sets. They include:

- 1. educationalists, taxonomists, biochemists, anatomists etc. who wish to record plant use, often at a broad level;
- 2. economic botanists and ethnobotanists whose purpose is to record all known information about the uses of a taxon;
- 3. economic botany collection curators who need to describe accurately the uses and values of specimens in their collections;
- 4. bibliographers who need to describe plant uses referred to in publications and to apply keywords consistently for ease of data retrieval.

### HISTORY OF THE STANDARD

It was first decided that the International Working Group on Taxonomic Databases for Plant Sciences (TDWG) should become involved with the setting up of a standard for economic botany at its fifth meeting in 1989 (TDWG5). As the Royal Botanic Gardens, Kew was already much involved in this type of work, I agreed to convene the subgroup for this topic. The first year was spent contacting various individuals and institutes to find out the types of economic botany data then being recorded, and the means used for handling these within databases. From this, and discussions at TDWG6 (1990), it was decided that the most important tasks for the subgroup were to produce i) a stable top and second level classification of uses and ii) a classification of useful plant parts. During the following year I produced a draft standard drawing on the experience of three databases at the Royal Botanic Gardens, Kew concerning economic plants, namely SEPASAL (Survey of Economic Plants for Arid and Semi-Arid Lands), the Economic Botany Bibliographic Database, and the Catalogue of the Economic Botany Collections. With a decade of experience of coding information, I was aware of the wide range of uses and other factors that are included in economic botany data and of the various ways in which they can be organised. A draft proposal for standard economic botany descriptors was presented at TDWG7 (1991) and circulated for The draft document was revised in the light of these comments and presented to TDWG8 (1992). The proposed standard was voted on and accepted in its entirety as a standard for economic botany data. The present publication is essentially the same as was passed at TDWG8 but with some modifications resulting from discussions at the meeting, together with format changes to aid understanding and practical use of the standard.

## DESCRIBING USES AND VALUES OF PLANTS GUIDELINES FOR DATA COLLECTION

An ideal and complete description of the use and/or value of a plant should include the following:

**Source of information on use.** Is the source personal observation, or from elsewhere? If the latter, reference citations should be given. Where appropriate, voucher specimen details should be provided (collector, number, date, herbarium) and details of the informant recorded (name, gender, approximate age, occupation, ethnic identity, locality and language spoken).

**Use/value.** What is the plant used for, or what negative values does it have (e.g. as a weed affecting food production, or as an accidental poison)?

Plant part used. Which plant parts are used, or have any negative values?

**Organisms.** Which organisms use the plant/plant parts (e.g. for forage, medicines) or are affected by the plant (e.g. by poisons)?

**Users.** Who recognises the value of the plant? State ethnic group (tribe/caste/sect etc. with language/dialect, locality/area).

**Vernacular name(s).** The name of the taxon must be distinguished from the name of plant parts, the names of any processing stages, and the final product. Names used in trade should be identified. It should also be mentioned if any vernacular name refers to more than one taxon. The use of some names may be restricted to a time of year or occasion, or have sacred connotations. The language and dialect to which the names belong should be stated along with details of ethnic group. Care should be taken with transliteration into the Roman alphabet; if a standard system exists, use it and note which one it is.

**Production details** (where relevant). Are wild/protected/cultivated plants used? Give details of cultivation, harvesting, yields, processing and storage methods and take note of special tools, timing etc.

**Means of application/administration.** This is of particular relevance to medicines, poisons (e.g. insecticides), social products and some environmental purposes (e.g. fertilisers).

Season of availability and season of use. Note these and, if relevant, time of day.

Conservation data. Record frequency of plants, details of regeneration, sustainability or over-exploitation and note any locally imposed bans on felling or harvesting.

Use type. Is it a traditional, modern industrial or just a possible use?

**Economics.** Is there trade in the live plants, plant parts, or derived products, and, if so, on what scale?

Rating and Popularity. Is the plant highly valued for its use or are other species preferred and, if so, which? Try to record factors influencing any preference, e.g. rarity, inaccessibility, depleted source, or low quality, ineffectiveness, difficult harvesting or processing requirements.

**Properties.** Provide details of properties which influence its value for a specified purpose, e.g. nutritional value for foods; occurrence of bioactive compounds for medicines/poisons; mechanical and physical properties of woods; nectar flow periods and flowering dates for bee plants; calorific values and burning qualities of fuels; sizes of plants used environmentally etc.

**Problems.** Is the plant, for example, an invasive crop weed, a host for crop pests or diseases, or a livestock poison? Problems can also be linked to popularity (or lack of it).

**Potential.** Could the use, cultivation, manufacture of products etc. be increased and/or introduced to other areas or social groups?

Many of the categories listed above are better left to structured notes (or free text) fields in any database but, for other categories, descriptors with carefully defined states can be usefully assigned. Some descriptors will be common to many use types whilst others need to be specifically created to satisfy recording requirements within a single broad use type.

# STRUCTURE, MAINTENANCE AND IMPLEMENTATION OF THE ECONOMIC BOTANY DATA COLLECTION STANDARD

### **OVERVIEW**

The previous section illustrated the numerous aspects involved in fully describing and evaluating the use of a plant in its cultural context. The Economic Botany Data Collection Standard has tried to account for these various information categories and has recognised that different users will be interested in collecting or storing data at differing levels of detail, hence the flexibility built into it. Appendix H (Table 66) provides a worked example of how this standard can be used to describe all uses of a taxon. Table 67 within this Appendix provides a guide to the interpretation of fonts which are used to help the reader understand the different levels of the standard. For the purpose of this standard a descriptor is defined as an information category for which there is a list of terms from which appropriate states can be selected.

There are three levels to the main part of the Economic Botany Data Collection Standard. Table 3 shows the relationship between these three levels. The broadest is **LEVEL 1** and the most specific is Level 3. There are thirteen states at **LEVEL 1** (Table 1) and 107 at **Level 2** (Table 2). Level 3 differs from **LEVEL 1** and **Level 2** in that it is not a list of states for a single descriptor that is available for selection; rather it comprises between one and four descriptors (each with their own list of states). It is

the linking of the selected states for the available descriptors at Level 3 that allows the detailed description of a specific use (see Appendix H). The descriptors available at Level 3 are dependent on the **Level 2** status.

In addition to the three levels, there are some independent descriptors that are related to uses but which are not linked directly to Levels 1-3; these have been called <u>Stand-Alone</u> descriptors. They have been included as descriptors for information categories that concern use-related properties of a plant or plant part, where retrieval of taxa with specific states from the database could be important.

Finally there are *Note Categories* where free text can be stored. These enable the storage of fine details about the uses of a plant and are useful where searching for specific terms is not a requirement. Some keywords, however, have been <u>suggested</u> to allow for some uniformity, but terms recorded in the *Note Categories* need not be restricted to the keywords.

### MAINTENANCE

**LEVEL 1** and **Level 2** of this standard are stable. It should be possible to classify **all** uses into **LEVEL 1** and **Level 2** states. No new **LEVEL 1** or **Level 2** states should be necessary. By contrast, at Level 3, new states will continually need adding, as new specific uses for plants are discovered or invented, but new Level 3 descriptors ought not be added. It is likely that new <u>Stand-Alone</u> descriptors and *Note Categories* may be required as there becomes greater awareness of the factors involved in the description and evaluation of the uses of plants, certainly new states for the <u>Stand-Alone</u> descriptors and new keywords for the *Note Categories* will be necessary. The author is happy to act as co-ordinator responsible for any additions to the standard.

### **IMPLEMENTATION**

The implementation, into a computer database, of a standard such as this depends on a coding system. A trial is currently underway at the Royal Botanic Gardens, Kew to implement this standard in its entirety, in the revised version of the SEPASAL database. The codes for the system will be published once its success has been ensured. However, due to their predicted stability, codes for **LEVEL 1** and **Level 2** are provided in this document.

### **LEVEL 1 STATES**

Thirteen **LEVEL 1** states cover <u>all</u> uses of plants (Table 1). This should therefore be a stable list, requiring no additions.

TABLE 1. LEVEL 1 states, with codes.

0100	CODES	LEVEL 1 states
1000 NON-VERTEBRATE POISONS 1100 MEDICINES 1200 ENVIRONMENTAL USES 1300 GENE SOURCES	0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200	FOOD ADDITIVES ANIMAL FOOD BEE PLANTS INVERTEBRATE FOOD MATERIALS FUELS SOCIAL USES VERTEBRATE POISONS NON-VERTEBRATE POISONS MEDICINES ENVIRONMENTAL USES

A summary of the kinds of uses of plants included within each LEVEL 1 state is described below. Further details are given for each of these between pages 15 and 73.

**FOOD.** Food, including beverages, for humans only.

**FOOD ADDITIVES.** Processing agents and other additive ingredients which are used in food preparation.

ANIMAL FOOD. Forage and fodder for vertebrate animals only.

**BEE PLANTS**. Pollen or nectar sources for honey production. This has been separated from **INVERTEBRATE FOOD** as a **LEVEL 1** state owing to its importance particularly within developing countries.

**INVERTEBRATE FOOD.** Only plants eaten by invertebrates useful to humans, such as silkworms, lac insects and edible grubs, are covered here.

MATERIALS. Woods, fibres, cork, cane, tannins, latex, resins, gums, waxes, oils, lipids etc. and their derived products.

**FUELS. FUELS -** wood, charcoal, petroleum substitutes, fuel alcohols etc. - have been separated from **MATERIALS** because of their importance.

**SOCIAL USES.** Plants used for social purposes, which are not definable as food or medicines, for instance masticatories, smoking materials, narcotics, hallucinogens and psychoactive drugs, contraceptives and abortifacients and plants with ritual or religious significance.

**VERTEBRATE POISONS.** Plants which are poisonous to vertebrates, both accidentally and usefully, e.g. for hunting and fishing.

**NON-VERTEBRATE POISONS.** Both accidental and useful poisons (e.g. molluscicides, herbicides, insecticides) to non-vertebrate animals, plants, bacteria and fungi, are included. Two **LEVEL 1** states for poisons are included as Level 3 treatments of these differ quite markedly.

MEDICINES. Both human and veterinary.

**ENVIRONMENTAL USES**. Examples include intercrops and nurse crops, ornamentals, barrier hedges, shade plants, windbreaks, soil improvers, plants for revegetation and erosion control, waste water purifiers, indicators of the presence of metals, pollution, or underground water.

**GENE SOURCES.** Wild relatives of major crops which may possess traits or qualities, such as disease resistance, cold hardiness etc., of value in breeding programmes.

### Level 2 STATES

There are 107 Level 2 states (Table 2). How these states are derived depends on the LEVEL 1 use. For instance, for FOOD, the most important fact, other than that a plant is used for food, is the part of the plant. Hence, for FOOD, FOOD ADDITIVES, and ANIMAL FOOD the Level 2 classification is based on plant part. For MATERIALS, on the other hand, it is the type of material obtained from the plant that is most important. For FUELS it is the fuel type, for SOCIAL USES it is the social use type, for MEDICINES it is the medicinal disorder group, and for ENVIRONMENTAL USES it is the environmental use type. For uses relating to VERTEBRATE POISONS and NON-VERTEBRATE POISONS, the most important factor is the organism to which the plant is poisonous. BEE PLANTS, INVERTEBRATE FOOD, and GENE SOURCES are already quite specific uses and have not been further divided at Level 2.

TABLE 2. Level 2 states, with codes. [LEVEL1 states are also included for those uses not represented at Level 2.]

CODES	Level 2 states	
0101 0102 0103 0104 0105 0106 0107 0108 0109 0110	FOOD — Unspecified Parts FOOD — Entire Plant FOOD — Unspecified Aerial Parts <sup>1</sup> FOOD — Seedlings/Germinated Seeds FOOD — Galls FOOD — Stems FOOD — Bark FOOD — Leaves FOOD — Inflorescences FOOD — Infructescences	
0111 0112 0113	FOOD — Seeds FOOD — 'Roots' FOOD — Exudates	
0201 0202 0203 0204 0205 0206 0207 0208 0209 0210 0211 0212 0213	FOOD — Exudates  FOOD ADDITIVES — Unspecified Parts FOOD ADDITIVES — Entire Plant FOOD ADDITIVES — Unspecified Aerial Parts <sup>2</sup> FOOD ADDITIVES — Seedlings/Germinated Seeds FOOD ADDITIVES — Galls FOOD ADDITIVES — Stems FOOD ADDITIVES — Bark FOOD ADDITIVES — Leaves FOOD ADDITIVES — Inflorescences FOOD ADDITIVES — Infructescences FOOD ADDITIVES — Seeds FOOD ADDITIVES — 'Roots' FOOD ADDITIVES — Exudates	

/continued over

<sup>2</sup>as footnote 1

includes unspecified aquatic parts

CODES	Level 2 states	
0301 0302 0303 0304 0305 0306 0307	ANIMAL FOOD — Unspecified Parts ANIMAL FOOD — Bark ANIMAL FOOD — 'Roots' ANIMAL FOOD — Exudates ANIMAL FOOD — Fertile Plant Parts <sup>1</sup> ANIMAL FOOD — Aerial Parts <sup>2</sup> ANIMAL FOOD — Other Parts <sup>3</sup>	
0400	BEE PLANTS	
0500	INVERTEBRATE FOOD	
0601 0602 0603 0604 0605 0606 0607 0608 0609 0610 0611 0612	MATERIALS — Unspecified Materials  MATERIALS — Fibres  MATERIALS — Cane etc. <sup>4</sup> MATERIALS — Wood  MATERIALS — Cork/Cork Substitutes  MATERIALS — Gums/Resins  MATERIALS — Latex/Rubber  MATERIALS — Tannins/Dyestuffs  MATERIALS — Lipids  MATERIALS — Essential Oils  MATERIALS — Waxes  MATERIALS — Alcohols  MATERIALS — Other Materials/Chemicals <sup>5</sup>	
0701 0702 0703 0704 0705 0706	FUELS — Unspecified Fuels FUELS — Miscellaneous Fuels FUELS — Fuelwood FUELS — Charcoal FUELS — Petroleum Substitutes/Alcohols etc. FUELS — Tinder	
0801 0802 0803 0804	SOCIAL USES — Unspecified Social Uses SOCIAL USES — Smoking Materials/Drugs SOCIAL USES — Antifertility Agents SOCIAL USES — 'Religious' Uses	
0901 0902 0903 0904 0905 0906	VERTEBRATE POISONS — Unspecified Vertebrates VERTEBRATE POISONS — Fish VERTEBRATE POISONS — Amphibians VERTEBRATE POISONS — Reptiles VERTEBRATE POISONS — Birds VERTEBRATE POISONS — Mammals	
1001 1002 1003 1004 1005 1006 1007 1008 1009 1010	NON-VERTEBRATE POISONS — Unspecified Non-Vertebrates NON-VERTEBRATE POISONS — Unspecified Microbes NON-VERTEBRATE POISONS — Viruses NON-VERTEBRATE POISONS — Bacteria NON-VERTEBRATE POISONS — Fungi NON-VERTEBRATE POISONS — Plants NON-VERTEBRATE POISONS — Protozoa NON-VERTEBRATE POISONS — Mollusca NON-VERTEBRATE POISONS — Arthropoda NON-VERTEBRATE POISONS — Other Eumetazoa <sup>6</sup>	

/continued over

includes inflorescences, infructescences, and seeds
includes leaves, stems, unspecified aerial parts and live plant in situ
includes seedlings/germinated seeds, galls and entire plant ex situ
includes cane, rattan, bamboo, reed and wicker
material type known but does not fit any of the defined categories; e.g. this section will include gourds, seeds, bark that are used directly as well more unusual processed material types including chemicals
on-Mollusca/Arthropoda includes Platyhelminthes, Nemertea, Nemata, Annelida

CODES	Level 2 states		
CODES	Ector 2 states		
11101	MEDICINES — Unspecified Medicinal Disorders		
1102	MEDICINES — Abnormalities		
1103	MEDICINES — Blood System Disorders		
1104	MEDICINES — Circulatory System Disorders		
1105	MEDICINES — Digestive System Disorders		
1106	MEDICINES — Endocrine System Disorders		
1107	MEDICINES — Genitourinary System Disorders		
1108	MEDICINES — III-Defined Symptoms		
1109	MEDICINES — Immune System Disorders		
1110	MEDICINES — Infections/Infestations		
1111	MEDICINES — Inflammation		
1112	MEDICINES — Injuries		
1113	MEDICINES — Mental Disorders		
1114	MEDICINES — Metabolic System Disorders		
1115	MEDICINES — Muscular-Skeletal System Disorders		
1116	MEDICINES — Neoplasms		
1117	MEDICINES — Nervous System Disorders		
1118	MEDICINES — Nutritional Disorders		
1119	MEDICINES — Pain		
1120	MEDICINES — Poisonings		
1121	MEDICINES — Pregnancy/Birth/Puerperium Disorders		
1122	MEDICINES — Respiratory System Disorders		
1123	MEDICINES — Sensory System Disorders		
1124	MEDICINES — Skin/Subcutaneous Cellular Tissue Disorders		
1201	ENVIRONMENTAL USES — Unspecified Environmental Uses		
1201	ENVIRONMENTAL USES — Ension control		
1202	ENVIRONMENTAL USES — Shade/Shelter		
1204	ENVIRONMENTAL USES — Revegetators		
1205	ENVIRONMENTAL USES — Indicators		
1206	ENVIRONMENTAL USES — Soil Improvers		
1207	ENVIRONMENTAL USES — Ornamentals <sup>1</sup>		
1208	ENVIRONMENTAL USES — Boundaries/Barriers/Supports		
1209	ENVIRONMENTAL USES — Agroforestry		
1210	ENVIRONMENTAL USES — Firebreaks		
1211	ENVIRONMENTAL USES — Pollution Control		
1300	GENE SOURCES		
	<u> </u>		

In Table 2, the **Level 2** state is given in abbreviated form; for example, **FOOD** — **Galls** implies galls used as food, and **MEDICINES** — **Digestive System Disorders** implies use as medicine for digestive system complaints.

### Level 3 STRUCTURE

Table 3 shows the three levels comprising the major part of the Economic Botany Data Collection Standard. The first column shows **LEVEL 1** states; the second shows how each **LEVEL 1** state is subdivided to give the **Level 2** states; the third lists the descriptors which are used at Level 3. The groups of Level 3 descriptors are linked to each relevant **Level 2** state to provide additional data. These descriptor groups vary depending on the **LEVEL 1** state. Some combinations between the Level 3 descriptors and **Level 2** states are redundant. Later sections in this document (see page 13) expand the **Level 2** X Level 3 matrices to show these redundant combinations.

<sup>&</sup>lt;sup>1</sup>includes sports turfs

TABLE 3. Schematic diagram showing the relationship between the three levels of the Economic Botany Data Collection Standard.

LEVEL 1 states	Level 2 states	Level 3 descriptors
FOOD	Unspecified Parts Entire Plant Unspecified Aerial Parts <sup>1</sup> Seedlings/Germinated Seeds Galls Stems Bark Leaves Inflorescences Infructescences Seeds 'Roots' Exudates	Specific Plant Parts Used Food Types Preparations Used In Situations When Food Used
FOOD ADDITIVES	Unspecified Parts Entire Plant Unspecified Aerial Parts <sup>2</sup> Seedlings/Germinated Seeds Galls Stems Bark Leaves Inflorescences Infructescences Seeds 'Roots' Exudates	Specific Plant Parts Used Food Additive Types Preparations Used In
ANIMAL FOOD <sup>3</sup>	Unspecified Parts Bark 'Roots' Exudates Fertile Plant Parts <sup>4</sup> Aerial Parts <sup>5</sup> Other Parts <sup>6</sup>	Specific Plant Parts Used Vertebrates Using Animal Food Types Seasons of Use
BEE PLANTS		Plant Parts Used
INVERTEBRATE FOOD <sup>7</sup>		Useful Invertebrate Types Plant Parts Used by Invertebrates

/continued over

<sup>1</sup> includes unspecified aquatic parts
2 includes unspecified aquatic parts
3 vertebrates only
4 includes inflorescences, infructescences and seeds
5 includes leaves, stems, unspecified aerial parts and live plant *in situ*6 includes seedlings/germinated seeds, galls and entire plant *ex situ*7 invertebrates used by man

LEVEL 1 states	Level 2 states	Level 3 descriptors
MATERIALS	Unspecified Materials Fibres Cane etc. 1 Wood Cork/Cork Substitutes Gums/Resins Latex/Rubber Tannins/Dyestuffs Lipids Essential Oils Waxes Alcohols Other Materials/Chemicals 2	Specific Material Types Products Used In Plant Parts Used Dye/Pigment Colour
FUELS	Unspecified Fuels Miscellaneous Fuels Fuelwood Charcoal Petroleum Substitutes/Alcohols etc. Tinder	Plant Parts Used Uses of Fuel Fuel Quality
SOCIAL USES	Unspecified Social Uses Smoking Materials/Drugs Antifertility Agents 'Religious' Uses	Plant Parts Used Specific Social Use Types
VERTEBRATE POISONS	Unspecified Vertebrates Fish Amphibians Reptiles Birds Mammals	Poisonous Plant Parts Specific Vertebrates Affected Body Parts/ <i>Processes</i> Affected Disorders Caused/ <i>Harmful Effects</i> Uses of Poisons
NON-VERTEBRATE POISONS	Unspecified Non-Vertebrates Unspecified Microbes Viruses Bacteria Fungi Plants Protozoa Mollusca Arthropoda Other Eumetazoa <sup>3</sup>	Poisonous Plant Parts Specific Non-Vertebrates Affected Effects of Poisons Uses of Poisons

/continued over

<sup>1</sup> includes cane, rattan, bamboo, reed and wicker
2 material type known but does not fit in any of the defined categories; this section will include gourds, seeds, bark etc. that are used directly as well as more unusual processed material types and chemicals
3 non-Mollusca/Arthropoda; includes Platyhelminthes, Nemertea, Nemata, Annelida

LEVEL 1 states	Level 2 states	Level 3 descriptors
MEDICINES	Unspecified Medicinal Disorders Abnormalities Blood System Disorders Circulatory System Disorders Digestive System Disorders Endocrine System Disorders Genitourinary System Disorders III-Defined Symptoms Immune System Disorders Infections/Infestations Inflammation Injuries Mental Disorders Metabolic System Disorders Metabolic System Disorders Mescular-Skeletal System Disorders Neoplasms Nervous System Disorders Nutritional Disorders Pain Poisonings Pregnancy/Birth/Puerperium Disorders Respiratory System Disorders Sensory System Disorders Sensory System Disorders Skin/Subcutaneous Cellular Tissue Disorders	Plant Parts Used Vertebrates Treated Body Parts/Processes Treated Disorders Treated/Medicinal Effects Medicine Types Medicinal Applications
ENVIRONMENTAL USES	Unspecified Environmental Uses Erosion Control Shade/Shelter Revegetators Indicators Soil Improvers Ornamentals Boundaries/Barriers/Supports Agroforestry Firebreaks Pollution Control	Specific Environmental Uses Materials Used Plant Parts Used Environments Where Used
GENE SOURCES		Beneficial Genetic Traits

### **Stand-Alone USE DESCRIPTORS**

The three level system outlined above enables the basic description and definition of plant uses. In addition, there may be further information on use-related properties or characteristics of a plant which help to evaluate its individual uses or overall value. In this system these data are placed in <a href="Stand-Alone">Stand-Alone</a> descriptors or Note Categories. Where it is important to be able to <a href="select">select</a> taxa with specific properties or characteristics, <a href="Stand-Alone">Stand-Alone</a> descriptors are used, otherwise the information can be stored in Notes Categories (see page 12). Table 4 provides examples of data which can be handled as <a href="Stand-Alone">Stand-Alone</a> descriptors. It includes descriptors that record the properties of materials and plant parts (e.g. <a href="Wood Properties">Wood Properties</a>, <a href="Fibre Length">Fibre Length</a>, or those descriptors that relate to the availability of chemical analyses for plant parts such as <a href="Availability of Nutritional Analyses">Availability of Nutritional Analyses</a>). <a href="Stand-Alone">Stand-Alone</a> descriptors that relate to the availability of chemical analyses for plant parts are relevant to animal food, food, medicines, materials and other uses. Those that are specific to a single use are not precluded from Stand-

<u>Alone</u> descriptors (e.g. <u>Wood Properties</u>, relevant to **MATERIALS** - **Wood** is included here).

Other <u>Stand-Alone</u> descriptors help to evaluate the value of the plant as a whole, rather than its individual uses. Factors which can be taken into consideration for this include whether the plants are <u>Weeds</u> or <u>Host Plants to Harmful Organisms</u>. Weeds may cause losses to crops and to livestock production and have economic repercussions. Some plants are hosts to disease vectors or to pests and diseases of major crops.

<u>Stand-Alone</u> descriptors should be viewed as an adjunct to the main three level system. It is likely that further <u>Stand-Alone</u> descriptors will need to be defined for different users' needs.

TABLE 4. List of <u>Stand-Alone</u> descriptors and their relevant uses.

Stand Alone descriptors	Relevant to:
Wood Properties Fibre Length	Material uses
Availability Of:  Unspecified Analyses  Nutritional Analyses  Antinutritional Analyses  Poisonous Compounds Analyses  Biologically Active Compounds (Lab. Tests)  Biologically Active Compounds (Clinical Trials)  Essential Oil Analysis  Chemical Compounds Present	Most Uses
<u>Weeds</u>	Overall Species Evaluation
Host plants to Harmful Organisms	Overall Species Evaluation

### Notes Categories

Notes Categories are recommended for descriptive data concerned with 1) placing the use data in a cultural context, 2) use evaluation, and 3) very specific details about the use. These are free text fields, where selection of taxa with particular attributes is not practicable. If the latter is a requirement, then <u>Stand-Alone</u> descriptors should be considered rather than *Notes Categories*. Table 5 lists *Notes Categories* with the use types to which they are pertinent. Within the standard there are recommended keywords relating to the *Notes Categories*; for those categories pertinent to all uses see page 79 and for those that are use-specific see the relevant sections (e.g. Tables 9 and 10 for food related *Notes Categories*).

TABLE 5. List of Notes Categories and their relevant uses.

Notes Categories	Pertinent Uses
User Groups Vernacular Names of Plant Product <sup>1</sup> Areas Where Used Use Types User Evaluation Use Frequency Production Types Trade In Raw Plant Part/Material Trade In Manufactured Products Trade In Seed/Planting Material Industrial Usage Potential Development Constraints Evaluation of the Negative Values	All Uses (all three levels)
Food Processing Methods Food Flavours	Food uses (all three levels)
Food Additive Processing Methods Food Additive Flavours	Food Additive uses (all three levels)
Times of Availability of Nectar Times of Availability of Pollen	Bee Plant uses (Level 3)
Occasions When Used	Social Uses (all three levels)
Processing Techniques for Medicines	Medicinal uses (all three levels)

### **EXPLANATION OF TABLES AND APPENDICES**

For each of the thirteen **LEVEL 1** states, matrices are provided to show which Level 3 descriptors can be linked to each **Level 2** state. Redundant combinations are shaded in. For example, in the matrix for **FOOD** uses (Table 7), the Specific Plant Parts Used descriptor corresponding to **FOOD** — **Seedlings/Germinated Seeds** is shaded in because, in the plant parts classification (Appendix A, Table 43), **Seedlings/Germinated Seeds** is not subdivided further; Specific Plant Parts Used cannot therefore be recorded at Level 3.

For each of the thirteen LEVEL 1 states, lists are provided of the most likely states for each Level 3 descriptor (e.g. Table 8 lists the most likely states for Level 3 descriptors for food). Different LEVEL 1 states can share the same Level 3 descriptor, e.g. MATERIALS, FUELS, SOCIAL USES, MEDICINES and ENVIRONMENTAL USES all have the Level 3 descriptor Plant Parts Used. However, the lists of states for these Level 3 descriptors have been tailored to each LEVEL 1 state. For instance, the list of states for Plant Parts Used in Table 37 for ENVIRONMENTAL USES is very short compared to that for MEDICINES (Table 31). However, all states for Plant Parts Used are given in the Master List of Plant Parts (Appendix A, Table 43); this can be used as a supplement.

<sup>&</sup>lt;sup>1</sup>not plant name

Table 6 lists the Level 3 descriptors, with their **LEVEL 1** states that are derived from the same Master List.

Any additions to the Level 3 descriptor lists within the **LEVEL 1** states, should firstly be made from the Master Lists. If terms need to be added to the Master Lists within this standard, then the author should be consulted. (In the computerisation of this system it is likely that all relevant parts of the Master List should be available states for all the related Level 3 descriptors; the abbreviated Level 3 lists have been provided merely as a working aid.)

TABLE 6. Level 3 descriptors, from different LEVEL 1 uses, which are derived from the same Master List.

Master Lists	Level 3 descriptors	LEVEL 1 states
Plant Parts (Appendix A)	Specific Plant Parts Used Specific Plant Parts Used Specific Plant Parts Used Plant Parts Used Plant Parts Used by Invertebrates Plant Parts Used Plant Parts Used Plant Parts Used Plant Parts Used Poisonous Plant Parts Poisonous Plant Parts Plant Parts Used Plant Parts Used Plant Parts Used	FOOD FOOD ADDITIVES ANIMAL FOOD BEE PLANTS INVERTEBRATE FOOD MATERIALS FUELS SOCIAL USES VERTEBRATE POISONS NON-VERTEBRATE POISONS MEDICINES ENVIRONMENTAL USES
Preparations Used In (Table 8)	Preparations Used In Preparations Used In	FOOD FOOD ADDITIVES
Organisms (Appendix B)	Vertebrates Using Useful Invertebrate Types Specific Vertebrates Affected Specific Non-Vertebrates Affected Vertebrates Treated	ANIMAL FOOD INVERTEBRATE FOOD VERTEBRATE POISONS NON-VERTEBRATE POISONS MEDICINES
Body Parts/Processes (Appendix E)	Body Parts/Processes Affected Body Parts/Processes Treated	VERTEBRATE POISONS MEDICINES
Disorders/Effects (Table 32 plus Table 65)	Disorders Caused/Harmful Effects Disorders Treated/Medicinal Effects	VERTEBRATE POISONS MEDICINES

### FOOD

Table 7 shows the **Level 2** and Level 3 structure for describing **FOOD** uses. **Level 2** is based on the top level of the plant parts classification (see the Master List of Plant Parts in Appendix A, Table 43; Table 44 provides an alphabetically arranged list showing the relationship of plant parts to the top level terms). At Level 3 there are four descriptors: Specific Plant Parts Used, Food Types, Preparations Used In and Situations When Food Used. Table 8 lists the states for each of these. <u>Stand-Alone</u> descriptors particularly relevant to this use group include those that relate to the availability of chemical analyses for plant parts (Table 39) and <u>Chemical Compounds Present</u> (Table 40). In addition there are the generally applicable *Notes Categories* (Table 5); notes specific to food are those relating to *Food Processing Methods* (Table 9) and *Food Flavours* (Table 10).

TABLE 7. Matrix showing Level 3 descriptors for food and their relationship to the **Level 2** states. (The shaded elements of the matrix represent redundant combinations.)

	Specific Plant Parts Used	Food Types	Preparations Used In	Situations When Food Used
FOOD — Unspecified Parts				
FOOD — Entire Plant				
FOOD — Unspecified Aerial Parts <sup>1</sup>				
FOOD — Seedlings/Germinated Seeds				
FOOD — Galls				
FOOD — Stems				
FOOD — Bark				
FOOD — Leaves				
FOOD — Inflorescences				
FOOD — Infructescences				
FOOD — Seeds				
FOOD — 'Roots'				
FOOD — Exudates				

<sup>1</sup> includes unspecified aquatic parts

TABLE 8. States for the Level 3 descriptors for food.

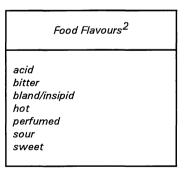
Specific Plant Pa	rts Used <sup>1 2</sup>	Food Types	Preparations Used In	Situations When Food Used
(Galls) leaf galls root galls stem galls fruit galls  (Stems) plumules leafy stems/ branches defoliated stems/ branches stolons tendrils  (Bark) stem bark root bark  (Leaves) cotyledons young leaves leaf blades leaf blades leaf blades leaf bluds  (Inflorescences) bracts spathes spadices flowers flower buds peduncles receptacles calyces corollas androecia stamens pollen gynoecia/pistils styles/stigmas	(Infructescences) fruits entire immature fruits entire mature fruits deseeded fruits fruit pulp fruit juice epicarp  (Seeds) arils 8 entire seeds seed hairs seeds without testa testa kernels seed cake solid albumen liquid albumen  ('Roots') debarked 'roots' bulbs/corms tubers/tubercles roots nodules aerial roots 9 pneumatophores rhizomes  (Exudates) sap latex leaf juice gum resin nectar	cereals pseudocereals 10 pulses nuts dessert fruits vegetables green vegetables leaf protein concentrates starches 11 oils/fats gums/mucilages sugar 12 other food types 13	raw savoury preparations soups meat dishes fish dishes pulse dishes egg dishes vegetable dishes cereal/starch based preparations porridges 14 bread cakes pastry/shortening dairy/dairy-like preparations yoghurt cheese ice cream margarine condiments/relishes/chutneys pickles pastes sweet dishes confectionery jams/jellies beverages alcoholic beverages wines beers spirits non-alcoholic beverages potable water juices cordials/squashes infusions/tisanes coffee substitutes tea substitutes milk substitutes other preparations	famine food staple food non-staple food ceremonial food snack food children's snack food weaning food regular food diabetic food

<sup>1</sup> terms in brackets are Level 2 not Level 3 states; they are included only to indicate the hierarchical relationships
2 this is an abbreviated list containing only the most likely plant parts for food uses; more are in the Master List (Appendix A, Table 43)
3 of stems, trunks or branches
4 includes cataphylls
5 at base of branches/stems
6 includes bracteoles
7 includes pedicels
8 includes arillodes, strophioles, caruncles
9 includes rhizophores
10 seeds of non-grasses used like cereals
11 e.g. sago
12 includes syrup, honeydew, manna, lerp, jaggery
13 includes beverage bases
14 boiled meal/flour in water/milk

TABLE 9. Some suggested keywords for describing *Food Processing Methods* in *Notes* regarding food uses. (Multiples of terms can be selected and used sequentially to denote processing order.)

### Food Processing Methods 1 raw/unprocessed used whole chopped ground/pounded/grated squeezed detoxified soaked leached leached in static water leached in running water leached in changes of water cooked boiled steamed roasted/parched/baked fried preserved dried hot air-dried sun-dried salted preserved in brine preserved in alcohol preserved in vinegar preserved in oil preserved with sugar bottled canned frozen fermented

TABLE 10. Some suggested keywords for describing Food Flavours in Notes regarding food uses.



<sup>2</sup>the same list can be used to describe *Food Additive Flavours* 

<sup>1</sup> the same list can be used to describe Food Additive Processing Methods

### **FOOD ADDITIVES**

Table 11 shows the **Level 2** and Level 3 structure for describing **FOOD ADDITIVES**. The **Level 2** division of **FOOD ADDITIVES** is based on the top level of the plant parts classification. (See the Master List of Plant Parts in Appendix A, Table 43; Table 44 provides an alphabetically arranged list showing the relationship of plant parts to the top level terms.) At Level 3 there are three descriptors: Specific Plant Parts Used, Food Additive Types (which include food processing agents as well as flavourings, colourings and preservatives etc.) and Preparations Used In (i.e. the types of food preparations to which they are added). Table 12 lists the states for each of these Level 3 descriptors. Stand-Alone descriptors particularly relevant to this use group include those that relate to the availability of chemical analyses for plant parts (Table 39) and Chemical Compounds Present (Table 40). In addition there are the generally applicable *Notes Categories* (Table 5); notes specific to food additive uses are those relating to *Food Additives Processing Methods* (Table 9) and *Food Additives Flavours* (Table 10).

**FOOD ADDITIVES** have been separated from **FOOD** for the sake of clarity at Level 3. In some instances (e.g. gum arabic), the same plant part can be used both as a food and as a food additive.

TABLE 11. Matrix showing Level 3 descriptors for food additives and their relationship to **Level 2** states. (The shaded elements of the matrix represent redundant combinations.)

	Specific Plant Parts Used	Food Additive Types	Preparations Used In
FOOD ADDITIVES — Unspecified Parts			
FOOD ADDITIVES — Entire Plant			
FOOD ADDITIVES — Unspecified Aerial Parts <sup>1</sup>			
FOOD ADDITIVES — Seedlings/Germinated Seeds			
FOOD ADDITIVES — Galls			
FOOD ADDITIVES — Stems			
FOOD ADDITIVES — Bark			
FOOD ADDITIVES — Leaves			
FOOD ADDITIVES — Inflorescences			
FOOD ADDITIVES — Infructescences			
FOOD ADDITIVES — Seeds			
FOOD ADDITIVES — 'Roots'			
FOOD ADDITIVES — Exudates			

<sup>&</sup>lt;sup>1</sup>includes unspecified aquatic parts

TABLE 12. States for the Level 3 descriptors for food additives.

branches defoliated stems/ branches fruit pulp stolons tendrils  (Seeds) arils inner bark root bark cotyledons  (Leaves) cotyledons  deseeded fruits deseeded fruits deseeded fruits deseeded fruits deseeded fruits fermentation retarders flavour fixatives flavourings herbs cakes pastry/shortening dairy/dairy-like preparations yoghurt cheese ice cream margarine condiments/relishes/chutneys pickles pastes sweet dishes	Specific Plar	nt Parts Used <sup>1 2</sup>	Food Additive Types	Preparations Used In
old leaves 5 seed cake purifiers purifiers sipules leaflets leaflets leaf buds ('Roots') salt stabilisers spirits bulbs/corms tubers/tubercles practs 6 spathes spadices flower buds peduncles 7 receptacles (Exudates)  old leaves 5 seed cake purifiers purifiers water purifiers alcoholic beverages purifiers purifiers purifiers water purifiers alcoholic beverages alcoholic beverages alcoholic beverages wines severages wines severages (Inflorescences) to beers spaints sweeteners (non-sugar) tenderisers potable water purifiers water purifiers alcoholic beverages wines severages (Inflorescences) tubers/tubercles tenderisers potable water purifiers water purifiers alcoholic beverages spirits non-alcoholic beverages potable water purifiers alcoholic beverages spirits non-alcoholic beverages cordials/squashes infusions/tisanes cordials/squashes infusions/tisanes coffee substitutes milk substitutes other preparations	(Galls) leaf galls root galls stem galls fruit galls  (Stems) plumules leafy stems/ branches defoliated stems/ branches stolons tendrils  (Bark) stem bark <sup>3</sup> inner bark root bark  (Leaves) cotyledons young leaves fallen leaves leaflets stipules leaf blades leaf buds  (Inflorescences) bracts 6 spathes spadices flowers flower buds peduncles <sup>7</sup>	androecia stamens pollen gynoecia/pistils styles/stigmas  (Infructescences) fruits entire immature fruits deseeded fruits fruit pulp fruit juice epicarp  (Seeds) arils 8 entire seeds seed hairs seeds without testa testa kernels seed oil seed cake solid albumen liquid albumen  ('Roots') debarked 'roots' bulbs/corms tubers/tubercles roots nodules aerial roots 9 pneumatophores rhizomes	adulterants clarifiers honey clarifiers water clarifiers beer clarifiers sugar clarifiers colourings emulsifiers fermenting agents rennet substitutes/milk curdlers fermentation retarders flavour fixatives flavourings herbs spices souring agents bitters vinegar hop substitutes essences gelling agents preservatives antioxidants purifiers water purifiers raising agents salt stabilisers sweeteners (non-sugar) tenderisers meat tenderisers thickening agents	raw savoury preparations soups meat dishes fish dishes pulse dishes egg dishes vegetable dishes cereal/starch based preparations porridges 11 bread cakes pastry/shortening dairy/dairy-like preparations yoghurt cheese ice cream margarine condiments/relishes/chutneys pickles pastes sweet dishes confectionery jams/jellies beverages alcoholic beverages wines beers spirits non-alcoholic beverages potable water juices cordials/squashes infusions/tisanes coffee substitutes tea substitutes milk substitutes

<sup>1</sup> terms in brackets are Level 2 not Level 3 states; they are included only to indicate the hierarchical relationships
2 this is an abbreviated list, containing only the most likely food additive plant parts; more are in the Master List (Appendix A, Table 43)
3 of stems, trunks or branches
4 includes cataphylls
5 at base of branches/stems
6 includes bracteoles
7 includes practicals

Vincludes bracteoies
7includes pedicels
8includes arillodes, strophioles, caruncles
9includes rhizophores
10 e.g. baking powder substitutes
11 boiled meal/flour in water/milk

### ANIMAL FOOD

**ANIMAL FOOD** is separate from **FOOD** and **INVERTEBRATE FOOD** as these groups are all treated very differently in economic botany and other literature. They differ in the descriptors which are needed to describe the more detailed aspects of their uses.

Table 13 shows the **Level 2** and Level 3 structure for describing **ANIMAL FOOD** uses. **Level 2** is based on plant part, as it was for **FOOD** and **FOOD ADDITIVES**, but there are fewer **Level 2** states: inflorescences, infructescences and seeds are lumped into **Fertile Plant Parts**; leaves, stems, unspecified aerial parts and live plant *in situ* into **Aerial Parts**; and galls, seedlings and entire plant *ex situ* into **Other Parts**. This simplification can be justified as, in most cases, and for grazing animals in particular, the plant part used is often not known specifically (in contrast to human food uses). The Master List of Plant Parts is in Appendix A (Table 43) and Table 44 provides an alphabetically arranged list showing the relationship of plant parts to the top level terms. Appendix B (Tables 45 and 46) provides the same for organisms.

At Level 3, there are four descriptors: Specific Plant Parts Used (if known), Vertebrates Using, Animal Food Types and Seasons of Use. Their states are listed in Table 14. <a href="Stand-Alone">Stand-Alone</a> descriptors particularly relevant to this use group include those that relate to the availability of chemical analyses for plant parts (Table 39) and <a href="Chemical Compounds Present">Chemical Compounds Present</a> (Table 40). In addition there are the generally applicable <a href="Notes Categories">Notes Categories</a> (see Table 5).

TABLE 13. Matrix showing Level 3 descriptors for animal food and their relationship to the **Level 2** states. (The shaded elements in the matrix are redundant combinations.)

	Specific Plant Parts Used	Vertebrates Using	Animal Food Types	Seasons of Use
ANIMAL FOOD — Unspecified Parts		2		
ANIMAL FOOD — Bark				
ANIMAL FOOD — 'Roots'				
ANIMAL FOOD — Exudates				
ANIMAL FOOD — Fertile Plant Parts <sup>1</sup>				
ANIMAL FOOD — Aerial Parts <sup>2</sup>				
ANIMAL FOOD — Other Parts <sup>3</sup>				

includes inflorescences, infructescences and seeds

<sup>&</sup>lt;sup>2</sup>includes leaves, stems, unspecified aerial parts and live plant *in situ* <sup>3</sup>includes seedlings/germinated seeds, galls and entire plant *ex situ* 

TABLE 14. States for the Level 3 descriptors for animal food.

Specific Plant Parts Used <sup>1 2</sup>	Vertebrates Using	Animal Food Types	Seasons Of Use
(Bark)	Fish	forage	spring
stem bark	1	grazing	summer
root bark	Amphibians	browse	autumn
inner bark	frogs	fodder	winter
	salamanders		
('Roots')		hay/straw	year round
bulbs/corms	Reptiles	silage	dry season
tubers/tubercles	turtles	concentrates	drought season
roots	crocodilians	bulk feeds	wet season
nodules	lizards	mixed feeds	
aerial roots	snakes	spray on roughage	
pneumatophores	Dindo	adulterants	
rhizomes	Birds chickens	salt lick substitutes	
(Exudates)	turkeys		
(Exudates) sap	game birds <sup>4</sup>	1	
sap latex	gaino bildo		
leaf juice	Mammals		
gum	bats		
resin	primates		
nectar	lagomorphs		
	rabbits		
(Fertile Plant Parts)	hares		
inflorescences	rodents		
flowers	squirrels		
flower buds	rats		
infructescences	mice		
fruits	cavies		
entire immature fruits	Equidae		1
entire mature fruits	horses		
deseeded fruits	asses		
fruit pulp	donkeys mules		
epicarp arils	Suiformes		
seeds	pigs	1	
entire seeds	Camelidae		
kernels	camels		
seeds without testa	llamas		
seed oil	ruminants		
seed cake	bovines		
	cattle		
(Aerial Parts)	yak		
leaves	buffalo		
leaf buds	bison		
young leaves	caprines		
fallen leaves	sheep		
stems	goats	1	
leafy stems/branches unspecified aerial parts <sup>3</sup>	game mammals <sup>5</sup>		
live plant <i>in situ</i>			
	}	1	ļ
(Other Parts)			
galls			
leaf galls		1	
root galls			
stem galls		1	
fruit galls	ļ	1	}
seedlings/germinated seeds		1	
entire plant <i>ex situ</i>			1

<sup>1</sup> terms in brackets are Level 2 not Level 3 states; they are included only to indicate the hierarchical relationships 2 this is an abbreviated list containing only the most likely plant parts; more are in the Master List (Appendix A, Table 43) 3 includes unspecified aquatic parts 4 bird species unspecified 5 mammal species unspecified

### **BEE PLANTS**

There are no **Level 2** states, but there is one Level 3 descriptor: Plant Parts Used (i.e. nectar and pollen sources; Table 15). Bee Plant specific *Notes Categories* are *Times of Availability of Pollen* and of *Nectar*; there are also the generally applicable *Notes Categories* (see Table 5).

TABLE 15. Sates for the Level 3 descriptor for bee plants.

Plant Parts Used	
nectar source pollen source	

### **INVERTEBRATE FOOD**

INVERTEBRATE FOOD uses are not subdivided at Level 2, as this is already quite detailed compared to other LEVEL 1 uses. There are two Level 3 descriptors: Useful Invertebrate Types and Plant Parts Used By Invertebrates. Their states are listed in Table 16. For many invertebrates, the Plant Part Used will be the live plant *in situ*. However, many organisms are restricted to a single plant part and it is useful to record this also. Additionally, organisms are sometimes reared away from the live plant, utilising harvested plant parts; this further justifies including the Plant Parts Used as a Level 3 Descriptor. The Master List of Plant Parts is given in Appendix A, Table 43, and Table 44 provides an alphabetically arranged list showing their relationship to the top level terms. The general *Notes Categories* (Table 5) are applicable.

TABLE 16. States for the Level 3 descriptors for invertebrate food.

Useful Invertebrate Types <sup>1</sup>	Plant Parts Used by Invertebrate	s <sup>2</sup>
silkworms lac insects	live plant <i>in situ</i>	infructescences fruits
manna insects	entire plant <i>ex situ</i>	entire immature fruits
edible insects/caterpillars/larvae		entire mature fruits
poisonous insects/caterpillars/larvae	bark	deseeded fruits
dye-containing insects	stem bark	fruit pulp
	root bark	epicarp
	inner bark	
		seeds
	'roots'	arils
	bulbs/corms	entire seeds
	tubers/tubercles	kernels
	roots	seeds without testa
	nodules	seed oil
	aerial roots	seed cake
	pneumatophores	
	rhizomes	leaves
		leaf buds
	exudates	young leaves fallen leaves
	sap	Tallen leaves
	latex	stems
	leaf juice	leafy stems/branches
	gum resin	leary sterns/branches
	1	unspecified aerial parts
	nectar	disposition dottal parts
	inflorescences	galls
	flowers	leaf galls
	flower buds	root galls
	nowor buds	stem galls
		seedlings/germinated seeds

<sup>&</sup>lt;sup>1</sup>only invertebrates that are used by humans <sup>2</sup>this is an abbreviated list containing only the most likely plant parts; more are in the Master List (Appendix A, Table 43)

### **MATERIALS**

Within MATERIALS there are 13 Level 2 states, all of them basic material types. There are four Level 3 descriptors: Specific Material Types, Plant Parts Used (as the source of the material), Products Used In, and Dye/Pigment Colour. Redundant Level 2 x Level 3 combinations (Table 17) occur largely where the Level 2 states (e.g. Latex/Rubber, Essential Oils) are not divided further to give Specific Material Types. Table 18 lists the states for each Level 3 descriptor. Stand-Alone descriptors relevant to this use group in general include those that relate to the availability of chemical analyses for plant parts (Table 39), and Chemical Compounds Present (Table 40); Wood Properties (Table 19) and Fibre Length descriptors relate directly to Wood and Fibres, respectively. It is likely that the number of Stand-Alone descriptors may need to be expanded to accommodate properties of other material types. The general Notes Categories (Table 5) are applicable.

Appendix C (Table 47) lists all the acceptable terms for material types in alphabetical order and shows their hierarchical relationships up to and including **Level 2** terms. Appendices A and D (Tables 43 and 48) have alphabetical lists showing the hierarchy within Level 3 for Plant Parts and Product Used In, respectively.

The placing of terms within the Specific Material Type hierarchy was not simple. The result has been to aim for practicality rather than perfection! Basketry, for example, has been included twice in Specific Material Types, under both **Fibres** and **Cane etc**. This is to distinguish basketry using soft grass-like stems from that using the harder stems such as canes and rattans. Similarly Poles get two entries, once under **Cane etc**. and once, as wooden poles, under **Wood** - timber. It should also be pointed out that the descriptor for Plant Parts Used, rather than Specific Material Type, has been used to allow the differentiation between heartwood and sapwood.

Specific Material Type is of greater importance to **MATERIALS** than the Products Used In. However, a comprehensive list of products is sometimes necessary, especially when an accurate description of an economic botany collection is required for a catalogue; hence its inclusion here.

TABLE 17. Matrix showing Level 3 descriptors for materials and their relationship to the Level 2 states. (The shaded elements in the matrix are redundant combinations.)

	Specific Material Types	Products Used In	Plant Parts Used	Dye/Pigment Colour
MATERIALS — Unspecified Materials				
MATERIALS — Fibres				
MATERIALS — Cane etc. 1				
MATERIALS — Wood				
MATERIALS — Cork/Cork Substitutes				
MATERIALS — Gums/Resins				
MATERIALS — Latex/Rubber				
MATERIALS — Tannins/Dyestuffs				
MATERIALS — Lipids				
MATERIALS — Essential Oils				
MATERIALS — Waxes		v		
MATERIALS — Alcohols				
MATERIALS — Other Materials/Chemicals <sup>2</sup>				

<sup>&</sup>lt;sup>1</sup>includes cane, rattan, bamboo, reed and wicker <sup>2</sup>material type known but does not fit in any of the defined categories; this section will include gourds, seeds, bark etc. that are used directly as well as more unusual processed material types and chemicals

TABLE 18. States for the Level 3 descriptors for materials.

thread/yarn woven material cloth sacking packing/stuffing/filling matting netting plaiting  thread/yarn resins  stems plumules leafy stems/branches defoliated stems/branches stolons trunks wood packing sacking stems plumules leafy stems/branches defoliated stems/branches stolons trunks wood arils 16 entire seeds	Specific Material Types <sup>1</sup>		Plant Parts Used	
marquetry wood wood board fibreboard board (non-wood) paper cellulose derivatives cellulose acetates cellophane plastics rayon tow paper substitutes cord/string/twine thread/yarn woven material cloth sacking packing/stuffing/filling matting packing/stuffing filling netting plaiting basketry (from cane etc.)¹    Cane etc.  considerate board/chipboard plywood sawdust timber beams/scantlings columns girders planks staves struts    Cark/Cork Substitutes turned wood corved wood carried wood wood wood wood wood wood wood wo	(Fibrae)	veneer	live plant <i>in situ</i>	receptacles
cardboard fibreboard board (non-wood) paper cellulose derivatives cellulose acetates cellophane plastics rayon paper substitutes oolord/string/twine thread/yarn woven material cloth sacking packing/sturfing/filling matting plaiting basketry (from fibre) <sup>3</sup> thatch  (Cane etc.) basketry (from cane etc.) <sup>4</sup> poles (from cane etc.).  (Cone etc.) basketry (from cane etc.).  (Cone etc.) browd for board/chipboard ployes (Mood) <sup>5</sup> brushwood laminated wood laminated wood laminated wood laminated wood paper  (Alcohols) plaiting basketry (from cane etc.).  (Cone etc.) brushwood laminated wood lam	nuln 2			•
fibreboard board (non-wood) paper cellulose derivatives cellulose acetates cellophane plastics rayon tow paper substitutes cord/string/twine thread/yarn woven material cloth sacking packing/stuffing/filling matting netting plaiting basketry (from cane etc.) boles (from cane etc.) boles (from cane etc.) boswhood laminated wood particle board/chipboard plywood sawdust timber beams/scantlings columns girders where struts  fibreboard (board (non-wood) wood wood turned wood carved wood sclips turned wood sclips) turned wood selection turned wood sclips stames pollen gynoecia/pistils stamens pollen gynoec	•		entire plant <i>ex situ</i>	corollas
board (non-wood) paper cellulose derivatives cellophane plastics rayon tow paper substitutes cord/string/fixme thread/yarn woven material cloth sacking patting patting patting basketry (from fibre) <sup>3</sup> thatch (Cane etc.) basketry (from cane etc.) <sup>4</sup> poles (from cane etc.) <sup>4</sup> poles (from cane etc.) <sup>4</sup> poles (from cane etc.)  (Wood) <sup>5</sup> brushwood laminated wood carved wood  (Essential Oils)  (Waxes)  (Iuppecified Materials)  unspecified aerial parts <sup>8</sup> seedlings/germinated seeds  (Cork/Cork Substitutes) galls leaf galls root galls leaf galls fruit galls  infructescences fruits entire immature fuits deseeded fruits dese			•	androecia
paper cellulose derivatives cellulose acetates cellophane plastics rayon tow gune substitutes mucilages cord/string/twine thread/yarn woven material cloth sacking packing/stuffing/filling matting plaiting basketry (from cane etc.)  folcane etc.)		· ·	unspecified aerial parts <sup>8</sup>	stamens
cellulose derivatives cellulose acetates cellulose acetates cellulose acetates cellulose acetates cellulose acetates cellulose acetates cellophane plastics rayon tow gums muitages or destring/twine thread/yarn woven material cloth sacking packing/stuffing/filling matting netting plaiting basketry (from fibre) <sup>3</sup> thatch (Lipids) fats basketry (from cane etc.) <sup>4</sup> poles (from cane etc.) <sup>4</sup> poles (from cane etc.) <sup>4</sup> poles (from cane etc.) daminated wood particle board/chipboard plywood sawdust timber beams/scantlings columns girders plaiks plakes/pales/rails staves struts    Carved wood   Gesplaine   Cork/Cork Substitutes   galls   leaf galls rotot galls   stem galls   fruit galls   fruit galls   fruit galls   fruit galls   fruit pulp   fruit juice   epicarp   stolons   trunks   stems   stolons   trunks   stems   stolons   trunks   stems   stolons   trunks   stems   stolons   trunks   stolons   trunks   stems   stolons   trunks   stems   stolons   trunks   stems   stolons   trunks   stems   stolons   trunks   stolons   trunks   stems   stolons   trunks   stems   stolons   stims   trunks   stems   trunks   stems   stolons   trunks   stems   stolons   trunks   stems   stolons   stains   trunks   stems   trunks   stems   stolons   stains   trunks   stems   trunks   stolons   stains   trunks   stems   trunks   stems   trunks   stolons   stains   trunks   stems   trunks   stems   trunks   stems   trunks   stems   trunks   stems   trunks   stems   trunks   stolons   stains   trunks   stems   trunks   trunks   trunks   stems   trunks   stems   trunks				pollen
cellophane plastics rayon tow gums gums mucilages cord/string/twine oleoresins 6 sacking packing/stuffing/filling matting netting basketry (from fibre) 3 takes/pales/rails stem) cord bark stems beams/scantlings colle from wood laminated wood props stakes/pales/rails stems girders planks garks of cord materials (Other Materials/Chemicals) stems (Chenk Materials) cord flowers gums gums gums gums gums gums gums gum	cellulose derivatives	carved wood	seedlings/germinated seeds	
plastics rayon tow gums mucilages coldresins beaks try (from cane etc.) desketry (from cane etc.) desmales desmi-drying oils semi-drying oils sed cake solid albumen liquid albumen beams/scantlings columns girders planks planks staves struts  plumules fruit galls fruit galls entire immature fruits deseeded fruits fruit pulp fruit juice epicarp stems batons at trunks wood arili fruit pulp fruit juice epicarp stems/branches defoliated stems/branches stolons arili spruit pulp fruit		(Cork/Cork Substitutes)	galls	, , ,
rayon tow gums gums gums gums gums gums gums gums	•	, , , , , , , , , , , , , , , , , , , ,		infructescences
tow mucilages ord/string/twine thread/yarn woven material cloth sacking patiting from cane etc.)4 poles (from cane etc.)5 pulmod faminated wood particle board/chipboard plywood sawdust timber beams/scantlings columns girders planks planks planks planks planks planks staves struts    Tanins   Cone Materials   Cone	•	(Gums/Resins)	root galls	fruits
paper substitutes cord/string/twine thread/yarn woven material oloth sacking packing/stuffing/filling matting plaiting basketry (from fibre) staketry (from cane etc.) thatch (Lipids) fats olls semi-drying oils semi-drying oils pursuled board/chipboard plywood sawdust timber beams/scantlings columns girders planks poles (from wood) props stakes/pales/rails staves struts  paper substitutes color/string/twine oleoresins 6 oleoresins 6 oleoresins 6 resins stems plumules stems branches defoliated stems/branches stems branches stolons trunks seeds matins trunks seeds wood arils 16 entire seeds seed without tests seed heartwood seeds without tests seed heartwood seeds without tests seed heartwood seed without tests seed oil seed cake solid albumen liquid albumen liquid albumen supports the park stakes/pales/rails staves struts  fruit galls fruit galls fruit galls stems stems stems plumules stems branches defoliated stems/branches defoliated stems/branches stems plumules stems/branches defoliated stems/branches stolons trunks seeds wood arils 16 entire seeds seeds without tests seed hairs testa (Lipids) thorns testa kernels seed oil seed cake solid albumen liquid albumen liquid albumen seed cake solid albumen liquid albumen seed oil seed seeds seeds wood arils 16 entire seeds seeds without tests seed hairs testa kernels seed oil seed cake solid albumen liquid albumen liquid albumen seed oil seed cake solid albumen liquid albumen seed oil seed cake solid albumen liquid albumen seed oil seed seed seed oil seed cake solid albumen liquid albumen seed oil seed cake solid albumen seed oil seed cake solid albumen liquid albumen seed oil seed cake solid albumen seed oil seed oake solid albumen liquid albumen seed oil seed oake solid albumen see	•	'	_	entire immature
cord/yaring/twine thread/yarn woven material cloth sacking packing/stuffing/filling matting netting plaiting basketry (from fibre) <sup>3</sup> thatch  (Lipids) fats oils oles (from cane etc.) <sup>4</sup> poles (from cane etc.)  (Wood) <sup>5</sup> brushwood laminated wood particle board/chipboard plywood sawdust timber beams/scantlings columns girders plaiting beaks (Alcohols) industrial alcohols columns girders plaiting beaks (Cane was awdust timber beams/scantlings columns girders plaiting beaks (Cane etc.) beaks (Cane etc.) beaks (Cane etc.) beaks (Cane etc.)  (Lipids) fats oils oils drying oils non-drying oils semi-drying oils semi-drying oils semi-drying oils industrial alcohols columns girders plilings planks poles (from wood) props stakes/pales/rails staves struts  oleoresins  stems plumules leafy stems/branches defoliated stems/branches steds (stems/branches defoliated stems/branches stedis (stems/branches defoliated stems/branches stellafy stems/branches stolons trunks wood aritls 16 entire seeds saeds without tests seed sarils 16 entire seeds seed without tests seed alies thorns testa kernels beark stem bark seed oil beark stems plumules leafy stems/branches stolons trunks wood arils 16 entire seeds seeds without tests seed sarils 16 entire seeds seed without tests seed without tests seed oil seed truits fruit pulp fruit juice epicarp entire mature fruits		mucilages		fruits
thread/yarn woven material cloth sacking packing/stuffing/filling matting netting plaiting blasketry (from fibre) stains (Lipids) thatch  (Cane etc.) basketry (from cane etc.) fats oils drying oils brushwood laminated wood particle board/chipboard plywood sawdust timber  beams/scantlings columns girders planks poles (from wood) props stakes/pales/rails staves struts  beans/scantlings columns girders planks staves struts  to the column of the cloth of the c	• •	oleoresins <sup>6</sup>	-	entire mature fruits
woven material cloth sacking packing/stuffing/filling matting plaiting plaiting plaiting plaiting basketry (from fibre) 3 that characteristic basketry (from cane etc.) 4 poles (from cane etc.) 4 poles (from cane etc.) 4 private basketry (from cane etc.) 5 private basketry (from cane etc.) 6 private basketry (from cane etc.) 6 private basketry (from cane etc.) 6 private basketry (from cane etc.) 7 private basketry (from cane etc.) 6 private basketry (from can	_	resins	stems	deseeded fruits
sacking packing/stuffing/filling matting netting plaiting basketry (from fibre) <sup>3</sup> thatch  (Cane etc.) basketry (from cane etc.) <sup>4</sup> poles (from cane etc.)  basketry (from cane etc.)  (Wood) <sup>5</sup> brushwood laminated wood particle board/chipboard plywood sawdust timber beams/scantlings columns girders plaining plaiting beads columns girders plainings planks poles (from wood) props stakes/pales/rails staves struts  defoliated stems/branches stolons trunks wood sapwood heartwood tendrils thorns  (Lipids) (Lipids) (Lipids) (Lipids) fats oils drying oils non-drying oils semi-drying oils semi-drying oils semi-drying oils oils non-drying oils semi-drying oils seed oil seed sevel oil seed oil seed sevel oil seed virnors testa kernels seed oil	•		plumules	fruit pulp
packing/stuffing/filling matting netting plaiting inks saketry (from fibre) <sup>3</sup> stains tannins dyes wood saketry (from fibre) <sup>3</sup> stains tannins dyes wood saketry (from fibre) <sup>3</sup> stains tannins dyes wood saketry (from cane etc.) <sup>4</sup> poles (from cane etc.) <sup>4</sup> poles (from cane etc.) fats oils drying oils non-drying oils semi-drying	cloth	(Latex/Rubber)	leafy stems/branches	fruit juice
matting netting netting plaiting plaiting plaiting basketry (from fibre)3 thatch  (Cane etc.) basketry (from cane etc.)4 poles (from cane etc.)  (Wood)5	sacking		defoliated stems/branches	epicarp
netting plaiting basketry (from fibre) <sup>3</sup> thatch  (Cane etc.) basketry (from cane etc.) <sup>4</sup> poles (from cane etc.)  (Wood) <sup>5</sup> brushwood laminated wood particle board/chipboard plywood sawdust timber  beams/scantlings columns girders planks poles (from wood) props stakes/pales/rails staves struts    Cane etc.	packing/stuffing/filling	(Tannins/Dyestuffs)	stolons	
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basketry (from fibre) <sup>3</sup> thatch  (Cane etc.) basketry (from cane etc.) <sup>4</sup> poles (from cane etc.)  (Wood) <sup>5</sup> brushwood laminated wood particle board/chipboard plywood sawdust timber beams/scantlings columns girders plings planks poles (from wood) props stakes/pales/rails staves struts  stains  theartwood tendrils thorns  heartwood tendrils thorns  seed without tests seed hairs testa kernels seed cake solid albumen liquid	netting	dyes	wood	
thatch  (Cane etc.) basketry (from cane etc.)4 poles (from cane etc.)4 poles (from cane etc.)5  (Wood)5 brushwood laminated wood particle board/chipboard plywood sawdust timber beams/scantlings columns girders planks planks poles (from wood) props stakes/pales/rails staves struts  (Lipids) fats oils drying oils drying oils non-drying oils semi-drying oils semi-drying oils non-drying oils semi-drying oils semi-drying oils semi-drying oils semi-drying oils semi-drying oils semi-drying oils stem bark9 seed oil seed hairs testa kernels seed oil	plaiting	inks	sapwood	
(Cane etc.) basketry (from cane etc.) <sup>4</sup> poles (from cane etc.)  (Wood) <sup>5</sup> brushwood laminated wood particle board/chipboard plywood sawdust timber beams/scantlings columns girders pllings planks poles (from wood) props stakes/pales/rails struts  (Lipids) fats oils drying oils onn-drying oils semi-drying oils set bark sed oil seed cake solid albumen liquid albumen liguid albumen liquid albumen liq	basketry (from fibre) <sup>3</sup>	stains		seeds without testa
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poles (from cane etc.)  (Wood) <sup>5</sup> brushwood laminated wood particle board/chipboard plywood sawdust timber beams/scantlings columns girders pilings planks planks planks planks staves struts  drying oils non-drying oils semi-drying oils stem bark <sup>9</sup> inner bark root bark liquid albumen liquid albumen liquid albumen liquid albumen liquid albumen liquid albumen seleves 1 old leaves 12 tubers/tubercles roots leaflets stipules leaf blades leaflets stipules leaf blades leaflets stipules leaf blades leaflets stipules leaf blades leaflets stipules leafl				
Non-drying oils   Semi-drying				
(Wood) <sup>5</sup> semi-drying oils     root bark     liquid albumen       brushwood     laminated wood     (Essential Oils)     leaves 10     'roots'       particle board/chipboard plywood sawdust     (Waxes)     (Waxes)     cotyledons young leaves 11 old leaves 12 fallen leaves     bulbs/corms tubers/tubercles roots       timber     (Alcohols) industrial alcohols     fallen leaves     root bark       beams/scantlings columns     (Other Materials/Chemicals) <sup>7</sup> beads     leaflets stipules     nodules aerial roots 17 pneumatophores rhizomes       pilings planks poles (from wood) props stakes/pales/rails staves struts     (Unspecified Materials)     inflorescences 13 practs 14 spathes spathes spadices flowers flowers flower buds     exudates sap latex leaf juice gum resin	poles (from cane etc.)			
brushwood laminated wood particle board/chipboard plywood sawdust timber beams/scantlings columns girders pllings planks planks poles (from wood) props stakes/pales/rails staves struts  bracts 10 cotyledons young leaves 11 old leaves 12 fallen leaves leaflets stipules leaf blades leaf blades leaf blades leaf buds  roots debarked 'roots' bulbs/corms tubers/tubercles roots nodules aerial roots 17 pneumatophores leaf buds  rhizomes  exudates spadices spadices flowers gum resin	E	, -		· ·
laminated wood particle board/chipboard plywood sawdust timber    Calcohols     Deams/scantlings     Columns     Girders     planks     planks     planks     poles (from wood)     props     stakes/pales/rails     staves     struts	-	semi-drying oils	root bark	liquid albumen
particle board/chipboard plywood sawdust timber    Calcohols			. 10	
plywood sawdust timber (Alcohols) industrial alcohols leaflets stipules leaf blades planks planks planks staxes struts (Umspecified Materials) (Unspecified Materials) (Waxes) young leaves 11 old leaves 12 fallen leaves fallen leaves roots nodules aerial roots 17 pneumatophores leaf blades leaf blades planks staves struts (Unspecified Materials) inflorescences 13 practs 14 spathes spadices flowers flower buds gum		(Essential Oils)		
sawdust timber		l		
timber beams/scantlings columns girders pilings planks poles (from wood) props stakes/pales/rails staves struts  (Alcohols) industrial alcohols  fallen leaves leaflets stipules leaf blades leaf blades leaf buds rhizomes  roots nodules aerial roots 17 pneumatophores leaf buds rhizomes  exudates sap latex spathes spathes spadices flowers flower buds  roots nodules aerial roots 17 pneumatophores rhizomes  exudates sap latex leaf juice gum resin	• •	(Waxes)	young leaves' '	· ·
beams/scantlings columns girders pilings planks poles (from wood) props stakes/pales/rails struts  industrial alcohols  industrial alcohols  leaflets stipules leaf blades leaf blades leaf buds  inflorescences 13 bracts 14 spathes spathes spathes spadices flowers flower buds  industrial alcohols  leaflets stipules leaf blades pneumatophores rhizomes  exudates sap latex spathes gum resin		l		1
columns girders pilings planks poles (from wood) props stakes/pales/rails struts    Cother Materials/Chemicals) <sup>7</sup>   beads   leaf blades   leaf buds   rhizomes     Inflorescences 13   bracts 14   spathes   sap     spathes   spathes   spathes   leaf buds     Inflorescences 13   spathes   sap     spathes   spathes   leaf juice     flower buds   resin     flower buds   resin		1 • •		
girders pilings planks poles (from wood) props stakes/pales/rails struts  (Other Materials/Chemicals) beads carved materials (non-wood) inflorescences 13 bracts 14 spathes spathes spadices flowers flower buds  pneumatophores rhizomes  exudates sap latex leaf juice gum resin		industrial alconois		
pilings planks planks poles (from wood) props stakes/pales/rails staves struts  beads carved materials (non-wood) inflorescences <sup>13</sup> bracts <sup>14</sup> spathes spathes spathes spadices flowers flower buds  rhizomes exudates sap latex spathes gum resin		(04) 14-4-4-1-1-1-1-1-1-1-7		
planks poles (from wood) props stakes/pales/rails struts  carved materials (non-wood) inflorescences 13 bracts 14 spathes spathes spathes spadices flowers flower buds  carved materials (non-wood) inflorescences 13 bracts 14 spathes spathes gum resin	•			1 '
poles (from wood) props stakes/pales/rails staves struts  inflorescences 13 bracts 14 spathes spathes spadices flowers flower buds  inflorescences 13 bracts 14 spathes spathes gum resin	. •	[	leai buds	rnizomes
props (Unspecified Materials) bracts <sup>14</sup> sap stakes/pales/rails staves spadices flowers gum flower buds	-	carved materials (non-wood)	inflatacanana 13	ayudataa
stakes/pales/rails       spathes       latex         staves       spadices       leaf juice         struts       flowers       gum         flower buds       resin		(Unengoified Materials)		ì
staves spadices leaf juice gum flower buds resin	• •	(Onspecified Materials)		1
struts flowers gum flower buds resin	•			l .
flower buds resin			•	1
	Suuts			, •
Podulicios				
i i		l	poduliolos	l lieotai

/continued over

terms in brackets are Level 2 states not Level 3; they are included only to indicate hierarchical relationships

2 includes wood pulp

3 see also basketry (from cane etc.)

4 see also basketry (from fibre)

5 place wood pulp under Fibres - pulp, with Plant Part Used = wood

6 includes turpentine

7 material type known but does not fit in any of the defined categories; this section will include gourds, seeds, bark etc. that are used

8 directly as well as more unusual processed material types and chemicals

9 includes unspecified aquatic parts

9 of stems, trunks or branches

10 of unspecified age; includes cladodes and phyllodes

11 includes cataphylls

2 at base of branches/stems

3 flowering shoots generally without leaves, with bracts, axes of inflorescence and flowers; includes spadices

<sup>13</sup> flowering shoots generally without leaves, with bracts, axes of inflorescence and flowers; includes spadices

<sup>14</sup> includes bracteoles
15 includes pedicels

<sup>16</sup> includes arillodes, strophioles, caruncles 17 includes rhizophores

	Products Used In	
abrasives	constructions	skin darkeners/tans
polishers	bridges	tattoos
sandpaper substitutes	culverts	lipsticks
adhesives	docks/harbours	body paints
wood adhesives	fences	deodorants
cement	flagpoles	body deodorants
buildings	locks/weirs	household deodorants
huts	mines	sewage deodorants
houses	oil wells	depilatories
large buildings	piers/jetties	descalers
outbuildings	railways	emulsifiers
barns	railway sleepers	explosives
beehives	roads	gunpowder <sup>2</sup>
grain stores	paving blocks	fasteners/closures
hen coops	road grit	buttons
sheds	telegraph poles	nails
stables	tunnels/subways	pegs
windmills	wells	plugs
temporary shelters	containers/holders	rivets
tents	baby carriers	screws
tent frames	bags	bottle stoppers
clarifiers (not for water/food)	barrels/casks/tubs	fermentation agents (non-food)
cleansers	baskets	fermentation retarders (non-food)
breath fresheners	bird cages	fire controllers
detergents	boxes	fire extinguishers
shampoo	candlesticks	fire retarders
soap	carrier poles	fishing equipment
soap soap substitutes	coat hangers	fish bait
toothpaste/dentrifice	crates	fish hooks
	buckets/pails	fish traps
clothing clothes	coasters/table mats	fishing floats
	coffins	fishing lines
headgear hats	cups	fishing lures
helmets	handles (of containers/holders)	fishing nets
	plant pots	fishing reels
footwear	plant pots plates/bowls	fishing rods
clogs	1 · · · · · · · · · · · · · · · · · · ·	floors
sandals	pottery	decks
shoes	purses sacks	floorboards
slippers	sacks shoe trees	parquet floors
coagulants	' '	sawdust-magnesite floors
latex coagulants	straps	foundations
coatings	trays	furnishings
paints/varnishes/thinners	troughs	blankets
paints	trunks/cases	
thinners	wrappers	carpets/rugs curtains
varnishes	food wrappers	l .
lacquer	cosmetics	cushions
protective colloids	hair oil/lacquer	lampshades
sizing agents	hair dyes	mats
stiffeners (for clothes)	hair conditioners	ornaments
vinyl resin emulsions	shaving creams	picture frames
waterproofers	skin cosmetics	pillows
house waterproofing	cicatrices	pot plant holders
4 4:1	protective skin creams <sup>1</sup>	pot pourri
textile waterproofing	1	
caulking	skin lotions/creams skin lighteners	sashes/blinds wall hangings

/continued over

 $<sup>^{\</sup>mbox{1}}_{\mbox{see}}$  also sunscreen in MEDICINES - Skin/Subcutaneous Cellular Tissue Disorders  $^{\mbox{2}}_{\mbox{carbon/charcoal}}$ 

#### Products Used In propellers snuff boxes furniture medical accessories spectacle cases beds artificial limbs sponge substitutes hed frames tooth cleaners cabinets bandages toothbrushes crutches cradles chew sticks false teeth furniture legs tooth blackeners surgical powder hammocks umbrellas/parasols slings mattresses walking sticks seating splints wreaths stretchers couches plastics chairs models mordants plastic extenders stools musical instruments plasticisers tables preservatives idiophones<sup>1</sup> table tops wardrobes struck idiophones antioxidants plucked idiophones<sup>2</sup> purifiers (non-water) gelling agents rubbed idiophones harnesses/tack roofs harnesses blown idiophones shingles thatching spars flutes saddles pipes tiles whipple trees mouthpieces yokes scientific/technical equipment membranophones<sup>3</sup> hoops struck drums maths/drawing equipment incense friction drums carbon paper illuminants singing membranes<sup>4</sup> chordophones<sup>5</sup> candles chalk substitutes map rollers torches simple chordophones<sup>6</sup> joinery measures composite chordophones<sup>7</sup> pencils architraves bows pens balconies bathroom/toilet fitments strings printing agents printed material rulers cupboards door frames books set squares histological stains computer output door handles doors newpapers entomological mounts periodicals electric light blocks entomological labels fireplaces perfumes sports equipment gates personal items balls coins/tallies handrails billiard balls kitchen fitments combs footballs light fitments sports bats/racquets fans mouldings false hair cricket bats picture rails hairbrushes golf club shafts porches hair dressings tennis racquets shelves hat pins ski stocks 'jewellery'/personal adornment shutters sports nets sports sticks/clubs/cues skirtings bracelets stairs/fixed steps brooches hockey sticks water pipes chaplets snooker/billiard cues earrings sports tables window frames work surfaces necklaces snooker/billiard tables lubricants tools rosaries machines manicure sticks agricultural tools machine parts awls razor strops bearings smoker's equipment blocks/slabs (for butchers etc.) brakes pipes (smoker's) blocks (for hats) cigar cases blocks (for rice paper) brake blocks cigarette holders blocks and pulleys coas cigarette wrappers blocks (for pulleys) machine kevs lathe chucks toilet 'paper' pulleys machine frames

```
1 instrument itself makes the sound
2e.g. jew's harp
3 sound caused by vibration of a membrane
4e.g. kazoos
5 sound caused by vibration of a string
6e.g. zithers
7 e.g. lutes, guitars, violins, harps, harp lutes
```

	Products Used In		Dye/Pigment Colour	
tools (continued)	tools (continued)	vehicles (continued)	black	
bobbins/spools/reels	tent pegs	train carriages	blue	
bottle openers	tool handles	wagons/carts	brown	
brushes/brooms	axe handles	walls	green	
carpet beaters	tongs	coverings	purple	
carpentry tools	torches	lattices	red	
chopsticks	weather forecasters	panels	vellow	
clothes pegs	weaver's beams	decorative panels	'ono ''	
crushers/mills/presses	weights	screens		
mortars	standard gold weights	wattles/laths		
pestles	whisks	weather boards		
digging sticks	toys/games	weapons	1	
drinking straws	dice	arrows	1	
forks	board games	arrow shafts		
graters	board game pieces	arrow tips	ì	
hammers	chess pieces	blow pipes	İ	
knives	game boards	bows	ł	
ladders	dolls	bow strings		
ladder rungs	vehicles	clubs	ł	
levers	aeroplanes	daggers		
mallets	boats/ships	darts		
match sticks	boat/ship parts	guns		
muzzles (for animals)	oars/sculls	gun carriages	ļ	
needles	rowlocks	gun stocks		
crochet needles	punt poles	lures	ļ	
knitting needles	rudders	punishment aids <sup>1</sup>		
sewing needles	paddles	quivers	j	
patterns	sails	sabres	1	
pincushions	masts/booms	scabbards/sheaths		
planes (for carpentry)	boat ribs	shields		
plant supports	boat keels	spears		
plugs	buses	spear shafts		
rakes	canoes	stinging crystals		
rollers	dugout canoes	throwing sticks/boomerangs	1	
scaffolding	caravans	traps/snares		
shoemaker's lasts	cars	birdlime		
shuttles	gliders	whips	1	
sieves	rafts	wheels	1	
spoons	sledges	axles		
surgical implements	spacecraft	hubs		
tatooing spines	trailers	rims		
		spokes	I	

TABLE 19. States for the <u>Stand Alone</u> descriptor, <u>Wood Properties</u>.

Wood Properties						
weight - very heavy weight - heavy weight - medium weight - light hardness - very hard hardness - hard hardness - moderately hard hardness - soft colour - pale colour - dark	colour - yellow colour - red colour - cream colour - striped grain - fine grain - medium grain - broad size availability - large size availability - small only shrinkage - tendency shrinkage - no tendency	splitting – tendency splitting – no tendency stability – stable stability – not stable durability – durable durability – not durable durable in marine environment durable in freshwater durable in soil durable underground durable on exposure to weather	workability – good workability – poor workability – can be sawn workability – can be planed workability – can be polished workability – takes nails workability – takes screws workability – takes glue workability – takes paint/varnish termite-resistant			

<sup>&</sup>lt;sup>1</sup>includes sticks, stinging nettle stems etc.

#### **FUELS**

Fuel uses could have been put within the list of Products Used In (Level 3) within MATERIALS, but they have deliberately been given LEVEL 1 use status owing to their importance. Some users of this standard will be restricting themselves to LEVEL 1 only, so it was deemed necessary to have FUELS available as a choice at this level.

Table 20 shows the **Level 2** and Level 3 structure for describing **FUELS**. At **Level 2**, fuel uses has been divided according to six fuel types. There are three Level 3 descriptors: Plant Parts Used, Uses Of Fuel and Fuel Quality. Table 21 lists the states for each of these. For Plant Parts Used only the more likely states are shown; more are given in the Master List of Plant Parts (Appendix A, Table 43). Any additions should be coordinated by the author. <u>Stand-Alone</u> descriptors particularly relevant to this use group include those that relate to the availability of chemical analyses for plant parts (see Table 39) and <u>Chemical Compounds Present</u> (Table 40) and <u>Wood Properties</u> (Table 19). The general *Notes Categories* (Table 5) are applicable.

TABLE 20. Matrix showing Level 3 descriptors for fuels and their relationship to the **Level 2** states. (The shaded elements in the matrix are redundant.)

	Plant Parts Used	Uses Of Fuel	Fuel Quality
FUELS — Unspecified Fuels			
FUELS — Miscellaneous Fuels			
FUELS — Fuelwood			
FUELS — Charcoal			
FUELS — Petroleum Substitutes/Alcohols etc.			
FUELS — Tinder			

TABLE 21. States for the Level 3 descriptors for fuels.

Plant Parts	s Used	Uses Of Fuel	Fuel Quality
entire plant <i>ex situ</i>	infructescences	smelting fuel	calorific value – high
unspecified aerial parts <sup>1</sup>	fruits entire immature fruits entire mature fruits	cooking fuel heating fuel lighting fuel	calorific value – average calorific value – low smoky on combustion
galls	deseeded fruits	incendiary	smokeless on
leaf galls	fruit pulp	vehicle fuel	combustion
root galls	epicarp	fire starters	l
stem galls			
fruit galls	seeds arils <sup>5</sup>		
stems	entire seeds		
leafy stems/branches	seeds without testa		ł
defoliated stems/branches	seed hairs		
stolons	testa		
trunks	kernels		
wood	seed oil		ì
sapwood	seed cake		
heartwood	solid albumen		1
thorns	liquid albumen		
bark	'roots'		
stem bark <sup>2</sup>	debarked 'roots'		
inner bark	bulbs/corms		
root bark	tubers/tubercles		
root bank	roots		l
leaves <sup>3</sup>	nodules		
old leaves <sup>4</sup>	aerial roots <sup>6</sup>		
fallen leaves	pneumatophores		
leaflets	rhizomes		
leaf blades			
leaf buds	exudates	ł	ł
	sap	1	
inflorescences	latex		
spathes	gum	1	
spadices	resin		1
flowers			
flower buds		1	l

1 includes unspecified aquatic parts
2 of stems, trunks or branches
3 of unspecified age; includes cladodes and phyllodes
4 at base of branches/stems
5 includes arillodes, strophioles, caruncles
6 includes rhizophores

#### **SOCIAL USES**

Table 22 shows the **Level 2** and Level 3 structure for describing **SOCIAL USES**. There are four **Level 2** states and two Level 3 descriptors: Plant Parts Used and Specific Social Use Types. Table 23 (see over) lists the states for each Level 3 descriptor. Stand-Alone descriptors particularly relevant to this use group include those that relate to the availability of chemical analyses for plant parts (Table 39) and <u>Chemical Compounds Present</u> (Table 40). In addition to the generally applicable *Notes Categories* (Table 5), those specific to social uses include *Occasions When Used* (Table 24, below).

Antifertility agents have been classed within SOCIAL USES, to prevent confusion between plants which are used for treatment of fertility disorders (a medicinal use) and those which are used for fertility control (a social use).

It is possible that users of this standard may wish to expand the states related to ritual/religion/magic uses. Adjanohoun *et al.* (1989) have detailed lists of terms which might be included under this category; please contact the author if any of these would be useful in a revised version of this standard.

TABLE 22. Matrix showing Level 3 descriptors for social uses and their relationship to Level 2 states.

	Plant Parts Used	Specific Social Use Types
SOCIAL USES — Unspecified Social Uses		
SOCIAL USES — Smoking Materials/Drugs		
SOCIAL USES — Antifertility Agents		
SOCIAL USES — 'Religious' Uses		

TABLE 23. See overleaf.

TABLE 24. Some suggested keywords for describing Occasions When Used in Notes regarding social uses.

Dirth
death
puberty
supernatural
weddings

TABLE 23. States for the Level 3 descriptors for social uses.

Plant Parts	s Used	Specific Social Use Types <sup>1</sup>
live plant in situ	calyces	(Smoking Materials/Drugs)
	corollas	masticatories
entire plant <i>ex situ</i>	androecia	snuff
2	stamens	snuff adulterants
unspecified aerial parts <sup>2</sup>	pollen	smoking materials
	gynoecia/pistils	tobacco adulterants
seedlings/germinated seeds	styles/stigmas	
	1	narcotics
galls	infructescences	hallucinogens
leaf galls	fruits	psychoactives
root galls	entire immature fruits	facilitants to drug effects
stem galls	entire mature fruits	drug adulterants
fruit galls	deseeded fruits	intoxicants
	fruit pulp	(Antifertility Agents)
stems	fruit juice	birth control
plumules	epicarp	contraceptives
leafy stems/branches defoliated stems/branches	seeds	antifertility (female)
	arils 9	anti-implantation
stolons trunks	entire seeds	antifertility (male)
wood	seeds without testa	spermicides
	seed hairs	abortifacients
sapwood heartwood	testa	
tendrils	kernels	('Religious' Uses)
thorns	seed oil	ritual/religion/magic
thoms	seed cake	sacred plant
bark	solid albumen	·
stem bark <sup>3</sup>	liquid albumen	
inner bark	1	
root bark	'roots'	
	debarked 'roots'	1
leaves <sup>4</sup>	bulbs/corms	
cotyledons	tubers/tubercles	
young leaves <sup>5</sup>	roots	
old leaves <sup>6</sup>	nodules	
fallen leaves	aerial roots <sup>10</sup>	
leaflets	pneumatophores	
stipules	rhizomes	
leaf blades		
leaf buds	exudates	
	sap	
inflorescences	latex	
bracts <sup>7</sup>	leaf juice	
spathes	gum	
spadices	resin	
flowers	nectar	
flower buds		
peduncles <sup>8</sup>		
receptacles		

terms in brackets are Level 2 not Level 3 states; they are included only to indicate the hierachical relationships includes unspecified aquatic parts of stems, trunks or branches of unspecified age, includes cladodes and phyllodes includes cataphylls of at base of branches/stems includes bracteoles includes pedicels includes pedicels includes arillodes, strophioles, caruncles includes arillodes, strophioles, caruncles includes rhizophores

### **VERTEBRATE POISONS**

Table 25 shows the Level 2 and Level 3 structure for describing VERTEBRATE POISONS. Level 2 states are groups of vertebrate organisms which are affected by poisonous plants (i.e. Fish, Amphibians, Reptiles, Birds, Mammals and Unspecified Vertebrates). There are five Level 3 descriptors whose states are listed in Tables 26 and 27: Poisonous Plant Parts, Specific Vertebrates Affected, Uses of Poisons (Table 26) Body Parts/Processes Affected (Table 27a), and Disorders Caused/Harmful Effects (Table 27b). Stand-Alone descriptors particularly relevant to this use group include those that relate to the availability of chemical analyses for plant parts (Table 39) and Chemical Compounds Present (Table 40). The general Notes Categories (Table 5) also apply.

The organism group affected by the poisons is of major interest; of secondary interest are the effects the poisons have, the specific organisms which can be affected, and finally any uses to which man puts these poisonous properties. This treatment allows information on plants which are poisonous, but which are not actually used as poisons, to be treated in the same section as those that are used as poisons. This is useful, as information on poisons has economic implications on the negative side as well as the positive. Dealing with both aspects in the same section (but clearly separating them) prevents unnecessary duplication of information in any database. This treatment also enables selection of taxa which have the potential to be used as vertebrate poisons. Within the Uses of Poisons descriptor is a state 'not used'; this enables those plants which are poisonous but **not** used to be distinguished from those that are actually **used** for the poisonous properties.

Body Parts/Processes Affected and Disorders Caused/Harmful Effects are included at Level 3 because of the important overlap between VERTEBRATE POISONS and MEDICINES. Plants are poisonous on account of active principles which stimulate a physiological response. Depending on the amount that an organism receives, and its state of health, such plants may also be therapeutic. This close link between poisonous and medicinal plants supports the case for including such detail within VERTEBRATE POISONS. Such details could provide leads to new medicines, in addition to being valuable poisonous plant data.

Only the most likely organisms to be encountered in relation to poisonous plants have been listed in Table 26 but reference can also be made to the Master List of Organisms (Appendix A, Table 45). Table 27b) lists the most likely Disorders Caused/Harmful Effects of Poisons (and an alphabetical list of these is provided in Appendix F, Table 51). If further terms are required these should be taken from the states listed for Disorders Treated/Medicinal Effects in Table 32 within MEDICINES. Addition of any totally new terms to the standard should be arranged via the author. (Tables 49 and 50) provides the Master List of Body Parts/Processes, listed in grouped order and alphabetically respectively, and Appendix G (Table 52) provides an alphabetical list of the Level 2 and most Level 3 medicinal terms used in this standard. Of course there may be terms which are not listed or are not synonymous with any terms that are listed; again any additions should be arranged via the author. Although there is an overlap between the states for Disorders Caused/Harmful Effects in POISONS and Disorders Treated/Medicinal Effects in MEDICINES, there are some terms which are relevant only to POISONS and not to MEDICINES. These are listed in Appendix G (Table 65).

TABLE 25. Matrix showing Level 3 descriptors for vertebrate poisons and their relationship to the **Level 2** states. (The shaded elements in the matrix represent redundant combinations.)

	Poisonous Plant Parts	Specific Vertebrates Affected	Body Parts/ <i>Processes</i> Affected	Disorders Caused/ Harmful Effects	Uses of Poisons
VERTEBRATE POISONS — Unspecified Vertebrates					
VERTEBRATE POISONS — Fish					
VERTEBRATE POISONS — Amphibians					
VERTEBRATE POISONS — Reptiles					
VERTEBRATE POISONS — Birds					
VERTEBRATE POISONS — Mammals					

TABLE 26. States for the Level 3 descriptors for vertebrate poisons (part 1).

Poisonous P	Poisonous Plant Parts Specific Vertebrates Affected  1		Uses Of Poisons
live plant <i>in situ</i>	receptacles	(Fish)	ordeal trials hunting
entire plant ex situ	calyces corollas	(Amphibians)	arrows/spears
·	androecia	frogs	fishing
unspecified aerial parts <sup>2</sup>	stamens pollen	salamanders	plant pest control livestock pest control
seedlings/germinated seeds	gynoecia/pistils styles/stigmas	(Reptiles) turtles	vermin control house pest control
galls		crocodilians	disease vector control
leaf galls	infructescences	lizards	stored products protection
root galls	fruits	snakes	timber protection
stem galls	entire immature fruits	l	homicide
fruit galls	entire mature fruits	(Birds)	infanticide
	deseeded fruits	chickens	suicide
stems	fruit pulp	turkeys	warfare
plumules	fruit juice	game birds <sup>11</sup>	not used
leafy stems/branches	epicarp	1,00	
defoliated stems/branches		(Mammals)	
stolons	seeds	bats	
trunks	arils <sup>9</sup>	primates	
wood	entire seeds	humans	
sapwood	seeds without testa	lagomorphs	
heartwood	seed hairs	rabbits	
tendrils	testa	hares	
thorns	kernels	rodents	
	seed oil	squirrels	
bark	seed cake	rats	
stem bark <sup>3</sup>	solid albumen	mice	
inner bark	liquid albumen	cavies	
root bark	'roots'	Equidae	
	debarked 'roots'	horses asses	
leaves <sup>4</sup>	bulbs/corms		
cotyledons	tubers/tubercles	donkeys mules	
young leaves <sup>5</sup>	roots	Suiformes	
old leaves 6	nodules	pigs	
fallen leaves	aerial roots <sup>10</sup>	Camelidae	
leaflets	pneumatophores	camels	1
stipules	rhizomes	llamas	
leaf blades	11112011103	ruminants	
leaf buds	exudates	bovines	
	sap	cattle	
inflorescences	latex	yak	
bracts <sup>7</sup>	leaf juice	buffalo	
spathes	gum	bison	
spadices	resin	caprines	1
flowers	nectar	sheep	
flower buds		goats	
peduncles <sup>8</sup>	1	game mammals <sup>12</sup>	1
		1 -	1

<sup>&</sup>lt;sup>1</sup>terms in brackets are Level 2 not Level 3 states; they are included only to indicate the hierarchical relationships <sup>2</sup>includes unspecified aquatic parts

of stems, trunks or branches to stems, trunks or branches cladodes and phyllodes includes cataphylls

Includes cataphylls

fat base of branches/stems

includes bracteoles

includes pedicels

<sup>&</sup>quot;includes pedicels

includes arillodes, strophioles, caruncles

10 includes rhizophores

11 actual bird species unspecified

12 actual animal species unspecified

TABLE 27 a) and b). States for the Level 3 descriptors for vertebrate poisons (part 2). (Terms in italics in a) are processes and in b) are harmful effects.)

	a) Body Parts/ <i>Processes</i> Affect	cted
chromosomes	oesophagus	menopause
DNA	pancreas	menstruation
RNA	parotid peritoneum	nipples
	rectum	ovaries
Blood System	rumen	oviduct
agglutination	salivary glands	ovulation
blood	small intestine	pelvic cellular tissue
bone marrow	soft palate	penis
coagulation	stomach	perineum
erythrocytes	teeth	placenta
fibrinolysis	tongue	post menopause
leukocytes	uvula	prostate
plasma		scrotum
platelet aggregation	Endocrine System	semen
platelets	adrenal gland	seminal vesicles
spleen	glands	sperm
	growth	spermatic chord
Circulatory System	hypothalamus	testes
aorta	islet cells of Langerhans	ureter
arteries	parathyroid	urethra
arterioles	pineal gland	urinary tract
blood pressure	pituitary	urination
blood vessels	sexual development	uterine ligament
capillaries	thymus	uterine mucosae
carotid	thyroid	uterus
cerebrovascular circulation		vagina
endocardium	Genitourinary System	vaginal mucosae vas deferens
epicardium	areola	
heart	Bartholin's gland	vulva
heart beat 	bladder	Immune System
myocardium	breasts	lymph
pericardium	cervix	lymph glands
pulmonary circulation	climacterium	lymph nodes
valves of heart	clitoris	lymph vessels
veins	copulation	lymphocytes
	corpus luteum	Tymphocytos
Digestive System	eggs ejaculatory duct	Metabolic System
abdomen	epididymis	amino acid metabolism
anal canal	Fallopian tubes	amino acid transport
anus	female breasts	calcium metabolism
appendix	female fertility	carbohydrate metabolism
bile duct	female genitals	carbohydrate transport
caecum	foreskin	copper metabolism
colon	genital tract	energy metabolism
duodenum	germ cells	enzyme activity
gall bladder	glans penis	fluid, electrolyte and acid balance
gums	hymen	iron metabolism
hard palate	implantation	lipoid metabolism
ileum intestine	kidney cells	magnesium metabolism
	kidneys	mineral metabolism
jejunum	labia	phosphorous metabolism
large intestine	libido	plasma protein synthesis
lips	male breasts	porphyria metabolism
liver	male fertility	purine and pyrimidine metabolism
mesenteric glands	male genitals	sweating
mouth	male germans	temperature regulation

/continued over

#### a) Body Parts/Processes Affected

Muscular-Skeletal System ankles arms back body bones bursa cartilages chest clavicle coccyx connective tissues elbows extremities

face
fascia
fatty tissue
feet
fingers
hands
head
hips
histiocytes
intervertebral discs

jaws
joints
knees
legs
ligaments
limbs
lower limbs
lumbar region
mandible
mast cells
maxilla
muscles
neck
pelvis
ribs

sacrum
shoulders
skeletal muscles
skull
smooth muscles
soft tissues
spine
sternum
synovia
tendons
thighs
toes
upper limbs

sacroiliac region

Nervous System

vertebrae

wrists

autonomous nervous system

brain brain stem

central nervous system

cerebral meninges
cerebrum
cranial nerves
facial nerves
frontal lobe of brain
ganglia
intercranial region
meninges
motor nerves
nerve roots
nerves
neurotransmitters

occipital lobe of brain parasympathetic nervous system

parietal lobe of brain peripheral nerves

peripheral nervous system sensory nerves spinal chord spinal meninges spinal plexus

sympathetic nervous system

temporal lobe of brain ventricles

Nutrition

Pregnancy/Birth/Puerperium

birth
labour
lactation
post partum
pregnancy
puerperium

Respiratory System

adenoids
alveoli
bronchi
bronchioles
diaphragm
epiglottis
glottis
hypopharynx
large cells of lung

larynx lungs mediastinum nasal tract nasopharynx nose oropharynx pharynx pleura

respiratory mucosae sinuses small cells of lung subglottis supraglottis thorax throat tonsils trachea

Sensory System acoustic nerves auditory canals balance choroids ciliary bodies conjunctivae corneas eardrums ears

Eustachian tubes eye movements eyelids eyes globes hearing inner ears irises

lachrymal ducts lachrymal glands lachrymal system lenses

mastoids middle ears optic nerves orbits of eyes ossicles outer ears pupils

refraction and accommodation

retinas sclerae smell taste touch

tympanic membranes

vision

vitreous bodies

Skin/Subcutaneous Cellular Tissue

beard
eyebrows
fur
groin
hair
hair follicles
hoofs
moulting
nails
navel
perianal area
scalp

sebaceous glands

skin

skin of specific areas subcutaneous cellular tissue

sweat glands

#### b) Disorders Caused/Harmful Effects

**Abnormalities** agenesis

atrophy

congenital abnormalities

cysts deformities degeneration deposits displacement dysfunction failure

hypertrophy lesions mitotic mutagenic necrosis obstructions oedemas organ failure pigmentation polyps

prolapse stricture terato genic vascular anomalies

**Blood System Disorders** 

anaemia anticoagulant haemolysis hypocalcaemia hypoxaemia polycythemia

Circulatory System Disorders

arrhythmia artherosclerosis bradvcardia

cardiovascular stimulant

clots dvsrhvthmia heart disease hypertension hypotension ischaemia vasoconstriction vasodilation

Death

Digestive System Disorders

allergic colitis allergic gastroenteritis

biliousness bloat caries choleretic cholestasis cholestatic

cirrhosis colic constipation diarrhoea duodenal ulcers emetic flatulence

gallstones gastric ulcers gastro-jejunal ulcers hypercholia

indigestion irritable bowel syndrome

laxative nausea peptic ulcers purgative sialaporia sialism vomiting

**Endocrine System Disorders** 

anabolic androgenic antioestrogenic diabetes mellitus diabetes insipidus

goitre hyperglycaemia hyperoestrogenism hyperparathyroidism hypoglycaemia hypoparathyroidism

oestrogenic polyglandular dysfunction

steroidal

hypothyroidism

Genitourinary System Disorders albuminuria

amenorrhoea anaphrodisiac anuria aphrodisiac azoospermy blennorhagia cervical dilator diuretic dysmennorhoea dyspareunia dysuria emmenagogue female infertility female sterility haematuria impotence kidney stones

leukorrhoea

male infertility

male sterility menorrhagia metrorrhagia natriuretic oligomennorhoea oligospermy oligurea organic impotence

pollakiuria polyuria

pre-menstrual syndrome premature ejaculation urethral leakage urinary incontinence urinary retention uterine relaxant uterine stimulant

**III-Defined Symptoms** adenopathy comas dizziness<sup>1</sup> fainting malaise/fatigue<sup>2</sup>

Immune System Disorders autoimmune disease immunostimulant immunosuppressant

Inflammation<sup>3</sup>

Injuries abscesses blisters bruises burns burns (internal)

cerebrovascular haemorrhages

haemorrhages internal bleeding nerve injuries scars superficial injuries

thorn/splinter injuries

wounds

Mental Disorders amnesia

anxiety behaviour disturbances cannabis dependence cocaine dependence

confusion delirium delusion dementia depressant

/continued over

<sup>&</sup>lt;sup>1</sup>non-Menières/vertiginous

<sup>&</sup>lt;sup>2</sup>not due to heat, combat, pregnancy, neurasthenia, senile asthenia

Appendix G (Table 54 and 55) shows specialist inflammation terms related to body parts affected, and Table 56 provides a list of the most likely body parts to be affected by inflammation

#### b) Disorders Caused/Harmful Effects

drug psychoses emotional disturbances euphoriant hallucinogen dependence hallucinogenic hallucinosis hypersomnia hypnotic hyposomnia insanity intoxicant mania mental disability narcolepsy narcotic nervous breakdowns nervous excitement nicotine dependence nightmares non-dependent drug abuse opioid dependence panic paranoia relaxant sedative shock tranquilliser

drug dependence

Metabolic System Disorders antiperspirant dehydration diaphoretic enzyme inhibitor fluid overload glucosidase inhibitor gout hypercholesterolaemia hypothermia oxidase inhibitor proteinase inhibitor refrigerant trypsin inhibitor

trauma (psychic)

Muscular-Skeletal System Disorders allergic arthritis ankylosis asthenia contractions cramp fibrillation muscle relaxant myopathy osteoporosis spasms sprains trembling

Neoplasms<sup>1</sup>
benign neoplasms
cytotoxic
malignant neoplasms
primary malignant neoplasms<sup>2</sup>
leukaemias<sup>3</sup>
secondary malignant neoplasms<sup>4</sup>
carcinomas in situ
neoplasms of uncertain behaviour
unspecified neoplasms

Nervous System Disorders
Alzheimer's disease
amyotrophic lateral sclerosis
ataxia
brain damage (anoxic)
choreas
convulsions
depressant
epilepsy
lathyrism
migraines
motor neurone disease
palsy
paralysis

Nutritional Disorders antifeedant antioxidant appetite stimulant appetite suppressant free radical scavenger weight loss

Parkinson's disease

stimulant

Pain<sup>5</sup>

anaesthetic

analgesic

anodyne

Poisonings
allergic reactions
anaphylactic shock
intoxication
intoxication due to drugs
medicine poisoning
noxious foods
stings

Pregnancy/Birth/Puerperium
Disorders
abortifacient
early or threatened labour
foetal growth retardation
galactorrhoea
haemorrhages of pregnancy
hypertension of pregnancy
labour induction
lactation stimulant
miscarriages
pre-eclampsia

#### Repellent

snoring

voice loss

Respiratory System Disorders allergic asthma allergic rhinitis (non-pollen) asphyxia asthma breathlessness bronchodilator congestion coughs emphysema extrinsic allergic alveolitis hav fever hiccoughs pneumonia respiratory stimulant

Sensory System Disorders amblyopia hlindness cataracts deafness diplopia glaucoma low vision miotic mydriatic mystagmus retina vascular changes retinopathy squints tinnitus visual disturbance

Skin/Subcutaneous Cellular

Tissue Disorders

achromatrichia allergic contact dermatitis allergic urticaria astringent baldness boils calluses carbuncles contact dermatitis<sup>6</sup> dandruff depilatory7 dermatitis dermatitis due to internally taken substances eczema ervthema hair loss hirsutism irritation itchina lichen lupus erythrematosus photosensitivity pustules rashes sores ulcers urticaria vitiligo

warts

whitlows

of specific sites

 $<sup>^{1}\</sup>mathrm{see}$  Appendix G (Table 53) for details of types of neoplasms and the body parts which are implied  $^{2}\mathrm{of}$  specific sites

<sup>&</sup>lt;sup>3</sup>primary malignant neoplasms of lymphatic and haematopoietic tissue

Appendix G, Table 57, lists the most likely body parts to be affected by Pain

<sup>&</sup>lt;sup>6</sup>due to detergents, oils and grease, solvents, drugs and medicines, chemical products, food contact, plants etc.
<sup>7</sup>also see MATERIALS for cosmetic depilatories

#### **NON-VERTEBRATE POISONS**

Table 28 shows the Level 2 and Level 3 structure for describing NON-VERTEBRATE POISONS. Level 2 states are groups of non-vertebrates affected by poisonous plants. There are four Level 3 descriptors: Poisonous Plant Parts, Specific Non-Vertebrates Affected, Effects of Poisons and Uses of Poisons. Their states are shown in Table 29. The list of states for the Effects of Poisons descriptor is briefer for NON-VERTEBRATE POISONS than the equivalent (Disorders Caused/Harmful Effects) for VERTEBRATE POISONS. (The fuller treatment in the VERTEBRATE POISONS was pursued due to their close relationship to medicinal plants.) Stand-Alone descriptors particularly relevant to this use group include those that relate to the availability of chemical analyses for plant parts (Table 39) and Chemical Compounds Present (Table 40). The general Notes Categories (see Table 5) also apply. Appendices A and B include Master Lists of Plant Parts and Organisms, respectively. Appendix B (Table 46) helps to locate various organisms and organism groups within the accepted classification; some genera of Protozoa, Arthropoda and other Eumetazoa are included. Additionally, Appendix G (Tables 61 and 62) lists medicinally important organisms which cause infections or infestations, in alphabetical and grouped order, respectively. These can also help to assign organisms to their broad taxonomic group and are especially useful for Fungi, If additional terms are to be added to the Specific Non-Bacteria and Viruses. Vertebrates Affected descriptor, then the classification of Parker (1982) should be followed.

Examples are given below to clarify how non-vertebrate poisons are recorded.

- 1) Antibacterial agents are assigned to the **Level 2** state **NON-VERTEBRATE POISONS Bacteria**.
- 2) Insect repellents are assigned to the **Level 2** state **NON-VERTEBRATE POISONS Arthropoda**, with the Level 3 descriptors, Specific Organism Affected Insecta and Effects of Poisons repellent. Where it is known why the insect repellent is used, this is recorded in the Uses of Poisons descriptor, e.g. plant disease control.
- 3) Molluscicides used in the control of schistosomiasis are assigned to the **Level 2** state **NON-VERTEBRATE POISONS Mollusca**, with the Level 3 descriptor, Uses of Poisons disease vector control.

In the case of NON-VERTEBRATE POISONS — Protozoa and NON-VERTEBRATE POISONS — Other Eumetazoa (e.g. Platyhelminthes, Nemertea, Nemata, Annelida) there is some overlap between NON-VERTEBRATE POISONS and MEDICINES. For instance, nematode infections can be coded within MEDICINES to indicate that a plant is used in the medicinal treatment of them. Plants which are toxic to nematodes can also be coded within NON-VERTEBRATE POISONS. This overlap is permitted because, in some cases, medicinal treatment of nematode infections may only be useful in treating symptoms of the disease. On the other hand, an entry in NON-VERTEBRATE POISONS of plants which are toxic to nematodes means that the plant has a deleterious effect on the organism itself. During searches on a database with both medicines and poisons data, it will often be necessary to query both sections for complete retrieval of relevant data relating to poisons of medicinally important organisms.

Within the Uses of Poisons descriptor is a state 'not used'. This is to enable those plants, which have been shown to have the poisonous property but are **not** used, to be distinguished from those that are actually **used** for their poisonous properties.

TABLE 28. Matrix showing Level 3 descriptors for non-vertebrate poisons and their relationship to the **Level 2** states. (The shaded elements in the matrix are redundant combinations.)

	Poisonous Plant Parts	Specific Non- Vertebrates Affected	Effects of Poison	Uses of Poisons
NON-VERTEBRATE POISONS — Unspecified Non-Vertebrates				
NON-VERTEBRATE POISONS — Unspecified Microbes				
NON-VERTEBRATE POISONS — Viruses				
NON-VERTEBRATE POISONS — Bacteria				
NON-VERTEBRATE POISONS — Fungi				
NON-VERTEBRATE POISONS — Plants				
NON-VERTEBRATE POISONS — Protozoa				
NON-VERTEBRATE POISONS — Mollusca				
NON-VERTEBRATE POISONS — Arthropoda				
NON-VERTEBRATE POISONS — Other Eumetazoa <sup>1</sup>				

<sup>&</sup>lt;sup>1</sup>i.e. non Mollusca/Arthropoda; includes Platyhelminthes, Nemertea, Nemata, Annelida

TABLE 29. States for the Level 3 descriptors for non-vertebrate poisons.

Poisonous P	lant Parts	Specific Non- Vertebrates Affected <sup>1</sup>	Effects of Poisons	Uses of Poisons
live plant in situ	receptacles	(Unspecified Microbes)	death	weed control
entire plant ex situ	calyces corollas	(Viruses) (Bacteria)	repellent mutagenic	plant disease control plant pest control
unspecified aerial parts <sup>2</sup>	androecia stamens	Gram negative bacteria Gram positive bacteria	antifeedant reproduction inhibitor	livestock pest control vermin control
seedlings/germinated seeds	pollen gynoecia/pistils	(Fungi) (Plants)	moulting inhibitor germination inhibitor	house pest control disease vector control
	styles/stigmas	Algae	growth inhibitor	stored products protection
galls		Pteridophyta	ł	timber protection
leaf galls	infructescences fruits	Bryophyta		medicines
root galls	entire immature fruits	Gymnospermae		not used
stem galls fruit galls	entire mature fruits	Angiospermae (Protozoa)		
iruit gails	deseeded fruits		i	1
stems		Sarcomastigophora Mastigophora		
plumules	fruit pulp fruit juice	Opalinata	1	l
leafy stems/branches	epicarp	Sarcodina		1
defoliated stems/branches	ерісагр 	Labyrinthulata		i
stolons	seeds _	Apicomplexa		
trunk	arils 9	Microspora		
wood	entire seeds	Мухогоа	i	
sapwood	seeds without testa	Ascetospora		
heartwood	seed hairs	Ciliophora		
tendrils	testa	(Mollusca)	ļ	
thorns	kernels	(Arthropoda)	!	
	seed oil	Arachnida		
bark	seed cake	Scorpiones		
stem bark <sup>3</sup>	solid albumen	Araneae	ì	ł
inner bark	liquid albumen	Pseudoscorpionida		
root bark	•	Acari		
_	'roots'	Crustacea	J	]
leaves <sup>4</sup>	debarked 'roots'	Insecta		
cotyledons _	bulbs/corms	Blattaria		
young leaves <sup>5</sup>	tubers/tubercles	Isoptera		
old leaves <sup>6</sup>	roots	Orthoptera	ł	
fallen leaves	nodules	Phasmatoptera		
leaflets	aerial roots 10	Anoplura		
stipules	pneumatophores	Diptera		
leaf blades	rhizomes	Culicidae		1
leaf buds		Psychodidae		
	exudates	Glossinidae		
inflorescences	sap	Siphonaptera	l	ł
bracts /	latex	Hemiptera	ł	
spathes 	leaf juice	Homoptera		
spadices	gum	Lepidoptera	J	ļ
flowers	resin	Hymenoptera (Other Eumetazoa)		l
flower buds	nectar	Platyhelminthes	l	l
peduncles 8		Turbellaria	1	l
		Trematoda	1	l
		Cestoda		
		Nemertea	1	l
		Nemata	J	l
		Adenophora	1	İ
		Trichocephalida	1	
	l	Secernentea	1	
	l	Rhabditida	1	ł
	1	Strongylida		i
		Ascarida	1	l
	1	Spirurida	1	I
	1	Camallanida	{	1
		Annelida	1	1
	ı	Hirudinea	Ī	I

<sup>1</sup> terms in brackets are Level 2 not Level 3 states; they are included only to indicate the hierarchical relationships includes unspecified aquatic parts of stems, trunks or branches of unspecified age, includes cladodes and phyllodes includes cataphylls at base of branches/stems includes bracteoles includes pedicels includes pedicels includes arilodes, strophioles, caruncles 10 includes rhizophores

### **MEDICINES**

Of all plant uses, medicinal ones are perhaps the most complex and varied. A plant may be used to treat unspecified disorders of a system of the body (e.g. digestive system disorders) or of a specific part of the body (e.g. ear disorders) or of a specific process (e.g. birth complications). Alternatively the medicine may be used to treat specified disorders (e.g. cramp, colds, neoplasms) or to produce a specified effect (e.g. laxative, choleretic). Specific disorders and effects may be linked directly to body systems, body parts or processes. Some only ever relate to one specific body part or one specific body process (e.g. indigestion relates to digestive system; dandruff to scalp; hepatoprotective to liver) whilst others may relate to several body parts or processes within one system (e.g. ankylosis can relate to the neck, spine or other parts of the muscular-skeletal system) or to several body parts within different body systems (e.g. neoplasms to blood, intestine, skin; pain to nerves, teeth, head; inflammation to bronchi, gall bladder, extremities). Other disorders or effects cannot be specifically linked to body parts or These include diseases which may affect many body parts and systems at all. processes, such as those caused by infectious agents (e.g. malaria, schistosomiasis), and other disorders or effects of a more general nature where a link to body parts or processes is inappropriate. Descriptions of medicines need also to account for the type of medicine (e.g. antidotes or placebo etc.) and how the medicine is administered (e.g. in tablets or injection form etc.).

A workable system which takes all these details into account is described below.

Table 30 shows the Level 2 and Level 3 structure for describing MEDICINES. The Level 2 division of MEDICINES is based on a classification of major medicinal disorders. Most of these are based on systems of the body (such as Circulatory System Disorders, Digestive System Disorders) whilst the others are important medicinal problems which are not limited to just one body system (e.g. Abnormalities, Infections/Infestations, Inflammation, Injuries, Neoplasms, Pain). There are six Level 3 descriptors: Plant Parts Used, Vertebrates Treated, Body Parts/Processes Treated, Disorders Treated/Medicinal Effects, Medicine Types and Medicinal Applications.

Table 31 lists the states for the Level 3 descriptors, Plant Parts Used and Vertebrates Treated. Appendices A and B, respectively, provide the Master Lists (Tables 43 and 45), and alphabetical lists (Tables 44 and 46) of these.

Table 32 lists the character states for the Level 3 descriptors, Body Parts/Processes Treated and Disorders Treated/Medicinal Effects. Note that in these tables Body Parts are given in Roman letters, Processes in italics; similarly, Disorders are in Roman letters whilst Medicinal Effects are in italics. The relationship of the Disorders/Medicinal Effects to the Body Parts/Processes is shown by their position in the tables. Within Circulatory System Disorders (Table 32c), for example, thrombosis is a Disorder of the Body Part - veins. However, the Disorders Treated/Medicinal Effects which are listed adjacent to the top level of the Body Parts/Processes (e.g in Table 32c, angina, cardiovascular stimulant, clots, embolism, gangrene and strokes are listed adjacent to Circulatory System) can either be linked to the body system (in the example, Circulatory System) or to any other Body Part/Process within the particular Level 2 group (in the example, this would include arteries, veins, heart etc. within Circulatory System Disorders). Here is another example, within Digestive System Disorders (Table 32d): sialporia is a Disorder of the salivary glands and choleretic is a Medicinal Effect affecting the Body Part gall bladder;

carminative, on the other hand, works on the Digestive System as a whole or may affect one part only, stomach, intestine, etc.

Table 33 lists the Body Parts which might be relevant to those **Level 2** states (i.e. **Abnormalities**, **Infections/Infestations**, **Inflammation**, **Injuries**, **Neoplasms**, **and Pain**) where relevant body parts cross several major body systems. Appendix E (Tables 49 and 50) provides Master Lists of Body Parts/*Processes*, in grouped order and alphabetically, respectively.

Appendix G (Table 52) lists alphabetically all states concerning Disorders Treated/ Medicinal Effects, and Body Parts/Processes Treated together with the Level 2 state to which each of these Level 3 states relates. Those terms marked with an asterisk (e.g. hypotensive\*) are not accepted states but are frequently encountered in medicinal plant data; translations into the accepted states with respect to this standard are provided (in this case, a medicine having a hypotensive effect is described as being used to treat hypertension). The lists of terms in this standard try to enable the description of medicinal uses of plants to be made without duplications. The list of Body Parts/ Processes Treated endeavours to be comprehensive, whilst in the list of Disorders Treated/Medicinal Effects preference has usually been given to terms for Disorders Treated rather than to Medicinal Effects. For instance, the term anti-inflammatory is not an accepted state for Medicinal Effects. This use should rather be described in Disorders Treated as inflammation (and linked to the relevant Body Parts as appropriate, or if known). Terms for Medicinal Effects are permitted if translation into Disorders Treated would involve too much supposition regarding the disorder that is being treated (e.g. diuretic) or if the Medicinal Effects term provides additional information that a translation into one of the Disorders Treated term might not provide. Both the Medicinal Effects terms laxative and purgative might translate into the Disorders Treated term constipation but to do this would lose information regarding strength of the effect; in this instance, therefore, the Medicinal Effects terms are used in preference to the Disorders Treated term. That the terms purgative and laxative are also frequently used in the literature was an additional factor when deciding on the preferred terms.

Other tables in Appendix G help to translate specialised and synonymous terms for Disorders and Body Parts Treated into terms accepted in this standard. Table 53 does this for **Neoplasms**, Tables 54-56 for **Inflammation**, Table 57 for **Pain**, Table 58 for allergies and Table 59 for ulcers. Other tables aid the location of terms within the hierarchy of the standard. Table 60 lists terms for **Infections/Infestations** alphabetically and links them with the relevant causal organism and organism group. Table 61 lists causal organisms alphabetically and indicates the Level 3 Disorders they cause. Table 62 is similar but lists the Organism Groups (Annelida, Arthropoda, etc) alphabetically and Table 63 lists the Gram reaction for various infective bacteria.

It must be noted that some items which might be expected to occur in **MEDICINES** do not. For instance, in order to distinguish clearly plants which are used as medicines to treat fertility problems from those which are used socially to control fertility, **Birth Control Agents** have been placed in **SOCIAL USES** rather than **MEDICINES**.

Table 34 lists the states for the Level 3 descriptors Medicine Types and Medicinal Applications. <u>Stand-Alone</u> descriptors particularly relevant to this use group include those that relate to the availability of chemical analyses for plant parts (Table 39) and <u>Chemical Compounds Present</u> (Table 40). As well as the generally applicable *Notes Categories* (Table 5), *Processing Techniques for Medicines* which describe how to prepare medicines should be recorded.

There have been several modifications to the details regarding medicines in this version compared to that presented at TDWG8. These relate largely to ensuring that the classification here fits in with the International Classification of Diseases (ICD.9.CM) (US Department of Health and Human Services, 1991). The ICD.9.CM is a very useful standard, but it includes many diseases or specific diagnoses which are not encountered in economic botany literature. There is compatibility between this standard and ICD.9.CM in the LEVEL 1 categories and the classification of Level 3 Disorders within the Level 2 groups. The ICD.9.CM has very useful indices in volume 2 which help relate Level 3 states to Level 2 states. Obviously this must be used when any new terms are added to this standard.

Appendix G (Table 64) shows how the **Level 2** states in this standard relate to the ICD.9.CM system. Every disease in the ICD.9.CM system is given a numerical code and ranges of these codes correspond to the **Level 2** groups given here. No ICD.9.CM numbers correspond to the **Level 2** groups **Pain** and **Inflammation** because, in the ICD.9.CM, disorders relating to these are classed with the relevant Body System Disorders. The treatment in this standard is not too much of a deviation as, within each of **Pain** and **Inflammation**, the Body Parts Treated are given at Level 3. Indeed, it is the separation out of Body Parts/*Processes* Treated at Level 3 that enables the medicinal uses in this system to be of a much more manageable size than the ICD.9.CM, hence justifying this approach.

TABLE 30. Matrix showing Level 3 descriptors for medicines and their relationship to the **Level 2** states. (The shaded elements are redundant combinations.)

	Plant Parts Used	Vertebrates Treated	Body Parts/ Processes Treated	Disorders Treated/ <i>Medicinal</i> <i>Effects</i>	Medicine Types	Medicinal Applications
MEDICINES — Unspecified Medicinal Disorders						
MEDICINES — Abnormalities						
MEDICINES — Blood System Disorders						
MEDICINES — Circulatory System Disorders						
MEDICINES — Digestive System Disorders						
MEDICINES — Endocrine System Disorders						n.
MEDICINES — Genitourinary System Disorders						
MEDICINES — III-Defined Symptoms						
MEDICINES — Immune System Disorders						
MEDICINES — Infections/Infestations						
MEDICINES — Inflammation						
MEDICINES — Injuries						
MEDICINES — Mental Disorders						
MEDICINES — Metabolic System Disorders						
MEDICINES — Muscular-Skeletal System Disorders						
MEDICINES — Neoplasms						
MEDICINES — Nervous System Disorders						
MEDICINES — Nutritional Disorders						
MEDICINES — Pain						
MEDICINES — Poisonings						
MEDICINES — Pregnancy/Birth/Puerperium Disorders						
MEDICINES — Respiratory System Disorders						
MEDICINES — Sensory System Disorders						
MEDICINES — Skin/Subcutaneous Cellular Tissue Disorders						

TABLE 31. States for the Level 3 descriptors for medicines, Plant Parts Used and Vertebrates Treated.

Plant P	arts Used	Vertebrates Treated
entire plant <i>ex situ</i>	receptacles calyces	Fish
unspecified aerial parts <sup>1</sup>	corollas	Amphibians
unspecified dental parts	androecia	frogs
seedlings/germinated seeds	stamens	salamanders
	pollen	
galls	gynoecia/pistils	Reptiles
leaf galls	styles/stigmas	turtles
root galls		crocodilians
stem galls	infructescences	lizards
fruit galls	fruits	snakes
	entire immature fruits	
stems	entire mature fruits	Birds
plumules	deseeded fruits	chickens
leafy stems/branches	fruit pulp	turkeys
defoliated stems/branches	fruit juice	game birds <sup>10</sup>
stolons	epicarp	
trunks		Mammals
wood	seeds	bats
sapwood	arils <sup>8</sup>	primates
heartwood	entire seeds	humans
tendrils	seeds without testa	lagomorphs
thorns	seed hairs	rabbits
	testa	hares
bark stem bark <sup>2</sup>	kernels	rodents
	seed oil seed cake	squirrels
inner bark root bark	seed cake solid albumen	rats mice
root bark	liquid albumen	cavies
leaves <sup>3</sup>	ilquid aibuilleii	Equidae
cotyledons	'roots'	horses
young leaves <sup>4</sup>	debarked 'roots'	asses
old leaves <sup>5</sup>	bulbs/corms	donkeys
fallen leaves	tubers/tubercles	mules
leaflets	roots	Suiformes
stipules	nodules	pigs
leaf blades	aerial roots <sup>9</sup>	Camelidae
leaf buds	pneumatophores	camels
	rhizomes	llamas
inflorescences		ruminants
bracts <sup>6</sup>	exudates	bovines
spathes	sap	cattle
spadices	latex	γak
flowers	leaf juice	buffalo
flower buds	gum	bison
peduncles <sup>7</sup>	resin	caprines
	nectar	sheep
		goats game mammals <sup>11</sup>

<sup>1</sup> includes unspecified aquatic parts
2 of stems, trunks or branches
3 of unspecified ages, includes cladodes and phyllodes
4 includes cataphylls
5 at base of branches/stems
6 includes bracteoles
7 includes pedicels
8 includes arillodes, strophioles, caruncles
9 includes rhizophores
10 bird species unspecified
11 mammal species unspecified

TABLE 32. States for the Level 3 descriptors for medicines (Body Parts/Processes Treated and Disorders Treated/Medicinal Effects) in relation to the Level 2 states: a) Abnormalites, b) Blood System Disorders, c) Circulatory System Disorders, d) Digestive System Disorders, e) Endocrine System Disorders, f) Genitourinary System Disorders, g) III-Defined Symptoms, h) Immune System Disorders, i) Infections/Infestations, j) Inflammation, k) Injuries, l) Mental Disorders, m) Metabolic System Disorders, n) Muscular-Skeletal System Disorders, o) Neoplasms, p) Nervous System Disorders, q) Nutritional Disorders, r) Pain, s) Poisonings, t) Pregnancy/Birth/Puerperium Disorders, u) Respiratory System Disorders, v) Sensory System Disorders, w) Skin/Subcutaneous Cellular Tissue Disorders.

(The left hand side of the tables lists the body parts (Roman letters) and processes treated (italics) and the right hand side lists the specific disorders that are treated (Roman letters) and the medicinal effects (italics). The Level 3 descriptor name has been abbreviated when relevant, e.g., in Abnormalities, Body Parts/Processes Treated is labelled Body Parts Treated, as there are no states corresponding to Processes Treated. For some Level 2 states the Level 3 descriptor Body Parts/Processes Treated is redundant which is shown by an empty column in the table (e.g. Table 32g III-Defined Symptoms. Similarly Disorders Treated/Medicinal Effects is redundant in the case of Table 32j Inflammation. The relationship of the disorders or medicinal effects to body part or process is shown by the position in the table. The terms in square brackets are non-preferred synonyms; they are included only to aid users and are not accepted terms in the standard. Appendix G (Table 52) provides alphabetical listings of medicinal terms related to these two descriptors and shows their relationship to the accepted system of coding.)

#### a) MEDICINES - Abnormalities

Body Parts Treated	Disorders Treated/ <i>Medicinal Effects</i>
see Table 33	agenesis atrophy congenital abnormalities [anomalies] cysts deformities degeneration deobstruent deposits displacement dysfunction dystrophy failure fistula hypertrophy [enlargement/hyperplasia] lesions necrosis obstructions oedemas [swelling] organ failure pigmentation polyps prolapse sclerosis spina bifida stricture vascular anomalies

# b) MEDICINES — Blood System Disorders

Body Parts/ <i>Processes</i> Treated	Disorders Treated/ <i>Medicinal Effects</i>
blood	anaemia iron deficiency anaemia pernicious anaemia haemolytic anaemia sickle cell anaemia haemolysis hypocalcaemia hypoxaemia purpura
erythrocytes [red blood cells]	
leukocytes [white blood cells]	
plasma	
platelets	
bone marrow	polycythemia
spleen	
agglutination	
coagulation	anticoagulant clotting factor deficiency
fibrinolysis	
platelet aggregation	

# c) MEDICINES — Circulatory System Disorders 1

Body Parts/Processes Treated	Disorders Treated/Medicinal Effects
Circulatory System	angina cardiovascular stimulant clots embolism gangrene strokes
blood vessels	
arteries arterioles capillaries	artherosclerosis ischaemia vasoconstriction vasodilation
aorta	
carotid	
veins	thrombosis varicose veins haemorrhoids
epicardium	
pericardium	
endocardium	
myocardium [heart muscle]	
heart	heart disease
valves of heart	
pulmonary circulation	
cerebrovascular circulation	
heart beat	arrhythmia dysrhythmia bradycardia
blood pressure	hypertension hypotension

 $<sup>^{1}</sup>$ see also diuretic in f) Genitourinary System Disorders

# d) MEDICINES — Digestive System Disorders

Digestive System  allergic colitis biliousness bloat carminative colic emetic flatulence herria hydragogue indigestion laxative nausea purgative strangulated hernia stomachic motion sickness mountain sickness peptic ulcers gastro-jejunal ulcers vomiting  lips gums teeth caries teething mout   loral cavity  hard palate soft palate uvula tongue salivary glands parotid salism sessophagus peritoneum mesenteric glands abdomen stomach intestine duodenum jejunum ileum large intestine appendix caecum colon rectum anal canal anus anal fissures cirrhosis hepatoratective hepatic stimulant hypercholia gall bladder choleratic choleratic choleratic choleratic cholestatic gallstones bile duct cholestasis panoreas rumen	Body Parts Treated	Disorders Treated/Medicinal Effects
lips gums teeth caries teething  mouth [oral cavity] hard palate soft palate uvula tongue salivary glands parotid sialism oesophagus peritoneum mesenteric glands abdomen stomach gastric ulcers intestine constipation diarrhoea small intestine duodenum jejunum ileum large intestine appendix caecum colon rectum anal canal anus anal fissures liver cirrhosis hepatoprotective hepatic stimulant hypercholia gall bladder cholestatic gallstones bile duct pancreas	Digestive System	allergic colitis biliousness bloat carminative colic emetic flatulence hernia hydragogue indigestion laxative nausea purgative strangulated hernia stomachic motion sickness mountain sickness peptic ulcers gastro-jejunal ulcers
gums teeth caries teething  mouth [oral cavity] hard palate soft palate uvula tongue salivary glands parotid sialism oesophagus peritoneum mesenteric glands abdomen stomach gastric ulcers intestine constipation diarrhoea small intestine duodenum jejunum ileum large intestine appendix caecum colon rectum anal canal anus liver cirrhosis hepatoprotective hepatic stimulant hypercholia gall bladder cholestasis bile duct cholestasis	lips	Vomiting
mouth [oral cavity] hard palate soft palate uvula tongue salivary glands parotid salism sesophagus peritoneum mesenteric glands abdomen stomach intestine constipation diarrhoea small intestine duodenum jejunum ileum large intestine appendix caecum colon rectum anal canal anus liver  gall bladder choleratic choleratic gallstones bile duct pancreas	gums	
mouth [oral cavity] hard palate soft palate uvula tongue salivary glands parotid sialism oesophagus peritoneum mesenteric glands abdomen stomach gastric ulcers intestine constipation diarrhoea small intestine duodenum jejunum ileum large intestine irritable bowel syndrome appendix caecum colon rectum anal canal anus liver cirrhosis hepatoprotective hepatic stimulant hypercholia gall bladder cholestasis bile duct pancreas	teeth	
soft palate uvula tongue salivary glands parotid oesophagus peritoneum mesenteric glands abdomen stomach intestine constipation diarrhoea small intestine duodenum jejunum ileum large intestine appendix caecum colon rectum anal canal anus liver cirrhosis hepatoprotective hepatic stimulant hypercholia gall bladder cholestatic gallstones bile duct pancreas	mouth [oral cavity]	toothing
uvula tongue salivary glands parotid sialism oesophagus peritoneum mesenteric glands abdomen stomach gastric ulcers intestine constipation diarrhoea small intestine duodenal ulcers duodenum jejunum ileum large intestine appendix caecum colon rectum anal canal anus anal fissures liver cirrhosis hepatoprotective hepatic stimulant hypercholia gall bladder cholestasis pancreas		
tongue salivary glands parotid sialism  oesophagus peritoneum mesenteric glands abdomen stomach intestine duodenum jejunum ileum large intestine appendix caecum colon rectum anal canal anus liver  gall bladder  gall bladder cholestatic gallstones bile duct pancreas		
salivary glands parotid sialism  oesophagus peritoneum mesenteric glands abdomen stomach intestine duodenum jejunum ileum large intestine appendix caecum colon rectum anal canal anus liver  gall bladder  gall bladder cholestatic gallstones bile duct pancreas		
parotid oesophagus peritoneum mesenteric glands abdomen stomach intestine small intestine duodenum jejunum ileum large intestine appendix caecum colon rectum anal canal anus liver liver apatoprotective hepatic stimulant hypercholia gall bladder cholestatic gallstones bile duct peritoneum  gastric ulcers constipation diarrhoea duodens duodenal ulcers duodenal ulcers duodenal ulcers duodenal ulcers duodenal ulcers duodenal ulcers dirritable bowel syndrome irritable bowel syndrome cirritosis hepatoprotective hepatic stimulant hypercholia		sialaporia
peritoneum  mesenteric glands abdomen  stomach intestine  constipation diarrhoea  small intestine duodenum jejunum ileum  large intestine appendix caecum colon rectum anal canal anus liver  gall bladder  gall bladder  bile duct cholestasis pancreas		
mesenteric glands abdomen stomach intestine  small intestine duodenum jejunum ileum  large intestine appendix caecum colon rectum anal canal anus liver  gall bladder  gall bladder  bile duct bile duct cholestasis  gastric ulcers  duodens duodens duodenal ulcers  duodenal ulcers  irritable bowel syndrome  irritable bowel syndrome  irritable bowel syndrome  cirrhosis hepatoprotective hepatic stimulant hypercholia		
abdomen stomach gastric ulcers intestine constipation diarrhoea  small intestine duodenal ulcers  duodenal ulcers  duodenal ulcers  irritable bowel syndrome appendix caecum colon rectum anal canal anus liver cirrhosis hepatoprotective hepatic stimulant hypercholia gall bladder cholestatic gallstones bile duct pancreas		
stomach intestine  constipation diarrhoea  small intestine duodenum jejunum ileum  large intestine appendix caecum colon rectum anal canal anus  liver  cirrhosis hepatoprotective hepatic stimulant hypercholia  gall bladder  cholestatic gallstones  bile duct pancreas		
intestine constipation diarrhoea  small intestine duodenal ulcers  duodenum jejunum ileum  large intestine appendix caecum colon rectum anal canal anus anal fissures liver cirrhosis hepatoprotective hepatic stimulant hypercholia  gall bladder cholestatic gallstones bile duct cholestasis		gaetrio ulcere
small intestine duodenum jejunum ileum  large intestine appendix caecum colon rectum anal canal anus liver  liver  gall bladder  gall bladder  bile duct panoreas		
duodenum jejunum ileum  large intestine appendix caecum colon rectum anal canal anus liver  cirrhosis hepatoprotective hepatic stimulant hypercholia  gall bladder  cholestatic gallstones bile duct pancreas	micounio	·
ileum  large intestine appendix caecum colon rectum anal canal anus anal fissures liver cirrhosis hepatoprotective hepatic stimulant hypercholia gall bladder cholestatic gallstones bile duct cholestasis pancreas	1	duodenal ulcers
large intestine appendix caecum colon rectum anal canal anus liver  cirrhosis hepatoprotective hepatic stimulant hypercholia gall bladder  cholestatic gallstones bile duct pancreas		
rectum  anal canal  anus  liver  cirrhosis  hepatoprotective hepatic stimulant hypercholia  gall bladder  choleretic cholestatic gallstones  bile duct cholestasis  pancreas	large intestine appendix caecum	irritable bowel syndrome
anus liver cirrhosis hepatoprotective hepatic stimulant hypercholia  gall bladder choleretic cholestatic gallstones bile duct cholestasis pancreas	rectum	
liver  cirrhosis  hepatoprotective hepatic stimulant hypercholia  gall bladder  choleretic cholestatic gallstones  bile duct cholestasis  pancreas		
hepatoprotective hepatic stimulant hypercholia  gall bladder  choleretic cholestatic gallstones  bile duct cholestasis pancreas		
gall bladder  choleretic cholestatic gallstones  bile duct cholestasis pancreas	liver	hepatoprotective hepatic stimulant
pancreas		choleretic cholestatic gallstones
		cholestasis
rumen		
	rumen	

### e) MEDICINES — Endocrine System Disorders

Body Parts/Processes Treated	Disorders Treated/Medicinal Effects
Endocrine System	diabetes mellitus hyperglycaemia hypoglycaemia <i>steroidal</i> polyglandular dysfunction
islet cells of Langerhans	
glands	
pineal gland	
pituitary growth	diabetes insipidus dwarfism slow growth gigantism
thyroid	hypothyroidism goitre
hypothalamus	
parathyroid	hyperparathyroidism hypoparathyroidism
adrenal gland	
thymus	
sexual development	anabolic androgenic oestrogenic antioestrogenic hyperoestrogenism delayed puberty sexual precocity

# f) MEDICINES — Genitourinary System Disorders <sup>1</sup>

Body Parts/Processes Treated	Disorders Treated/Medicinal Effects
Genitourinary System kidneys kidney cells bladder urinary tract urethra	blennorhagia kidney stones [calculus]  urethral leakage urethral stones
ureter urination	albuminuria anuria diuretic <sup>2</sup> dysuria haematuria natriuretic oligurea pollakiuria polyuria urinary incontinence urinary retention

/continued over

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 $<sup>^{1}</sup>_{\text{see}}$  also e) Endocrine System Disorders  $^{2}_{\text{usually relates to c)}}$  Circulatory System Disorders

Body Parts/ <i>Processes</i> Treated	Disorders Treated/ <i>Medicinal Effects</i>
male genitals	
testes	hydrocoele
scrotum	
prostate	
penis	priapism small penis
foreskin [prepuce]	phimosis
glans penis	printesis
epididymis	
vas deferens	
seminal vesicles	-
spermatic chord	
ejaculatory duct	
semen	
sperm	
germ cells	duonaraunia
copulation	dyspareunia
	impotence
	organic impotence psychic impotence
	premature ejaculation
libido	anaphrodisiac
"bido	aphrodisiac
male fertility	azoospermy
Thate recuirty	oligospermy
	male infertility
	male sterility
breasts	gynecomastia
female breasts	gynoomaata
nipples	
areola	
male breasts	
female genitals	
perineum	
eggs	
placenta	
pelvic cellular tissue	
Fallopian tubes	
ovaries	
oviduct	
uterus	uterine relaxant
	uterine stimulant
uterine mucosae [endometrium]	
corpus luteum	
genital tract	
uterine ligament [broad ligament]	
vagina	
vaginal mucosae	leukorrhoea
cervix	cervical dilator
vulva	55 di dilator
labia	
clitoris	
hymen	
Bartholin's gland	
Daratom a giana	
L	<u> </u>

/continued over

Body Parts/Processes Treated	Disorders Treated/Medicinal Effects
menstruation	amenorrhoea dysmennorhoea emmenagogue menorrhagia metrorrhagia oligomennorhoea pre-menstrual syndrome
ovulation	ovulatory pain
implantation	
female fertility	female infertility female sterility
menopause	premature menopause
climacterium	
post menopause	

# g) MEDICINES - III-Defined Symptoms

Disorders Treated
adenopathy [enlarged lymph glands] comas [stupour] fainting [collapse/syncope] dizziness [non-Menières/vertiginous] malaise/fatigue <sup>1</sup> hyperhydrosis growing pains

# h) MEDICINES — Immune System Disorders

Body Parts Treated	Disorders Treated/ <i>Medicinal Effects</i>
Immune System	autoimmune disease immunosuppressant immunostimulant
lymphocytes	
lymph	
lymph glands	
lymph vessels	
lymph nodes	

 $<sup>^{1}\</sup>mathrm{not}$  due to heat, combat, pregnancy, neurasthenia, senile asthenia

Body Parts Treated

See Table 33

	Disorders Treated/Medicinal Effects	
INFECTIONS	chromoblastomycosis	Chagas' disease
fever	cladosporiosis	coccidiosis
periodic fever	coccidiodomycosis	cryptosporidiosis
chills	cryptococcosis	dientamoebiasis
toxaemia	favus	flagellate protozoa infections <sup>4</sup>
	histoplasmosis	giardiasis
MICROBIAL INFECTIONS	lobomycosis	leishmaniasis
antimicrobial <sup>2</sup>	maduromycosis	malaria
	mycotic mycetomas	pneumonia (protozoal)
bacterial infections	paracoccidiomycosis	Rhodesian trypanosomiasis
antibacterial	pityriasis nigra	toxoplasmosis_
actinomycosis	rhinosporidiosis	toxoplasmosis trichomoniasis <sup>5</sup>
anthrax	ringworm [tinea]	trypanosomiasis
botulism	sporotrichosis	<i>"</i>
brucellosis	zygomycosis	
cholera	2,95,555	helminth worm infections
diphtheria	viral infections	anthelmintic
erysipelas	antiviral	fluke infections
food poisoning (bacterial)	adenoviral infections	schistosomiasis
· · · · · · · · · · · · · · · · · · ·	AIDS	trematode infections <sup>7</sup>
gas gangrene	arboviral infections	tromatous impotions
glanders	I .	tapeworm infections
gonorrhoea	chicken pox	hydatid disease
impetigo	colds	liyuatid disease
leprosy	cold sores	nematode infections
leptospirosis	cowpox	capillariasis
listeriosis	coxsackie infection	creeping eruption [cutaneous larvae migrans]
lyme disease	Creutzfeldt Jakob disease	dipetalonemiasis
melioidosis	dengue	filariasis
meningitis (bacterial)	encephalitis (viral)	
Mycobacterium infection (non-leprosy)	enteroviral infections	gnathostomiasis
nocardiosis	foot and mouth	guinea worm infection [dracontiasis]
pasturellosis	haemorrhagic fever	hair-worm infection [Yangste oedema]
pinta	hepatitis (viral)	herring worm disease
plague	hepatitis A	hookworm infection (New World)
pneumonia (bacterial)	hepatitis B	hookworm infection (Old World)
psittacosis	hepatitis non-A, non-B	iloaisis
Q fever	herpes (Herpes simplex)	onchocerciasis
rat bite fever	HIV infections	pin worm infection
relapsing fever	influenza	roundworm infection
salmonellosis	kuru	thread worm infection
scarlet fever/scarletina	measles	toxocariasis
septicaemia	meningitis (viral)	trichinosis
shigellosis [bacillary dysentery]	mumps	whipworm infection
syphilis	pneumonia (viral)	
tetanus	polio	INFESTATIONS
trachoma	rabies	arthropod infestations
tuberculosis	rubella	insect infestations
tularemia	shingles (Herpes zoster)	flea infestations
typhoid/paratyphoid	slow virus infections	myiasis [fly infegtations]
typhus	smallpox	lice infestations
venereal diseases (non-specified) <sup>3</sup>	viral warts	tungiasis
Vincent's angina	yellow fever	1
whooping cough/pertussis	,	arachnid infestations
yaws	PARASITIC INFECTIONS	chiquers
yurro	protozoal infections	scabies
fungal infections	antiprotozoal	Scanies
	4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	infortations
antifungal	amoebiasis	annelid worm infestations
allescheriosis	amoebic dysentery	leech infestations
aspergillosis	balantidiasis	1
DIASIORIVEDSIS	i vaidiliudaja	•

assign infective genera to taxonomic groups
2 see also antiseptic and disinfectant in w) Skin/Subcutaneous Cellular Tissue Disorders
3 see also gonorrhoea and syphilis

balantidiasis

cerebral malaria

blastomycosis

candidiasis

of vagina, ureund of pheninthiasis

non-schistosomiasis

includes pediculosis (head lice) and phthiriasis (crab lice)

chigoe/sandfleas/jiggers

<sup>&</sup>lt;sup>1</sup>Appendix G (Table 60) provides an alphabetical list of infections and infestations and links them to the causal organism; Tables 61 and 62 list causal organisms and organism groups alphabetically and link them to infections/infestations; Appendix B helps to

fincludes Chagas' disease, giardiasis, leishmaniasis, Rhodesian trypanosomiasis, trichomoniasis, trypanosomiasis of vagina, urethra or prostate

# j) MEDICINES — Inflammation

Body Parts Treated	
see Table 33	

Appendix G (Table 54) lists specialist inflammation terms for each Body System and shows Body Parts Treated. Table 55 is an alphabetical version of this. The specialist terms are not accepted in this standard, rather **Inflammation** is linked to Body Parts Treated.

### k) MEDICINES — Injuries

Body Parts Treated	Disorders Treated/ <i>Medicinal Effects</i>
see Table 33	abscesses bites (non-venomous) blisters bruises [contusion] burns burns (internal) cerebrovascular haemorrhages foreign bodies haemorrhages haemostatic injuries internal bleeding nerve injuries scars superficial injuries [abrasions] wounds

#### I) MEDICINES - Mental Disorders

#### Disorders Treated/Medicinal Effects

adaptogenic euphoriant insanity mania

nervous breakdowns nervous excitement

shock

trauma (psychic)
dementia
delusion
delirium
hallucinosis
paranoia

depressant
hallucinogenic
intoxicant
narcotic
relaxant
sedative
tranquilliser

amnesia

stammering [stuttering] anorexia nervosa

tics bulimia pica [geophagy]

stress 1

depression

behaviour disturbances emotional disturbances emotional disturbances of adolescence emotional disturbances of childhood

psychogenic physical symptoms psychogenic pain palpitations

personality disorders

sexual deviations and disorders

psychoses
senility psychoses
senile dementia
arteriosclerotic dementia
alcoholic psychoses
drug psychoses
schizophrenia
defective psychoses
paranoid states
childhood psychoses
autism

neuroses anxiety panic hysteria phobias obsessive [compulsive] disorders neurotic depression hypochondria jealousy confusion

alcohol dependence

drug dependence
cannabis dependence
hallucinogen dependence
barbiturate dependence
opioid<sup>2</sup> dependence
cocaine dependence
amphetamine dependence
antidepressant dependence

nicotine dependence

non-dependent drug abuse

mental disability [retardation]

paraphrenia

sleep disorders hypnotic hyposomnia [insomnia] hypersomnia

nightmares narcolepsy jet lag somnambulism

<sup>1</sup> acute reaction to stress 2 includes opiates

# m) MEDICINES — Metabolic System Disorders

Body Parts/ <i>Processes</i> Treated	Disorders Treated/Medicinal Effects
Metabolic System	cystic fibrosis amyloidosis
energy metabolism	
enzyme activity	enzyme inhibitor glucosidase inhibitor oxidase inhibitor proteinase inhibitor trypsin inhibitor
mineral metabolism	
iron metabolism copper metabolism magnesium metabolism phosphorous metabolism calcium metabolism amino acid transport	
amino acid metabolism	}
carbohydrate transport carbohydrate metabolism	
lipoid metabolism	hypercholesterolaemia [cholesterolaemia] hyperglyceridaemia hyperlipidaemia [lipidaemia] hyperchylomicronaemia lipoprotein deficiency lipodystrophy lipidoses
plasma protein synthesis	
porphyria metabolism	
purine and pyrimidine metabolism	gout
fluid, electrolyte and acid balance	hypernatraemia [hyperosmolality] hyponatraemia [hyposmolality] acidosis alkalosis dehydration [volume depletion] fluid overload hyperpotasaemia hypopotasaemia
sweating	antiperspirant diaphoretic
temperature regulation	hyperthermia hypothermia refrigerant

### n) MEDICINES — Muscular-Skeletal System Disorders

Body Parts Treated	Disorders Treated/Medicinal Effects
Muscular-Skeletal System	acquired deformities ankylosis arthopathy
	arthritis
	allergic arthritis asthenia
	cryopreservative
	gouty arthritis  muscle relaxant
	muscle stimulant
	osteoarthritis
	osteopathy rheumatism
	rheumatoid arthritis
	spasticity
connective tissues	spondylosis
fatty tissue	
mast cells	
histiocytes	
muscles	contractions cramp
	fibrillation
	myopathy
	spasms
	sprains (strains) trembling
smooth muscles	, and the same of
skeletal muscles	
synovia	
tendons fascia	
soft tissues	
bones	crushing injuries
	fractures
	open fractures
	simple fractures osteoporosis
cartilages	, , , , , , , , , , , , , , , , , , ,
joints	dislocations
spine [vertebral column]	
vertebrae	
ribs intervertebral discs	
sternum	
clavicle	
pelvis	
sacrum	
coccyx face	
head	
skull	
	<u> </u>
neck	
body [trunk]	
	lumbago sciatica

/continued over

Body Parts Treated	Disorders Treated/Medicinal Effects
lumbar region	
chest	
extremities	chilblains frostbite
limbs	
upper limbs	
lower limbs	
thighs	
arms	
legs	
hands	
fingers	
feet	flat feet
toes	
ligaments	
jaws	
maxilla	
mandible	
shoulders	
elbows	
wrists	
hips	
knees	
ankles	
sacroiliac region	
bursa	

# o) MEDICINES — Neoplasms

Body Parts Treated	Disorders Treated/Medicinal Effects
see Table 33	malignant neoplasms  primary malignant neoplasms 1 leukaemias 2 secondary malignant neoplasms 3 carcinomas in situ benign neoplasms neoplasms of uncertain behaviour unspecified neoplasms  cytotoxic

Appendix G (Table 53) lists non-accepted specialist terms for neoplasms, showing the Level 3 states for Disorders Treated and Body Parts Treated according to this system. The ICD.9.CM (U.S. Department of Health and Human Services, 1991) provides a 37 page list of anatomical sites affected by neoplasms.

 $^{1}_{\mbox{\scriptsize of}}$  of specific sites  $^{2}_{\mbox{\scriptsize primary malignant neoplasm of lymphatic and haematopoietic tissue}}$  of specific sites

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# p) MEDICINES — Nervous System Disorders 1

Body Parts Treated	Disorders Treated/Medicinal Effects
Nervous System	ataxia spinal muscular atrophy anterior horn cell disease motor neurone disease amyotrophic lateral sclerosis Alzheimer's disease convulsions lathyrism epilepsy migraines palsy paralysis Parkinson's disease stimulant depressant choreas multiple sclerosis multiple dystrophy
central nervous system	типарь сузаторну
peripheral nervous system	
autonomous nervous system	
sympathetic nervous system	
parasympathetic nervous system	
neurotransmitters	
brain	brain damage (anoxic) encephalopathy brain compression
cranial nerves	
intercranial region	
facial nerves	
cerebrum	
meninges	
cerebral meninges	
spinal meninges	
frontal lobe of brain	
temporal lobe of brain	
parietal lobe of brain	
occipital lobe of brain	
ventricles	
brain stem	
spinal chord	myelopathy
spinal plexus	
nerves	
nerve roots	
peripheral nerves	<del></del>
ganglia	
motor nerves	
sensory nerves	

<sup>&</sup>lt;sup>1</sup>see also r) Pain

### q) MEDICINES — Nutritional Disorders

	<del>-</del>
	Disorders Treated/Medicinal Effects
	antioxidant
<b> </b>	appetite stimulant
	appetite suppressant
	free radical scavenger
	kwashiorkor
	malnutrition
	marasmus
	mineral deficiency
	calcium deficiency (dietary)
	iodine deficiency <sup>1</sup>
	nutritional deficiency
	obesity
	protein deficiency
	restorative
	slimming aids
	tonic
	vitamin deficiency
	vitamin A deficiency
	thiamin deficiency
	niacin deficiency
	beri beri
	pellagra
	vitamin B deficiency
	vitamin C deficiency [scurvy]
	vitamin D deficiency
	rickets
	osteomalacia
	vitamin E deficiency
	vitamin K deficiency
	vitamin P deficiency
	weight loss

# r) MEDICINES — Pain <sup>2 3</sup>

Body Parts Treated <sup>4</sup>	Medicinal Effects
see Table 33	anaesthetic analgesic anodyne

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<sup>1</sup> see also m) Metabolic Disorders
2 see also f) Genitourinary System for menstrual pain, ovulatory pain; t) Pregnancy/Birth/Puerperium for labour pains; I) Mental Disorders
3 for psychogenic pain
3 earache, headache, toothache, myalgia, neuralgia are coded using Body Part Treated (i.e. ear, head, tooth, muscles, nerves, respectively)
4 Appendix G (Table 57) lists the body parts most likely to be affected by pain

# s) MEDICINES — Poisonings $^1$

Disorders Treated/Medicinal Effects
anaphylactic shock allergic reactions antihistaminic  detoxicant intoxication intoxication due to drugs intoxication due to alcohol purifier  poisonings due to: bites and stings stings insect stings bee stings scorpion stings venomous bites snake bites  alcohol poisoning carbon monoxide poisoning corrosives poisoning excessive air pressure excessive light lead poisoning medicine poisoning metal poisoning noxious foods <sup>2</sup> petroleum products poisoning radiation poisoning solvent poisoning solvent poisoning

# t) MEDICINES - Pregnancy/Birth/Puerperium Disorders

Processes Treated	Disorders Treated/ <i>Medicinal Effects</i>
pregnancy	early or threatened labour miscarriages [abortion] haemorrhages of pregnancy hypertension of pregnancy pre-eclampsia morning sickness [vomiting of pregnancy] prolonged pregnancy
birth	
labour	labour induction labour pain obstructed labour long labour
post partum	post partum bleeding
puerperium	
lactation	galactorrhoea lactation stimulant

<sup>1</sup> for septicaemia/blood poisoning see b) Blood System Disorders; for food poisoning see i) Infections/Infestations 2 i.e. poisonous, not related to food poisoning by infective agents

# u) MEDICINES — Respiratory System Disorders

Body Parts Treated	Disorders Treated/ <i>Medicinal Effects</i>
Respiratory System	allergic rhinitis (non-pollen) hay fever extrinsic allergic alveolitis <sup>1</sup> allergic asthma asphyxia asthma breathlessness congestion coughs expectorant hiccoughs pneumoconioses respiratory stimulant snoring
respiratory mucosae	
nose	
nasal tract	
sinus	
epiglottis	
throat	
pharynx	
oropharynx	
tonsils	
nasopharynx	
adenoids	
hypopharynx	
larynx	voice loss
glottis	
supraglottis	
subglottis	
trachea	
alveoli	
bronchi	bronchodilator
bronchioles	
lungs	emphysema pneumonia
small cells of lung	
large cells of lung	
mediastinum	
pleura	
thorax	
diaphragm	

 $<sup>^{1}\</sup>mathrm{due}$  to dust, fungi including actinomycetes etc.

# v) MEDICINES - Sensory System Disorders

Body Parts/ <i>Processes</i> Treated	Disorders Treated/Medicinal Effects
ears	tinnitus Menière's disease otosclerosis
eardrums	
middle ears	
outer ears	cerumen
inner ears	
auditory canals	
Eustachian tubes	
mastoids	
tympanic membranes	
ossicles	
acoustic nerves	
balance	
hearing	deafness
eyes	cataracts
	glaucoma
	squints
globes [eyeballs]	
choroids [coat of retina]	
irises	
ciliary bodies	
lachrymal systems	
orbits of eyes	
optic nerves	
sclerae	
vitreous bodies	
lenses	
lachrymal glands	
lachrymal ducts	
eyelids	retinopathy
retinas	detachment of retina
	retina vascular changes
corneas	Totalia vascalai ollangos
conjunctivae	
pupils	mydriatic
Papilo	miotic
vision	blindness
	low vision
	visual disturbance
	amblyopia
	diplopia
	binocular vision
	colour vision deficiency
maken and a comment of	night blindness
refraction and accommodation	long sight [hypermetropia] short sight [myopia]
	colour blindness
	astigmatism
eye movements	mystagmus [irregular eye movements]
smell	mystaginas (mogalar sys movements)
taste	
touch	
1040//	

w) MEDICINES — Skin/Subcutaneous Cellular Tissue Disorders

Body Parts/Processes Treated	Disorders Treated/ <i>Medicinal Effects</i> 1
skin	acne
skin of specific areas	antiseptic <sup>2</sup>
·	astringent astringent
	bed sores
	boils
	calluses [corns]
	carbuncles [furuncles]
	cellulitis
	demulcent
	dermatitis
	dermatitis due to internally taken substances
	contact dermatitis <sup>3</sup>
	allergic contact dermatitis
	detergent
	disinfectant <sup>4</sup>
	eczema
	emollient
	erythema
	irritation
	itching [pruritus]
	lichen
	lupus erythrematosus
	1 ' '
	nappy rash
	photosensitivity
	pilonidial cysts
	psoriasis
	pustules
	rashes
	sores
	sunburn
	sunscreen
	ulcers
	urticaria
	allergic urticaria
	vitiligo
	warts
subcutaneous cellular tissue	whitlows
navel	
beard	
eyebrows groin	
groin perianal area	
scalp	dandruff
hair	achromatrichia
	baldness
	depilatory <sup>5</sup>
	hair loss [alopecia]
	hirsutism
hair follicles	
sweat glands	
sebaceous glands	
furnails	
hoofs	
moulting	

<sup>1</sup> see k) Injuries for abscesses, blisters, bruises, scars and wounds 2 for antimicrobial see also i) Infections/Infestations 3 due to detergents, oils and grease, solvents drugs and medicines, chemical products, food contact, plants etc. 4 see footnote 2 5 also see VERTEBRATE POISONS and MATERIALS (Products Used In) cosmetic depilatories

TABLE 33. Master List of Body Parts (in group order).

-	Body Parts			
chromosomes	large intestine	female genitals		
DNA	lips	foreskin		
RNA	liver	genital tract		
	mesenteric glands	germ cells		
BLOOD SYSTEM	mouth	glans penis		
blood	oesophagus	hymen		
bone marrow	pancreas	kidney cells		
erythrocytes	parotid	kidneys		
leukocytes	peritoneum	labia		
plasma	rectum	male breasts		
platelets	rumen	male genitals		
spleen	salivary glands	nipples		
	small intestine	ovaries		
CIRCULATORY SYSTEM	soft palate	oviduct		
aorta	stomach	pelvic cellular tissue		
arteries	teeth	penis		
arterioles	tongue	perineum		
blood vessels	uvula	placenta		
capillaries	ENDO ODINE OVOTEM	prostate		
carotid	ENDOCRINE SYSTEM	scrotum		
endocardium	adrenal gland	semen seminal vesicles		
epicardium	glands	sperm		
heart	hypothalamus	spermatic chord		
myocardium	islet cells of Langerhans parathyroid	testes		
pericardium valves of heart	pineal gland	ureter		
valves of neart	pitiear grand	urethra		
venis	thymus	urinary tract		
DIGESTIVE SYSTEM	thyroid	uterine ligament		
abdomen	l illyroid	uterine mucosae		
anal canal	GENITOURINARY SYSTEM	uterus		
anus	areola	vagina		
appendix	Bartholin's gland	vaginal mucosae		
bile duct	bladder	vas deferens		
caecum	breasts	vulva		
colon	cervix			
duodenum	clitoris	IMMUNE SYSTEM		
gall bladder	corpus luteum	lymph		
gums	eggs	lymph glands		
hard palate	ejaculatory duct	lymph nodes		
ileum	epididymis	lymph vessels		
intestine	Fallopian tubes	lymphocytes		
jejunum	female breasts			

#### **Body Parts**

METABOLIC SYSTEM

MUSCULAR-SKELETAL SYSTEM

ankles arms back body bones bursa

bursa cartilages chest clavicles coccyx

connective tissues

elbows
extremities
face
fascia
fatty tissue
feet
fingers

hands head hips

histiocytes intervertebral discs

jaws joints knees legs

ligaments limbs lower limbs

lumbar region mandible mast cells maxilla muscles

neck pelvis

sacroiliac region sacrum shoulders skeletal muscles

skull

smooth muscles soft tissues spine sternum synovia tendons

thiahs

toes upper limbs vertebrae wrists

NERVOUS SYSTEM

autonomous nervous system

brain brain stem

nerve roots

central nervous system
cerebral meninges
cerebrum
cranial nerves
facial nerves
frontal lobe of brain
ganglia
intercranial region
meninges
motor nerves

nerves neurotransmitters occipital lobe of brain

parasympathetic nervous system

parietal lobe of brain peripheral nerves peripheral nervous system

sensory nerves spinal chord spinal meninges spinal plexus

sympathetic nervous system temporal lobe of brain

ventricles

RESPIRATORY SYSTEM

adenoids
alveoli
bronchi
bronchioles
diaphragm
epiglottis
glottis
hypopharynx
large cells of lung

larynx lungs mediastinum nasal tract nasopharynx nose oropharynx pharynx

pleura respiratory mucosae

sinuses

small cells of lung

subglottis supraglottis thorax throat tonsils trachea

SENSORY SYSTEM
acoustic nerves
auditory canals
choroids
ciliary bodies
conjunctivae
corneas
eardrums
ears

Eustachian tubes eyelids

eyes

globes [eyeballs] inner ears irises

lachrymal ducts lachrymal glands lachrymal system

lenses mastoids middle ears optic nerves orbits of eyes ossicles (of ears) outer ears pupils

sclerae tympanic membranes vitreous bodies

retinas

SKIN/SUBCUTANEOUS CELLULAR

TISSUE
beard
eyebrows
fur
groin
hair
hair follicles
hoofs
nails
navel
perianal area

scalp sebaceous glands

skin

skin of specific areas subcutaneous cellular tissue

sweat glands

TABLE 34. States for the Level 3 descriptors for medicines, Medicine Types and Medicinal Applications. (The terms in square brackets are non-preferred synonyms; they are included only to aid users and are not accepted terms in the Standard.)

# Medicine Types antidote adulterant placebo prophylactic [preventative] palliative vaccine

```
Medicinal Applications
external applications
   [embrocation] liniment
   dressings
   drops
         eye drops
         nose drops
         nasal sprays
         ear drops
         fumigants
   liniment
   lotions
   medicinal soaps
   ointments
         balms
   plasters
   poultices
   [salve] ointments
   [unction] ointments
   [uncture] ointments
   [unguent] ointments
   washes
         baths
         [gargle] mouth washes
         mouth washes
charms [amulets]
   bracelets
   headbands
   neck bands
   waistbands
internal applications
   douches
   enemas
   inhalers
         cigarettes
         snuff
         [steam baths] vapour baths
         vapour baths
   injections
          intramuscular injections
          intravenous injections
          subcutaneous injections
   oral ingestion
          potions [liquid medicine]
          syrup
          tablets
                   buccal tablets
                   capsules
                   sublingual tablets
          teas
           wines
   scarification
   suppositories
         rectal suppositories
         urethral suppositories
         vaginal pessary
```

TABLE 35. Some suggested keywords or phrases for describing *Processing Techniques for Medicines* in *Notes* regarding medicines.

#### Processing Techniques for Medicines

collected collected at dawn collected during evening collected in winter dried macerated pulverised/powdered pulped grated milled burned burned on embers mixed with ..... [names] mixed with plants mixed with animal parts mixed with minerals mixed with alcohol (tincture1) mixed with oil mixed with water (decoction, apozem) infused boiled (decoction, apozem) mixed with sugar mixed with milk mixed with lemon juice mixed with wine calcinated (ashed) fermented

<sup>&</sup>lt;sup>1</sup>tincture is mixed with alcohol, or alcohol and water

#### **ENVIRONMENTAL USES**

The **Level 2** division of **ENVIRONMENTAL USES** is based on the major kinds of environmental uses that have been identified. There are four Level 3 descriptors: Specific Environmental Uses, Materials Used, Plant Parts Used and Environments Where Used.

Table 37 lists the states available for the Level 3 descriptors. The list for Plant Parts Used is abbreviated to include only the most likely plant parts for environmental uses. The most likely of all is live plant *in situ*. Any necessary additions to the plant parts list should, in the first instance, be taken from the Master List of Plant Parts in Appendix A (Table 43).

Materials Used describes the form in which a plant is used e.g. everlasting flowers as **Ornamentals**, and mulches for **Soil Improvers**. Environments Where Used describes the environments in which a plant is used, e.g. **Revegetators** can be linked to dunes, **Ornamentals** to towns, and boundary markers to crop lands.

TABLE 36. Matrix showing Level 3 descriptors for environmental uses and their relationship to the **Level 2** states. (The shaded elements are redundant combinations.)

	Specific Environmental Uses	Materials Used	Plant Parts Used	Environments Where Used
ENVIRONMENTAL USES — Unspecified Environmental Uses				
ENVIRONMENTAL USES — Erosion Control				
ENVIRONMENTAL USES — Shade/Shelter				
ENVIRONMENTAL USES — Revegetators				
ENVIRONMENTAL USES — Indicators				
ENVIRONMENTAL USES — Soil Improvers				
ENVIRONMENTAL USES — Ornamentals 1				
ENVIRONMENTAL USES — Boundaries/Barriers/Supports				
ENVIRONMENTAL USES — Agroforestry				
ENVIRONMENTAL USES — Firebreaks				
ENVIRONMENTAL USES — Pollution Control				

<sup>&</sup>lt;sup>1</sup>includes sports turfs

TABLE 37. States for the Level 3 descriptors for environmental uses.

Specific Environmental Uses <sup>1</sup>	Materials Used	Plant Parts Used <sup>2</sup>	Environments Where Used
Agroforestry)	hedges	live plant <i>in situ</i>	landscapes
ntercrops/alley crops	live fences	entire plant ex situ	towns
nursery crops	live stakes	unspecified aerial parts	roads/streets/highways
larsory crops	brushwood	leaves	parks
Boundaries/Barriers/Supports)	contour strips/ridge/bund plants	seeds	sports grounds
		seed cake	golf courses
ooundary markers	ground covers	leaves	. •
animal barriers	lawns	1	football pitches
plant/agricultural supports	turfs	roots	gardens
ence supports	mulches	fruits	homesteads
	green manures	inflorescences	greenbelts
Soil Improvers)	fertilisers	wood	croplands/orchards
ertility improvers	nodulated plants	ì	rangelands
nitrogen fixers	potted plants		forested land
soil moisture conservers	cut flowers		industrial
soil structure improvers	everlasting 'flowers'		wastes/dumps
salinity improvers	dispersed trees		mined land
	shelterbelts	1	waterholes
Pollution Controllers)	multilayer shelterbelts	1	degraded land
waste water purifiers	single layer shelterbelts	1	eroded land
air purifiers/air pollution regulators	3	1	burnt land
sewage treatment			clays
sewage deadlient			sands
	i		dunes
			rocky soils
			gravels
			acid soils
			alkaline soils
			brackish soils
			saline soils
			waterlogged soils
			mineral soils
			heavy metal soils
			copper-rich soils
			lead-rich soils
			tin-rich soils
			zinc-rich soils
			selenium-rich soils
			chromium-rich soils
			aluminium-rich soils
			magnesium-rich soils
			mercury-rich soils
			molybdenum-rich soils
			nickel-rich soils
		1	antimony-rich soils
			arsenic-rich soils
		1	
		1	coastlines
			coastland
		1	intertidal zones
	l	1	slopes
		1	gullies
		1	watercourses
		1	1
		1	groundwater
		1	underground water
		ľ	
			uplands
			uplands wetlands
			wetlands
			wetlands sea
			wetlands sea lakes
			wetlands sea

 $<sup>\</sup>frac{1}{2}$  the terms in brackets are Level 2 not Level 3 character states; they are included only to indicate the hierarchical relationships  $\frac{2}{2}$  refer to Appendix A (Table 43) if additional plant parts are needed

#### **GENE SOURCES**

No **Level 2** divisions of **GENE SOURCES** have been defined as this is already a narrow group compared to other **LEVEL 1** uses. At Level 3 is the descriptor Beneficial Genetic Traits for wild relatives of crops. Table 38 lists a few states for this which could be beneficial in plant breeding programmes. This list is likely to be enlarged. Please contact the author for any required additions.

TABLE 38. Level 3 descriptor for gene sources.

Beneficial Genetic Traits

disease resistance
pest resistance
drought resistance
high yields
cold tolerance
waterlogging tolerance
salt tolerance

# **Stand-Alone USE DESCRIPTORS**

<u>Stand-Alone</u> descriptors should be viewed as an adjunct to the main three level system. They are used to record data on factors which help to evaluate the individual uses or the overall value of a plant. Table 4 lists these descriptors and the **LEVEL 1** uses for which they are relevant. It is likely that further <u>Stand-Alone</u> descriptors will need to be defined for different users' needs and, as these are not linked directly into the main scheme, they can be tailored to individual requirements.

Descriptors relevant to availability of chemical analyses for plant parts (Table 39) and Chemical Compounds Present (Table 40) are important to all food, poisons and medicinal uses. The states for Chemical Compounds Present are adapted from Harborne & Baxter (1993). States for Stand-Alone descriptors relevant to a single use type have been listed within the relevant use section (e.g. Wood Properties relevant to MATERIALS - Wood is in Table 19 within MATERIALS).

TABLE 39. List of Stand-Alone descriptors relevant to availability of chemical analyses of plant parts and their states (Plant Parts).

Stand-Alone descriptors relevant to the availability of chemical analyses for plant parts	Plant Pa	arts
Unspecified Analyses Nutritional Analyses Antinutritional Analyses Poisonous Compounds Analyses Biologically Active Compounds (Laboratory . Tests) Biologically Active Compounds (Clinical Trials) Essential Oil Analyses	live plant in situ entire plant ex situ unspecified aerial parts 1 seedlings/germinated seeds galls leaf galls root galls stem galls fruit galls stems  plumules leafy stems/branches defoliated stems/branches stolons trunks wood sapwood heartwood tendrils thorns  bark  stem bark stem bark root bark  leaves 3  cotyledons young leaves fallen leaves leaflets stipules leaf blades leaf buds  inflorescences bracts 6 spathes spadices flowers flower buds peduncles 7 receptacles calyces	corollas androecia stamens pollen gynoecia/pistils styles/stigmas  infructescences fruits entire immature fruits entire mature fruits deseeded fruits fruit pulp fruit juice epicarp  seeds  arils  entire seeds seeds without testa seed hairs testa kernels seed oil seed cake solid albumen liquid albumen  'roots'  debarked 'roots' bulbs/corms tubers/tubercles roots nodules aerial roots <sup>9</sup> pneumatophores rhizomes  exudates  sap latex leaf juice gum resin nectar

<sup>1</sup> includes unspecified aquatic parts
2 of stems, trunks or branches
3 of unspecified age, includes cladodes and phyllodes
4 includes cataphylls
5 at base of branches/stems
6 includes bracteoles
7 includes pedicels
8 includes arillodes, strophioles, caruncles
9 includes rhizophores

TABLE 40. States for the Stand-Alone descriptor, Chemical Compounds Present.

Chemical Compounds Present			
carbohydrates	dihydroflavonols		
sugars	anthocyanins		
monosaccharides	chalcones		
oligosaccharides	dihydrochalcones		
polysaccharides	aurones		
sugar alcohols	isoflavonoids		
fatty acids	flavanones		
lipids	coumarins		
triglycerides	hydroxycoumarins		
phospholipids	furanocoumarins		
glycolipids	pyranocoumarins		
nitrogenous compounds	isocoumarins		
alkaloids	quinones		
betalain alkaloids	benzoquinones		
diterpenoid alkaloids	anthroquinones		
indole alkaloids	napthoquinones		
isoquinoline alkaloids	hydroxyquinones		
monoterpene alkaloids	tannins		
sesquiterpene alkaloids	lignans		
peptide alkaloids	phenols		
pyrrolidine alkaloids	phenolic acids		
piperidine alkaloids	phenylpropanoids		
pyrrolizidine alkaloids	xanthones		
quinoline alkaloids	terpenoids		
quinolizidine alkaloids	monoterpenoids <sup>1</sup>		
steroidal alkaloids	sesquiterpenoids		
tropane alkaloids	diterpenoids		
amino acids	triterpenoids		
proteins	limonoids		
lectins	quassinoids		
peptides	steroids		
nonprotein amino acids	cardenolides		
amines	iridoids		
cyanogenic glycosides	saponins		
glucosinolates	phytosterols		
purines	dammaranes		
pyrimidines 	tetraterpenoids		
phenolics	carotenoids		
flavonoids	organic acids		
flavones	aromatic acids		
flavonols	1		

The <u>Stand-Alone</u> descriptors <u>Weeds</u> and <u>Harmful Organisms Hosted</u> are descriptors relevant to the value of a plant as a whole, rather than to its individual uses. Their states are listed in Tables 41 and 42, respectively. <u>Weeds</u> may cause severe losses to crops and to livestock production and have economic repercussions. Some plants are hosts to disease vectors or to pests and diseases of major crops, which similarly have negative economic effects on agricultural production.

<sup>&</sup>lt;sup>1</sup>monoterpenoids and sesquiterpenoids include most essential oils

TABLE 41. States for the Stand-Alone descriptor, Weeds.

#### Weeds

weed of cultivated land weed of urban area weed of rangelands or pasture aquatic weed weed of forested areas

TABLE 42. States for the Stand-Alone descriptor, Harmful Organisms Hosted.

Harmful Organisms Hosted

major crop pests major crop diseases

#### **NOTES RELEVANT TO ALL USE TYPES**

Notes are additional to use descriptors and states; they are fields for free text. They are useful for storage of information that is not required for selection of taxa with particular attributes. Information which helps to place uses in their cultural context and evaluate their importance, rating, popularity and properties is included here, along with means of production, trade, industrial use and development contstraints relating to future potential.

Listed below are *Notes Categories* with suggestions for the types of data that should be included in each, as well as lists of terms or phrases which may be used as keywords. It is emphasised that these are not lists of states.

#### **USER GROUPS**

ethnic group (tribe/caste/sect) language/dialect locality

## VERNACULAR NAMES OF PLANT PRODUCT 1

Qualify the name with language/dialect, ethnic group, and area/location; and distinguish between product names at different stages of processing.

#### AREAS WHERE USED

used in ... [and occurs in (including both native and introduced areas)]
produced in ...
raw material produced in ...
manufactured in ...
imported into ...
raw material imported into ...
product imported into ...
introduced into ... [for the purpose]
experimented with in ... [for the purpose]
not used in ... [but occurs in]

(Area names attached to any of these notes should follow the TDWG geography standard of Hollis & Brummitt (1992).)

#### USE TYPE(S)

[actual use]
historical use
traditional use
modern use
trialled use
possible use
not used (e.g. for poisons)

(It is most practicable to describe use type only when conditions other than actual use apply. The majority of cases will be actual uses.)

#### **USER EVALUATION**

very high user rating high user rating medium user rating low user rating very low user rating

<sup>&</sup>lt;sup>1</sup>not names of the plant or plant parts

#### **USE FREQUENCY**

used very frequently used frequently used sometimes used rarely used very rarely

(This is not a duplication of the user evaluation note, as a plant may be highly valued for a purpose and hence receive a high rating score, but still be used infrequently (e.g. it may be rare) and score a low value in the frequency of use field.)

#### **PRODUCTION TYPES**

['natural' vegetation utilised (by animal/man)]
locally
via long distance expeditions
plants protected for the use
cultivation trials
cultivated
cultivated in agriculture
cultivated in forestry
cultivated in agroforestry
cultivated in horticulture
produced biotechnologically (e.g. in tissue culture)

#### TRADE IN RAW PLANT PART/RAW MATERIAL

raw material not traded
raw material traded
raw material traded locally
raw material traded regionally
raw material traded within a country
raw material traded internationally
raw material traded intercontinentally

#### TRADE IN MANUFACTURED PRODUCTS

product not traded
product traded
product traded
product traded locally
product traded regionally
product traded within a country
product trades internationally
product traded intercontinentally

#### TRADE IN SEED/PLANTING MATERIAL

planting material not traded
planting material traded
planting material traded locally
planting material traded regionally
planting material traded within a country
planting material trades internationally
planting material traded intercontinentally

#### INDUSTRIAL USAGE ('used in' or 'made in')

food and brewing industry
pharmaceutical industry
chemical industry
manufacturing industry
construction industry
tourist/handicraft industry
animal food industry
cosmetics industry
not used industrially

#### POTENTIAL

potential for increased area where used potential for increased popularity potential for increased trade/commercial use potential for use/greater use in industry potential for production by cultivation potential for increased production by cultivation potential for increased yields

#### **DEVELOPMENT CONSTRAINTS**

insufficient knowledge accessibility limited availability rarity resource degradation irregular availability low demand conflicting uses competing alternative sources low quality cultivation techniques little known cultivation difficult high environmental demands (water/fertilisers) pests and diseases long time to maturation harvesting problems spoilage storage processing marketing weediness

# USER RATING(S) OF THE PLANT FOR THE NEGATIVE VALUES

very serious problem serious problem sometimes problematical minor problem very minor problem

# REFERENCE CITATIONS/INFORMATION SOURCES

Sources of information should be included. They may be an indicator of reliability and include books, periodical articles (which should be cited to publication standard) and herbarium specimens (with herbarium, collector's name and number). If data have come from an informant, the informant's name, gender, approximate age, occupation, ethnic identity (tribe/caste/sect) and language/dialect spoken should be recorded.

## **REFERENCES**

Adjanohoun, E.J., Cusset, G., Issa Lo, Keita, A., Le Bras, M., Lejoly, J. & Waechter, P. (1989). Notice pour la Récolte et l'Entrée des Données. Banque de Données de Médecine Traditionnelle et Pharmacopée (PHARMEL). Paris, Agence de Coopération Culturelle et Technique.

Balick, M.J. & Beck, J.T. (1992). **Useful Palms of the World: a Synoptic Bibliography.** New York, Columbia University Press.

British Medical Association & Royal Pharmaceutical Society of Great Britain (1990). **British National Formulary no. 20 (September 1990).** London, BMA.

Harborne, J.B. & Baxter, H. (1993). **Phytochemical Dictionary: a Handbook of Bioactive Compounds from Plants.** London, Taylor & Francis Ltd.

Henry, J. (ed.) (1988). The British Medical Association Guide to Medicines and Drugs. London, Dorling Kindersley.

Hollis, S. & Brummitt, R.K. (1992). World Geographical Scheme for Recording Plant Distributions. Plant Taxonomic Database Standards No. 2, Version 1, January 1992. Pittsburgh, Hunt Institute for Botanical Documentation, Carnegie Mellon University for the International Working Group on Taxonomic Databases for Plant Sciences (TDWG).

Jansen, P.C.M., Lemmens, R.H.M.J., Oyen, L.P.A., Siemonsma, J.S., Stavast, F.M. & van Valkenburg, J.L.C.H. (eds) (1991). **PROSEA Basic List of Species and Commodity Grouping - Final Version.** Wageningen, Pudoc.

Johns, T. (1990). With Bitter Herbs they shall eat it: Chemical Ecology and the Origins of Human Diet and Medicine. Tucson, University of Arizona Press.

Parker, S.P. (1982). Synopsis and Classification of Living Organisms. New York etc., McGraw-Hill Book Co.

Sadie, S. (ed.) (1984). The New Grove Dictionary of Musical Instruments. 1. A to F. London, MacMillan.

U.S. Department of Health & Human Services (1991). **The International Classification of Diseases. 9th Revision. Clinical Modification. ICD.9.CM. Fourth Edition.** DHHS Publication No. 91-1260. Washington, U.S. Department of Health and Human Services.

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# **APPENDIX A: PLANT PARTS**

Table 43 is the Master List of Plant Parts in hierarchically grouped order. Table 44 is a rearrangement of the Master List, with the accepted plant part terms ordered alphabetically and placed alongside the broadest plant part term to which they relate. The Master List is a modified version of a list in Adjanohoun *et al.* (1989).

Several Level 3 descriptors (e.g. Specific Plant Parts Used, Poisonous Plant Parts, Plant Parts Used etc., see Table 6) are derived from the Master List of Plant Parts. The <u>most likely</u> states for them are listed in the sections on each **LEVEL 1** use. They are working aids (i.e. to prevent the need for searching through redundant terms) but the Master List of Plant Parts includes <u>all</u> the available states and can be used to supplement those lists within the **LEVEL 1** use sections. Any required additions to the Master List of Plant Parts should be directed to the author.

Top level terms within the hierarchy (e.g. seeds, leaves) are used when either i) the whole part is utilised or ii) the information source did not indicate a more specific part of the plant part. In most cases, when more specific details are not provided, then the whole plant part is implied. To include the distinction between whole plant part and specific plant part unspecified for each top level plant part would be impracticable and unduly complex and would provide little added value.

For ease of use, the hierarchy has been limited to two levels. In some cases it seems as if extra levels should be included (e.g. wood, heartwood and sapwood are listed at the same level) but, as the number of choices in each category is low and as exclusivity is not a feature of all the terms at the lower level, a true hierarchy would be impossible to achieve. This list is designed to be practicable, enabling the most appropriate plant part to be chosen to match the level of detail available. An example of where practicality has ruled over the true hierarchy is in the separation of seeds from infructescences at the top level. Seeds are frequently used parts of plants and merit a position at the top level despite their more natural position as a subdivision of infructescences.

It must be noted that strict botanical definitions are not always followed; for instance 'roots' is a loose term for underground parts, and 'seeds' can include caryopses.

TABLE 43. Master List of Plant Parts in grouped order.

	Plant Pa	arts	
live plar	live plant <i>in situ</i>		receptacles calyces
entire p	lant <i>ex situ</i>		corollas
unspeci	fied aerial parts <sup>1</sup>		androecia stamens
Ì			pollen
seedling	gs/germinated seeds		gynoecia/pistils styles/stigmas
galls		:	
	leaf galls	infructe	
	root galls		fruits
1	stem galls	1	entire immature fruits
	fruit galls	İ	entire mature fruits
			deseeded fruits
stems			fruit pulp
	plumules		fruit juice
	leafy stems/branches	1	epicarp
	defoliated stems/branches		•
	stolons	seeds	
	trunks		arils <sup>8</sup>
	wood		entire seeds
	sapwood		seeds without testa
	heartwood		seed hairs
	tendrils		testa
	thorns	[	kernels
	thorns	1	
l			seed oil
bark	2		seed cake
	stem bark <sup>2</sup>		solid albumen
	inner bark		liquid albumen
	root bark		
١ ,		'roots'	
leaves <sup>3</sup>			debarked 'roots'
	cotyledons		bulbs/corms
	young leav <u>e</u> s <sup>4</sup>	1	tubers/tubercles
	old leaves <sup>5</sup>		roots
	fallen leaves		nodules
	leaflets		aerial roots <sup>9</sup>
1	stipules		pneumatophores
1	leaf blades		rhizomes
	leaf buds		11112011100
]	icai buda		s
inflores	inflorescences		
	bracts <sup>6</sup>		sap latex
[	spathes		leaf juice
	spadices		•
	•		gum
	flowers		resin
Ì	flower buds 7		nectar
	peduncles /		

<sup>1</sup> includes unspecified aquatic parts
2 of stems, trunks or branches
3 of unspecified age; includes cladodes and phyllodes
4 includes cataphylls
5 at base of branches/stems
6 includes bracteoles
7 includes pedicels
8 includes arillodes, strophioles, caruncles
9 includes rhizophores

TABLE 44. Alphabetical lists of Plant Parts, with broader terms to which those parts belong.

Alphabetical List of All Accepted Plant Part Terms	Broad Terms to which Plant Part Belongs	Alphabetical List of All Accepted Plant Part Terms	Broad Terms to which
			Plant Part Belongs
unspecified aerial parts aerial roots 2 androecia arils 3 bark bracts 4 bulbs/corms calyces corollas cotyledons debarked 'roots' defoliated stems/branches deseeded fruits entire immature fruits	unspecified aerial parts 1 'roots' inflorescences seeds bark inflorescences 'roots' inflorescences inflorescences iroots' stems infructescences infructescences infructescences entire plant ex situ	liquid albumen live plant in situ nectar nodules old leaves 7 peduncles plumules pneumatophores pollen receptacles resin rhizomes root bark root galls 'roots'	seeds live plant in situ exudates 'roots' leaves inflorescences stems 'roots' inflorescences inflorescences exudates 'roots' bark galls 'roots'
entire plant <i>ex situ</i> entire seeds epicarp exudates fallen leaves flower buds	entire plant ex situ seeds infructescences exudates leaves inflorescences	sapwood seed cake seed hairs seed oil	exudates stems seeds seeds seeds
flowers fruit juice fruit galls fruit pulp fruits	inflorescences infructescences galls infructescences infructescences	seedlings/germinated seeds seeds seeds without testa solid albumen spadices	seedlings/germinated se seeds seeds seeds inflorescences
galls gum gynoecia/pistils heartwood inflorescences infructescences	galls exudates inflorescences stems inflorescences inflorescences	spathes stamens stem bark <sup>9</sup> stem galls stems stipules	inflorescences inflorescences bark galls stems leaves
inner bark kernels latex leaf blades leaf buds	bark seeds exudates leaves leaves	stolons styles/stigmas tendrils testa thorns	stems inflorescences stems seeds stems
leaf galls leaf juice leaflets leafy stems/branches leaves <sup>6</sup>	galls exudates leaves stems leaves	trunks tubers/tubercles wood young leaves <sup>10</sup>	stems 'roots' stems leaves

seeds

<sup>1</sup> includes unspecified aquatic parts
2 includes rhizophores
3 includes arillodes, strophioles, caruncles
4 includes bracteoles
5 flowering shoots generally without leaves, with bracts, axes of inflorescences and flowers; includes spadices of unspecified age; includes cladodes and phyllodes

<sup>7</sup>at base of branches/stems 8includes pedicels 9of stems, trunks or branches 10includes cataphylls

#### APPENDIX B: ORGANISMS

Table 45 is the Master List of Organisms in hierarchically grouped order. Table 46 is an alphabetical list of organisms (with both accepted and non-accepted terms) showing their relationship to terms in the Master List and their position in the hierarchy. The Master List of Organisms is not complete but hopefully includes most of the commonly encountered organisms with regards to plant use. As classifications can vary, Parker (1982) has been followed here and any additions will refer to it too. Please contact the author if any are required.

Organism descriptors are required so that direct beneficiaries of a particular use can be described. In those cases where humans benefit directly (e.g. from FOOD, SOCIAL USES, and MATERIALS), user organism as a Level 3 descriptor has been omitted. In cases where another organism benefits from the plant (e.g. the animal which uses the plant part for animal food; the animal which is treated in veterinary medicine), or where an organism affected by the poisonous properties of the plant needs to be described, a Level 3 descriptor for User Organism or Affected Organism has been provided. Table 6 lists these Level 3 descriptors that are derived from the Master List of Organisms.

The hierarchy of the Master List of Organisms is more or less true. One deviation from this is unavoidable because many information sources specify that a plant has antimicrobial properties, without specifying the type of organism involved (virus, bacterium or fungus); hence the term **Unspecified Microbes** has been included, despite its non-specific nature. Similarly, in the list of vertebrate organisms, game mammals and game birds are listed as accepted terms. This is to allow for coding of reports of the use of plants by game, where the actual organism type is not known. Game animals are wild animals which are hunted for food or sport.

Several levels to this hierarchy are included since sources of information on economic botany provide different levels of details; for example, some authors may describe a plant as a rodenticide whilst others may describe one lethal to mice. It is useful to be able to record the level of detail as appropriate. The alternative would be to lose the detail of the lower levels of the hierarchy. In some cases this would be particularly problematical; for instance, with regard to animal food, sheep and goats have very different diets, but they are grouped together (as caprines) at the higher level in the organism hierarchy.

Within Appendix G there are tables relating to **MEDICINES** that are also relevant to Organisms. Tables 61 and 62 list medicinally important organisms in alphabetical and grouped order. They are particularly useful for names and classification of fungi, bacteria and viruses. Additionally, Table 63 lists Gram status for various infective bacterial genera.

TABLE 45. Master List of Organisms in grouped order.

NON-VERTEBRATE ORGANISMS
Unspecified Microbes
Viruses 1
Bacteria <sup>2</sup>
Gram negative bacteria
Gram positive bacteria
Fungi <sup>S</sup> Plants
Algae
Pteridophyta
Bryophyta
Gymnospermae
Angiospermae
Protozoa
Sarcomastigophora (flagellate protozoa s./.)
Mastigophora (flagellate protozoa) Opalinata
Sarcodina
Labyrinthulata
Apicomplexa
Microspora
Myxozoa
Ascetospora
Ciliophora
Mollusca Arthropoda
Arachnida
Scorpiones (scorpions)
Araneae (spiders)
Pseudoscorpionida (false scorpions)
Acari (mites/ticks)
Crustacea
Insecta Blattaria (cockroaches)
Isoptera (termites)
Orthoptera (grasshoppers/locusts/crickets)
Phasmatoptera (stick insects)
Anoplura (lice)
Diptera (flies)
Culicidae (mosquitoes)
Psychodidae (sand flies) Glossinidae (Tsetse flies)
Siphonaptera (fleas)
Hemiptera (bugs)
assassin bugs
bed bugs
Homoptera (aphids etc.)
Coleoptera
Bruchidae Lepidoptera (butterflies/moths)
Hymenoptera (sawflies/wasps/bees/ants)
Other Eumetazoa
Platyhelminthes (flatworms)
Turbellaria
Trematoda (flukes)
Cestoda (tapeworms)
Nemertea (ribbon worms)
Nemata (nematodes/roundworms/eelworms)
Adenophora Trichocephalida
Secernentea
Rhabditida
Strongylida (includes hookworms)
Ascarida (ascarid worms)
Spirurida (includes filarial nematodes)
Camallanida Annelida (annelid worms)

VERTEBRATE ORGANISMS			
Fish			
Amphibia	ns		
·	frogs		
	salamande	ers	
Reptiles			
nepules	turtles		
	crocodilia	าร	
	lizards		
	snakes		
Birds			
Diluo	chickens		
	turkevs	_	
	game bird	s <sup>5</sup>	
Mammals			
wammals	bats		
	primates		
	·	humans	
	lagomorph		
		rabbits	
	rodents	hares	
	rodents	squirrels	
		rats	
		mice	
		cavies	
	Equidae		
		horses	
		asses donkeys	
		mules	
	Suiformes		
		pigs	
	Camelidae		
		camels	
	ruminants	llamas	
	rummants	bovines	
			cattle
			yak
			buffalo
		aanrinas	bison
		caprines	sheep
			goats
	game man	nmals <sup>6</sup>	
		_	

Annelida (annelid worms) Hirudinea (leeches)

<sup>1</sup> see lists of genera in Tables 61 and 62 2 see above footnote 3 see above footnote 4 i.e non-Mollusca/non-Arthropoda

<sup>&</sup>lt;sup>5</sup>bird species unspecified <sup>6</sup>mammal species unspecified

Table 46. Alphabetical list of Organisms with their taxonomic groups indicated. (\* indicates non-accepted terms or terms external to the classification in Table 45.)

Acari Adenophora <i>Amoeba*</i> Amoebida* <b>Amphibians</b> <i>Ancylostoma*</i>	- Spirurida -	- Secernentea	Algae	1
Acanthochylonema* Acari Adenophora Amoeba* Amoebida* Amphibians Ancylostoma*	Spirurida - -	Secernentea		l Plants
Acari Adenophora <i>Amoeba*</i> Amoebida* <b>Amphibians</b> <i>Ancylostoma*</i>	- -	Cocominionicoa	Nemata	Other Eumatozoa
Adenophora <i>Amoeba*</i> Amoebida* <b>Amphibians</b> <i>Ancylostoma*</i>	-	Acari	Arachnida	Arthropoda
Amoeba* Amoebida* Amphibians Ancylostoma*		Adenophora	Nemata	Other Eumetazoa
Amoebida* <b>Amphibians</b> <i>Ancylostoma*</i>	_	Sarcodina	Sarcomastigophora	Protozoa
Amphibians Ancylostoma*	_	Sarcodina	Sarcomastigophora	Protozoa
Ancylostoma*	_	-	-	Amphibians
, II	Strongylida	Secernentea	Nemata	Other Eumetazoa
Angiospermae	-	-	Angiospermae	Plants
Anisakia*	Ascarida	Secernentea	Nemata	Other Eumetazoa
annelid worms*	-	-	Annelida	Other Eumetazoa
Annelida	-	-	Annelida	Other Eumetazoa
Anoplura	-	Anoplura	Insecta	Arthropoda
ants*	-	Hymenoptera	Insecta	Arthropoda
aphids*	-	Homoptera	Insecta	Arthropoda
Apicomplexa	-	=	Apicomplexa	Protozoa
Arachnida	-	•	Arachnida	Arthropoda
Araneae	-	Araneae	Arachnida	Arthropoda
Arthropoda	-		1	Arthropoda
	Ascarida	Secernentea	Nemata	Other Eumetazoa
Ascarida	Ascarida	Secernentea	Nemata	Other Eumatazoa
Ascaris*	Ascarida	Secernentea	Nemata	Other Eumetazoa
Ascetospora	-	-	Ascetospora	Protozoa
assassin bugs	assassin bugs	Hemiptera	Insecta	Arthropoda
asses	-	asses	Equidae	Mammals
Bacteria Balantidium*	-	•	Ciliophora	Bacteria Protozoa
l I	-	-	bats	Mammals
bats bed bugs	bed bugs	- Hemiptera	Insecta	Arthropoda
bed bugs bees*	- Ded bugs	Hymenoptera	Insecta	Arthropoda
Birds	_	-	-	Birds
bison	bison	bovines	ruminants	Mammals
Blattaria	-	Blattaria	Insecta	Arthropoda
bovines	-	bovines	ruminants	Mammals
Bruchidae	-	Bruchidae	Coleoptera	Arthropoda
Brugia*	Spirurida	Secernentea	Nemata	Other Eumetazoa
Bryophyta	-	-	Bryophyta	Plants
buffalo	buffalo	bovines	ruminants	Mammals
bugs*	-	Hemiptera	Insecta	Arthropoda
butterflies*	-	Lepidoptera	Insecta	Arthropoda
Camallanida	Camallanida	Secernentea	Nemata	Other Eumetazoa
Camelidae	-	-	Camelidae	Mammals
camels	<u>-</u>	camels	Camelidae	Mammals
′ II	Trichocephalida	Adenophora	Nemata	Other Eumetazoa
caprines	-	caprines	ruminants	Mammals
	cattle	bovines	ruminants	Mammals
cavies	-	cavies	rodents	Mammals
Cestoda	-	Cestoda	Platyhelminthes	Other Eumetazoa
chickens	-	-	chickens Ciliophora	Birds Protozoa
Ciliophora   Clonorchis *	_	- Trematoda	Platyhelminthes	Other Eumetazoa
cockroaches*	_	Blattaria	Insecta	Arthropoda
Coleoptera	_	-	Coleoptera	Arthropoda
crickets*	_	Orthoptera	Insecta	Arthropoda
crocodilians	_	-	crocodilians	Reptiles
Crustacea	-	ļ <u>-</u>	Crustacea	Arthropoda
Cryptosporidium*	-	-	Apicomplexa	Protozoa
Ctenocephalides*	Siphonaptera	Diptera	Insecta	Arthropoda
Culicidae	Culicidae	Diptera	Insecta	Arthropoda
Cysticercus*	-	Cestoda	Platyhelminthes	Other Eumetazoa
Desmodes*	-	Acari	Arachnida	Arthropoda
Dicrocoelium*	-	Trematoda	Platyhelminthes	Other Eumetazoa
Dientamoeba*	-	Sarcodina	Sarcomastigophora	Protozoa
· II	Spirurida	Secernentea	Nemata	Other Eumetazoa
Diphyllobothrium*	-	Cestoda	Platyhelminthes	Other Eumetazoa

Alphabetical List of Organisms	Relationship be (Narrowest Ter	tween Broad and Narro ms on the Left Hand Si	w Terms for Organism Type de and Broadest on the Righ	t)
Diplidium*	-	Cestoda	Platyhelminthes	Other Eumetazoa
Diplogonoporus*	-	Cestoda	Platyhelminthes	Other Eumetazoa
Diptera	l <u>-</u>	Diptera	Insecta	1
donkeys	i <u>-</u>	donkeys	Equidae	Arthropoda Mammals
Dracunculus*	Camallanida	Secernentea	Nemata	1
Echinococcus *	-	Cestoda	Platyhelminthes	Other Eumetazoa
Echinostoma*		Trematoda	1	Other Eumetazoa
Entamoeba*	-	Sarcodina	Platyhelminthes	Other Eumetazoa
	- A		Sarcomastigophora	Protozoa
Enterobius*	Ascarida	Secernentea	Nemata	Other Eumetazoa
Equidae	•	1	Equidae	Mammals
false scorpions*	-	Pseudoscorpiones	Arachnida	Arthropoda
Fasciola*	-	Trematoda	Platyhelminthes	Other Eumetazoa
Fasciolopsis*	-	Trematoda	Platyhelminthes	Other Eumetazoa
filarial nematodes*	Spirurida	Secernentea	Nemata	Other Eumetazoa
Fish	-	-	] -	Fish
flagellate protozoa s./. *	-	1 -	Sarcomastigophora	Protozoa
flagellate protozoa*	-	Mastigophora	Sarcomastigophora	Protozoa
flatworms*	-	-	Platyhelminthes	Other Eumetazoa
fleas*	Siphonaptera	Diptera	Insecta	Arthropoda
flies*		Diptera	Insecta	Arthropoda
flukes*	-	Trematoda	Platyhelminthes	Other Eumetazoa
frogs	_	-	frogs	Amphibians
Fungi	_	1.	-	Fungi
game birds	- -		game birds	Birds
_	-	-	•	Mammals
game mammals	-	Turnestada	game mammals	
Gastrodiscoides*	-	Trematoda	Platyhelminthes	Other Eumetazoa
Giardia*	-	Mastigophora	Sarcomastigophora	Protozoa
Glossinidae	Glossinidae	Diptera	Insecta	Arthropoda
Gnathostoma*	Spirurida	Secernentea	Nemata	Other Eumetazoa
goats	goats	caprines	ruminants	Mammals
Gram negative bacteria	-	<b> </b> •	Gram negative bacteria	Bacteria
Gram positive bacteria	-	-	Gram positive bacteria	Bacteria
grasshoppers*	-	Orthoptera	Insecta	Arthropoda
Gymnospermae	-	-	Gymnospermae	Plants
hares	-	hares	lagomorphs	Mammals
Hemiptera	-	Hemiptera	Insecta	Arthropoda
Heterophyes*	-	Trematoda	Platyhelminthes	Other Eumetazoa
Hirudinea	-	Hirudinea	Annelida	Other Eumetazoa
Homoptera	-	Homoptera	Insecta	Arthropoda
hookworms*	Strongylida	Secernentea	Secernentea	Other Eumetazoa
horses	-	horses	Equidae	Mammals
humans	_	humans	primates	Mammals
Hymenolepis*	_	Cestoda	Platyhelminthes	Other Eumetazoa
Hymenoptera	_	Hymenoptera	Insecta	Arthropoda
	_	- riyinionoptera	Insecta	Arthropoda
Insecta	-	loopters	Insecta	Arthropoda
Isoptera	•	Isoptera		Protozoa
Isospora*	-	-	Apicomplexa	
Labyrinthulata	-	-	Labyrinthulata	Protozoa
lagomorphs	-	1	lagomorphs	Mammals
leeches	-	Hirudinea	Annelida	Other Eumetazoa
Leishmania*	-	Mastigophora	Sarcomastigophora	Protozoa
Lepidoptera	-	Lepidoptera	Insecta	Arthropoda
lice*	-	Anoplura	Insecta	Arthropoda
lizards	-	-	lizards	Reptiles
llamas	-	llamas	Camelidae	Mammals
Loa*	Spirurida	Secernentea	Nemata	Other Eumetazoa
locusts*	-	Orthoptera	Insecta	Arthropoda
Mammals	-	-	l -	Mammals
Masorella*	Spirurida	Secernentea	Nemata	Other Eumetazoa
Mastigophora	-	Mastigophora	Sarcomastigophora	Protozoa
Metagonimus *	_	Trematoda	Platyhelminthes	Other Eumetazoa
mice	_	mice	rodents	Mammals
Unspecified Microbes	<u>-</u>	111106	-	Unspecified
Onspecified Micropes	-	1		Microbes
NA:			Miorognera	
Microspora	' <del>-</del>	Acori	Microspora	Protozoa
mites*	-	Acari	Arachnida	Arthropoda
Mollusca		1	J.	Mollusca

Alphabetical List of Organisms			v Terms for Organism Type le and Broadest on the Right)	
mosquitoes*	Culicidae	Diptera	Insecta	Arthropoda
moths*	- Culicidae	Lepidoptera	Insecta	Arthropoda
motils	-	mules	Equidae	Mammals
	-	Inuios	Myxozoa	Protozoa
Myxozoa	- Ctrongulida	- Secernentea	Nemata	Other Eumetazoa
Necator*	Strongylida	Secementea	Nemata	Other Eumetazoa
Nemata	-	-		Other Eumetazoa
nematodes*	<del>-</del>	-   • .	Nemata	Other Eumetazoa
Nemertea	<del>-</del>	Nemertea	Platyhelminthes	
Onchocerca*	Spirurida	Secernentea	Nemata	Other Eumetazoa
Opalinata	-	Opalinata	Sarcomastigophora	Protozoa
Opisthorchis*	-	Trematoda	Platyhelminthes	Other Eumetazoa
Orthoptera	-	Orthoptera	Insecta	Arthropoda
Other Eumetazoa	-	-	-	Other Eumetazoa
Pediculus*	-	Anoplura	Insecta	Arthropoda
Phasmatoptera	-	Phasmatoptera	Insecta	Arthropoda
Phlebotomus*	Psychodidae	Diptera	Insecta	Arthropoda
pigs*	-	pigs	Suiformes	Mammals
Plants	-	-	-	Plants
Plasmodium*	-		Apicomplexa	Protozoa
Platyhelminthes	l <u>-</u>		Platyhelminthes	Other Eumetazoa
primates	_		primates	Mammals
Protozoa	I _	l <u>.</u>	_	Protozoa
Pseudoscorpionida	_	- Pseudoscorpionida	- Arachnida	Arthropoda
Pseudoscorpionida Psoroptes*	1 -	Acari	Arachnida Arachnida	Arthropoda
	- Psychodidae	Diptera	Insecta	Arthropoda Arthropoda
Psychodidae	Psychodidae	Diptera		
Pteridophyta			Pteridophyta	Plants
Pulex*	Siphonaptera	Diptera	Insecta	Arthropoda
rabbits	-	rabbits	lagomorphs	Mammals
rats	-	rats	rodents	Mammals
Reptiles	<b> </b> -	-	] -	Reptiles
Rhabditida	Rhabditida	Secernentea	Nemata	Other Eumetazoa
ribbon worms*	-	-	Nemertea	Other Eumetazoa
rodents	-	=	rodents	Mammals
roundworms*	-	-	Nemata	Other Eumetazoa
ruminants	-	-	ruminants	Mammals
salamanders	-	-	salamanders	Amphibians
sand flies*	Psychodidae	Diptera	Insecta	Arthropoda
Sarcodina	-	Sarcodina	Sarcomastigophora	Protozoa
Sarcomastigophora	-	-	Sarcomastigophora	Protozoa
Sarcoptes*	-	Acari	Arachnida	Arthropoda
sawflies*	-	Hymenoptera	Insects	Arthropods
Schistosoma*	l -	Trematoda	Platyhelminthes	Other Eumatozoa
Scorpiones	_	Scorpiones	Arachnida	Arthropoda
scorpions*	_	Scorpiones	Arachnida	Arthropods
Secernentea	l <u>.</u>	Secernentea	Nemata	Other Eumetazoa
sheep	sheep	caprines	ruminants	Mammals
Siphonaptera	Siphonaptera	Diptera	Insecta	l '
Sipnonaptera	Siprioriaptera	Dibreta	insecta snakes	Arthropoda Reptiles
	l -	Contodo		
Sparganum*	-	Cestoda	Platyhelminthes	Other Eumetazoa
spiders*	- 	Araneae	Arachnida	Arthropoda
Spirurida 	Spirurida	Secernentea	Nemata	Other Eumetazoa
squirrels	-	squirrels	rodents	Mammals
Stellantochasmus*	<b> </b> -	Trematoda	Platyhelminthes	Other Eumetazoa
stick insects*	-	Phasmatoptera	Insecta	Arthropoda
Strongylida	Strongylida	Secernentea	Nemata	Other Eumetazoa
Strongyloides*	Rhabditida	Secernentea	Nemata	Other Eumetazoa
Suiformes	-	-	Suiformes	Mammals
swine*	-	pigs	Suiformes	Mammals
Taenia*	-	Cestoda	Platyhelminthes	Other Eumatozoa
tapeworms*	-	Cestoda	Platyhelminthes	Other Eumetazoa
termites*	<b> </b> -	Isoptera	Insecta	Arthropoda
ticks*	-	Acari	Arachnida	Arthropoda
Toxocara*	Ascarida	Secernentea	Nemata	Other Eumetazoa
Toxoplasma*	-	_	Apicomplexa	Protozoa
Trematoda	_	Trematoda	Platyhelminthes	Other Eumetazoa
Trichinella*	Trichocephalida	Adenophora	Nemata	Other Eumetazoa
Trichocephalida	Trichocephalida	Adenophora	Nemata	Other Eumetazoa
Trombicula*	Inchocephanda	Adenophora Acari	Arachnida	Arthropoda
i rombicula*	<b>I</b> -	Acaii	Aracillida	Artimopoda
	<u> </u>	L		/continued over

Alphabetical List of Organisms	Relationship between Broad and Narrow Terms for Organism Type (Narrowest Terms on the Left Hand Side and Broadest on the Right)				
Trypanosoma*	-	Mastigophora	Sarcomastigophora	Protozoa	
Trichomonas*	-	Mastigophora	Sarcomastigophora	Protozoa	
Trichostrongyloides*	Strongylida	Secernentea	Nemata	Other Eumetazoa	
Trichuris *	Trichocephalida	Adenophora	Nemata	Other Eumetazoa	
Tsetse flies*	Glossinidae	Diptera	Insecta	Arthropoda	
Tunga*	Siphonaptera	Diptera	Insecta	Arthropoda	
Turbellaria	-	Turbellaria	Platyhelminthes	Other Eumetazoa	
turkeys	-	-	turkeys	Birds	
turtles	-	-	turtles	Reptiles	
Viruses	-	-	-	Viruses	
wasps*	-	Hymenoptera	Insecta	Arthropoda	
Wucheria*	Spirurida	Secernentea	Nemata	Other Eumetazoa	
yak	yak	bovines	ruminants	Mammals	

# **APPENDIX C: MATERIALS**

TABLE 47. Alphabetical list of accepted terms for material types with hierarchical relationships. (Level 2 states are indicated in **bold**, whilst non-bold refers to states of the Level 3 descriptor, Specific Material Types.)

Alphabetical List of Material Types	Hierarchical Relatio	nship between Terms Pe	ertaining to Material Types	
Alcohols	-	-	-	Alcohols
rayon	rayon	cellulose derivatives	pulp	Fibres
basketry (from cane etc.)	-	-	basketry (from cane etc.)	Cane etc.
basketry (from fibre)	-	-	basketry (from fibre)	Fibres
beads	-	-	beads	Other Materials/
				Chemicals
beams/scantlings	-	beams/scantlings	timber	Wood
board (non-wood)	_	board (non-wood)	pulp	Fibres
brushwood	-	-	brushwood	Wood
Cane etc.	_	_		Cane etc.
cardboard	_	cardboard	pulp	Fibres
carved materials	_	_	carved materials	Other Materials/
(non-wood)			(non-wood)	Chemicals
carved wood	]_	1.	carved wood	Wood
carved wood cellophane	- cellophane	cellulose derivatives	pulp	Fibres
cellulose acetates	cellulose acetates	cellulose derivatives	pulp	Fibres
	cellulose acetates	cellulose derivatives	1	Fibres
cellulose derivatives	<del>-</del>	cellulose derivatives	pulp	
cloth	-	1 -1	woven material	Fibres
columns	-	columns	timber	Wood
cord/string/twine	-	-	cord/string/twine	Fibres
Cork/Cork Substitutes	-	-	-	Cork/Cork
				Substitutes
drying oils	-	drying oils	oils	Lipids
dyes	-	-	dyes	Tannins/Dyestuffs
Essential Oils	-	[ -	-	Essential Oils
fats	-	-	fats	Lipids
fibreboard	-	fibreboard	pulp	Fibres
Fibres	-	-	-	Fibres
girders	-	girders	timber	Wood
gums	-	-	gums	Gums/Resins
Gums/Resins	-	-	] -	Gums/Resins
industrial alcohols	-	i -	industrial alcohols	Alcohols
inks	-	] -	inks	Tannins/Dyestuffs
laminated wood	-	-	laminated wood	Wood
Latex/Rubber	_	-	-	Latex/Rubber
Lipids	_	-	_	Lipids
marquetry wood	-	_	marquetry wood	Wood
matting	_	_	matting	Fibres
mucilages	-	_	mucilages	Gums/Resins
netting	_	_	netting	Fibres
non-drying oils	_	non-drying oils	oils	
oils	_	arying one	oils	Lipids   Lipids
oleoresins	_	<u>-</u>	oleoresins	Lipias   Gums/Resins
Other		1 _	- Organiesins	Other Materials/
Materials/Chemicals				Chemicals
packing/stuffing/filling			packing/stuffing/filling	Chemicais Fibres
	-   _	naner	packing/stuffing/filling	Fibres
paper	<u> </u>	paper	pulp	
paper substitutes	_	_	paper substitutes	Fibres
particle board/chipboard		_:::	particle board/chip board	Wood
pilings	-	pilings	timber	Wood
plaiting	-	l	plaiting	Fibres
planks	l	planks	timber	Wood
plastics	plastics	cellulose derivatives	pulp	Fibres
plywood	-	-	plywood	Wood
poles (from cane etc.)	-	-	poles (from cane etc.)	Cane etc.
poles (from wood)	-	poles (from wood)	timber	Wood

Alphabetical List of Material Types	Hierarchical Relation	ship between Terms Pe	rtaining to Material Types	
props pulp resins sacking sawdust semi-drying oils stains stakes/pales/rails staves struts tannins Tannins/Dyestuffs	- - - - - - - -	props sacking - semi-drying oils - stakes/pales/rails staves struts	timber pulp resins woven material sawdust oils stains timber timber timber tannins - thatch	Wood Fibres Gums/Resins Fibres Wood Lipids Tannins/Dyestuffs Wood Wood Wood Tannins/Dyestuffs Tannins/Dyestuffs Tannins/Dyestuffs
thread/yarn timber	-	-	thread/yarn timber	Fibres Wood
tow turned wood Unspecified Materials  veneer Waxes Wood wood board wood chips wood wool woven material	tow	cellulose derivatives	pulp turned wood  - veneer - wood board wood chips wood wool woven material	Fibres Wood Unspecified Materials Wood Waxes Wood Wood Wood Fibres

# **APPENDIX D: PRODUCTS**

TABLE 48. Alphabetical list of accepted terms for the Level 3 descriptor, Products Used In, showing the hierarchical relationships.

Products Used In	Narrow Term	Broader Term	Broadest Term
abrasives	-		abrasives
adhesives	-	l -	adhesives
aeroplanes	-	aeroplanes	vehicles
agricultural tools		agricultural tools	tools
antioxidants	-	antioxidants	preservatives
architraves	_	architraves	joinery
arrow shafts	arrow shafts	arrows	weapons
arrow tips	arrow tips	arrows	weapons
arrows	-	arrows	weapons
artificial limbs	_	artificial limbs	medical accessories
avls	_	awls	tools
axe handles	axe handles	tool handles	tools
axe rigilities	-	axles	wheels
	_	baby carriers	containers/holders
baby carriers	-		containers/holders
bags	•	bags	
balconies	-	balconies	joinery
balls	-	balls	sports equipment
bandages	l <del>:</del>	bandages	medical accessories
barns	barns	outbuildings	buildings
barrels/casks/tubs	-	barrels/casks/tubs	containers/holders
baskets	-	baskets	containers/holders
bathroom/toilet fitments	-	bathroom/toilet fitments	joinery
bearings	-	bearings	machine parts
bed frames	bed frames	beds	furniture
beds	-	beds	furniture
beehives	beehives	outbuildings	buildings
billiard balls	billiard balls	balls	sports equipment
bird cages	-	bird cages	containers/holders
birdlime	birdlime	traps/snares	weapons
blankets	-	blankets	furnishings
blocks (for hats)	-	blocks (for hats)	tools
blocks (for pulleys)	blocks	blocks and pulleys	tools
blocks (for rice paper)	-	blocks (for rice paper)	tools
blocks and pulleys	-	blocks and pulleys	tools
blocks/slabs (for butchers etc.)	· -	blocks/slabs (for butchers etc.)	tools
blow pipes	-	blow pipes	weapons
blown idiophones	blown idiophones	idiophones	musical instruments
board game pieces	board game pieces	board games	toys/games
board games	•	board games	toys/games
boat keels	boat keels	boat/ship parts	vehicles
boat ribs	boat ribs	boat/ship parts	vehicles
boat/ship parts	-	boat/ship parts	vehicles
boats/ships	-	boats/ships	vehicles
bobbins/spools/reels	_	bobbins/spools/reels	tools
body deodorants	-	body deodorants	deodorants
body deodorants body paints	body paints	skin cosmetics	cosmetics
body paints books	-	books	printed material
bottle openers	_	bottle openers	tools
	_	1	fasteners/closures
bottle stoppers bow strings (weapons)	how strings byoness	bottle stoppers bows (weapons)	1
	bow strings (weapons) bows (for musical	• •	weapons
bows (for musical instruments)	•	composite chordophones	musical instruments
h /	instruments)	hows (womens)	
bows (weapons)	-	bows (weapons)	weapons
boxes	- hvo coloto	boxes	containers/holders
bracelets	bracelets	'jewellery'/personal adornment	personal items
brake blocks	brake blocks	brakes	machine parts
brakes	-	brakes	machine parts
breath fresheners	-	breath fresheners	cleansers
bridges	-	bridges	constructions
brooches	brooches	'jewellery'/personal adornment	personal items
brushes/brooms	-	brushes/brooms	tools
buckets/pails	-	buckets/pails	containers/holders
buildings	-	-	buildings
buses	-	buses	vehicles
buttons	-	buttons	fasteners/closures
cabinets	-	cabinets	furniture
candles	-	candles	illuminants
candlesticks	_	candlesticks	containers/holders
canoes	-	canoes	vehicles
4	_	caravans	vehicles
naratiana II			
caravans carbon paper	carbon paper	maths/drawing equipment	scientific/technical equipment

Products Used In  Carpet beaters carpeterings - car			<u> </u>	
caretings caretings caretings canding cement chairs dustritutes cheep pieces chopatics cheep pieces cicaretings chairs wrappers cicaretine		Narrow Term		Broadest Term
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digging sticks - digging sticks tools  docks/harbours - docks/harbours constructions  dolls - dolls toys/games  door frames - door frames joinery  door handles - door handles joinery	detergents	-	detergents	cleansers
docks/harbours - docks/harbours constructions dolls - dolls toys/games door frames - door frames joinery door handles - door handles joinery	- I	-	dice	toys/games
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door frames - door frames joinery door handles - door handles joinery	docks/harbours	-	docks/harbours	constructions
door handles door handles joinery	dolls	-	dolls	toys/games
	door frames	-	door frames	joinery
doore   -   doore   Lioinery	door handles	-		joinery
1	doors	-	doors	joinery
drinking straws - drinking straws tools	drinking straws	-	-	
dugout canoes dugout canoes canoes vehicles	<u>*</u>	•		
earrings earrings 'jewellery'/personal adornment personal items	~ II	earrings		-
electric light blocks - electric light blocks joinery		-	electric light blocks	
emulsifiers - emulsifiers	ll l	-	[ *	
entomological labels - entomological labels scientific/technical equipment		-	_	
entomological mounts - entomological mounts scientific/technical equipment	· · · · · · · · · · · · · · · · · · ·	-	entomological mounts	
explosives explosives	· N	-	1:	, ·
false hair   false hair   personal items	i i	-		l ·
false teeth false teeth medical accessories		-		
fans - fans personal items		-	fans	•
fasteners/closures - fasteners/closures		-	<u> </u>	• • • • • • • • • • • • • • • • • • • •
fences constructions	1	-	tences	
fermentation agents (non-food)   fermentation agents (non-food)		-	-	
fermentation retarders (non-food)   -   fermentation retarders (non-food	rermentation retarders (non-food)	-		fermentation retarders (non-food)

Products Used In	Narrow Term	Broader Term	Broadest Term
fire controllers	•	-	fire controllers
fire extinguishers	-	fire extinguishers	fire controllers
fire retarders	-	fire retarders	fire controllers
fireplaces	-	fireplaces	joinery
fish bait	-	fish bait	fishing equipment
fish hooks	-	fish hooks	fishing equipment
fish traps	-	fish traps	fishing equipment
fishing equipment	-		fishing equipment
fishing floats	-	fishing floats	fishing equipment
fishing lines	-	fishing lines	fishing equipment
fishing lures	-	fishing lures	fishing equipment
fishing nets	1 -	fishing nets	fishing equipment
fishing reels	_	fishing reels	fishing equipment
fishing rods	_	fishing rods	fishing equipment
flagpoles	_	flagpoles	constructions
floorboards	_	floorboards	floors
floors	l <u>-</u>	_	floors
flutes	flutes	blown idiophones	musical instruments
		wrappers	containers/holders
food wrappers	food wrappers	balls	sports equipment
footballs	footballs	l ' ' '	
footwear	<del>-</del>	footwear	clothing
forks	<del>-</del>	forks	tools
foundations	11	<del>-</del>	foundations
friction drums	friction drums	membranophones	musical instruments
furnishings	-	<b> </b>	furnishings
furniture	-	1	furniture
furniture legs	·	furniture legs	furniture
game boards	game boards	board games	toys/games
gates	-	gates	joinery
gelling agents	-	-	gelling agents
gliders	-	gliders	vehicles
golf club shafts	golf club shafts	sports bats/racquets	sports equipment
grain stores	grain stores	outbuildings	buildings
graters	-	graters	tools
gun carriages	gun carriages	guns	weapons
gun stocks	gun stocks	guns	weapons
gunpowder	-	gun powder	explosives
guns	-	guns	weapons
hair conditioners	-	hair conditioners	cosmetics
hair dressings	-	hair dressings	personal items
hair dyes	-	hair dyes	cosmetics
hair oil/lacquer	-	hair oil/lacquer	cosmetics
hairbrushes	-	hairbrushes	personal items
hammers	-	hammers	tools
hammocks	-	hammocks	furniture
handles (of containers/holders)	-	handles	containers/holders
handrails	l -	handrails	joinery
harnesses	-	harnesses	harnesses/tack
harnesses/tack	_	<b>!</b>	harnesses/tack
hat pins	_	hat pins	personal items
hats	hats	headgear	clothing
headgear	-	headgear	clothing
helmets	helmets	headgear	clothing
hen coops	hen coops	outbuildings	buildings
histological stains		histological stains	scientific/technical equipment
hockey sticks	hockey sticks	sports sticks/clubs/cues	sports equipment
hoops		-	hoops
house waterproofing	house waterproofing	- waterproofers	coatings
house waterproofing household deodorants	-	household deodorants	deodorants
houses	l <u>-</u>	houses	buildings
		hubs	wheels
hubs	[ <u>-</u>	huts	
huts	1		buildings
idiophones	<sup>-</sup>	idiophones	musical instruments
illuminants	l <sup>-</sup>	[ <del>-</del>	illuminants incense
incense		'iewellery'/naroanal -darmmat	
'jewellery'/personal adornment	] <del>-</del>	'jewellery'/personal adornment	personal items
joinery	l <sup>-</sup>	kitahan fitas-at-	joinery
kitchen fitments	- -	kitchen fitments	joinery
knitting needles	knitting needles	needles	tools
knives	l <del>.</del>	knives	tools
lacquer	lacquer	paints/varnishes/thinners	coatings
ladder rungs	ladder rungs	ladders	tools
ladders	<del>-</del>	ladders	tools
lampshades	-	lampshades	furnishings
large buildings	-	large buildings	buildings
latex coagulants	<del>-</del>	latex coagulants	coagulants
lathe chucks	1 -	lathe chucks	machine parts
lattices	<del>-</del>	lattices	walls
levers	<del>-</del>	levers	tools
light fitments	l -	light fitments	joinery

		T	
Products Used In	Narrow Term	Broader Term	Broadest Term
lipsticks	lipsticks	skin cosmetics	cosmetics
locks/weirs	-	locks/weirs	constructions
lubricants	-	-	lubricants
lures	-	lures	weapons
machine frames	-	machine frames	machine parts
machine keys	-	machine keys	machine parts
machine parts	-	-	machine parts
machines	-	-	machines
mallets	-	mallets	tools
manicure sticks	-	manicure sticks	personal items
map rollers	map rollers	maths/drawing equipment	scientific/technical equipment
masts/booms	masts/booms	boat/ship parts	vehicles
match sticks	•	match sticks	tools
maths/drawing equipment	-	maths/drawing equipment	scientific/technical equipment
mats	-	mats	furnishings
mattresses	-	mattresses	furniture
measures	measures	maths/drawing equipment	scientific/technical equipment
medical accessories	-		medical accessories
membranophones	-	membranophones	musical instruments
mines	-	mines	constructions
models	-	-	models
mordants	_	1.	mordants
mortars	mortars	crushers/mills/presses	tools
mortars mouldings		mouldings	joinery
- I	-	I moditings	joniery
mouthpieces (for musical instruments)	mouthpieces	blown idiophones	musical instruments
musical instruments	mounipieces		musical instruments
	-	muzzles (for animals)	tools
muzzles (for animals)	-	nails (for animals)	fasteners/closures
nails	-		personal items
necklaces	necklaces	'jewellery'/personal adornment	
needles	-	needles	tools
newspapers	- , ,	newspapers	printed material
oars/sculls	oars/sculls	boat/ship parts	vehicles
oil wells	-	oil wells	constructions
ornaments	-	ornaments	furnishings
outbuildings	-	outbuildings	buildings
paddles	paddles	boat/ship parts	vehicles
paints	paints	paints/varnishes/thinners	coatings
paints/varnishes/thinners	-	paints/varnishes/thinners	coatings
panels	-	panels	walls
parquet floors	-	parquet floors	floors
patterns	-	patterns	tools
paving blocks	paving blocks	roads	constructions
pegs	-	pegs	fasteners/closures
pencils	pencils	maths/drawing equipment	scientific/technical equipment
pens	pens	maths/drawing equipment	scientific/technical equipment
perfumes	-	1 -	perfumes
periodicals	-	periodicals	printed material
personal items	-	-	personal items
pestles	pestles	crushers/mills/presses	tools
picture frames	•	picture frames	furnishings
picture rails	-	picture rails	joinery
piers/jetties	-	piers/jetties	constructions
pillows	-	pillows	furnishings
pincushions	-	pincushions	tools
pipes (musical instruments)	pipes	blown idiophones	musical instruments
pipes (smoker's)	pipes (smoker's)	smoker's equipment	personal items
planes (for carpentry)	-	planes (for carpentry)	tools
plant pots	-	plant pots	containers/holders
plant supports	-	plant supports	tools
plastic extenders	-	-	plastic extenders
plasticisers	-	1 -	plasticisers
plastics	-	-	plastics
plates/bowls	-	plates/bowls	containers/holders
plucked idiophones	plucked idiophones	idiophones	musical instruments
plugs	•	plugs	fasteners/closures
plugs	-	plugs	tools
polishers	-	polishers	abrasives
porches	-	porches	joinery
	-	pot plant holders	furnishings
		pot pourri	furnishings
pot plant holders		pottery	containers/holders
pot plant holders pot pourri	-		
pot plant holders pot pourri pottery	-	-	•
pot plant holders pot pourri pottery preservatives	· ·	- -	preservatives
pot plant holders pot pourri pottery preservatives printed material	- - - - printing agents	-	preservatives printed material
pot plant holders pot pourri pottery preservatives printed material printing agents	- - - printing agents	- - maths/drawing equipment	preservatives printed material scientific/technical equipment
pot plant holders pot pourri pottery preservatives printed material printing agents propellers	- - printing agents -	- - maths/drawing equipment propellers	preservatives printed material scientific/technical equipment machine parts
pot plant holders pot pourri pottery preservatives printed material printing agents propellers protective colloids		- maths/drawing equipment propellers protective colloids	preservatives printed material scientific/technical equipment machine parts coatings
pot plant holders pot pourri pottery preservatives printed material printing agents propellers	- - printing agents - - protective skin creams pulleys	- - maths/drawing equipment propellers	preservatives printed material scientific/technical equipment machine parts

Products Used In	Narrow Term	Broader Term	Broadest Term
punishment aids	<del>-</del>	punishment aids	weapons
punt poles	punt poles	boat/ship parts	vehicles
purifiers (non-water)	-	purses	purifiers (non-water) containers/holders
purses	-	quivers	weapons
quivers ( rafts		rafts	vehicles
railway sleepers	railway sleepers	railways	constructions
railways	-	railways	constructions
rakes	-	rakes	tools
razor strops	-	razor strops	personal items
rims	-	rims	wheels
rivets	-	rivets	fasteners/closures
road grit	road grit	roads	constructions
roads	-	roads	constructions
rollers	-	rollers	tools
roofs	-	1-	roofs
ropes		- Constitution of the cons	ropes
rosaries	rosaries	'jewellery'/personal adornment	personal items vehicles
rowlocks	rowlocks rubbed idiophones	boat/ship parts idiophones	musical instruments
rubbed idiophones rudders	rubbed idiophones rudders	boat/ship parts	vehicles
rudgers	rudgers	maths/drawing equipment	scientific/technical equipment
rulers sabres	-	sabres	weapons
sacks		sacks	containers/holders
saddles	l -	saddles	harnesses/tack
sails	sails	boat/ship parts	vehicles
sandals	sandals	footwear	clothing
sandpaper substitutes	-	sandpaper substitutes	abrasives
sashes/blinds	-	sashes/blinds	furnishings
sawdust-magnesite floors	-	sawdust-magnesite floors	floors
scabbards/sheaths	-	scabbards/sheaths	weapons
scaffolding	-	scaffolding	tools
scientific/technical equipment	] -	ļ <del>-</del>	scientific/technical equipment
screens	-	screens	walls
screws	-	screws	fasteners/closures
seating		seating	furniture
set squares	set squares	maths/drawing equipment	scientific/technical equipment
sewage deodorants	-	sewage deodorants needles	deodorants tools
sewing needles	sewing needles	shampoo	cleansers
shampoo shaving creams		shaving creams	cosmetics
sheds	sheds	outbuildings	buildings
shelves	-	shelves	joinery
shields	-	shields	weapons
shingles	-	shingles	roofs
shoe trees	-	shoe trees	containers/holders
shoemaker's lasts	-	shoemaker's lasts	tools
shoes	1	footwear	clothing
shutters	<del>-</del>	shutters	joinery
shuttles	-	shuttles	tools
sieves	aimala abandanbana	sieves	tools
simple chordophones	simple chordophones singing membranes	chordophones membranophones	musical instruments musical instruments
singing membranes sizing agents	- anymy membranes	sizing agents	coatings
sizing agents ski stocks		ski stocks	sports equipment
skin cosmetics	-	skin cosmetics	cosmetics
skin darkeners/tans	skin darkeners/tans	skin cosmetics	cosmetics
skin lighteners	skin lighteners	skin cosmetics	cosmetics
skin lotions/creams	skin lotions/creams	skin cosmetics	cosmetics
skirtings	-	skirtings	joinery
sledges	-	sledges	vehicles
slings	] ·	slings	medical accessories
slippers	slippers	footwear	clothing
smoker's equipment		smoker's equipment	personal items
snooker/billiard cues	snooker/billiard cues	sports sticks/clubs/cues	sports equipment
snooker/billiard tables	1:	snooker/billiard tables snuff boxes	sports equipment personal items
snuff boxes	1.	soap	cleansers
soap soap substitutes	<u> </u>	soap substitutes	cleansers
soap substitutes spacecraft	l -	spacecraft	vehicles
spaceciant spear shafts	spear shafts	spears	weapons
spears		spears	weapons
spectacle cases	l -	spectacle cases	personal items
splints	-	splints	medical accessories
spokes	-	spokes	wheels
sponge substitutes		sponge substitutes	personal items
spoons	-	spoons	tools
sports bats/racquets	-	sports bats/racquets	sports equipment
sports equipment	-	1.	sports equipment
sports nets	-	sports nets	sports equipment

		Τ	T
Products Used In	Narrow Term	Broader Term	Broadest Term
sports sticks/clubs/cues	-	sports sticks/clubs/cues	sports equipment
sports tables	-	sports tables	sports equipment
stables	stables	outbuildings	buildings
stairs/fixed steps		stairs/fixed steps	joinery
standard gold weights	standard gold weights	weights	tools
stiffeners (for clothes)	-	stiffeners (for clothes)	coatings
stinging crystals	-	stinging crystals	weapons
stools	stools	seating	furniture
straps stretchers	_	straps stretchers	containers/holders
strings (for musical instruments)	strings (for musical	stretchers	medical accessories
othings (for intesical instruments)	instruments)	composite chordophones	musical instruments
struck drums	struck drums	membranophones	musical instruments
struck idiophones	struck idiophones	idiophones	musical instruments
surgical implements	-	surgical implements	tools
surgical powder	l -	surgical powder	medical accessories
table tops	table tops	tables	furniture
tables	-	tables	furniture
tatooing spines	-	tatooing spines	tools
tattoos	tattoos	skin cosmetics	cosmetics
telegraph poles	-	telegraph poles	constructions
temporary shelters	-	temporary shelters	buildings
tennis racquets	tennis racquets	sports bats/racquets	sports equipment
tent frames	tent frames	tents	buildings
tent pegs	<del>-</del>	tent pegs	tools
tents	<u> </u>	tents	buildings
textile waterproofing	textile waterproofing	waterproofers	coatings roofs
thatching spars	- 4b:	thatching spars paints/varnishes/thinners	
thinners throwing sticks/boomerangs	thinners	throwing sticks/boomerangs	coatings weapons
tiles		tiles	roofs
toilet 'paper'		toilet 'paper'	personal items
tongs	_	tongs	tools
tool handles	_	tool handles	tools
tools	-	-	tools
tooth blackeners	-	tooth blackeners	personal items
tooth cleaners	-	tooth cleaners	personal items
toothbrushes	toothbrushes	tooth cleaners	personal items
toothpaste/dentrifice	-	toothpaste/dentrifice	cleansers
torches	-	torches	illuminants
torches	-	torches	tools
toys/games	-		toys/games
trailers	-	trailers	vehicles vehicles
train carriages	<del>-</del>	train carriages traps/snares	weapons
traps/snares   trays	[ ]	trays	containers/holders
troughs		troughs	containers/holders
trunks/cases	_	trunks/cases	containers/holders
tunnels/subways	_	tunnels/subways	constructions
umbrellas/parasols	-	umbrellas/parasols	personal items
varnishes	varnishes	paints/varnishes/thinners	coatings
vehicles	-	-	vehicles
vinyl resin emulsions	-	vinyl resin emulsions	coatings
wagons/carts	-	wagons/carts	vehicles
walking sticks	-	walking sticks	personal items
wall hangings	-	wall hangings	furnishings
walls	·	- -	walls
wardrobes	<del>-</del>	wardrobes	furniture
water pipes	[ <del>-</del>	water pipes waterproofers	joinery coatings
waterproofers wattles/laths	[ -	wattles/laths	walls
watties/latris	_	-	weapons
weather boards	_	weather boards	walls
weather forecasters	-	weather forecasters	tools
weaver's beams	-	weaver's beams	tools
weights	-	weights	tools
wells	-	wells	constructions
wheels	-	1	wheels
whipple trees	-	whipple trees	harnesses/tack
whips	<del>-</del>	whips	weapons
whisks		whisks	tools
windmills window frames	windmills	outbuildings window frames	buildings
window frames wood adhesives	1 -	wood adhesives	joinery adhesives
wood adnesives work surfaces	l <u>-</u>	word adnesives work surfaces	joinery
wrappers	_	wrappers	containers/holders
wreaths	-	wreaths	personal items
yokes		yokes	harnesses/tack
,0,00	<u> </u>	1 , 2	

# APPENDIX E: BODY PARTS AND PROCESSES

TABLE 49. Master List of Body Parts and *Processes*.

chromosomes	pancreas	menstruation
DNA	parotid	nipples
RNA	peritoneum	ovaries
INA	rectum	oviduct
BLOOD SYSTEM		ovulation
	rumen	
agglutination	salivary glands	pelvic cellular tissue
blood	small intestine	penis
bone marrow	soft palate	perineum
coagulation	stomach	placenta
erythrocytes	teeth	post menopause
fibrinolysis	tongue	prostate
leukocytes	uvula	scrotum
plasma		semen
platelet aggregation	ENDOCRINE SYSTEM	seminal vesicles
platelets	adrenal gland	sperm
spleen	glands	spermatic chord
	growth	testes
CIRCULATORY SYSTEM	hypothalamus	ureter
aorta	islet cells of Langerhans	urethra
arteries	parathyroid	urinary tract
arterioles	pineal gland	urination
blood pressure	pituitary	uterine ligament
blood vessels	sexual development	uterine mucosae
capillaries	thymus	uterus
carotid	thyroid	vagina
cerebrovascular circulation		vaginal mucosae
endocardium	GENITOURINARY SYSTEM	vas deferens
epicardium	areola	vulva
heart	Bartholin's gland	
heart beat	bladder	IMMUNE SYSTEM
myocardium	breasts	lymph
pericardium	cervix	lymph glands
pulmonary circulation	climacterium	lymph nodes
valves of heart	clitoris	lymph vessels
veins	copulation	lymphocytes
	corpus luteum	,,,
DIGESTIVE SYSTEM	eggs	METABOLIC SYSTEM
abdomen	ejaculatory duct	amino acid metabolism
anal canal	epididymis	amino acid transport
anus	Fallopian tubes	calcium metabolism
appendix	female breasts	carbohydrate metabolism
bile duct	female fertility	carbohydrate transport
caecum	female genitals	copper metabolism
colon	foreskin	energy metabolism
duodenum	genital tract	enzyme activity
gall bladder	germ cells	fluid, electrolyte and acid balance
gums	glans penis	iron metabolism
hard palate	hymen	lipoid metabolism
ileum	implantation	magnesium metabolism
intestine	kidney cells	mineral metabolism
	1 '	phosphorous metabolism
jejunum large intestine	kidneys Iabia	plasma protein synthesis
	libido	
lips		porphyria metabolism
liver	male breasts	purine and pyrimidine metabolism
mesenteric glands	male fertility	sweating
mouth	male genitals	temperature regulation
oesophagus	menopause	

MUSCULAR-SKELETAL SYSTEM

ankles arms back body bones bursa cartilages chest clavicles coccyx

connective tissues

elbows
extremities
face
fascia
fatty tissues
feet
fingers
hands
head

histiocytes intervertebral discs

hips

jaws
joints
knees
legs
ligaments
limbs
lower limbs
lumbar region
mandible
mast cells
maxilla
muscles

muscles neck pelvis ribs sacroiliac region

sacrum shoulders skeletal muscles skull

smooth muscles soft tissues spine sternum synovia tendons thighs toes upper limbs

vertebrae wrists

**NERVOUS SYSTEM** 

autonomous nervous system

brain brain stem

central nervous system cerebral meninges

cerebrum cranial nerves facial nerves frontal lobe of brain

ganglia intercranial region meninges motor nerves nerve roots nerves

neurotransmitters occipital lobe of brain

parasympathetic nervous system

parietal lobe of brain peripheral nerves

peripheral nervous system

sensory nerves spinal chord spinal meninges spinal plexus

sympathetic nervous system

temporal lobe of brain

ventricles

NUTRITION

PREGNANCY/BIRTH/PUERPERIUM

birth
labour
lactation
post partum
pregnancy
puerperium

RESPIRATORY SYSTEM

adenoids bronchi bronchioles diaphragm epiglottis glottis hypopharynx large cells of lung

larynx lungs mediastinum nasal tract nasopharynx nose oropharynx pharynx pleura

respiratory mucosae

respiratory mucos sinuses small cells of lung subglottis supraglottis thorax throat tonsils trachea

SENSORY SYSTEM

acoustic nerves auditory canals balance choroids ciliary bodies conjunctivae corneas eardrums

Eustachian tubes eye movements

eyelids
eyes
globes
hearing
inner ears
irises
lachrymal ducts
lachrymal glands
lachrymal system

lenses mastoids middle ears optic nerves orbits of eyes ossicles

pupils refraction and accommodation

retinas sclerae smell taste touch

outer ears

tympanic membranes

vision

vitreous bodies

SKIN/SUBCUTANEOUS CELLULAR TISSUE

beard
eyebrows
fur
groin
hair
hair follicles
hoofs
moulting
nails
navel
perianal area
scalp

sebaceous glands

skin

skin of specific areas subcutaneous cellular tissue

sweat glands

TABLE 50. Alphabetical list of Body Parts and Processes.

abdomen
acoustic nerves
adenoids
adrenal gland
agglutination
amino acid metabolism
amino acid transport

anal canal ankles anus aorta appendix areola arms arteries arterioles

auditory canals autonomous nervous system

back
balance

Bartholin's gland

beard bile duct birth bladder blood

blood pressure BLOOD SYSTEM blood vessels body bone marrow

bones
brain
brain stem
breasts
bronchi
bronchioles
bursa
caecum

calcium metabolism

capillaries

carbohydrate metabolism carbohydrate transport

carotid cartilages

central nervous system cerebral meninges

cerebrovascular circulation

cerebrum cervix chest choroids chromosomes ciliary bodies

CIRCULATORY SYSTEM

clavicles
climacterium
clitoris
coagulation
coccyx
colon
conjunctivae
connective tissues

copper metabolism

copulation corneas corpus luteum cranial nerves diaphragm

DIGESTIVE SYSTEM

DNA duodenum eardrums ears eggs

eggs ejaculatory duct elbows endocardium

ENDOCRINE SYSTEM

energy metabolism enzyme activity epicardium epididymis epiglottis erythrocytes Eustachian tubes extremities eye movements eyebrows eyelids eyes face

facial nerves
Fallopian tubes
fascia
fatty tissue

feet female breasts female fertility female genitals fibrinolysis

fingers fluid, electrolyte and acid balance

foreskin

frontal lobe of brain

fur gall bladder ganglia genital tract

GENITOURINARY SYSTEM

germ cells glands glans penis globes glottis groin growth gums hair

gums
hair
hair follicles
hands
hard palate
head
hearing
heart

heart beat

hips histiocytes hoofs hymen hypopharynx hypothalamus ileum

IMMUNE SYSTEM implantation inner ears intercranial region intervertebral discs

intestine

iron metabolism

islet cells of Langerhans

jaws jejunum joints kidney cells kidneys knees labia *labour* 

lachrymal ducts lachrymal glands lachrymal system

lactation

large cells of lung large intestine

larynx legs lenses leukocytes *libido* ligaments limbs

lipoid metabolism

lips liver lower limbs

lumbar region lungs lymph lymph glands lymph nodes lymph vessels lymphocytes

magnesium metabolism

male breasts
male fertility
male genitals
mandibles
mast cells
mastoid
maxilla
mediastinum
meninges
menopause
menstruation
mesenteric glands
METABOLIC SYSTEM

middle ears

mineral metabolism motor nerves moulting mouth muscles

MUSCULAR-SKELETAL SYSTEM

myocardium nails nasal tract nasopharynx navel neck nerve roots

nerves NERVOUS SYSTEM

NERVOUS SYSTEM neurotransmitters nipples

nose NUTRITION occipital lobe of brain oesophagus optic nerves

orbits of eyes oropharynx ossicles outer ears ovaries oviduct ovulation pancreas

parasympathetic nervous system

parathyroid

parietal lobe of brain

parotid

pelvic cellular tissue

pelvis
penis
perianal area
pericardium
perineum
peripheral nerves

peripheral nervous system

peritoneum

pharynx

phosphorous metabolism

pineal gland pituitary placenta plasma

. plasma protein synthesis platelet aggregation

platelets pleura porphyria metabolism post menopause post partum pregnancy

PREGNANCY/BIRTH/PUERPERIUM

prostate puerperium

pulmonary circulation

pupils

purine and pyrimidine metabolism

rectum

refraction and accommodation

respiratory mucosae RESPIRATORY SYSTEM

retinas
ribs
RNA
rumen
sacroiliac region
sacrum
salivary glands
scalp
sclerae
scrotum

sebaceous glands

semen seminal vesicles sensory nerves SENSORY SYSTEM

sexual development shoulders sinus

skeletal muscles

SKIN/SUBCUTANEOUS CELLULAR

TISSUE

skin of specific areas

skull

small cells of lung small intestine

smell

smooth muscles soft palate soft tissues sperm

spermatic chord spinal chord spinal meninges spinal plexus spine spleen sternum

stomach

subcutaneous cellular tissue

subglottis supraglottis sweat glands sweating

sympathetic nervous system

synovia taste

temperature regulation temporal lobe of brain

tendons
testes
thighs
thorax
throat
thymus
thyroid
toes
tongue
tonsils
touch
trachea

tympanic membranes

upper limbs
ureter
urethra
urinary tract
urination
uterine ligament
uterine mucosae

uterus uvula vagina

vaginal mucosae valves of heart vas deferens veins ventricles vertebrae

vitreous bodies

vulva wrists

vision

## **APPENDIX F: VERTEBRATE POISONS**

TABLE 51. Alphabetical list of Disorders Caused/Harmful Effects of Vertebrate Poisons.

abromalities abortifacient abortifacient abortifacient ashormatichia adenopathy agenesis albuminuria allergic parthritis allergic contract dematitis allergic contract dematitis allergic contract dematitis allergic parthritis amount allergic parthritis allergic parthritis amount allergic parthritis allergic parthritis amount and allergic parthritis amount				
abortifacient sporeses extracts aborases exertionaturità sadenopathy chille admonstrichia adenopathy chille admonstrichia admonstativa contractiva delirità collisi allergic cottine di circulatori extractiva collisi allergic cottine di circulatori extractiva collisi allergic contract damattis allergic contract damattis allergic contract damattis allergic contract damattis allergic contract damattis allergic contract damattis allergic contract damattis allergic production allergic unticaria allergic production allergic unticaria allergic production allergic unticaria anyotrophic lateral sclerosis congestion contractions anabolic contractions constipation contractions constipation contractions constipation contractions constipation contractions constipation convolations contractions haemotyris damaturia convolations anaesthetic coughs haemorrhages of pregnancy haemorrhages of pregnancy haemorrhages of pregnancy haemorrhages of pregnancy haemorrhages of pregnancy haemorrhages and/openic and/openic damitis desire		ahnarmalitica	caries	failure
abrocesses achromatrichia adanopathy agenesis albuminuria allergia cutties allergia contact darmatitia anamorrhosa ammesia ammorrhosa ammesia ammorrhosa ammesia anamorrhosa anamorrhosa anamorrhosa anamorrhosa anaphylactic shock anatopania anaphylactic shock anatopania anatocogunan anticogunan anticogu		7		
achromatrichia denopathy agenesis cholesceic chilis cholesceic silminuris alergic arthritis cholesceic cholesceic salergic arthritis cholesceic cholesceic salergic arthritis cholesceic salergic arthritis cholesceic salergic arthritis cholesceic salergic arthritis cholesceic salergic arthritis cholesceic salergic printist (non-pollen) allergic urticaris cocians dependence colic cocians allergic printists (non-pollen) allergic urticaris cocians dependence colic command arthritis salergic particular season confusion contact demartitis context demartitis dearners deformities dearners deformities dearners deformities dearners deformities dearners deformities dearners deformities demartitis du deformities demartitis du demartitis context demartitis demart				<u> </u>
adenopathy agenesis abuminuris allergic atthritis allergic atthritis allergic contact dematitis allergic protection of the contact of the			•	
alpumiuria allergic arthritis cholestazis cholestazis cholestazis allergic arthritis allergic cotitis allergic arthritis allergic cotitis allergic cotitis allergic cotitis allergic practions allergic cotitis allergic practions of cottage dependence coticis allergic practions of cottage dependence coticis allergic reactions of cottage and contage allergic ribinitis (non-pollar) command congestion confusion confusion confusion confusion confusion confusion context dermatitis contract dermatitis contract dermatitis contract dermatitis contractions ammesia amotorito contract dermatitis contractions contract dermatitis contractions analogic contract dermatitis contractions contract dermatitis contractions analogic contract dermatitis contractions contract dermatitis contractions contract dermatitis contractions analogicate contract dermatitis contractions contract dermatitis contractions analogicate contract dermatitis contractions contract dermatitis contractions contract dermatitis contractions contract dermatitis contractions analogicate contract dermatitis contractions contract dermatitis contractions contract dermatitis contractions contract dermatitis contractions contract dermatitis contractions contract dermatitis definition despetite suppressant desirum devilum desirum analogicate deponention desirum				
albuminuria allergia arthritis allergia carthritis allergia carthritis allergia contract dermatitis allergia contract dermatitis allergia patrometritis apartitis patrometritis apartitis patrometritis annotatione annota		• •		
allergic arthritis allergic colitis allergic contact dermattite allergic contact dermattite allergic contact dermattite allergic contact dermattite allergic practions allergic practions allergic intrictis (non-pollen) allergic triticaria althelineriz disease amounthosa amenerinos amenerinos amounthosa amenerinos amounthosa amenerinos amounthosa amoun		=	· ·	
allergic asthma allergic colitis allergic contact dermatitis allergic cortact dermatitis allergic gastroenteritis allergic gastroenteritis allergic gastroenteritis allergic patroenteritis allergic practions allergic inthitis (non-pollen) allergic urticaria atherimers diseases ambiyopia amenorinoea amanopialio amanopialio ananopialio ananopi				
allergic coultact allergic contact dematitis allergic contact dematitis allergic contact dematitis allergic reactions allergic irrections allergic irribitis (non-pollen) allergic irribitis (non-pollen) allergic irribitis (non-pollen) allergic irribitis (non-pollen) allergic irribitis (non-pollen) allergic irribitis (non-pollen) allergic irribitis (non-pollen) allergic irribitis (non-pollen) allergic irribitis (non-pollen) allergic irribitis (non-pollen) allergic irribitis (non-pollen) amenorrhoea amneis amotyrophic lateral sclerosis anabitic anabitis anabitis anabitis anaphrodisiae anaphrodisiae anaphrodisiae anaphrodisiae anaphrodisiae anaphrodisiae anaphrodisiae anaphrodisiae anaphrodisiae antiperspirant definition antiperspirant definition definition antiperspirant definition definit		•		
allergic contact dematitis allergic gastronteritis allergic patronteritis allergic patronteritis allergic intitist (non-pollen) amphyrositist (non-pollen) annobler (non-pollen) annoble (non-pollen) anno				•
allergic gastroenteritis allergic reactions allergic trinitis (non-pollen) amenorineae amenorineae amenorineae anaphradisiae			_	
allergic reactions allergic tribitis (non-pollen) gattric ulders gentourinary system disorders gout (non-pollen) glaucoma glucostdase inhibitor gout port (non-pollen) allergic tribitis (non-pollen) glaucoma glucostdase inhibitor gout pour demandis (non-pollen) allergic tribitis (non-pollen) anabolic consensitis (non-pollen) anabolic consensitis (non-pollen) harmonopolic (non-poll				_
allergic rhinitis (non-pollen) allergic unicaria alcheimers disease amblyole) amenorrhoes amenorrhoes amenorrhoes amenorrhoes ananesia anaesia anaesia anaesia anaesthetic analgesic anaphylactic shock androgenic anaphylactic shock androgenic anolyosis anaoliosia anolyosis anaticoziganic anticozigania deformities degeneration deformities degeneration deformities degeneration delirium delusion anticozidant depressant depressant appetite suppressant				•
allergic urticaria alzheimere disease amblyopia congenital abnormalities congenital abnormalities glaucoma glucosidase inhibitor gotte amenorrheoa amnesia anystrophic lateral sclerosis anabolic contactions contractions contractions contractions anaemia anaesthetic contractions conductions conduct dermatitis contractions anaphylatetic shock analphylatetic shock analphylatetic shock androgenic dandruff definese anticoagulant anticoagu		· ·	· ·	_
alzheimers disease amblyopia amenorrhoea amnensia amenorrhoea amnesia anapotrophic lateral sclerosis anabolic anaemia anaesthetic analgesic anaphylactic shock androgenic ankylosis anaticoagulant anticoagulant anticoagulant anticoagulant anticoagulant antipoagulant ant			comas	genitourinary system disorders
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/continued over

 $<sup>^1\!\!\!^{\</sup>rm use}$  for accidental poisonings only; for active use as an abortifacient see SOCIAL USES  $^2\!\!\!^{\rm see}$  MATERIALS for cosmetic depilatories

labour induction lactation stimulant

lathyrism
lathyrism
laxative
lesions
leukaemias
leukorrhoea
lichen
low vision

low vision lupus erythrematosus malaise/fatigue male infertility male sterility malignant neoplasms

mania medicine poisoning menorrhagia

mental disability metabolic system disorders

mental disorders
metrorrhagia
migraines
miotic
miscarriages
mitotic

muscle relaxant muscle stimulant

muscular-skeletal system disorders

mutagenic mydriatic myopathy mystagmus narcolepsy narcotic natriuretic nausea necrosis

neoplasms of uncertain behaviour

neoplasms nerve injury

nervous breakdowns nervous excitement nervous system disorders nicotine dependence

nightmares

non-dependent drug abuse

noxious foods nutritional disorders obstructions

oedema
oestrogenic
oligomennorhoea
oligospermy
oligurea
organ failure

organic impotence osteoporosis oxidase inhibitor

pain
palsy
panic
paralysis
paranoia
Parkinson's disease

peptic ulcers photosensitivity pigmentation pneumonia poisonings pollakiuria polycythemia polyps

polyuria
pregnancy/birth/puerperium disorders

pre-menstrual syndrome premature ejaculation primary malignant neoplasms

prolapse

proteinase inhibitor

purgative
pustules
rashes
refrigerant
relaxant
repellent

respiratory system disorders respiratory stimulant retina vascular changes

retinopathy scars

secondary malignant neoplasms

sedative

sensory system disorders

shock sialaporia sialism

skin/subcutaneous cellular

tissue disorders

snoring sores spasms sprains squints steroidal stimulant stings stricture

superficial injuries

teratogenic thorn/splinter injuries

tinnitus tranquilliser trauma (psychic) trembling

trypsin inhibitor ulcers unspecified neoplasms

urethral leakage
urinary incontinence
urinary retention
urticaria
uterine relaxant
varicose veins
vascular anomalies
vasoconstriction
vasodilation
visual disturbance
vitiligo

vitiligo
voice loss
vomiting
warts
weight loss
whitlows
wounds

## **APPENDIX G: MEDICINES**

TABLE 52. Alphabetical list of medicinal terms showing the accepted states for Level 3 (Disorders Treated/*Medicinal Effects* or Body Parts/*Processes* Treated) and related **Level 2** states.

## **KEY TO TABLE 52**

Column 1: Terms with \* are non-accepted terms (the adjacent columns show how these terms should be coded). Terms with no asterisk are accepted states. Terms in bold are Level 2 states.

Column 3: Interpretation of numbers in Body Parts/Processes Treated.

- 1. Select relevant Body Part state from Table 33 if necessary.
- 2. Select relevant states from Body Parts/*Processes* within Circulatory System Disorders if this adds information.
- 3. Select relevant states from Body Parts within Digestive System Disorders if this adds information.
- 4. No Level 3 Body Parts/Processes need to be specified.
- Select relevant states from Body Parts within Muscular-Skeletal System Disorders if this adds information.
- 6. Select relevant states from from Body Parts within Nervous System Disorders if this adds information.
- 7. Select relevant states from Body Parts/*Processes* within **Respiratory System Disorders** if this adds information.
- 8. Select relevant states from Body Parts/Processes within Skin/Subcutaneous Cellular Tissue Disorders.

Column 3: Interpretation of abbreviations of Body Parts/Processes Treated.

BS - Blood System, CS - Circulatory System, DS - Digestive System, ES - Endocrine System, GS - Genitourinary System, IS - Immune System, MSS - Muscular-Skeletal System, NS - Nervous System, RS - Respiratory System, SS - Sensory System, SST - Skin/Subcutaneous Cellular Tissue.

Medicinal Terms (both accepted)	Level 3 — Disorders Treated/Medicinal Effects 1	Level 3 — Body Parts/ <i>Processes</i> Treated <sup>2</sup>	Level 2 states
abdomen Abnormalities <sup>3</sup>	-	abdomen	Digestive System Disorders Abnormalities
abortions*	miscarriages	pregnancy	Pregnancy/Birth/Puerperium Disorders
abrasions*	superficial injuries	1	Injuries
abscesses	abscesses	1	Injuries
acariasis*	chiggers	1	Infections/Infestations
acariasis*	scabies	1	Infections/Infestations
achromatrichia	achromatrichia	hair	Skin/Subcutaneous Cellular Tissue Disorders
acidosis	acidosis	fluid, electrolyte and	
		acid balance	Metabolic System Disorders
acne	acne	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
acoustic nerves	-	acoustic nerves	Sensory System Disorders
acquired deformities	acquired deformities	5	Muscular-Skeletal System Disorders
actinomycosis	actinomycosis	1	Infections/Infestations
adaptogenic	adaptogenic	4	Mental Disorders
adenoids	-	adenoids	Respiratory System Disorders
adenoma*	benign neoplasms	1	Neoplasms
adenopathy	adenopathy	4	III-Defined Symptoms
adenoviral infections	adenoviral infections	1	Infections/Infestations
adrenal gland	-	adrenal gland	Endocrine System Disorders
agenesis	agenesis	1	Abnormalities
agglutination	-	agglutination	Blood System Disorders
AIDS	AIDS	1	Infections/Infestations
air pressure (excessive)*	excessive air pressure	4	Poisonings
albuminuria	albuminuria	urination	Genitourinary System Disorders
alcohol dependence	alcohol dependence	4	Mental Disorders
alcohol intoxication*	intoxication due to		
	alcohol	4	Poisonings
alcohol poisoning	alcohol poisoning	4	Poisonings
alcoholic psychoses	alcoholic psychoses	4	Mental Disorders

words in italics correspond to effects of medicines, words in Roman refer to disorders that are treated

2words in italics correspond to processes that are treated, words in Roman correspond to body parts that are treated

<sup>&</sup>lt;sup>3</sup>where type of abnormality is not specified, the use is coded under the relevant Level 2 state (e.g. Muscular-Skeletal System Disorders), not under Abnormalities

	T		
Medicinal Terms (both	Level 3 — Disorders	Level 3 — Body	Level 2 states
accepted and non-accepted)	Treated/Medicinal	Parts/Processes	2555, 2 56465
	Effects 1	Treated <sup>2</sup>	}
alkalosis	alkalosis	fluid electrolyte and	
aikaiosis	aikaiosis	fluid, electrolyte and acid balance	Metabolic System Disorders
allergic arthritis	allergic arthritis	5	Muscular-Skeletal System Disorders
allergic asthma	allergic asthma	-	Respiratory System Disorders
allergic colitis	allergic colitis	3	Digestive System Disorders
allergic contact dermatitis	allergic contact		
	dermatitis	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
allergic gastroenteritis	allergic gastroenteritis	3	Digestive System Disorders
allergic reactions	allergic reactions	4	Poisonings
allergic rhinitis (non-pollen)	allergic rhinitis (non- pollen)		Boomingtons System Discussion
allergic urticaria	allergic urticaria	8, 1	Respiratory System Disorders Skin/Subcutaneous Cellular Tissue Disorders
allescheriosis	allescheriosis	1 1	Infections/Infestations
alopecia*	hair loss	hair	Skin/Subcutaneous Cellular Tissue Disorders
alveoli	-	alveoli	Respiratory System Disorders
alveolitis*	inflammation	alveoli, RS	Inflammation
Alzheimer's disease	Alzheimer's disease	6	Nervous System Disorders
amblyopia	amblyopia	vision	Sensory System Disorders
amenorrhoea	amenorrhoea	menstruation	Genitourinary System Disorders
amino acid metabolism	-	amino acid	Matabalia Sustana Diagram
amino acid transport	I	metabolism amino acid transport	Metabolic System Disorders Metabolic System Disorders
amino acid transport amnesia	amnesia	amino acid transport	Mental Disorders
amoebiasis	amoebiasis	1 1	Infections/Infestations
amoebic dysentery	amoebic dysentery	l i	Infections/Infestations
amoebic dysentery	amoebic dysentery	l i	Infections/Infestations
amphetamine dependence	amphetamine		
	dependence	4	Mental Disorders
amyloidosis	amyloidosis	4	Metabolic System Disorders
amyotrophic lateral sclerosis	amyotrophic lateral	l _	
	sclerosis	6	Nervous System Disorders
anabolic	anabolic	sexual development	Endocrine System Disorders Blood System Disorders
anaemia anaesthetic	anaemia anaesthetic	1	Pain
anal canal	-	anal canal	Digestive System Disorders
anal fissures	anal fissures	anus	Digestive System Disorders
analgesic	analgesic	<u> </u>	Pain
annelid worm infestations	analid worms		
	infestations	1 1	Infections/Infestations
anaphrodisiac	anaphrodisiac	libido	Genitourinary System Disorders
anaphylactic shock	anaphylactic shock	4 sexual development	Poisonings Endocrine System Disorders
androgenic angina	androgenic angina	2	Circulatory System Disorders
ankles	arigina	ankles	Muscular-Skeletal System Disorders
ankylosis	ankylosis	5	Muscular-Skeletal System Disorders
anodyne	anodyne	1	Pain
anomalies*	congenital abnormalities	1	Abnormalities
anorexia nervosa	anorexia nervosa	4	Mental Disorders
anoxic brain damage*	brain damage (anoxic)	brain	Nervous System Disorders
anterior horn cell disease	anterior horn cell	1	Name of the Pinns
and almindia	disease	6	Nervous System Disorders
anthelmintic	anthelmintic anthrax	4   1	Infections/Infestations Infections/Infestations
anthrax antibacterial	anthrax antibacterial	4	Infections/Infestations
antibiotic *4	antimicrobial	1 4	Infections/Infestations
anticoagulant	anticoagulant	coagulation	Blood System Disorders
antidepressant dependence	antidepressant		
	dependence	4	Mental Disorders
antifungal	antifungal	4	Infections/Infestations
antihistaminic	antihistaminic	4	Poisonings
antimicrobial	antimicrobial	4	Infections/Infestations
antioestrogenic	antioestrogenic	sexual development	Endocrine System Disorders
antioxidant	antioxidant	4	Nutritional Disorders
antiperspirant	antiperspirant	sweating 4	Metabolic System Disorders Infections/Infestations
antiprotozoal antiseptic <sup>5</sup>	antiprotozoal antiseptic	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
antiseptic - antiviral	antiviral	4	Infections/Infestations
	ll alluvil <b>a</b> l	1 '	1
	anuria	urination	I Genitournary System Disorders
anuria anus	anuria -	urination anus	Genitourinary System Disorders Digestive System Disorders
anuria	anuria - anxiety		
anuria anus	-	anus	Digestive System Disorders

 $<sup>^4</sup>_{\rm S}$  see also antiseptic and disinfectant in Skin/Subcutaneous Cellular Tissue Disorders  $^5_{\rm for}$  antimicrobial see also Infections/Infestations

Medicinal Terms (both	Level 3 — Disorders	Level 3 — Body	Level 2 states
accepted and non-accepted)	Treated/Medicinal Effects	Parts/ <i>Processes</i> Treated <sup>2</sup>	
appendicitis*	inflammation	appendix, DS	Inflammation
appendix	-	appendix	Digestive System Disorders
appetite stimulant	appetite stimulant	4	Nutritional Disorders
appetite suppressant	appetite suppressant	4	Nutritional Disorders
arachnid infestations	arachnid infestations	1	Infections/Infestations
arboviral infections	arboviral infections	1	Infections/Infestations
areola	1 -	areola	Genitourinary System Disorders
arms	<b>  </b> -	arms	Muscular-Skeletal System Disorders
arrhythmia	arrhythmia	heart beat	Circulatory System Disorders
arteries	<b> </b> -	arteries	Circulatory System Disorders
arterioles	-	arterioles 4	Circulatory System Disorders
arteriosclerotic dementia	ateriosclerotic dementia inflammation	arteries, CS	Mental Disorders Inflammation
arteritis* artherosclerosis	artherosclerosis	arteries, co arteries/arterioles/ capillaries	Circulatory System Disorders
arthopathy	arthopathy	5	Muscular-Skeletal System Disorders
arthritis	arthritis	5	Muscular-Skeletal System Disorders
arthropod infestations	arthropod infestations	1	Infections/Infestations
aspergillosis	aspergillosis	l i	Infections/Infestations
asphyxia	asphyxia		Respiratory System Disorders
asthenia	asthenia	5	Muscular-Skeletal System Disorders
asthma	asthma	-	Respiratory System Disorders
astigmatism	astigmatism	refraction and	1
•	11	accommodation	Sensory System Disorders
astringent	astringent	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
ataxia	ataxia	6	Nervous System Disorders
atrophy	atrophy	1	Abnormalities
auditory canals	<b> </b> -	auditory canals	Sensory System Disorders
autism	autism	4	Mental Disorders
autoimmune disease	autoimmune disease	4	Immune System
autonomous nervous system	-	autonomous nervous	
		system	Nervous System Disorders
azoospermy	azoospermy	male fertility	Genitourinary System Disorders
bacillary dysentery*	shigellosis	11	Infections/Infestations
back	1:	back	Muscular-Skeletal System Disorders
bacterial food poisoning*	food poisoning		
	(bacterial)	1	Infections/Infestations
bacterial infections	bacterial infections	1	Infections/Infestations
bacterial meningitis*	meningitis (bacterial)	1 1	Infections/Infestations
bacterial pneumonia*	pneumonia (bacterial)	   balance	Infections/Infestations
balantidiasis	balantidiasis	1	Sensory System Disorders Infections/Infestations
baldness	baldness	hair	Skin/Subcutaneous Cellular Tissue Disorders
barbiturate dependence	barbiturate dependence	4	Mental Disorders
Bartholin's gland	- Darbitarate dependence	Bartholin's gland	Genitourinary System Disorders
beard	1 -	beard	Skin/Subcutaneous Cellular Tissue Disorders
bed sores	bed sores	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
bee stings	bee stings	4	Poisonings
behaviour disturbances	behaviour disturbances	4	Mental Disorders
benign neoplasms	benign neoplasms	1	Neoplasms
beri beri	beri beri	4	Nutritional Disorders
bile duct	-	bile duct	Digestive System Disorders
biliousness	biliousness	3	Digestive System Disorders
binocular vision	binocular vision	vision	Sensory System Disorders
birth	-	birth	Pregnancy/Birth/Puerperium Disorders
birth marks*	benign neoplasms	blood vessels, CS	Neoplasms
bites (non-venomous)	bites (non-venomous)	1	Injuries
bladder	-	bladder	Genitourinary System Disorders
blastomycosis	blastomycosis	1	Infections/Infestations
blennorhagia	blennorhagia	1	Genitourinary System Disorders
blindness	blindness	vision	Sensory System Disorders
blisters	blisters	1 2	Injuries Digastiva System Disorders
bloat	bloat	3 blood	Digestive System Disorders
blood property	# <u> </u>	blood blood pressure	Blood System Disorders Circulatory System Disorders
blood pressure Blood System	N.	Jioou pressure	Blood System Disorders
blood System blood vessels	11.	blood vessels	Circulatory System Disorders
body	<b>II</b> -	body	Muscular-Skeletal System Disorders
boils	boils	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
bone marrow	-	bone marrow	Blood System Disorders
bones	-	bones	Muscular-Skeletal System Disorders
botulism	botulism	1	Infections/Infestations
bradycardia	bradycardia	heart beat	Circulatory System Disorders
brain	-	brain	Nervous System Disorders
brain compression	brain compression	brain	Nervous System Disorders

	T	T	
Medicinal Terms (both	Level 3 — Disorders	Level 3 - Body	Level 2 states
accepted and non-accepted)	Treated/Medicinal	Parts/Processes	Terror 2 states
	Effects 1	Treated <sup>2</sup>	
	<u> </u>		
brain stem		brain stem	Namena System Disardons
breasts		breasts	Nervous System Disorders Genitourinary System Disorders
breathlessness	breathlessness		Respiratory System Disorders
broad ligament*	-	uterine ligament	Genitourinary System Disorders
bronchi	1 -	bronchi	Respiratory System Disorders
bronchioles	-	bronchioles	Respiratory System Disorders
bronchiolitis*	inflammation	bronchiole, RS	Inflammation
bronchitis*	inflammation	bronchi, RS	Inflammation
bronchodilator	bronchodilator	bronchi	Respiratory System Disorders
brucellosis	brucellosis	1	Infections/Infestations
bruises	bruises	] 1	Injuries
bulimia	bulimia	4	Mental Disorders
burns	burns	1	Injuries
burns (internal)	burns (internal)	1	Injuries
bursa	#	bursa	Muscular-Skeletal System Disorders
bursitis*	inflammation	bursa, synovia, MSS	Inflammation
caecum	- L. J	caecum	Digestive System Disorders
calcium deficiency (dietary)	calcium deficiency	1.	Nutritional Discussions
anlaium matetelieur	(dietary)	4	Nutritional Disorders
calcium metabolism	- molleton	calcium metabolism	Metabolic System Disorders
calculus*	gallstones	gall bladder	Digestive System Disorders Genitourinary System Disorders
calculus*	kidney stones	kidneys urethra	Genitourinary System Disorders Genitourinary System Disorders
calculus* calluses	urethral stones calluses	urethra 8, 1	Skin/Subcutaneous Cellular Tissue Disorders
canuses cancer*	malignant neoplasms	°, '	Neoplasms
cancer* candidiasis	candidiasis	1	Infections/Infestations
cannabis dependence	cannabis dependence	4	Mental Disorders
cannabis dependence	capillariasis	intestine, DS	Infections/Infestations
capillaries	Capillariasis	capillaries	Circulatory System Disorders
carbohydrate metabolism	H [	carbohydrate	Onculatory Dystein Disorders
Carbonyurate metabonsm	-	metabolism	Metabolic System Disorders
asshabudesta transpart	_	carbohydrate	Metabolic System Disorders
carbohydrate transport	-	transport	Metabolic System Disorders
carbon monoxide poisonings	carbon monoxide	l transport	Wetabolio Oyatani Disolacis
carbon monoxide poisonings	poisonings	4	Poisonings
carbuncle	carbuncle	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
carcinomas in situ	carcinomas in situ	1 1	Neoplasms
carcinomas*	malignant neoplasms	l i	Neoplasms
cardiovascular stimulant	cardiovascular stimulant	2	Circulatory System Disorders
carditis*	inflammation	heart, CS	Inflammation
caries	caries	teeth	Digestive System Disorders
carminative	carminative	3	Digestive System Disorders
carotid	-	carotid	Circulatory System Disorders
cartilages		cartilages	Muscular-Skeletal System Disorders
cataracts	cataracts	eyes	Sensory System Disorders
catarrh*	inflammation	respiratory mucosae,	
outurn.	initianina assir	RS	Inflammation
cellulitis	cellulitis	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
central nervous system	-	central nervous	
contrai norvous system		system	Nervous System Disorders
cerebral malaria	cerebral malaria	1	Infections/Infestations
cerebral meninges	-	cerebral meninges	Nervous System Disorders
cerebrovascular circulation	II -	cerebrovascular	,
	I	circulation	Circulatory System Disorders
cerebrovascular haemorrhages	cerebrovascular	]	1
300	haemorrhages	1	Injuries
cerebrum	-	cerebrum	Nervous System Disorders
cerumen	cerumen	outer ears	Sensory System Disorders
cervical dilator	cervical dilator	cervix	Genitourinary System Disorders
cervicitis*	inflammation	cervix, GS	Inflammation
cervix	-	cervix	Genitourinary System Disorders
Chagas' disease	Chagas' disease	1	Infections/Infestations
chest	H -	chest	Muscular-Skeletal System Disorders
chicken pox	chicken pox	1	Infections/Infestations
chiggers	chiggers	1	Infections/Infestations
chigoe*	tungiasis	1 1	Infections/Infestations
chilblains	chilblains	extremities	Muscular-Skeletal System Disorders
childhood psychoses	childhood psychoses	4	Mental Disorders
chills	chills	4	Infections/Infestations
cholecystitis*	inflammation	gall bladder, DS	Inflammation
cholera	cholera	1	Infections/Infestations
choleretic	choleretic	gall bladder	Digestive System Disorders
cholestasis	cholestasis	bile duct	Digestive System Disorders
cholestatic	cholestatic	gall bladder	Digestive System Disorders
	II .	1 *	
cholesterolaemia*	hypercholesterolaemia	lipid metabolism	Metabolic System Disorders

Medicinal Terms (both accepted)	Level 3 — Disorders Treated/Medicinal	Level 3 — Body Parts/ <i>Processes</i>	Level 2 states
	Effects 1	Treated <sup>2</sup>	
choroids		choroids	Sensory System Disorders
choroiditis*	inflammation	choroids, SS	Inflammation
chromoblastomycosis	chromoblastomycosis	1	Infections/Infestations
ciliary bodies	-	ciliary bodies	Sensory System Disorders
Circulatory System	-	1	Circulatory System Disorders
cirrhosis	cirrhosis	liver	Digestive System Disorders
cladosporiosis	cladosporiosis	1	Infections/Infestations
clavicles	-	clavicles	Muscular-Skeletal System Disorders
climacterium	-	climacterium	Genitourinary System Disorders
clitoris	<b>∥</b>	clitoris	Genitourinary System Disorders
clots	clots	2	Circulatory System Disorders
clotting factor deficiency	clotting factor	1	l
	deficiency	coagulation	Blood System Disorders
coagulation	-	coagulation	Blood System Disorders
coat of retina*	<b>  -</b>	choroids	Sensory System Disorders
cocaine dependence	cocaine dependence	4	Mental Disorders
coccidiodomycosis	coccidiodomycosis	1 1	Infections/Infestations
coccidiosis	coccidiosis	1	Infections/Infestations
соссух	<b>I</b> -	соссух	Muscular-Skeletal System Disorders
colds	colds	1	Infections/Infestations
cold sores	cold sores	] 1	Infections/Infestations
colic	colic	3	Digestive System Disorders
colitis*	inflammation	colon, DS	Inflammation
collapse*	fainting	4	III-Defined Symptoms
colon	-	colon	Digestive System Disorders
colour blindness	colour blindness	refraction and	
	l l	accommodation	Sensory System Disorders
colour vision deficiency	colour vision deficiency	vision	Sensory System Disorders
comas	comas	4	III-Defined Symptoms
compulsive disorders*	obsessive disorders	4	Mental Disorders
confusion	confusion	4	Mental Disorders
congenital abnormalities	congenital abnormalities	1 1	Abnormalities
congestion	congestion		Respiratory System Disorders
conjunctivae	_	conjunctivae	Sensory System Disorders
conjunctivitis*	inflammation	conjunctivae, SS	Inflammation
connective tissues	_	connective tissues	Muscular-Skeletal System Disorders
constipation	constipation	intestine	Digestive System Disorders
contact dermatitis 6	contact dermatitis	8, 1	Skin/Subcutaneous Cellular Tissue Disorder
		I	
contractions	contractions	muscles	Muscular-Skeletal System Disorders
contusion*	bruises	1	Injuries
convulsions	convulsions	6	Nervous System Disorders
copper metabolism	1 -	copper metabolism	Metabolic System Disorders
copulation	-	copulation	Genitourinary System Disorders
corneas	1	corneas	Sensory System Disorders
corns*	calluses	8, 1	Skin/Subcutaneous Cellular Tissue Disorder
corpus luteum	<b>1</b>	corpus luteum	Genitourinary System Disorders
corrosives poisonings	corrosives poisonings	4	Poisonings
coughs	coughs		Respiratory System Disorders
cowpox	cowpox	1	Infections/Infestations
coxsackie infection	coxsackie infection	1	Infections/Infestations
crab lice infestations*	lice infestations	pubic hair, SST	Infections/Infestations
cramp	cramp	muscles	Muscular-Skeletal System Disorders
cranial nerves	<b>  -</b>	cranial nerves	Nervous System Disorders
creeping eruption	creeping eruption	intestine, DS	Infections/Infestations
Creutzfeldt Jakob disease	Creutzfeldt Jakob	l	i
	disease	1 1	Infections/Infestations
crushing injuries	crushing injuries	bones	Muscular-Skeletal System Disorders
cryopreservative	cryopreservative		Muscular-Skeletal System Disorders
cryptococcosis	cryptococcosis	1	Infections/Infestations
cryptosporidiosis	cryptosporidiosis	1	Infections/Infestations
cutaneous <i>larvae migrans*</i>	creeping eruption	intestine, DS	Infections/Infestations
cystic fibrosis	cystic fibrosis	4	Metabolic System Disorders
cystitis*	inflammation	bladder, GS	Inflammation
cysts	cysts	1	Abnormalities
cytotoxic	cytotoxic	-	Neoplasms
dacryoadenitis*	inflammation	lachrymal glands, SS	Inflammation
dacryocystitis*	inflammation	lachrymal duct, SS	Inflammation
dandruff	dandruff	scalp	Skin/Subcutaneous Cellular Tissue Disorder
deafness	deafness	hearing	Sensory System Disorders
defective psychoses	defective psychoses	4	Mental Disorders
deformities	deformities	7	Abnormalities
	degeneration	1	Abnormalities

 $<sup>^6</sup>$ due to detergents, oils and grease, solvents drugs and medicines, chemical products, food contact, plants etc.

Medicinal Terms thath	Level 3 Discurdant	Level 2 D- 4.	Lovel 2 etetes
Medicinal Terms (both accepted)	Level 3 — Disorders	Level 3 — Body	Level 2 states
accepted and non-accepted)	Treated/Medicinal Effects	Parts/ <i>Processes</i> Treated <sup>2</sup>	
dehydration	dehydration	fluid, electrolyte and acid balance	Metabolic System Disorders
delayed puberty	delayed puberty	sexual development	Endocrine System Disorders
delirium delusion	delirium	4	Mental Disorders
delusion dementia	delusion dementia	4 4	Mental Disorders Mental Disorders
demulcent	demulcent	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
dengue	dengue	1	Infections/Infestations
dental caries*	caries	teeth	Digestive System Disorders
deobstruent	deobstruent	1	Abnormalities
depilatory '	depilatory	hair	Skin/Subcutaneous Cellular Tissue Disorders
deposits	deposits	11	Abnormalities
<i>depressant</i> depression	depressant depression	4 4	Mental Disorders Mental Disorders
dermatitis	dermatitis	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
dermatitis due to internally	dermatitis due to	] ", "	- Ching a Boutanasas Canada Tiobas Biociacia
taken substances	internally taken		
	substances	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
detachment of retina	detachment of retina	retinas	Sensory System Disorders
detergent	detergent	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
<i>detoxicant</i> diabetes mellitus	detoxicant diabetes mellitus	4 4	Poisonings Endocrine System Disorders
diabetes insipidus	diabetes insipidus	pituitary	Endocrine System Disorders
diaphoretic	diaphoretic	sweating	Metabolic System Disorders
diaphragm	<b> </b> - '	diaphragm	Respiratory System Disorders
diarrhoea	diarrhoea	intestine	Digestive System Disorders
dientamoebiasis	dientamoebiasis	1	Infections/Infestations
digestive system	-	digestive system	Digestive System Disorders Infections/Infestations
dipetalonemiasis diphtheria	dipetalonemiasis diphtheria	11	Infections/Infestations
diplopia _	diplopia	vision	Sensory System Disorders
disinfectant <sup>8</sup>	disinfectant	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
dislocations	dislocations	joints, 5	Muscular-Skeletal System Disorders
displacement	displacement	1	Abnormalities
diuretic <sup>9</sup>	diuretic	urination	Genitourinary System Disorders
dizziness 10	dizziness	4	III-Defined Symptoms
dracontiasis*	guinea worm infection	intestine, DS	Infections/Infestations
drug dependence	drug dependence	4	Mental Disorders
drug intoxication*	intoxication due to drugs	4	Poisonings
drug psychoses	drug psychoses	4	Mental Disorders
duodenal ulcers	duodenal ulcers	small intestine/	·
	),	duodenum/	
		jejunum/ ileum	Digestive System Disorders
duodenitis*	inflammation	duodenum, DS	Inflammation
duodenum	- dwarfism	duodenum growth	Digestive System Disorders Endocrine System Disorders
dwarfism dysfunction	dysfunction	1	Abnormalities
dysmennorhoea	dysmennorhoea	menstruation	Genitourinary System Disorders
dyspareunia	dyspareunia	copulation	Genitourinary System Disorders
dysrhythmia	dysrhythmia	heart beat	Circulatory System Disorders
dystrophy	dystrophy	1	Abnormalities
dysuria	dysuria	urination	Genitourinary System Disorders Sensory System Disorders
eardrums early or threatened labour	early or threatened	eardrums	Sensory System Disorders
earry or timeatened labour	labour	pregnancy	Pregnancy/Birth/Puerperium Disorders
ears		ears	Sensory System Disorders
eczema	eczema	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
eggs	-	eggs	Genitourinary System Disorders
ejaculatory duct	<b> </b> -	ejaculatory duct	Genitourinary System Disorders
elbows	- ambaliam	elbows	Muscular-Skeletal System Disorders Circulatory System Disorders
embolism <i>emetic</i>	embolism emetic	2 3	Circulatory System Disorders   Digestive System Disorders
erneuc emmenagogue	emmenagogue	menstruation	Genitourinary System Disorders
emollient	emollient	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
emotional disturbances	emotional disturbances	4	Mental Disorders
emotional disturbances of	emotional disturbances	1.	l
			t na
adolescence emotional disturbances of	of adolescence emotional disturbances	4	Mental Disorders

<sup>7</sup> also see VERTEBRATE POISONS; and see MATERIALS for cosmetic depilatories 8 for antimicrobial see also Infections/Infestations 9 often relates to Circulatory System Disorders 10 non-Menière's/vertiginous

Medicinal Terms (both accepted)	Level 3 — Disorders Treated/ <i>Medicinal</i> <i>Effects</i>	Level 3 — Body Parts/ <i>Processes</i> Treated <sup>2</sup>	Level 2 states
emphysema	emphysema	lungs	Respiratory System Disorders
encephalitis (viral)	encephalitis (viral)	1	Infections/Infestations
encephalitis*	inflammation	brain, NS	Inflammation
encephalomyelitis*	inflammation	brain, spinal chord,	
		NS	Inflammation
encephalopathy	encephalopathy	brain	Nervous System Disorders
endocarditis*	inflammation	endocardium	Inflammation
endocardium	<b>1</b> -	endocardium	Circulatory System Disorders
endocrine system	·	endocrine system uterine mucosae, GS	Endocrine System Disorders Inflammation
endometriosis* endometrium*	inflammation	uterine mucosae, do	Genitourinary System Disorders
energy metabolism		energy metabolism	Metabolic System Disorders
enlarged lymph glands *	adenopathy	4	III-Defined Symptoms
enlargement*	hypertrophy		Abnormalities
enteritis*	inflammation	l bs	Inflammation
enteroviral infections	enteroviral infections		Infections/Infestations
enzyme activity	-	enzyme activity	Metabolic System Disorders
enzyme inhibitor	enzyme inhibitor	enzyme activity	Metabolic System Disorders
epicardium	-	epicardium	Circulatory System Disorders
epidemic meningitis*	meningitis (bacterial)	1	Infections/Infestations
epididymitis*	inflammation	epididymis, GS	Inflammation
epididymis	-	epididymis	Genitourinary System Disorders
epiglottis	-	epiglottis	Respiratory System Disorders
epilepsy	epilepsy	6	Nervous System Disorders
erysipelas	erysipelas	1	Infections/Infestations
erythema	erythema	8, 1	Skin/Subcutaneous Cellular Tissue Disorder
erythrocytes	-	erythrocytes	Blood System Disorders
euphoriant	euphoriant	4	Mental Disorders
Eustachian tubes	<b>∥</b>	Eustachian tubes	Sensory System Disorders
excessive air pressure	excessive air pressure	4	Poisonings
excessive light	excessive light	4	Poisonings
expectorant extremities	expectorant	extremities	Respiratory System Disorders
extrinsic allergic alveolitis 11	extrinsic allergic	extientities	Muscular-Skeletal System Disorders
extrinsic allergic alveolitis	alveolitis	1.	Respiratory System Disorders
eyeballs*	alveolitis	globes	Sensory System Disorders
eyebrows	1 -	eyebrows	Skin/Subcutaneous Cellular Tissue Disorder
eyelids	II -	eyelids	Sensory System Disorders
eye movements	<b>I</b> -	eye movements	Sensory System Disorders
eyes	-	eyes	Sensory System Disorders
face	-	face	Muscular-Skeletal System Disorders
facial nerves	<b>!</b> -	facial nerves	Nervous System Disorders
failure	failure	1	Abnormalities
fainting	fainting	4	III-Defined Symptoms
Fallopian tubes	-	Fallopian tubes	Genitourinary System Disorders
farmer's lung*	inflammation	alveoli, RS	Inflammation
fascia	-	fascia	Muscular-Skeletal System Disorders
fatty tissue	1.	fatty tissue	Muscular-Skeletal System Disorders
favus	favus	1 .	Infections/Infestations
feet	-	feet	Muscular-Skeletal System Disorders
female breasts	-	female breasts	Genitourinary System Disorders
female fertility	-	female fertility	Genitourinary System Disorders
female genitals	famala infamilia.	female genitals	Genitourinary System Disorders
female infertility	female infertility	female fertility	Genitourinary System Disorders
female sterility	female sterility	female fertility	Genitourinary System Disorders
fertility (female) * fertility (male) *	1	female fertility male fertility	Genitourinary System Disorders Genitourinary System Disorders
fever	fever	4	Infections/Infestations
fibrillation	fibrillation	muscles	Muscular-Skeletal System Disorders
fibrinolysis	-	fibrinolysis	Blood System Disorders
fibroids*	benign neoplasms	smooth muscle, MSS	Neoplasms
filariasis	filariasis	1	Infections/Infestations
fingers		fingers	Muscular-Skeletal System Disorders
fistula	fistula	1	Abnormalities
flagellate protozoa infections	flagellate protozoa		
	infections	1	Infections/Infestations
flat feet	flat feet	feet	Muscular-Skeletal System Disorders
flatulence	flatulence	3	Digestive System Disorders
flea infestations	flea infestations	1	Infections/Infestations
fluid, electrolyte and acid	-	fluid, electrolyte and	
balance		acid balance	Metabolic System Disorders
fluid overload	fluid overload	fluid, electrolyte and	
	<b>W</b>	acid balance	Metabolic System Disorders
fluke infections	fluke infections	1	Infections/Infestations

 $<sup>^{11}\</sup>mathrm{due}$  to dust, fungi, including actinomycetes, etc.

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Medicinal Terms (both accepted and non-accepted)	Level 3 — Disorders Treated/ <i>Medicinal</i> Effects 1	Level 3 — Body Parts/ <i>Processes</i> Treated <sup>2</sup>	Level 2 states
fly infestations*	myiasis	1	Infections/Infestations
food poisoning (bacterial)	food poisoning	i	
foot and mouth	(bacterial) foot and mouth	1	Infections/Infestations Infections/Infestations
foreign bodies	foreign bodies	1	Injuries
foreskin	- -	foreskin	Genitourinary System Disorders
fractures free radical scavenger	fractures  free radical scavenger	bones 4	Muscular-Skeletal System Disorders Nutritional Disorders
frontal lobe of brain	-	frontal lobe of brain	Nervous System Disorders
frostbite	frostbite	extremities	Muscular-Skeletal System Disorders
fungal infections fur	fungal infections	1 fur	Infections/Infestations Skin/Subcutaneous Cellular Tissue Disorders
furuncle*	carbuncle	8, 1	Skin/Subcutaneous Cellular Tissue Disorders  Skin/Subcutaneous Cellular Tissue Disorders
galactorrhoea	galactorrhoea	lactation	Pregnancy/Birth/Puerperium Disorders
gall bladder		gall bladder	Digestive System Disorders
gallstones	gallstones	gall bladder	Digestive System Disorders Nervous System Disorders
ganglia gangrene	gangrene	ganglia 2	Circulatory System Disorders
gas gangrene	gas gangrene	1	Infections/Infestations
gastric ulcers	gastric ulcers	stomach	Digestive System Disorders
gastritis*	inflammation	stomach, DS DS	Inflammation
gastroenteritis* gastro-jejunal ulcers	inflammation gastro-jejunal ulcers	3	Inflammation Digestive System Disorders
genital tract	-	genital tract	Genitourinary System Disorders
Genitourinary System	-	Genitourinary	
	1 .	System	Genitourinary System Disorders
geophagy* germ cells	pica _	4 germ cells	Mental Disorders Genitourinary System Disorders
giardiasis	giardiasis	1	Infections/Infestations
gigantism	gigantism	growth	Endocrine System Disorders
gingivitis*	inflammation	gums, DS	Inflammation
glanders	glanders	1 glands	Infections/Infestations Endocrine System Disorders
glands glans penis	[.	glans penis	Genitourinary System Disorders
glaucoma	glaucoma	eyes	Sensory System Disorders
globes	J	globes	Sensory System Disorders
glossitis*	inflammation	tongue, DS glottis	Inflammation Respiratory System Disorders
glottis glucosidase inhibitor	glucosidase inhibitor	enzyme activity	Metabolic System Disorders
gnathostomiasis	gnathostomiasis	1	Infections/Infestations
goitre	goitre	thyroid	Endocrine System Disorders
gonorrhoea	gonorrhoea	1 purine and pyrimidine	Infections/Infestations
gout	gout	metabolism	Metabolic System Disorders
gouty arthritis	gouty arthritis	5	Muscular-Skeletal System Disorders
groin	-	groin	Skin/Subcutaneous Cellular Tissue Disorders
growing pains	growing pains	4	III-Defined Symptoms
growth guinea worm infection	guinea worm infection	growth intestine, DS	Endocrine System Disorders Infections/Infestations
gums	-	gums	Digestive System Disorders
gynecomastia	gynecomastia	breasts	Genitourinary System Disorders
haematuria	haematuria	urination blood	Genitourinary System Disorders Blood System Disorders
haemolysis haemolytic anaemia	haemolysis haemolytic anaemia	blood	Blood System Disorders
haemorrhages	haemorrhages	1	Injuries
haemorrhages of pregnancy	haemorrhages of		
haomarrhagia farra	pregnancy	pregnancy 1	Pregnancy/Birth/Puerperium Disorders   Infections/Infestations
haemorrhagic fever haemorrhoids	haemorrhagic fever haemorrhoids	1   veins	Circulatory System Disorders
haemostatic	haemostatic	1	Injuries
hair	-	hair	Skin/Subcutaneous Cellular Tissue Disorders
hair follicles	- hair loop	hair follicles hair	Skin/Subcutaneous Cellular Tissue Disorders Skin/Subcutaneous Cellular Tissue Disorders
hair loss hair-worm infection	hair loss hair-worm infection	intestine, DS	Infections/Infestations
hallucinogen dependence	hallucinogen		
•	dependence	4	Mental Disorders
hallucinogenic	hallucinogenic	4	Mental Disorders
hallucinosis hands	hallucinosis -	hands	Mental Disorders   Muscular-Skeletal System Disorders
hard palate	1 -	hard palate	Digestive System Disorders
hay fever	hay fever	1: .	Respiratory System Disorders
head	-	head hearing	Muscular-Skeletal System Disorders Sensory System Disorders
<i>hearing</i> heart	-	hearing	Sensory System Disorders   Circulatory System Disorders
	I		
heart beat	11 -	heart beat	Circulatory System Disorders

Medicinal Terms (both accepted and non-accepted)	Level 3 — Disorders Treated/ <i>Medicinal</i>	Level 3 — Body Parts/ <i>Processes</i>	Level 2 states
accepted and non-accepted,	Effects 1	Treated 2	
ha art muscle t		myocardium	Circulatory System Disorders
heart muscle* heart valves*	-	valves (of heart)	Circulatory System Disorders  Circulatory System Disorders
helminth worm infections	helminth worm		
helminthiasis*	infections helminth worm	l 1 	Infections/Infestations
hemagioma*	infections benign neoplasms	1 blood vessels, CS	Infections/Infestations Neoplasms
hepatic stimulant	hepatic stimulant	liver	Digestive System Disorders
hepatitis (viral)	hepatitis (viral)	1	Infections/Infestations
hepatitis A	hepatitis A	1	Infections/Infestations
hepatitis B	hepatitis B	1 1	Infections/Infestations
hepatitis non-A, non-B	hepatitis non-A, non-B hepatoprotective	liver	Infections/Infestations Digestive System Disorders
hepatoprotective hernia	hernia	3	Digestive System Disorders  Digestive System Disorders
herpes (Herpes simplex)	herpes (Herpes simplex)	1	Infections/Infestations
herring worm disease	herring worm disease	intestine, DS	Infections/Infestations
hiccoughs	hiccoughs	-	Respiratory System Disorders
hips	<del>-</del>	hips	Muscular-Skeletal System Disorders
hirsutism	hirsutism	hair	Skin/Subcutaneous Cellular Tissue Disorders
histocytes	hiotoplasmosis	histiocytes	Muscular-Skeletal System Disorders Infections/Infestations
histoplasmosis HIV infections	histoplasmosis HIV infections	lungs, RS 1	Intections/Intestations Infections/Infestations
Hodgkin's disease*	leukaemias	BS, IS	Neoplasms
hoofs	-	hoofs	Skin/Subcutaneous Cellular Tissue Disorders
hookworm infection (New	hookworm infection		
World) hookworm infection (Old World)	(New World) hookworm infection (Old	intestine, DS	Infections/Infestations
	World)	intestine, DS	Infections/Infestations
hydatid disease	hydatid disease	1	Infections/Infestations
hydragogue	hydragogue	3	Digestive System Disorders
hydrocoele	hydrocoele	testes	Genitourinary System Disorders
hymen	- -	hymen	Genitourinary System Disorders
hypercholesterolaemia hypercholia	hypercholesterolaemia hypercholia	lipoid metabolism	Metabolic System Disorders Digestive System Disorders
hyperchylomicronaemia	hyperchylomicronaemia	lipoid metabolism	Metabolic System Disorders
hyperglycaemia	hyperglycaemia	4	Endocrine System Disorders
hyperglycaemic*	hypoglycaemia	4	Endocrine System Disorders
hyperglyceridaemia	hyperglyceridaemia	lipoid metabolism	Metabolic System Disorders
hyperhydrosis	hyperhydrosis	4	III-Defined Symptoms
hyperlipidaemia	hyperlipidaemia	lipoid metabolism	Metabolic System Disorders
hypermetropia*	long sight	refraction and accommodation	Sensory System Disorders
hypernatraemia	hypernatraemia	fluid, electrolyte and acid balance	Metabolic System Disorders
hyperoestrogenism	hyperoestrogenism	sexual development	Endocrine System Disorders
hyperosmolality*	hypernatraemia	fluid, electrolyte and acid balance	Metabolic System Disorders
hyperparathyroidism	hyperparathyroidism	parathyroid	Endocrine System Disorders
hyperplasia *	hypertrophy	1	Abnormalities
hyperpotasaemia	hyperpotasaemia	fluid, electrolyte and	
	l .	acid balance	Metabolic System Disorders
hypersomnia	hypersomnia	4	Mental Disorders
hypertension of pregnancy	hypertension	blood pressure	Circulatory System Disorders
hypertension of pregnancy	hypertension of pregnancy	pregnancy	Pregnancy/Birth/Puerperium Disorders
hypertensive*	hypotension	blood pressure	Circulatory System Disorders
hyperthermia	hyperthermia	temperature	
<u>.</u>		regulation	Metabolic System Disorders
hypertrophy	hypertrophy	1 1	Abnormalities
hypnotic	hypnotic	4 blood	Mental Disorders
hypocalcaemia hypochondria	hypocalcaemia hypochondria	Diood   4	Blood System Disorders Mental Disorders
hypoglycaemia	hypoglycaemia	4	Endocrine System Disorders
hypoglycaemic*	hyperglycaemia	4	Endocrine System Disorders
hyponatraemia	hyponatraemia	fluid, electrolyte and acid balance	Metabolic System Disorders
hypoparathyroidism	hypoparathyroidism	parathyroid	Endocrine System Disorders
hypopharynx	-	hypopharynx	Respiratory System Disorders
hypopotasaemia	hypopotasaemia	fluid, electrolyte and	
hyposmolality*	hyponatraemia	acid balance fluid, electrolyte and	Metabolic System Disorders
Trypositionality		acid balance	Metabolic System Disorders
	hypogorenia	l .	
hyposomnia	hyposomnia hypotension	4	Mental Disorders
	hyposomnia hypotension hypertension	l .	

Medicinal Terms (both	Level 3 — Disorders	Level 3 - Body	Level 2 states
accepted and non-accepted)	Treated <i>[Medicinal</i>	Parts/Processes	
•	Effects 1	Treated 2	
hypothermia	hypothermia	temperature	
, p-1	nypoutennia	regulation	Metabolic System Disorders
hypothyroidism	hypothyroidism	thyroid	Endocrine System Disorders
hypoxaemia	hypoxaemia	blood	Blood System Disorders
hysteria	hysteria	4	Mental Disorders
ileum	Tiystella	ileum	
	-	lieum	Digestive System Disorders
III-Defined Symptoms	-	<del>-</del>	III-Defined Symptoms
Immune System	<b>1</b>	15	Immune System
immunostimulant	immunostimulant	4	Immune System
immunosuppressant	immunosuppressant	4	Immune System
impetigo	impetigo	1	Infections/Infestations
implantation	·	implantation	Genitourinary System Disorders
impotence	impotence	copulation	Genitourinary System Disorders
indigestion	indigestion	3	Digestive System Disorders
infections	infections	1	Infections/Infestations
Infections/Infestations	-	1	Infections/Infestations
infertility (female)*	female infertility	female fertility	Genitourinary System Disorders
infertility (male)	male infertility	male fertility	Genitourinary System Disorders
Infestations	infestations	1	Infections/Infestations
Inflammation	II -	i	Inflammation
inflammatory bowel disease*	inflammation	colon, DS	Inflammation
•	influenza	1	Infections/Infestations
influenza	I minderiza		Injuries
Injuries	II -		, -
inner ears		inner ears	Sensory System Disorders
insanity	insanity	4	Mental Disorders
insect infestations	insect infestations	1	Infections/Infestations
insect stings	insect stings	4	Poisonings
insomnia*	hyposomnia	4	Mental Disorders
intercranial region	-	intercranial region	Nervous System Disorders
internal bleeding	internal bleeding	1	Injuries
internal burns*	burns (internal)	1	Injuries
intervertebral discs	-	intervertebral discs	Muscular-Skeletal System Disorders
intestine	1 -	intestine	Digestive System Disorders
intoxicant	intoxicant	4	Mental Disorders
intoxication	intoxication	4	Poisonings
intoxication due to alcohol	intoxication due to	ľ	1
intoxication due to alconor	alcohol	4	Poisonings
interior due to drugo	intoxication due to	-	1 Gloomings
intoxication due to drugs	drugs	4	Poisonings
!dimd-#!-!	II -	4	Nutritional Disorders
iodine deficiency	iodine deficiency	I -	Sensory System Disorders
irises	- ! 4-#:-!	irises	Blood System Disorders
iron deficiency anaemia	iron deficiency anaemia	blood	Metabolic System Disorders
iron metabolism	<del>-</del>	iron metabolism	·
irregular eye movements*	mystagmus	eye movements	Sensory System Disorders
irritable bowel syndrome	irritable bowel syndrome	large intestine	Digestive System Disorders
irritation	irritation	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
ischaemia	ischaemia	arteries/arterioles/	
	ll .	capillaries	Circulatory System Disorders
islet cells of Langerhans	-	islet cells of	
		Langerhans	Endocrine System Disorders
itching	itching	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
jaws	II -	jaws	Muscular-Skeletal System Disorders
jealousy	jealousy	4	Mental Disorders
jejunum	<b>II</b> -	jejunum	Digestive System Disorders
jet lag	jet lag	4	Mental Disorders
jiggers*	tungiasis	1	Infections/Infestations
joints	-	joints	Muscular-Skeletal System Disorders
keratitis*	inflammation	corneas, SS	Inflammation
kidney cells	-	kidney cells	Genitourinary System Disorders
kidney stones	kidney stones	kidneys	Genitourinary System Disorders
KIGITO'S STOLIGS	Aldricy stories	kidneys	Genitourinary System Disorders
kidneve	II -	Kidiloyo	Contouniury Oyetem Districts
kidneys	<b> </b>	knees	Muscular-Skeletal System Disorders
knees	- - -	knees	Muscular-Skeletal System Disorders
knees kuru	- - kuru	1	Infections/Infestations
knees kuru kwashiorkor	- - kuru kwashiorkor	1 4	Infections/Infestations Nutritional Disorders
knees kuru kwashiorkor labia	1	1 4 labia	Infections/Infestations Nutritional Disorders Genitourinary System Disorders
knees kuru kwashiorkor labia <i>labour</i>	kwashiorkor - -	1 4 labia <i>labour</i>	Infections/Infestations Nutritional Disorders Genitourinary System Disorders Pregnancy/Birth/Puerperium Disorders
knees kuru kwashiorkor labia <i>labour</i> labour induction	kwashiorkor - - <i>labour induction</i>	1 4 labia <i>labour</i> <i>labour</i>	Infections/Infestations Nutritional Disorders Genitourinary System Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders
knees kuru kwashiorkor labia <i>labour</i> <i>labour induction</i> labour pain	kwashiorkor - - <i>labour induction</i> labour pain	1 4 labia <i>labour</i> <i>labour</i> <i>labour</i>	Infections/Infestations Nutritional Disorders Genitourinary System Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders
knees kuru kwashiorkor labia <i>labour</i> labour induction	kwashiorkor - - <i>labour induction</i>	1 4 labia <i>labour</i> <i>labour</i> inner ear, SS	Infections/Infestations Nutritional Disorders Genitourinary System Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Inflammation
knees kuru kwashiorkor labia <i>labour</i> <i>labour induction</i> labour pain	kwashiorkor - - <i>labour induction</i> labour pain	1 4 labia <i>labour</i> <i>labour</i> <i>labour</i>	Infections/Infestations Nutritional Disorders Genitourinary System Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Inflammation Sensory System Disorders
knees kuru kwashiorkor labia labour labour induction labour pain labyrinthitis*	kwashiorkor - - <i>labour induction</i> labour pain	1 4 labia <i>labour</i> <i>labour</i> inner ear, SS	Infections/Infestations Nutritional Disorders Genitourinary System Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Inflammation
knees kuru kwashiorkor labia labour labour induction labour pain labyrinthitis* lachrymal ducts	kwashiorkor - - <i>labour induction</i> labour pain	1 4 labia <i>labour</i> <i>labour</i> inner ear, SS lachrymal ducts	Infections/Infestations Nutritional Disorders Genitourinary System Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Inflammation Sensory System Disorders
knees kuru kwashiorkor labia labour labour induction labour pain labyrinthitis * lachrymal ducts lachrymal glands	kwashiorkor - - <i>labour induction</i> labour pain	1 4 labia labour labour labour inner ear, SS lachrymal ducts lachrymal glands	Infections/Infestations Nutritional Disorders Genitourinary System Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Inflammation Sensory System Disorders Sensory System Disorders
knees kuru kwashiorkor labia labour labour induction labour pain labyrinthitis * lachrymal ducts lachrymal glands lachrymal system lactation	kwashiorkor labour induction labour pain inflammation	1 4 labia labour labour labour inner ear, SS lachrymal ducts lachrymal glands lachrymal system	Infections/Infestations Nutritional Disorders Genitourinary System Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Inflammation Sensory System Disorders Sensory System Disorders Sensory System Disorders Pregnancy/Birth/Puerperium Disorders
knees kuru kwashiorkor labia labour labour induction labour pain labyrinthitis* lachrymal ducts lachrymal glands lachrymal system	kwashiorkor - - <i>labour induction</i> labour pain	1 4 labia /abour /abour labour inner ear, SS lachrymal ducts lachrymal glands lachrymal system /actation	Infections/Infestations Nutritional Disorders Genitourinary System Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Pregnancy/Birth/Puerperium Disorders Inflammation Sensory System Disorders Sensory System Disorders Sensory System Disorders Sensory System Disorders

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Medicinal Terms (both	Level 3 — Disorders	Level 3 — Body	Level 2 states
accepted and non-accepted)	Treated/Medicinal	Parts/Processes	
	Effects 1	Treated <sup>2</sup>	
		J	1.0
laryngitis*	inflammation	larynx, RS larynx	Inflammation Respiratory System Disorders
larynx lathyrism	lathyrism	6	Nervous System Disorders
laxative	laxative	3	Digestive System Disorders
lead poisoning	lead poisoning	4	Poisonings
leech infestations	leech infestations	l i	Infections/Infestations
legs		legs	Muscular-Skeletal System Disorders
leiomyoma*	benign neoplasms	smooth muscle, MSS	Neoplasms
leishmaniasis	leishmaniasis	1	Infections/Infestations
lens	-	lens	Sensory System Disorders
leprosy	leprosy	1	Infections/Infestations
leptospirosis	leptospirosis	1	Infections/Infestations
lesions	lesions	1	Abnormalities
leukaemias 12	leukaemias	BS, IS	Neoplasms
leukocytes	1 -	leukocytes	Blood System Disorders
leukorrhoea	leukorrhoea	vaginal mucosae	Genitourinary System Disorders
libido	<b> </b>   -	libido	Genitourinary System Disorders
lice infestations	lice infestations	1	Infections/Infestations
lichen	lichen	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
ligaments	-	ligaments	Muscular-Skeletal System Disorders
light (excess of )*	excessive light	4	Poisonings
limbs	<b>I</b> -	limbs	Muscular-Skeletal System Disorders
lipidaemia*	hyperlipidaemia	lipoid metabolism	Metabolic System Disorders
lipidoses	lipidoses	lipoid metabolism	Metabolic System Disorders
lipodystrophy	lipodystrophy	lipoid metabolism	Metabolic System Disorders
lipoid metabolism	<b>  </b> -	lipoid metabolism	Metabolic System Disorders
lipoma*	benign neoplasms	fatty tissue, MSS	Neoplasms
lipoprotein deficiency	lipoprotein deficiency	lipoid metabolism	Metabolic System Disorders
lips	-	lips	Digestive System Disorders
listeriosis	listeriosis	1	Infections/Infestations
liver	-	liver	Digestive System Disorders
loaisis	loaisis	11	Infections/Infestations
lobomycosis	lobomycosis	1 1	Infections/Infestations
long labour	long labour	labour	Pregnancy/Birth/Puerperium Disorders
long sight	long sight	refraction and	
	<b>1</b>	accommodation	Sensory System Disorders
low vision	low vision	vision	Sensory System Disorders
lower limbs	1	lower limbs	Muscular-Skeletal System Disorders
lumbago	lumbago	back	Muscular-Skeletal System Disorders
lumbar region	<b>∥</b> -	lumbar region	Muscular-Skeletal System Disorders
lungs lupus ervthrematosus	lupus erythrematosus	lungs 8, 1	Respiratory System Disorders
lyme disease	lyme disease	1 1	Skin/Subcutaneous Cellular Tissue Disorders Infections/Infestations
lymph	Tyllie disease	lymph	Immune System
lymph glands			l •
lymph nodes		lymph glands lymph nodes	Immune System
lymph vessels	<b>I</b> .	lymph vessels	Immune System Immune System
lymphadenitis*	inflammation	lymph glands, IS	Inflammation
lymphangioma*	benign neoplasms	lymph vessels, IS	Neoplasms
lymphangitis*	inflammation	lymph vessels, IS	Inflammation
lymphocytes	-	lymphocytes	Immune System
lymphoma*	leukaemias	IS	Neoplasms
lymphosarcoma*	leukaemias	IS	Neoplasms
maduromycosis	maduromycosis	1	Infections/Infestations
magnesium metabolism	11 -	magnesium	
		metabolism	Metabolic System Disorders
malaise/fatigue 13	malaise/fatigue	4	III-Defined Symptoms
malaria	malaria	1	Infections/Infestations
male breasts	-	male breasts	Genitourinary System Disorders
male fertility	<b> </b> -	male fertility	Genitourinary System Disorders
male genitals	-	male genitals	Genitourinary System Disorders
male infertility	male infertility	male fertility	Genitourinary System Disorders
male sterility	male sterility	male fertility	Genitourinary System Disorders
malignant neoplasms	malignant neoplasms	1	Neoplasms
malnutrition	malnutrition	4	Nutritional Disorders
mandible	-	mandible	Muscular-Skeletal System Disorders
mania	mania	4	Mental Disorders
marasmus	marasmus	4	Nutritional Disorders
mast cells	1 -	mast cells	Muscular-Skeletal System Disorders
mastitis*	inflammation	breasts, GS	Inflammation
mastoids	-	mastoids	Sensory System Disorders
mastoiditis*	inflammation	mastoids, SS	Inflammation

 $^{12}\mathrm{primary}$  malignant neoplasm of lymphatic and haematopoietic tissue  $^{13}\mathrm{not}$  due to heat, combat, pregnancy, neurasthenia, senile asthenia

Medicinal Terms (both accepted)	Level 3 — Disorders Treated/ <i>Medicinal</i> <i>Effects</i>	Level 3 — Body Parts/ <i>Processes</i> Treated <sup>2</sup>	Level 2 states
	Errects	reated =	
maxilla	-	maxilla	Muscular-Skeletal System Disorders
measles	measles	1	Infections/Infestations
mediastinum	<b>  </b> -	mediastinum	Respiratory System Disorders
medicine poisoning	medicine poisoning	4	Poisonings
melanoma*	malignant neoplasms	1	Neoplasms
melioidosis	melioidosis	1	Infections/Infestations
Menière's disease	Menière's disease	ears	Sensory System Disorders
meninges	1 -	meninges	Nervous System Disorders
meningitis (bacterial)	meningitis (bacterial)	1	Infections/Infestations
meningitis (viral)	meningitis (viral)	1	Infections/Infestations
meningitis*	inflammation	meninges, NS	Inflammation
menopause	<b>  -</b>	menopause	Genitourinary System Disorders
menorrhagia	menorrhagia	menstruation	Genitourinary System Disorders
menstruation	-	menstruation	Genitourinary System Disorders
mental disability	mental disability	4	Mental Disorders
Mental Disorders	-	<del>-</del>	Mental Disorders
mesenteric glands	-	mesenteric glands	Digestive System Disorders
Metabolic System	<b>∦</b>	Metabolic System	Metabolic System Disorders
metal poisoning	metal poisonings	4	Poisonings
metrorrhagia	metrorrhagia	menstruation	Genitourinary System Disorders
microbial infections	microbial infections	1	Infections/Infestations
middle ears	<b>∦</b>	middle ears	Sensory System Disorders
migraines	migraines	6	Nervous System Disorders
mineral deficiency	mineral deficiency	4	Nutritional Disorders
mineral metabolism	1	mineral metabolism	Metabolic System Disorders
miotic .	miotic	pupils	Sensory System Disorders
miscarriages	miscarriages	pregnancy	Pregnancy/Birth/Puerperium Disorders
morning sickness	morning sickness	pregnancy	Pregnancy/Birth/Puerperium Disorders
motion sickness	motion sickness	3	Digestive System Disorders
motor nerves		motor nerves	Nervous System Disorders
motor neurone disease	motor neurone disease	6	Nervous System Disorders
moulting		moulting	Skin/Subcutaneous Cellular Tissue Disorders
mountain sickness	mountain sickness	3	Digestive System Disorders
mouth	l	mouth	Digestive System Disorders
multiple dystrophy	multiple dystrophy	6	Nervous System Disorders
multiple sclerosis	multiple sclerosis	6	Nervous System Disorders
mumps	mumps	1 1	Infections/Infestations
muscle relaxant	muscle relaxant	5	Muscular-Skeletal System Disorders
muscle stimulant	muscle stimulant	5	Muscular-Skeletal System Disorders
muscles	-	muscles	Muscular-Skeletal System Disorders
Muscular-Skeletal System	ļ -	Muscular-Skeletal	Muscular-Skeletal System Disorders
		System	Infections/Infestations
myaisis	myiasis	1	intections/intestations
mycobacterium infection	mycobacterium 14	1.	Infections/Infestations
	infection 14	1	
mycotic mycetomas	mycotic mycetomas	1	Infections/Infestations
mydriatic	mydriatic	pupils	Sensory System Disorders
myelitis*	inflammation	spinal chord, NS	Inflammation
myeloma*	leukaemias	BS, IS	Neoplasms
myelopathy	myelopathy	spinal chord	Nervous System Disorders
myocarditis*	inflammation	myocardium, CS	Inflammation
myocardium		myocardium	Circulatory System Disorders
myopathy	myopathy	muscles	Muscular-Skeletal System Disorders
myopia*	short sight	refraction and	Camanan Cantana Diagram
*** *	1	accommodation	Sensory System Disorders
myositis*	inflammation	muscles, MSS	Inflammation
myringitis*	inflammation	tympanic	1
	<b>!</b>	membranes, SS	Inflammation
mystagmus	mystagmus	eye movements	Sensory System Disorders
nails	11	nails	Skin/Subcutaneous Cellular Tissue Disorders
nappy rash	nappy rash	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
narcolepsy	narcolepsy	4	Mental Disorders
narcotic	narcotic	4	Mental Disorders
nasal tract	- 	nasal tract	Respiratory System Disorders
nasopharyngitis *	inflammation	nasopharynx, RS	Inflammation
nasopharynx		nasopharynx	Respiratory System Disorders
natriuretic	natriuretic	urination	Genitourinary System Disorders
nausea	nausea	3	Digestive System Disorders
navel	11 -	navel	Skin/Subcutaneous Cellular Tissue Disorders
neck	- -	neck	Muscular-Skeletal System Disorders
	necrosis	1	Abnormalities
necrosis	III		
necrosis nematode infections Neoplasms	nematode infections		Infections/Infestations Neoplasms

<sup>&</sup>lt;sup>14</sup>non-leprosy

	· · · · · · · · · · · · · · · · · · ·	r	
Medicinal Terms (both	Level 3 — Disorders	Level 3 — Body	Level 2 states
accepted and non-accepted)	Treated/Medicinal	Parts/Processes	
,	Effects 1	Treated <sup>2</sup>	
neoplasms (malignant) *	malignant neoplasms	1	Neoplasms
neoplasms (unspecified)*	unspecified neoplasms	1	Neoplasms
neoplasms of uncertain	neoplasms of uncertain	1.	Name
behaviour	behaviour inflammation	lidania CS	Neoplasms   Inflammation
nephritis*	1	kidneys, GS	Injuries
nerve injuries	nerve injuries	nerve roots	Nervous System Disorders
nerve roots nerves	<u>                                  </u>	nerves	Nervous System Disorders
nervous breakdowns	nervous breakdowns	4	Mental Disorders
nervous excitement	nervous excitement	4	Mental Disorders
Nervous System	-	1.7	Nervous System Disorders
neuroses	neuroses	4	Mental Disorders
neurotic depression	neurotic depression	1 4	Mental Disorders
neurotransmitters	-	neurotransmitters	Nervous System Disorders
niacin deficiency	niacin deficiency	4	Nutritional Disorders
nicotine dependence	nicotine dependence	1 4	Mental Disorders
night blindness	night blindness	vision	Sensory System Disorders
nightmares	nightmares	4	Mental Disorders
nipples	-	nipples	Genitourinary System Disorders
nocardiosis	nocardiosis	1	Infections/Infestations
non-dependent drug abuse	non-dependent drug		1
nen aspenasiit alag abas	abuse	4	Mental Disorders
non-malignant tumour*	benign neoplasms		Neoplasms
nose	-	nose	Respiratory System Disorders
noxious foods	noxious foods	4	Poisonings
Nutrition	-	Nutrition	Nutritional Disorders
nutritional deficiency	nutritional deficiency	4	Nutritional Disorders
obesity	obesity	4	Nutritional Disorders
obsessive disorders	obsessive disorders	4	Mental Disorders
obstructed labour	obstructed labour	labour	Pregnancy/Birth/Puerperium Disorders
obstructions	obstructions	1	Abnormalities
occipital lobe of brain	-	occipital lobe of	
•	1	brain	Nervous System Disorders
oedema	oedema	1	Abnormalities
oesophagus	-	oesophagus	Digestive System Disorders
oestrogenic	oestrogenic	sexual development	Endocrine System Disorders
oligomennorhoea	oligomennorhoea	menstruation	Genitourinary System Disorders
oligospermy	oligospermy	male fertility	Genitourinary System Disorders
oligurea	oligurea	urination	Genitourinary System Disorders
onchocerciasis	onchocerciasis	1	Infections/Infestations
open fractures	open fractures	bones	Muscular-Skeletal System Disorders
ophthalmia* opioid <sup>15</sup> dependence	inflammation	eyes, SS	Inflammation
opioid 15 dependence	opioid dependence	4	Mental Disorders
optic nerves	-	optic nerves	Sensory System Disorders
oral cavity*	ii -	mouth	Digestive System Disorders
orbits of eyes	-	orbits of eyes	Sensory System Disorders
orchitis*	inflammation	testes, GS	Inflammation
organ failure	organ failure	1	Abnormalities
organic impotence	organic impotence	copulation	Genitourinary System Disorders
ornithosis*	psittacosis	1 1	Infections/Infestations
oropharynx	-	oropharynx	Respiratory System Disorders
ossicles	-	ossicles	Sensory System Disorders
osteitis*	inflammation	bones, MSS	Inflammation
osteoarthritis	osteoarthritis	5	Muscular-Skeletal System Disorders
osteomalacia	osteomalacia	4	Nutritional Disorders
osteomyelitis*	inflammation	bones, MSS	Inflammation
osteopathy	osteopathy	5	Muscular-Skeletal System Disorders
osteoporosis	osteoporosis	bones	Muscular-Skeletal System Disorders
otitis media*	inflammation	middle ear, SS	Inflammation
otitis*	inflammation	ear, SS	Inflammation
otosclerosis	otosclerosis	ears	Sensory System Disorders
outer ears	1 -	outer ears	Sensory System Disorders
	II _	ovaries	Genitourinary System Disorders
ovaries		I	Genitourinary System Disorders
ovaries oviduct	-	oviduct	
	-	ovulation	Genitourinary System Disorders
oviduct	- - ovulatory pain	•	Genitourinary System Disorders Genitourinary System Disorders
oviduct ovulation	- - ovulatory pain oxidase inhibitor	ovulation	
oviduct <i>ovulation</i> ovulatory pain		ovulation ovulation	Genitourinary System Disorders
oviduct ovulation ovulatory pain oxidase inhibitor		ovulation ovulation enzyme activity	Genitourinary System Disorders Metabolic System Disorders Pain Digestive System Disorders
oviduct ovulation ovulatory pain oxidase inhibitor Pain		ovulation ovulation enzyme activity 1	Genitourinary System Disorders Metabolic System Disorders Pain
oviduct ovulation ovulatory pain oxidase inhibitor Pain palate *		ovulation ovulation enzyme activity 1 hard palate	Genitourinary System Disorders Metabolic System Disorders Pain Digestive System Disorders
oviduct ovulation ovulatory pain oxidase inhibitor Pain palate * palate *	oxidase inhibitor - -	ovulation ovulation enzyme activity 1 hard palate soft palate	Genitourinary System Disorders Metabolic System Disorders Pain Digestive System Disorders Digestive System Disorders Mental Disorders Nervous System Disorders
oviduct ovulation ovulatory pain oxidase inhibitor Pain palate * palate * palpitations	oxidase inhibitor  palpitations	ovulation ovulation enzyme activity 1 hard palate soft palate 4	Genitourinary System Disorders Metabolic System Disorders Pain Digestive System Disorders Digestive System Disorders Mental Disorders

<sup>&</sup>lt;sup>15</sup>includes opiates

Modicinal Tanas /b sale	Laurio Bi al		
Medicinal Terms (both	Level 3 — Disorders	Level 3 — Body	Level 2 states
accepted and non-accepted)	Treated/Medicinal Effects 1	Parts/ <i>Processes</i> Treated <sup>2</sup>	
	Effects	reated =	
panic	panic	4	Mental Disorders
paracoccidiomycosis	paracoccidiomycosis	1	Infections/Infestations
paralysis	paralysis	6	Nervous System Disorders
paranoia	paranoia	4	Mental Disorders
paranoid states	paranoid states	4	Mental Disorders
paraphrenia	paraphrenia	4	Mental Disorders
parasitic infections	parasitic infections	1	Infections/Infestations
parasympathetic nervous	<b> </b> -	parasympathetic	<u> </u>
system		nervous system	Nervous System Disorders
parathyroid	-	parathyroid	Endocrine System Disorders
paratyphoid *	typhoid/paratyphoid	1	Infections/Infestations
parietal lobe of brain	<b>J</b> -	parietal lobe of brain	Nervous System Disorders
Parkinson's disease	Parkinson's disease	6	Nervous System Disorders
parotid	-	parotid	Digestive System Disorders
pasturellosis	pasturellosis	1	Infections/Infestations
pediculosis*	lice infestations	head, MSS	Infections/Infestations
pellagra	pellagra	4	Nutritional Disorders
pelvic cellular tissue	<b>  </b> -	pelvic cellular tissue	Genitourinary System Disorders
pelvic inflammation*	inflammation	uterine ligament, GS	Inflammation
pelvis	-	pelvis	Muscular-Skeletal System Disorders
penis	-	penis	Genitourinary System Disorders
peptic ulcers	peptic ulcers	3	Digestive System Disorders
perianal area	-	perianal area	Skin/Subcutaneous Cellular Tissue Disorders
pericarditis*	inflammation	pericardium, CS	Inflammation
pericardium	-	pericardium	Circulatory System Disorders
perineum	-	perineum	Genitourinary System Disorders
periodic fever	periodic fever	4	Infections/Infestations
peripheral nerves	<u>-</u>	peripheral nerves	Nervous System Disorders
peripheral nervous system	II -	peripheral nervous	
• • • • • • • • • • • • • • • • • • • •		system	Nervous System Disorders
peritoneum	l -	peritoneum	Digestive System Disorders
peritonitis*	inflammation	peritoneum, DS	Inflammation
pernicious anaemia	pernicious anaemia	blood	Blood System Disorders
personality disorders	personality disorders	4	Mental Disorders
pertussis*	whooping		1
•	cough/pertussis	1	Infections/Infestations
petroleum products poisonings	petroleum products	ł	
	poisonings	4	Poisonings
pharyngitis*	inflammation	pharynx, RS	Inflammation
pharynx	-	pharynx	Respiratory System Disorders
phimosis	phimosis	foreskin	Genitourinary System Disorders
phlebitis*	inflammation	veins, CS	Inflammation
phlegm*	inflammation	respiratory mucosae,	
		RS	Inflammation
phobias	phobias	4	Mental Disorders
phosphorous metabolism		phosphorous	
<b>,</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		metabolism	Metabolic System Disorders
photosensitivity	photosensitivity	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
phthiriasis *	lice infestations	pubic hair, SST	Infections/Infestations
pica	pica	4	Mental Disorders
pigmentation	pigmentation	1	Abnormalities
pilonidial cysts	pilonidial cysts	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
pin worm infection	pin worm infection	intestine, DS	Infections/Infestations
pineal gland	-	pineal gland	Endocrine System Disorders
pinta	pinta	1	Infections/Infestations
pituitary	-	pituitary	Endocrine System Disorders
pityriasis nigra	pityriasis nigra	1	Infections/Infestations
placenta	- "	placenta	Genitourinary System Disorders
plague	plague	1	Infections/Infestations
plasma	- <sup>-</sup>	plasma	Blood System Disorders
plasma protein synthesis	<b>I</b> -	plasma protein	
•	I	synthesis	Metabolic System Disorders
platelet aggregation	-	platelet aggregation	Blood System Disorders
platelets	-	platelets	Blood System Disorders
pleura	-	pleura	Respiratory System Disorders
pleurisy*	inflammation	pleura, RS	Inflammation
pneumoconioses	pneumoconioses	-	Respiratory System Disorders
pneumonia	pneumonia	lungs	Respiratory System Disorders
pneumonia (bacterial)	11 '	1	Infections/Infestations
	pneumonia (bacterial)		-
pneumonia (protozoal)	pneumonia (bacterial) pneumonia (protozoal)	1	Infections/Infestations
pneumonia (protozoal) pneumonia (viral)	II ·	1 1	Infections/Infestations Infections/Infestations
- T	pneumonia (protozoal)		
pneumonia (viral)	pneumonia (protozoal)		Infections/Infestations Poisonings Infections/Infestations
pneumonia (viral) Poisonings	pneumonia (protozoal) pneumonia (viral) -	1 -	Infections/Infestations Poisonings

		1 10	Louis O states
Medicinal Terms (both	Level 3 — Disorders	Level 3 — Body Parts/ <i>Processes</i>	Level 2 states
accepted and non-accepted)	Treated/ <i>Medicinal</i> Effects	Treated 2	
	Encois	Troutou	
	nolyglandular		
polyglandular dysfunction	polyglandular dysfunction	4	Endocrine System Disorders
polyps	polyps	1	Abnormalities
polyuria	polyuria	urination	Genitourinary System Disorders
porphyria metabolism	-	porphyria metabolism	Metabolic System Disorders
post menopause	-	post menopause	Genitourinary System Disorders
post partum		post partum	Pregnancy/Birth/Puerperium Disorders
post partum bleeding	post partum bleeding	post partum	Pregnancy/Birth/Puerperium Disorders
pre-eclampsia	pre-eclampsia	pregnancy	Pregnancy/Birth/Puerperium Disorders Genitourinary System Disorders
pre-menstrual syndrome	pre-menstrual syndrome	menstruation pregnancy	Pregnancy/Birth/Puerperium Disorders
pregnancy Pregnancy/Birth/Puerperium	1 ]	pregnancy	Pregnancy/Birth/Puerperium Disorders
premature ejaculation	premature ejaculation	copulation	Genitourinary System Disorders
premature menopause	premature menopause	menopause	Genitourinary System Disorders
prepuce*	-	foreskin	Genitourinary System Disorders
priapism	priapism	penis	Genitourinary System Disorders
primary malignant neoplasms	primary malignant	,	1
	neoplasms	1	Neoplasms
proctitis*	inflammation	rectum, DS	Inflammation
prolapse	prolapse	1	Abnormalities
prolonged pregnancy	prolonged pregnancy	pregnancy	Pregnancy/Birth/Puerperium Disorders
prostate		prostate	Genitourinary System Disorders
prostatitis*	inflammation	prostate, GS	Inflammation
protein deficiency	protein deficiency	4	Nutritional Disorders
proteinase inhibitor protozoal infections	proteinase inhibitor protozoal infections	enzyme activity	Metabolic System Disorders   Infections/Infestations
protozoal infections protozoal pneumonia*	pneumonia (protozoal)	1 1	Infections/Infestations
pruritus*	itching	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
psittacosis	psittacosis	1 1	Infections/Infestations
psoriasis	psoriasis	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
psychic impotence	psychic impotence	copulation	Genitourinary System Disorders
psychic trauma*	trauma (psychic)	4	Mental Disorders
psychogenic pain	psychogenic pain	4	Mental Disorders
psychogenic physical	psychogenic physical		
symptoms	symptoms	4	Mental Disorders
psychoses	psychoses	4 .	Mental Disorders
puerperium	-	puerperium	Pregnancy/Birth/Puerperium Disorders
pulmonary circulation	-	pulmonary circulation	Circulatory System Disorders
pupils	- 	pupils	Sensory System Disorders
purgative purifier	purgative purifier	4	Digestive System Disorders Poisonings
purine and pyrimidine	- parmer	purine and pyrimidine	roisonings
metabolism		metabolism	Metabolic System Disorders
purpura	purpura	blood	Blood System Disorders
pustules	pustules	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
Q fever	Q fever	1	Infections/Infestations
rabies	rabies	1	Infections/Infestations
radiation poisoning	radiation poisoning	4	Poisonings
rashes	rashes	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
rat bite fever	rat bite fever	1	Infections/Infestations
rectum	l -	rectum	Digestive System Disorders
red blood cells*	l -	erythrocytes	Blood System Disorders
refraction and accommodation	l -	refraction and	Sanaami Suatam Diaaadaaa
refrigerant	refrigerant	accommodation	Sensory System Disorders
refrigerant	refrigerant	temperature	Metabolic System Disorders
relapsing fever	relapsing fever	regulation	Infections/Infestations
relapsing tever	relapsing tever	4	Mental Disorders
respiratory mucosae	- TGIAXAIIL	respiratory mucosae	Respiratory System Disorders
respiratory mucosae respiratory stimulant	respiratory stimulant	-	Respiratory System Disorders
Respiratory System	-		Respiratory System Disorders
restorative	restorative	4	Nutritional Disorders
retardation*	mental disability	4	Mental Disorders
reticulosarcoma*	leukaemias	IS, BS	Neoplasms
retinas	-	retinas	Sensory System Disorders
retina vascular changes	retina vascular changes	retinas	Sensory System Disorders
retinitis*	inflammation	retinas, SS	Inflammation
retinopathy	retinopathy	retinas	Sensory System Disorders
rheumatism	rheumatism	5	Muscular-Skeletal System Disorders
rheumatoid arthritis	rheumatoid arthritis	5	Muscular-Skeletal System Disorders
rhinitis*	inflammation	nasal tract, RS	Inflammation
rhinosporidiosis Rhodesian trypanosomiasis	rhinosporidiosis	1	Infections/Infestations
	Rhodesian	I	1
Titloucsian trypanosomiasis	trynanocomiacie	I 1	I Infactione/Infactatione
ribs	trypanosomiasis	1   ribs	Infections/Infestations Muscular-Skeletal System Disorders

Medicinal Terms (both	Level 3 — Disorders	Level 3 - Body	Level 2 states
accepted and non-accepted)	Treated/ <i>Medicinal</i>	Parts/Processes	
	Effects 1	Treated <sup>2</sup>	
ringworm	ringworm	1	Infections/Infestations
roundworm infection	roundworm infection	intestine, DS	Infections/Infestations
rubella	rubella	1	Infections/Infestations
rumen	-	rumen	Digestive System Disorders
sacroiliac region			
sacrum	-	sacroiliac region	Muscular-Skeletal System Disorders
	-	sacrum	Muscular-Skeletal System Disorders
salivary glands	l	salivary glands	Digestive System Disorders
salmonellosis	salmonellosis	11	Infections/Infestations
salpingo-oophoritis*	inflammation	Fallopian tubes, GS	Inflammation
sandfleas infestation	tungiasis	1	Infections/Infestations
sarcoma*	malignant neoplasms	connective tissue, MSS	Masslassa
scabies	scabies	1 1	Neoplasms   Infections/Infestations
scalp	1 -	scalp	Skin/Subcutaneous Cellular Tissue Disorders
scarlet fever/scarlatina	scarlet fever/scarlatina	1	Infections/Infestations
scarlatina*	scarlet fever/scarlatina	1 1	Infections/Infestations
1			
scars	scars	1 1	Injuries
schistosomiasis	schistosomiasis	1	Infections/Infestations
schizophrenia	schizophrenia	4	Mental Disorders
sciatica	sciatica	back	Muscular-Skeletal System Disorders
sclerae	-	sclerae	Sensory System Disorders
sclerosis	sclerosis	1	Abnormalities
scorpion stings	scorpion stings	4	Poisonings
scrotum	-	scrotum	Genitourinary System Disorders
scurvy*	vitamin C deficiency	4	Nutritional Disorders
sebaceous glands	<b> </b>	sebaceous glands	Skin/Subcutaneous Cellular Tissue Disorders
secondary malignant neoplasms	secondary malignant	ľ	
	neoplasms	1	Neoplasms
sedative	sedative	1 4	Mental Disorders
semen	_	semen	Genitourinary System Disorders
seminal vesicles		seminal vesicles	Genitourinary System Disorders
		4	Mental Disorders
senile dementia	senile dementia	1 '	
senility psychoses	senility psychoses	4	Mental Disorders
sensory nerves	-	sensory nerves	Nervous System Disorders
Sensory System	-	l <u>.</u>	Sensory System Disorders
septicaemia	septicaemia	1	Infections/Infestations
sexual development	-	sexual development	Endocrine System Disorders
sexual deviations and disorders	sexual deviations and		
	disorders	4	Mental Disorders
sexual precocity	sexual precocity	sexual development	Endocrine System Disorders
shigellosis	shigellosis	<b> </b> 1	Infections/Infestations
shingles (Herpes zoster)	shingles (Herpes zoster)	1	Infections/Infestations
shock	shock	4	Mental Disorders
short sight	short sight	refraction and	
		accommodation	Sensory System Disorders
shoulders	_	shoulder	Muscular-Skeletal System Disorders
sialaporia	sialaporia	salivary glands	Digestive System Disorders
sialism	sialism	salivary glands	Digestive System Disorders
sickle cell anaemia	sickle cell anaemia	blood	Blood System Disorders
simple fractures	simple fractures	bones	Muscular-Skeletal System Disorders
•	- annipie naciules	sinus	Respiratory System Disorders
sinus	inflowmation	sinus sinus, RS	Inflammation
sinusitis*	inflammation	· ·	
skeletal muscles	-	skeletal muscles	Muscular-Skeletal System Disorders
skin	-	skin	Skin/Subcutaneous Cellular Tissue Disorders
Skin/Subcutaneous Cellular		j	la.,
Tissue	-	l *	Skin/Subcutaneous Cellular Tissue Disorders
skin of specific areas	-	skin of specific areas	Skin/Subcutaneous Cellular Tissue Disorders
skull	-	skull	Muscular-Skeletal System Disorders
sleep disorders	sleep disorders	4	Mental Disorders
slimming aids	slimming aids	4	Nutritional Disorders
slow growth	slow growth	growth	Endocrine System Disorders
slow virus infections	slow virus infections	1	Infections/Infestations
small cells of lung	-	small cells of lung	Respiratory System Disorders
small intestine	l <u>-</u>	small intestine	Digestive System Disorders
small penis	small penis	penis	Genitourinary System Disorders
smallpox	smallpox	1 1	Infections/Infestations
smell	-	smell	Sensory System Disorders
smooth muscles		smeil smooth muscles	1
* *	onaka hitaa	smooth muscles	Muscular-Skeletal System Disorders
snake bites	snake bites	7	Poisonings
snoring	snoring		Respiratory System Disorders
	l <del>-</del>	soft palate	Digestive System Disorders
soft palate			
soft tissues		soft tissues	Muscular-Skeletal System Disorders
soft tissues solvent poisoning	- solvent poisoning	4	Poisonings
soft tissues solvent poisoning somnambulism	somnambulism	4 4	Poisonings Mental Disorders
soft tissues solvent poisoning		4	Poisonings

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Medicinal Terms (both	Level 3 — Disorders	Level 3 - Body	Level 2 states
accepted and non-accepted)	Treated/Medicinal	Parts/Processes	
	Effects 1	Treated <sup>2</sup>	
			Miss and an Obselvated Countries Disconduct
spasms	spasms	muscles	Muscular-Skeletal System Disorders
spasticity	spasticity	5	Muscular-Skeletal System Disorders
sperm	-	sperm	Genitourinary System Disorders
spermatic chord	<b>  -</b>	spermatic chord	Genitourinary System Disorders
spina bifida	spina bifida	1	Abnormalities
spinal chord	-	spinal chord	Nervous System Disorders
spinal meninges	-	spinal meninges	Nervous System Disorders
spinal muscular atrophy	spinal muscular atrophy	6	Nervous System Disorders
spinal plexus	-	spinal plexus	Nervous System Disorders
spine	-	spine	Muscular-Skeletal System Disorders
spleen	<b> </b> -	spleen	Blood System Disorders
spondylosis	spondylosis	5	Muscular-Skeletal System Disorders
sporotrichosis	sporotrichosis	1 1	Infections/Infestations
sprains	sprains	muscles	Muscular-Skeletal System Disorders
squints	squints	eyes	Sensory System Disorders
**	stammering	4	Mental Disorders
stammering	II -	1 '	Genitourinary System Disorders
sterility (female)*	female sterility	female fertility male fertility	
sterility (male) *	male sterility	•	Genitourinary System Disorders
sternum	<b>1</b>	sternum	Muscular-Skeletal System Disorders
steroidal	steroidal	4	Endocrine System Disorders
stimulant	stimulant	6	Nervous System Disorders
stings	stings	4	Poisonings
stomach	-	stomach	Digestive System Disorders
stomachic	stomachic	3	Digestive System Disorders
stomatitis*	inflammation	mouth, DS	Inflammation
strains*	sprains	i	Muscular-Skeletal System Disorders
strangulated hernia	strangulated hernia	3	Digestive System Disorders
stress 16	stress	4	Mental Disorders
stricture	stricture	1	Abnormalities
strokes	strokes	2	Circulatory System Disorders
		4	III-Defined Symptoms
stupour*	coma	4	
stuttering*	stammering	I '	Mental Disorders
subcutaneous cellular tissue	<b>  </b> -	subcutaneous	
	1	cellular tissue	Skin/Subcutaneous Cellular Tissue Disorders
subglottis	1 -	subglottis	Respiratory System Disorders
sunburn	sunburn	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
sunscreen	sunscreen	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
superficial injuries	superficial injuries	1	Injuries
supraglottis	1 -	supraglottis	Respiratory System Disorders
sweat glands	<b>I</b> -	sweat glands	Skin/Subcutaneous Cellular Tissue Disorders
sweating	<b>I</b> -	sweating	Metabolic System Disorders
swelling*	oedema	1	Abnormalities
sympathetic nervous system	<b>I</b> -	sympathetic nervous	
•		system	Nervous System Disorders
syncope*	fainting	4	III-Defined Symptoms
synovia	-	synovia	Muscular-Skeletal System Disorders
syphilis	syphilis	1	Infections/Infestations
tapeworm infections	tapeworm infections	1 1	Infections/Infestations
taste	- Capovoliii illieotiolia	taste	Sensory System Disorders
teeth	II -	teeth	Digestive System Disorders
	teething	teeth	Digestive System Disorders Digestive System Disorders
teething	teething	1	Digestive System Disorders
temperature regulation	H -	temperature	Madalia Ba Contain Dia
tonomous lake of her?	1	regulation	Metabolic System Disorders
temporal lobe of brain	II -	temporal lobe of	1
	I	brain	Nervous System Disorders
tendons	-	tendons	Muscular-Skeletal System Disorders
testes	-	testes	Genitourinary System Disorders
tetanus	tetanus	1	Infections/Infestations
thiamin deficiency	thiamin deficiency	4	Nutritional Disorders
thighs	<b>I</b> -	thighs	Muscular-Skeletal System Disorders
thorax	<b>I</b> -	thorax	Respiratory System Disorders
thread worm infection	thread worm infection	intestine, DS	Infections/Infestations
throat	1 -	throat	Respiratory System Disorders
thrombosis	thrombosis	veins	Circulatory System Disorders
thymus	1.	thymus	Endocrine System Disorders
thyroid	<b>I</b> I -	thyroid	Endocrine System Disorders  Endocrine System Disorders
	inflammation	thyroid, ES	Inflammation
thyroiditis*		1	I e
tics	tics	4	Mental Disorders
tinea*	ringworm	1	Infections/Infestations
tinnitus	tinnitus	ears	Sensory System Disorders
toes	-	toes	Muscular-Skeletal System Disorders
tongue		tongue	Digestive System Disorders
tonic tonsilitis*	tonic inflammation	4 tonsils, RS	Nutritional Disorders Inflammation

<sup>&</sup>lt;sup>16</sup>acute reaction to

Medicinal Terms (both accepted and non-accepted)	Level 3 — Disorders Treated/Medicinal Effects	Level 3 — Body Parts/ <i>Processes</i> Treated <sup>2</sup>	Level 2 states
tonsils	_	tonsils	Respiratory System Disorders
touch	-	touch	Sensory System Disorders
toxaemia	toxaemia	4	Infections/Infestations
toxocariasis	toxocariasis	1	Infections/Infestations
toxoplasmosis	toxoplasmosis	1	Infections/Infestations
trachea	-	trachea	Respiratory System Disorders
tracheitis*	inflammation	trachea, RS	Inflammation
trachoma	trachoma	1	Infections/Infestations
tranquilliser	tranquilliser	4	Mental Disorders
trauma (psychic)	trauma (psychic)	4	Mental Disorders
trematode infections 17	trematode infections	1	Infections/Infestations
trembling	trembling	muscles	Muscular-Skeletal System Disorders
trichinosis	trichinosis	intestine, DS	Infections/Infestations
trichomoniasis	trichomoniasis	vagina, urethra,	
		prostate, GS	Infections/Infestations
trunk*	-	body	Muscular-Skeletal System Disorders
trypanosomiasis	trypanosomiasis	1	Infections/Infestations
trypsin inhibitor	trypsin inhibitor	enzyme activity	Metabolic System Disorders
tuberculosis	tuberculosis	1	Infections/Infestations
tularemia	tularemia	1	Infections/Infestations
tumours*	unspecified neoplasms	1	Neoplasms
tungiasis	tungiasis	] 1	Infections/Infestations
tympanic membranes	-	tympanic membranes	Sensory System Disorders
typhoid/paratyphoid	typhoid/paratyphoid	1	Infections/Infestations
typhus	typhus	1	Infections/Infestations
ulcers	ulcers	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
ulcers*	duodenal ulcers	small intestine/	
		duodenum/	
		jejunum/ileum	Digestive System Disorders
ulcers*	gastric ulcers	stomach	Digestive System Disorders
ulcers*	peptic ulcers	3	Digestive System Disorders
ulcers*	gastro-jejunal ulcers	3	Digestive System Disorders
unspecified neoplasms	unspecified neoplasms	J 1	Neoplasms
upper limbs	-	upper limbs	Muscular-Skeletal System Disorders
ureter	-	ureter	Genitourinary System Disorders
urethra	-	urethra	Genitourinary System Disorders
urethral leakage	urethral leakage	urethra	Genitourinary System Disorders
urethral stones	urethral stones	urethra	Genitourinary System Disorders
urethritis*	inflammation	urethra, GS	Inflammation
urinary incontinence	urinary incontinence	urination	Genitourinary System Disorders
urinary retention	urinary retention	urination	Genitourinary System Disorders
urinary tract	-	urinary tract	Genitourinary System Disorders
urination	-	urination	Genitourinary System Disorders
urticaria	urticaria	8, 1	Skin/Subcutaneous Cellular Tissue Disorders
uterine ligament	-	uterine ligament	Genitourinary System Disorders
uterine mucosae	-	uterine mucosae	Genitourinary System Disorders
uterine relaxant	uterine relaxant	uterus	Genitourinary System Disorders
uterine stimulant	uterine stimulant	uterus	Genitourinary System Disorders
uterus	-	uterus	Genitourinary System Disorders
uveitis*	inflammation	iris, SS	Inflammation
uvula	<b>]</b> -	uvula	Digestive System Disorders
vaccine poisoning	vaccine poisoning	4 .	Poisonings
vagina	-	vagina	Genitourinary System Disorders
vaginal mucosae	<b>1</b>	vaginal mucosae	Genitourinary System Disorders
vaginitis*	inflammation	vagina, GS	Inflammation
valves of heart	<b>II</b>	valves of heart	Circulatory System Disorders
varicose veins	varicose veins	veins	Circulatory System Disorders
vas deferens	l	vas deferens	Genitourinary System Disorders
vascular anomalies	vascular anomalies	1	Abnormalities
vasoconstriction	vasoconstriction	arteries/arterioles/	l a
	<b>I</b>	capillaries	Circulatory System Disorders
vasodilation	vasodilation	arteries/arterioles/	
	1	capillaries	Circulatory System Disorders
veins	1 -	veins	Circulatory System Disorders
venereal diseases (non-		1.	1
specified) 18	venereal diseases	4	Infections/Infestations
venomous bites	venomous bites	4	Poisonings
ventricles	<b> </b> -	ventricles	Nervous System Disorders
vertebrae	-	vertebrae	Muscular-Skeletal System Disorders
			I Bitana and an Obselvated Constant Discourt on
vertebral column*	ll -	spine	Muscular-Skeletal System Disorders
vertebral column* Vincent's angina viral encephalitis*	- Vincent's angina encephalitis (viral)	spine 1 1	Infections/Infestations Infections/Infestations

18see also gonorrhoea and syphilis

Medicinal Terms (both accepted)	Level 3 — Disorders Treated/Medicinal Effects	Level 3 — Body Parts/ <i>Processes</i> Treated <sup>2</sup>	Level 2 states
viral hepatitis* viral infections viral meningitis* viral pneumonia* viral warts vision visual disturbance vitamin deficiency vitamin A deficiency vitamin B deficiency vitamin C deficiency vitamin D deficiency vitamin D deficiency vitamin E deficiency	hepatitis (viral) viral infections meningitis (viral) pneumonia (viral) viral warts  - visual disturbance vitamin deficiency vitamin B deficiency vitamin C deficiency vitamin D deficiency vitamin D deficiency vitamin E deficiency vitamin K deficiency	1 1 1 1 1 1 <i>vision</i> <i>vision</i> 4 4 4 4	Infections/Infestations Infections/Infestations Infections/Infestations Infections/Infestations Infections/Infestations Infections/Infestations Sensory System Disorders Sensory System Disorders Nutritional Disorders Nutritional Disorders Nutritional Disorders Nutritional Disorders Nutritional Disorders Nutritional Disorders Nutritional Disorders Nutritional Disorders Nutritional Disorders Nutritional Disorders Nutritional Disorders
vitamin P deficiency vitiligo vitreous bodies voice loss volume depletion*	vitamin P deficiency vitiligo - voice loss dehydration	4 8, 1 vitreous bodies larynx fluid and electrolyte balance	Nutritional Disorders Skin/Subcutaneous Cellular Tissue Disorders Sensory System Disorders Respiratory System Disorders  Metabolic System Disorders
vomiting vomiting of pregnancy* vulva vulvitis* warts weight loss	vomiting morning sickness - inflammation warts weight loss	3 pregnancy vulva vulva, GS 8, 1	Digestive System Disorders Pregnancy/Birth/Puerperium Disorders Genitourinary System Disorders Inflammation Skin/Subcutaneous Cellular Tissue Disorders Nutritional Disorders
whipworm infection white blood cells* whitlows whooping cough/pertussis	whipworm infection - whitlows whooping cough/pertussis	intestine, DS leukocytes 8, 1	Infections/Infestations Blood System Disorders Skin/Subcutaneous Cellular Tissue Disorders Infections/Infestations
wounds wrists Yangste oedema* yaws yellow fever zygomycosis	wounds - hair-worm infection yaws yellow fever zygomycosis	1 wrists intestine, DS 1 1	Injuries Muscular-Skeletal System Disorders Infections/Infestations Infections/Infestations Infections/Infestations Infections/Infestations

TABLE 53. List of non-accepted specialist terms for neoplasm disorders showing how they should be coded as Level 3 states in the standard.

(Column 3: 1 indicates that relevant Body Parts from Table 33 may be selected; BS - Blood System; CS - Circulatory System; IS - Immune System; MSS - Muscular-Skeletal System.)

Non-Accepted Specialist Terms for Neoplasm Disorders	Level 3 - Disorders Treated	Level 3 - Body Parts Treated
adenoma	benign neoplasms	1
birth marks	benign neoplasms	blood vessels, CS
cancer	malignant	21004 1000010, 00
	neoplasms	1
carcinomas	malignant	·
	neoplasms	l 1
fibroids	benign neoplasms	smooth muscle, MSS
hemagioma	benign neoplasms	blood vessels, CS
Hodgkin's disease	leukaemias	BS/IS
leiomyoma	benign neoplasms	smooth muscle, MSS
lipoma	benign neoplasms	fatty tissue, MSS
lymphangioma	benign neoplasms	lymph vessels, IS
lymphoma	leukaemias	is
lymphosarcoma	leukaemias	IS
melanoma	malignant	
	neoplasms	1
myeloma	leukaemias	IS/BS
non-malignant tumour	benign neoplasms	1
reticulosarcoma	leukaemias	IS/BS
sarcoma	malignant	
	neoplasms	connective tissue
tumours	unspecified	
	neoplasms	1

TABLE 54. List of non-accepted specialist terms for inflammatory disorders, showing the Body Parts Treated, grouped by Body System. (All these disorders should be placed in the **Level 2** disorder group - **Inflammation**.)

Non-Accepted Specialist Terms for Inflammatory Disorders	Level 3 - Body Parts Treated
Circulatory System arteritis carditis endocarditis myocarditis pericarditis pericarditis	arteries heart endocardium myocardium pericardium veins
Digestive System appendicitis cholecystitis colitis duodenitis enteritis gastritis gastroenteritis gingivitis giossitis inflammatory bowel disease pancreatitis peritonitis proctitis stomatitis	appendix gall bladder colon duodenum digestive system stomach digestive system gums tongue colon pancreas peritoneum rectum mouth
Endocrine System thyroiditis	thyroid

/continued over

cervicitis cystitis endometriosis endometriosis endometriosis endidymitis mastitis mastitis nephritis orchitis pelvic inflammation prostatitis salpingo-oophoritis urethritis vaginitis vulvitis  Immune System lymphadenitis lymphangitis  Muscular-Skeletal System bursitis myositis osteitis osteitis osteomyelitis  Nervous System encephalomyelitis myelitis  Respiratory System alveolitis bronchiolitis luterine ligament prostate Fallopian tubes urethra vagina vulva  Immune System lymph glands lymph glands lymph vessels  bursa/synovia muscles bones bones  brain brain, spinal chord meninges spinal chord  Respiratory System alveolitis bronchioles	Non-Accepted Specialist Terms for Inflammatory Disorders	Level 3 - Body Parts Treated
cystitis endometriosis epididymits mastitis nephritis breasts kidneys testes yeldidymits breasts kidneys testes yelvic inflammation prostatitis salpingo-cophoritis urethritis vaginitis vulvitis lymphagnitis vulvitis lymphagnitis losteitis obones osteomyelitis bones osteomyelitis media diveoli bronchiolis bronchiolitis bronchitis myelitis larynx nasopharyngitis pharyngitis pharyngitis pharyngitis pharyngitis pharyngitis pharyngitis pharyngitis noselitis sore throat tonsilist tracheitis sore throat tonsilist tracheitis sore throat conjunctivitis dacryoadenitis myelitis mastolidis myningitis myeningitis myelitis indicate pharyna ducts corneas mastolidis myningitis myeningitis myingitis myingitis myeningitis myingitis myingitis myingitis myingitis myingitis myingitis myingitis mastolidis midale ears ears retinis visuase retinis latinas in retinis visuase middle ears ears retinis visuase retinis visuase retinis visuase retinis visuase retinis visuase mastolidis myingitis eyes middle ears ears retinis visuase retinis visuase retinis visuase retinis visuase retinis visuase middle ears ears retinis visuase retinis visuas visuas visuas visuas visuas visuas visuas visuas visuas visuas visuas visuas visuas visuas visuas visuas visuas visuas visuas vi	Genitourinary System	
endometriosis epididymits epididymits breasts shore statis breasts kidneys corchitis pelvic inflammation prostatitis pelvic inflammation prostatitis pelvic inflammation prostatitis urethritis vaginitis vulvitis urethritis vaginitis vulvitis urethritis vaginitis vulvitis urethritis vaginitis vulvitis urethritis varientis varientis urethritis varientis urethritis varientis urethritis urethritis urethritis urethritis urethritis urethritis bursa/synovia muscles bones where the second is a lymph vessels.  Muscular-Skeletal System bursa/synovia muscles bones bones  Nervous System encephalitis brones bones bones bones where the second is a lymph respiratory system alveolitis bronehitis bronehitis bronehitis allaryndris pronehitis allaryndris pronehitis bronehitis bronehitis bronehitis bronehitis bronehitis bronehitis bronehitis allaryngitis laryngitis pharyngitis pharyngitis pharyngitis pharyngitis pharyngitis pharyngitis pharyngitis pharyngitis urespiratory mucosae pleurisy rhinitis insusitis sore throat throat throat throat throat throat throat throat throat throat throat throat throat throat throat throat dacryoadentitis allachymal glands lachymal glands lachymal ducts conjunctivate lachymal ducts conjunctivate lachymal ducts corneas lachymal ducts corneas lachymal ducts corneas pothalmia eyes widdle ears ears retinist urtins ears lachitis media otitis media otitis media otitis media otitis media otitis erichietis rethritis cervicitis	cervix	
epididymitis mastitis nephritis rephritis rorchitis pelvic inflammation prostatitis salpingo-ophoritis urethritis vaginitis vulvitis limmune System lymphadenitis lymphangitis lymphangitis lymphangitis losteitis sosteitis soste	cystitis	bladder
mastitis nephritis kidneys corchitis pelvic inflammation prostatitis salpingo-oophoritis urethritis vaginitis vulvitis limmure System lymphadenitis lymphangitis lymphangitis lymphangitis lymphangitis lymphangitis bones bones bones bones bones bones bones bones losteitis osteomyelitis bones bones bones bones bones losteitis osteomyelitis brain provided meninges spinal chord meninges spinal chord meninges spinal chord meninges spinal chord respiratory Never lung laryngitis laryngitis laryngitis laryngitis laryngitis nasopharyngitis pharyngitis pharyngitis pharyngitis pharyngitis pharyngitis pherochiolitis bronchiolitis	endometriosis	uterine mucosae
nephritis orchitis orchitis orchitis orchitis orchitis orchitis orchitis prostatitis salpingo-oophoritis urethritis vaginitis vulvitis urethritis vaginitis vulvitis urethritis vaginitis vulvitis urethritis vaginitis vulvitis urethritis vaginitis vulvia urethra vagina vulvia  Immune System lymphadenitis lymphangitis lymphangitis lymphangitis lymphangitis  Muscular-Skeletal System bursitis muscles bones  bones  Nervous System encephalitis encephalomyelitis meningitis pronchioltis bronchioltis catarrh respiratory mucosae alveoli larynx nasopharynx pharynx respiratory mucosae pleura pleura respiratory mucosae respiratory mucosae respiratory mucosae respiratory	epididymitis	epididymis
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catarrh farmer's lung laryngitis nasopharyngitis pharyngitis pheryngitis plegm pleurisy riniitis sinusitis sore throat tonsilitis tracheitis  Sensory System choroiditis conjunctivitis dacryoadenitis dacryocystitis labyrinthitis mastoiditis myringitis myringitis oothalmia oottis media otitis media otitis media  respiratory mucosae pleura nasopharynx pharynx respiratory mucosae pleura nasal tract sinuses throat tonsils trachea  Choroids conjuses conjunctivitie dacryoadenitis lachrymal glands lachrymal ducts corneas inner ears mastoids tympanic membranes eyes otitis media otitis ears retinas	bronchiolitis	bronchioles
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pleurisy rhinitis pleura nasal tract sinuses sore throat thosilitis tracheitis tracheitis trachea  Sensory System choroiditis conjunctivitis dacryoadenitis dacryocystitis keratitis labyrinthitis mastoiditis myringitis opthalmia otitis media otitis retinitis pleuring pleura nasal tract sinuses sinuses throat tonsils trachea  Choroids conjunctivae conjunctivae lachrymal glands lachrymal glands lachrymal ducts corneas inner ears mastoiditis mastoiditis mastoidis tympanic membranes eyes otitis ears retinitis retinas		
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sore throat tonsilitis tracheitis  Sensory System choroiditis conjunctivitis dacryoadenitis dacryocystitis keratitis labyrinthitis mastoiditis myringitis opthalmia otitis media otitis tonsils ttrachea  throat tonsils tonsils trachea  choroids conjunctivae lachrymal glands lachrymal ducts corneas inner ears mastoids tympanic membranes eyes middle ears ears retinitis	*********	11
tonsilitis tracheitis  Sensory System choroiditis conjunctivitis dacryoadenitis dacryocystitis keratitis labyrinthitis mastoiditis myringitis oothalmia otitis media otitis trachea  tonsils ttrachea  tonsils ttrachea  thonsils trachea  thonsils trachea  thonsils trachea  thonsils trachea  choroids conjunctivae lachrymal glands lachrymal ducts corneas inner ears mastoidits mastoids tympanic membranes eyes otitis media otitis ears retinas		
tracheitis  Sensory System choroiditis conjunctivitis dacryoadenitis dacryocystitis keratitis labyrinthitis mastoiditis myringitis opthalmia otitis media otitis retinitis  trachea  trachea  trachea  trachea  trachea  trachea  trachea  trachea  trachea  trachea  trachea  trachea  trachea  trachea  trachea  trachea  trachea  trachea  trachea  thachea  lachrymal glands lachrymal ducts corneas inner ears mastoids mastoids tympanic membranes eyes otitis media otitis ears retinas		1)
Sensory System choroiditis conjunctivitis dacryoadenitis dacryocystitis keratitis labyrinthitis mastoiditis myringitis opthalmia otitis media otitis sensory system choroids conjunctivae lachrymal glands lachrymal ducts corneas inner ears mastoids tympanic membranes eyes middle ears ears retinitis retinas	tonsilitis	tonsils
choroiditis conjunctivitis caryoadenitis dacryocystitis keratitis labyrinthitis mastoiditis myringitis opthalmia otitis media otitis choroids conjunctivae lachrymal glands lachrymal ducts corneas inner ears mastoids tympanic membranes eyes middle ears ears retinitis choroids	tracheitis	trachea
choroiditis conjunctivitis dacryoadenitis dacryocystitis keratitis labyrinthitis mastoiditis myringitis opthalmia otitis media otitis choroids conjunctivae lachrymal glands lachrymal ducts corneas inner ears mastoids tympanic membranes eyes middle ears ears retinitis choroids	Sensory System	
conjunctivitis dacryoadenitis dacryocystitis keratitis labyrinthitis mastoiditis myringitis opthalmia otitis media otitis retinitis  conjunctivae lachrymal glands lachrymal ducts corneas inner ears mastoids tympanic membranes eyes otitis media otitis retinitis  conjunctivae lachrymal glands lac		choroids
dacryoadenitis dacryocystitis keratitis labyrinthitis mastoiditis myringitis opthalmia otitis media otitis retinitis  lachrymal glands lachrymal ducts corneas inner ears mastoids tympanic membranes eyes otitis media otitis ears retinitis		li a a a a a a a a a a a a a a a a a a a
dacryocystitis keratitis labyrinthitis mastoiditis myringitis opthalmia otitis media otitis retinitis  lachrymal ducts corneas inner ears mastoids mastoids tympanic membranes eyes otitis media otitis ears retinitis	•	
keratitis corneas labyrinthitis inner ears mastoiditis mastoids myringitis tympanic membranes opthalmia eyes otitis media middle ears otitis ears retinitis retinas		
labyrinthitis inner ears mastoiditis mastoiditis myringitis tympanic membranes eyes otitis media ears retinitis inner ears middle ears retinas	• •	11
mastoiditis mastoids myringitis tympanic membranes opthalmia eyes otitis media middle ears otitis ears retinitis retinas		11
myringitis tympanic membranes opthalmia eyes otitis media middle ears otitis ears retinitis retinas	•	
opthalmia eyes otitis media middle ears otitis ears retinitis retinas		
otitis media middle ears otitis ears retinitis retinas		
otitis ears retinitis retinas		eyes
retinitis retinas	otitis media	middle ears
ll .	otitis	ears
ll .	retinitis	retinas
		II .

<sup>1</sup> see also Infections/Infestations for bacterial and viral meningitis

TABLE 55. Alphabetical list of non-accepted specialist terms for inflammatory disorders showing Level 3, Body Parts Treated (both broad and narrow terms). (All these disorders should be placed in the **Level 2** state **Inflammation**.)

Non-Accepted Specialist Terms	Level 3 - Body Part Treated		
for Inflammatory disorders	Narrow Term	Broadest Term	
alveolitis	alveoli	Respiratory System	
appendicitis	appendix	Digestive System	
arteritis	arteries	Circulatory System	
bronchiolitis	bronchioles	Respiratory System	
bronchitis	bronchi	Respiratory System	
bursitis	bursa .	Muscular-Skeletal System	
bursitis	synovia	Muscular-Skeletal System	
carditis	heart	Circulatory System	
catarrh cervicitis	respiratory mucosae cervix	Respiratory System Genitourinary System	
cholecystitis	gall bladder	Digestive System	
choroiditis	choroids	Sensory System	
colitis	colon	Digestive System	
conjunctivitis	conjunctivae	Sensory System	
cystitis	bladder	Genitourinary System	
dacryoadenitis	lachrymal glands	Sensory System	
dacryocystitis	lachrymal ducts	Sensory System	
duodenitis	duodenum	Digestive System	
encephalitis	brain	Nervous System	
encephalomyelitis	brain, spinal chord	Digestive System	
endocarditis	endocardium	Circulatory System	
endometriosis	uterine mucosae	Genitourinary System	
enteritis	digestive system	Digestive System	
epididymitis	epididymis alveoli	Genitourinary System Respiratory System	
farmer's lung gastritis	stomach	Digestive System	
gastroenteritis	digestive system	Digestive System	
gingivitis	gums	Digestive System	
glossitis	tongue	Digestive System	
inflammatory bowel disease	colon	Digestive System	
keratitis	corneas	Sensory System	
labyrinthitis	inner ears	Sensory System	
laryngitis	larynx	Respiratory System	
lymphadenitis	lymph glands	Immune System	
lymphangitis	lymph vessels	Immune System	
mastitis	breasts	Genitourinary System	
mastoiditis	mastoid meninges	Sensory System Nervous System	
meningitis myelitis	spinal chord	Nervous System	
myocarditis	myocardium	Circulatory System	
myositis	muscles	Muscular-Skeletal System	
myringitis	tympanic membranes	Sensory System	
nasopharyngitis	nasopharynx	Respiratory System	
nephritis	kidneys	Genitourinary System	
opthalmia	eyes	Sensory System	
orchitis	testes	Genitourinary System	
osteitis	bones	Muscular-Skeletal System	
osteomyelitis	bones	Muscular-Skeletal System	
otitis media otitis	middle ears ears	Sensory System Sensory System	
otitis pancreatitis	pancreas	Digestive System,	
pelvic inflammation	uterine ligament	Genitourinary System	
pericarditis	pericardium	Circulatory System	
peritonitis	peritoneum	Digestive System	
pharyngitis	pharynx	Respiratory System	
phlebitis	veins	Circulatory System	
phlegm	respiratory mucosae	Respiratory System	

Non-Accepted Specialist Terms for Inflammatory disorders	Level 3 - Body Part Treated	
	Narrow Term	Broadest Term
pleurisy proctitis prostatitis retinitis rhinitis salpingo-oophoritis sinusitis sore throat stomatitis thyroiditis tracheitis urethritis uveitis vaginitis vulvitis	pleura rectum prostate retina nasal tract Fallopian tubes sinus throat mouth thyroid tonsils trachea urethra irises vagina yulva	Respiratory System Digestive System Genitourinary System Sensory System Respiratory System Genitourinary System Respiratory System Respiratory System Digestive System Endocrine System Respiratory System Respiratory System Respiratory System Genitourinary System Genitourinary System Genitourinary System Genitourinary System

TABLE 56. List of Body Parts most likely to be affected by Inflammation.

**BLOOD SYSTEM** 

spleen

CIRCULATORY SYSTEM

arteries heart myocardium pericardium veins

DIGESTIVE SYSTEM

anal canal
anus
appendix
bile duct
caecum
colon
duodenum
gall bladder
gums
ileum
intestine
jejenum

large intestine lips liver mouth oesophagus pancreas peritoneum rectum

rectum salivary glands small intestine stomach teeth tongue

**ENDOCRINE SYSTEM** 

adrenal glands thymus thyroid

GENITOURINARY SYSTEM

areola

Bartholin's gland bladder breasts cervix

epididymis Fallopian tubes female genitals

kidneys
labia
male genitals
nipples
ovaries
penis
perineum
peritoneum
prostate
scrotum
spermatic chord

urethra uterine ligament

testes

uterine mucosae uterus vagina vas deferens vulva

IMMUNE SYSTEM lymph glands lymph nodes lymph vessels

MUSCULAR-SKELETAL SYSTEM

bones bursa

connective tissues

fascia

invertebral discs

joints knees legs muscles sacroiliac region synovia tendons thighs

NERVOUS SYSTEM

brain

cerebral meninges cerebrum cranial nerves meninges nerves spinal chord RESPIRATORY SYSTEM

bronchi bronchioles glottis larynx lungs nasal tract nasopharynx nose

alveoli

pleura respiratory mucosae

sinuses throat tonsils trachea

pharynx

SENSORY SYSTEM

choroids conjunctivae corneas ears

Eustachian tubes

eyelids
eyes
inner ears
irises

lachrymal ducts lachrymal glands mastoids middle ears optic nerves orbit of eyes ossicles outer ears retinas

tympanic membranes

SKIN/SUBCUTANEOUS CELLULAR

TISSUE

skin

skin of specific areas

navel perianal area

subcutaneous cellular tissue

Table 57. List of Body Parts most likely to be affected by  $\mathbf{Pain}^1$ .

	NALIGOULAR OVELETAL OVETEM	t
CIRCULATORY SYSTEM	MUSCULAR-SKELETAL SYSTEM	spine tendons
heart	ankles	131111111111111111111111111111111111111
pericardium	arms	thighs
	back	toes
DIGESTIVE SYSTEM	body	upper limbs
abdomen	bones	vertebrae
anus	bursa	wrists
bile duct	cartilages	
caecum	chest	NERVOUS SYSTEM
colon	соссух	nerves
gall bladder	elbows	
mouth	extremities	RESPIRATORY SYSTEM
rectum	face	diaphragm
stomach	fascia	larynx
teeth	feet	nasopharynx
tongue	fingers	nose
	hands	pharynx
GENITOURINARY SYSTEM	head	pleura
bladder	hips	sinuses
breasts	invertebral discs	throat
female genitals	jaw	
foreskin	joints	SENSORY SYSTEM
kidneys	knees	ears
male genitals	legs	eyes
ovaries	ligaments	mastoids
penis	limbs	orbits of eyes
perineum	lower limbs	
scrotum	lumbar region	SKIN/SUBCUTANEOUS CELLULAR
seminal vesicles	mandible	TISSUE
spermatic chord	maxilla	skin
testes	muscles	
ureter	neck	
urinary tract	pelvis	
uterus	ribs	
vagina	sacroiliac region	
vulva	shoulder	

<sup>1</sup> see also menstrual pain, labour pain, ovulatory pain, psychogenic pain, and growing pain within their respective Level 2 disorder groups (not within Pain)

TABLE 58. Medicinal terms which relate to allergies. (See key to Table 52 for explanation of column 3.)

Medicinal Terms (both accepted and non-accepted)	Level 3 - Disorders Treated	Level 3 - Body Parts/ Processes Treated	Level 2 states
anaphylactic shock allergic arthritis allergic asthma allergic colitis allergic contact dermatitis allergic gastroenteritis allergic reactions allergic reactions allergic urticaria hay fever rhinitis*  extrinsic allergic alveolitis 1 contact dermatitis 2 dermatitis dermatitis due to internally taken substances	anaphylactic shock allergic arthritis allergic asthma allergic colitis allergic contact dermatitis allergic gastroenteritis allergic reactions allergic rhinitis (non-pollen) allergic urticaria hay fever inflammation  extrinsic allergic alveolitis contact dermatitis dermatitis dermatitis due to internally taken substances	4 5 - 3 8, 1 3 4 - 8, 1 - nasal tract, RS - 8, 1 8, 1 8, 1	Poisonings Muscular-Skeletal System Respiratory System Digestive System Skin/Subcutaneous Cellular Tissue Digestive System Poisonings Respiratory System Skin/Subcutaneous Cellular Tissue Respiratory System Inflammation Respiratory System Skin/Subcutaneous Cellular Tissue Skin/Subcutaneous Cellular Tissue Skin/Subcutaneous Cellular Tissue

TABLE 59. Medicinal terms which relate to ulcers. (See key to Table 52 for explanation of column 3.)

Medicinal Terms (both accepted and non-accepted)	Level 3 - Disorders Treated	Level 3 - Body Parts/ Processes Treated	Level 2 states
duodenal ulcers  gastric ulcers gastro-jejunal ulcers peptic ulcers ulcers ulcers	duodenal ulcers gastric ulcers gastro-jejunal ulcers peptic ulcers ulcers duodenal ulcers	small intestine/ duodenum/ jejunum/ ileum stomach 3 3 small intestine/ duodenum/	Digestive System Digestive System Digestive System Digestive System Skin/Subcutaneous Cellular Tissue
ulcers * ulcers * ulcers *	gastric ulcers peptic ulcers gastro-jejunal ulcers	jejunum/ ileum stomach 3 3	Digestive System Digestive System Digestive System Digestive System

 $<sup>^{1}</sup>_{2} \text{due to dust, fungi, including actinomycetes etc.} \\ ^{2}_{2} \text{due to detergents, oils and grease, solvents, drugs and medicines, chemical products, food contact, plants etc.}$ 

TABLE 60. Alphabetical list of Level 3, Disorders Treated within the **Level 2** group **Infections/Infestations** showing the causal organism(s) and organism group(s). (Number of species is unknown for many genera.)

		T
Level 3 - Disorders Treated	Causal Organisms	Organism Groups
actinomycosis	Actinomyces	   Bacteria
adenoviral infections	Adenovirus	Viruses
AIDS	HIV	Viruses
allescheriosis	Pseudallescheria	Fungi
amoebiasis	<b>[</b> -	Protozoa
amoebiasis	Amoebida	Protozoa
amoebic dysentery	Entamoeba histolytica	Protozoa
annelid worm infestations	-	Annelida
anthrax	Bacillus anthracis	Bacteria
arachnid infestations	-	Arthropoda-Arachnida
arboviral infection	Arbovirus	Viruses
arthropod infestations	-	Arthropoda
aspergillosis	Aspergillus	Fungi
bacterial infections	Escherischia coli	Bacteria
bacterial infections	Haemophilus influenzae	Bacteria
bacterial infections	Klebsiella pneumoniae	Bacteria
bacterial infections	Mycobacterium spp. <sup>1</sup>	Bacteria
bacterial infections	Mycoplasma	Bacteria
bacterial infections	Proteus mirabilis	Bacteria
bacterial infections	Proteus morganii	Bacteria
bacterial infections	Serratia	Bacteria
bacterial infections	Staphylococcus	Bacteria
bacterial infections	Streptococcus	Bacteria
bacterial infections	Streptococcus pneumoniae	Bacteria
bacterial infections (intestine)	Aeromonas	Bacteria
bacterial infections (intestine)	Arizona	Bacteria
bacterial infections (intestine)	Escherischia coli	Bacteria
bacterial infections (intestine)	Listeria monocytogenes	Bacteria
bacterial infections (intestine)	Proteus mirabilis	Bacteria
bacterial infections (intestine)	Proteus morganii	Bacteria
bacterial infections (intestine)	Pseudomonas	Bacteria
bacterial infections (intestine)	Staphylococcus sp.	Bacteria
bacterial infections (intestine)	Yersinia enterocolitica	Bacteria
balantidiasis	Balantidium coli	Protozoa
blastomycosis	Blastomyces dermatitidis	Fungi
botulism	Clostridium botulinum	Bacteria
brucellosis	Brucella abortus	Bacteria
brucellosis	Brucella canis	Bacteria
brucellosis	Brucella melitensis	Bacteria
brucellosis	Brucella suis	Bacteria
candidiasis	Candida	Fungi
capillariasis	Capillaria	Nemata
cerebral malaria	Plasmodium falciparum	Protozoa
Chagas' disease	Trypanosoma cruzi	Protozoa
chicken pox	Postvaricella encephalitis	Viruses
chicken pox	Varicella pneumonitis	Viruses
chiggers	Trombicula larvae	Arthropoda-Arachnida-Acari
chills	<b> </b>	<u> </u>
cholera	Vibrio cholerae	Bacteria
chromoblastomycosis	Cladosporium carrionii	Fungi
chromoblastomycosis	Phialophora spp.	Fungi
chromoblastomycosis	Rhinocladiella spp.	Fungi
cladosporiosis	Cladosporium	Fungi
coccidiomycosis	Coccidioides immitis	Fungi
coccidiosis	Isospora bellii	Protozoa
coccidiosis	Isospora hominis	Protozoa
colds	Coronoavirus	Viruses
colds	Influenza virus	Viruses
colds	Parainfluenza virus	Viruses
colds	Rhinovirus	Viruses
colds	Syncytial virus	Viruses
cold sores	Herpes simplex	Viruses

<sup>&</sup>lt;sup>1</sup>non-leprosy/non-tuberculosis (*Mycobacterium leprae, M. tuberculosis*)

Level 3 - Disorders Treated	Causal Organisms	Organism Groups
cowpox	Cowpox virus	Viruses
coxsackie	Enterovirus coxsackie	Viruses
creeping eruption	Ancylostoma braziliense	Nemata
creeping eruption	Ancylostoma caninum	Nemata
Creutzfeldt Jakob disease	Slow virus	Viruses
cryptococcosis	Cryptococcus neoformans	Fungi
cryptosporidiosis	Cryptosporidium	Protozoa
dengue	Dengue Arbovirus	Viruses
dientamoebiasis	Dientamoeba fragilis	Protozoa
dipetalonemiasis	Dipetalonema	Nemata (Filarial)
diphtheria	Corynebacterium diphtheriae	Bacteria
encephalitis (viral)	Arbovirus	Viruses
enteroviral infection	Enterovirus	Viruses
erysipelas (of the skin)	Streptococcus pyogenes	Bacteria
erysepelas	Erysipelothrix incidiosa	Bacteria
favus favus	Trichophyton gallinae	Fungi
favus	Trichophyton schoenleinii Trichophyton verrucosum	Fungi
favus fever	_ rrichophyton verrucosum	Fungi
filarial nematode infections	-	Nemata (Filarial)
filariasis	<b>II</b> _	Nemata (Filarial) Nemata (Filarial)
filariasis	Brugia malayi	Nemata (Filarial)
filariasis	Masorella ozzardi	Nemata (Filarial)
filariasis	Wuchereria bancroftii	Nemata (Filarial)
flagellate protozoa infections	flagellate protozoa <sup>2</sup>	Protozoa
flea infestations	Ctenocephalides canis	Arthropoda - Insecta
flea infestations	Ctenocephalides felis	Arthropoda - Insecta
flea infestations	Pulex irritans	Arthropoda - Insecta
fluke infections	-	Platyhelminthes-Trematoda
fluke infections	Clonorchis	Platyhelminthes-Trematoda
fluke infections	Dicrocoelium	Platyhelminthes-Trematoda
fluke infections	Echinostoma	Platyhelminthes-Trematoda
fluke infections	Fasciola	Platyhelminthes-Trematoda
fluke infections	Fasciolopsis	Platyhelminthes-Trematoda
fluke infections	Gastrodiscoides	Platyhelminthes-Trematoda
fluke infections	Heterophyes	Platyhelminthes-Trematoda
fluke infections	Metagonimus	Platyhelminthes-Trematoda
fluke infections	Opisthorchis	Platyhelminthes-Trematoda
fluke infections	Stellantochasmus	Platyhelminthes-Trematoda
food poisoning (bacterial)	Bacillus cereus	Bacteria
food poisoning (bacterial)	Campylobacter spp.	Bacteria
food poisoning (bacterial)	Clostridium perfringens	Bacteria
food poisoning (bacterial)	Clostridium spp.	Bacteria
food poisoning (bacterial)	Staphylococcus	Bacteria
food poisoning (bacterial)	Vibrio parahaemolyticus	Bacteria Viruses
foot and mouth	Apthovirus <i>Piedraia hortai</i>	
fungal infections	Piedraia nortai Pyrenochaeta romeroi	Fungi Fungi
fungal infections fungal infections	Trichosporon	Fungi
fungal infections fungal infections	Zopfia senegalensis	Fungi
gas gangrene	Clostridium hystolyticum	Bacteria
gas gangrene gas gangrene	Clostridium oedematiens	Bacteria
gas gangrene	Clostridium perfringens	Bacteria
gas gangrene	Clostridium septicum	Bacteria
gas gangrene	Clostridium sordelli	Bacteria
giardiasis	Giardia lamblia	Protozoa
glanders	Pseudomonas mallei	Bacteria
gnathostomiasis	Gnathostoma	Nemata
gonorrhoea	Neisseria gonorrhoea	Bacteria
guinea worm infection	Dracunculus medinensis	Nemata
haemorrhagic fever	Arboviruses	Viruses
haemorrhagic fever	Arena viruses	Viruses
haemorrhagic fever	Aunya viruses	Viruses
haemorrhagic fever	Flaviviruses	Viruses
hair-worm infections <sup>3</sup>	Trichostrongyloides	Nemata

<sup>2</sup>non *Trichomonas* <sup>3</sup>Yangste oedema

Level 3 - Disorders Treated	Causal Organisms	Organism Groups
helminth worm infections	-	Helminths <sup>4</sup>
hepatitis	Hepatitis virus	Viruses
hepatitis A	Hepatitis A virus	Viruses
hepatitis B	Hepatitis B virus	Viruses
hepatitis non-A, non-B	Hepatitis non-A, non-B virus	Viruses
herpes	Herpes simplex	Viruses
herring worm disease	Anisakia larvae	Nemata
histoplasmosis	Histoplasma capsulatum	Fungi
HIV infections	HIV virus	Viruses
hookworm infections (New World)	Necator americanus	   Nemata
hookworm infections (Old		
World)	Ancylostoma duodenale	Nemata
hydatid disease	Echinococcus granulosus	Platyhelminthes-Cestoda
hydatid disease	Echinococcus multilocularis	Platyhelminthes-Cestoda
impetigo	Staphylococcus aureus	Bacteria
impetigo	Streptococcus pyogenes	Bacteria
influenza	Influenza virus	Viruses
insect infestations	-   -	Arthropoda-Insecta
kuru	Slow virus	Viruses
leech infestation leishmaniasis	Hirundinea Leishmania	Annelida
121211111111111111111111111111111111111	13	Protozoa
leprosy	Mycobacterium leprae Leptospira interrogans	Bacteria (Spirochastas)
leptospirosis lice infestations	Pediculus	Bacteria (Spirochaetes) Arthropoda-Insecta
listeriosis	Listeria monocytogenes	Bacteria
loaisis	Loa loa	Nemata (Filarial)
lobomycosis	Loboa loboi	Fungi
lyme disease	Borellia burgdorferi	Bacteria (Spirochaetes)
maduromycosis	Acremonium falciforme	Funai
maduromycosis	Actinomadura	Bacteria
maduromycosis	Aspergillus nidulans	Fungi
maduromycosis	Madurella	Fungi
maduromycosis	Madurella mycetomia	Fungi
maduromycosis	Nocardia	Bacteria
maduromycosis	Pseudallescheria	Fungi
maduromycosis	Streptomyces	Bacteria
malaria	Plasmodium falciparum	Protozoa
malaria	Plasmodium malariae	Protozoa
malaria	Plasmodium ovale	Protozoa
malaria	Plasmodium vivax	Protozoa
measles	Morbillivirus	Viruses
melioidosis meningitis (bacterial)	Pseudomonas pseudomallei Haemophilus influenzae	Bacteria
meningitis (bacterial) meningitis (bacterial)	Neisseria gonorrhoea	Bacteria   Bacteria
meningitis (bacterial)	Serratia	Bacteria
meningitis (bacterial)	Staphylococcus aureus	Bacteria
meningitis (bacterial)_	Streptococcus pneumoniae	Bacteria
meningitis (bacterial) <sup>5</sup>	Neisseria meningitidis	Bacteria
meningitis (viral)	Adenovirus	Viruses
meningitis (viral)	Meningitis virus	Viruses
meningitis (viral)	Enterovirus	Viruses
mumps	Paramyxovirus	Viruses
mycotic mycetomas	Neotestudina rosatii	Fungi
mycotic mycetomas	Coccidioides immitis	Fungi
mycotic mycetomas	Aspergillus	Fungi
myiasis	Diptera larvae	Arthropoda-Insecta
nematode infections	<b>  -</b>	Nemata
nocardiosis	Nocardia	Bacteria
onchocerciasis	Onchocerca	Nemata (Filarial)
paracoccidioidomycosis	Paracoccidiodes brasiliensis	Fungi Bacteria
pasteurellosis pasteurellosis	Pasteurella multocida Pasteurella pseudotuberculosis	Bacteria Bacteria
pasteurellosis periodic fever	. asteurena pseudotuberculosis	- Dagtella
periodic rever pinta	Treponema carateum	Bacteria (Spirochaetes)
рина	перопена сагасеції	Dacteria (Spirochaetes)

 $<sup>^{4}</sup>_{\rm 5}$  Platyhelminthes and Nemata  $^{5}_{\rm epidemic\ meningitis}$ 

		T
Level 3 - Disorders Treated	Causal Organisms	Organism Groups
pinworm infection	Enterobius vermicularis	Nemata
pityriasis nigra	Exophiala werneckii	Fungi
pityriasis nigra	Stenella araguata	1 5
plague	Yersinia pestis	Fungi Bacteria
pneumonia (bacterial)	Haemophilus influenzae	Bacteria
pneumonia (bacterial)	Klebsiella pneumoniae	Bacteria
pneumonia (bacterial)	Legionella pneumophila	
pneumonia (bacterial)	Serratia	Bacteria   Bacteria
pneumonia (bacterial)	Staphylococcus	Bacteria
pneumonia (bacterial)	Streptococcus pneumoniae <sup>6</sup>	Bacteria
pneumonia (bacterial)	Streptococcus pyogenes	Bacteria Bacteria
pneumonia (protozoal)	Pneumocystis carinii	Protozoa
pneumonia (viral)	Pneumonia virus	Viruses
polio	Poliovirus	Viruses
protozoal infections	- Olloviius	Protozoa
psittacosis 7	Chlamydia psittaci	Bacteria
Q fever	Coxiella burnetti	
rabies	Lvssa virus	Bacteria (Rickettsias) Viruses
rables rat bite fever	Spirillum minor	Viruses   Bacteria
rat bite fever	Streptobacillus moniliformis	Bacteria
rat bite rever relapsing fever	Streptobacilius moniliformis Borellia	Bacteria (Spirochaetes)
	Rhinosporidium seeberi	•
rhinosporidosis	Trypanosoma rhodesiense	Fungi Protozoa
Rhodesian trypansosomiasis		Fungi
ringworm	Epidermophyton spp.	
ringworm	Microsporum audoinii	Fungi Fungi
ringworm	Microsporum canis Trichophyton schoenleinii	Fungi Fungi
ringworm	Ascaris lumbidioides	Nemata
roundworm infections rubella	Rubella	Viruses
salmonellosis	Salmonella	Bacteria
scabies	Desmodes	Arthropoda-Arachnida-Acari
scables		Arthropoda-Arachnida-Acari
scables	Psoroptes Sarcoptes scabei	Arthropoda-Arachnida-Acari
scaples scarlet fever/scarlatina	Streptococcus pyogenes	Bacteria
scariet rever/scariatina schistosomiasis	Schistosoma	Platyhelminthes-Trematoda
	Escherischia coli	Bacteria
septicaemia	Haemophilus influenzae	Bacteria
septicaemia septicaemia	Pseudomonas	Bacteria
septicaemia septicaemia	Salmonella	Bacteria
septicaemia	Serratia	Bacteria
septicaemia	Staphylococcus	Bacteria
septicaemia	Streptococcus	Bacteria
septicaemia	Streptococcus pneumoniae	Bacteria
shigellosis	Shigella boydii	Bacteria
shigellosis	Shigella dysenteriae	Bacteria
shigellosis	Shigella flexneri	Bacteria
shigellosis	Shigella sonnei	Bacteria
shingles	Herpes zoster	Viruses
slow virus infections	Slow virus	Viruses
smallpox	Variola major	Viruses
smallpox	Variola minor	Viruses
sporotrichosis	Sporothrix schenckii	Fungi
syphilis	Treponema pallidum	Bacteria
tapeworm infections		Platyhelminthes-Cestoda
tapeworm infections	Cysticercus cellulosae	Platyhelminthes-Cestoda
tapeworm infections	Diphyllobothrium	Platyhelminthes-Cestoda
tapeworm infections	Diplogonoporus	Platyhelminthes-Cestoda
tapeworm infections	Dipylidium	Platyhelminthes-Cestoda
tapeworm infections	Hymenolepis	Platyhelminthes-Cestoda
tapeworm infections	Sparganum	Platyhelminthes-Cestoda
tapeworm infections	Taenia spp.	Platyhelminthes-Cestoda
tetanus	Clostridium tetani	Bacteria
threadworm infections	Strongyloides stercoralis	Nemata
toxaemia	-	-
	Toxocara	Nemata

 $\begin{array}{l} {\rm 6} \\ {\rm 7} \\ {\rm ornithosis} \end{array}$ 

Level 3 - Disorders Treated	Causal Organisms	Organism Groups
toxoplasmosis trachoma trichinosis trichomoniasis	Toxoplasma gondii Chlamydia trachomatis Trichinella spiralis Trichononas	Protozoa Bacteria Nemata Protozoa (Flagellates) Protozoa
trypanosomiasis tuberculosis tularemia tungiasis typhoid/paratyphoid	Trypanosoma Mycobacterium tuberculosis Francisella tularensis Tunga penetrans Salmonella typha	Bacteria Bacteria Arthropoda-Insecta Bacteria
typhoid/paratyphoid typhoid typhus Vincent's angina viral infections	Salmonella paratypha Rickettsia spp. Treponema vincentii	Bacteria Bacteria Bacteria Viruses
viral warts whipworm infection whooping cough	Papillomavirus Trichuris Bordetella bronchiseptica Bordetella parapertussis	Viruses Nemata Bacteria Bacteria
whooping cough whooping cough/pertussis yaws yellow fever	Bordetella pertussis Treponema pertenue Flavivirus	Bacteria Bacteria Viruses
zygomycosis zygomycosis zygomycosis zygomycosis	Basidiobolus heptosporus Absidia corymbifera Conidiobolus coronatus Rhizopus orizae	Fungi Fungi Fungi Fungi

TABLE 61. Alphabetical list of medicinally important organisms showing the Level 3 Disorders within **Infections/Infestations** that they cause, and the organism group to which they belong (see also Appendix B, Table 46).

Causal Organisms	Organism Groups	Level 3 - Disorders Treated
		toxaemia
-	-	chills
-	-	fever
-		periodic fever
•	Annelida	annelid worm infestations
	Arthropoda	arthropod infestations
-	Arthropoda-Arachnida	arachnid infestations
-	Arthropoda-Insecta	insect infestations
-	Helminths <sup>1</sup>	helminth worm infections
-	Platyhelminthes-Cestoda	tapeworm infections
-	Nemata	nematode infections
	Nemata (Filarial)	filariasis
-	Platyhelminthes-Trematoda	fluke infections
-	Protozoa	amoebiasis
_	Protozoa	protozoal infections
-	Viruses	viral infections
Absidia corymbifera	Fungi	zygomycosis
Acremonium falciforme	Fungi	maduromycosis
Actinomadura	Bacteria	maduromycosis
Actinomyces	Bacteria	actinomycosis
Adenovirus	Viruses	adenoviral infection
Adenovirus	Viruses	meningitis (viral)
Aeromonas	Bacteria	bacterial infections (intestine)
Amoebida	Protozoa	amoebiasis
Ancylostoma braziliense	Nemata	creeping eruption
Ancylostoma caninum	Nemata	creeping eruption
Ancylostoma duodenale	Nemata	hookworm infections (Old World)
Anisakia larvae	Nemata	herring worm disease
Apthovirus	Viruses	foot and mouth
Arbovirus	Viruses	arboviral infection

<sup>&</sup>lt;sup>1</sup>Platyhelminthes and Nemata

Causal Organisms	Organism Groups	Level 3 - Disorders Treated
Arbovirus	Viruses	encephalitis (viral)
Arbovirus	Viruses	haemorrhagic fever
Arena viruses	Viruses	haemorrhagic fever
Arizona	Bacteria	bacterial infections (intestine)
Ascaris lumbidioides	Nemata	roundworm infections
Aspergillus	Fungi	aspergillosis
Aspergillus	Fungi	mycotic mycetomas
Aspergillus nidulans Bacillus anthracis	Fungi	maduromycosis
Bacillus cereus	Bacteria Bacteria	anthrax
Balantidium coli	Protozoa	food poisoning (bacterial) balantidiasis
Basidiobolus heptosporus	Fungi	zygomycosis
Blastomyces dermatitidis	Fungi	blastomycosis
Bordetella bronchiseptica	Bacteria	whooping cough
Bordetella parapertussis	Bacteria	whooping cough
Bordetella pertussis	Bacteria	whooping cough
Borellia	Bacteria (Spirochaetes)	relapsing fever
Borellia burgdorferi	Bacteria (Spirochaetes)	lyme disease
Brucella abortus	Bacteria	brucellosis
Brucella canis	Bacteria	brucellosis
Brucella melitensis	Bacteria	brucellosis
Brucella suis	Bacteria	brucellosis
Brugia malayi	Nemata (Filarial)	filariasis
Bunya viruses	Viruses	haemorrhagic fever
Campylobacter spp.	Bacteria	food poisoning (bacterial)
Candida	Fungi	candidiasis
Capillaria	Nemata	capillariasis
Chlamydia psittaci	Bacteria	psittacosis
Chlamydia trachomatis	Bacteria	trachoma cladosporiosis
Cladosporium Cladosporium carrionii	Fungi Fungi	chromoblastomycosis
Clonorchis	Platyhelminthes-Trematoda	fluke infections
Clostridium botulinum	Bacteria	botulism
Clostridium hystolyticum	Bacteria	gas gangrene
Clostridium oedematiens	Bacteria	gas gangrene
Clostridium perfringens	Bacteria	food poisoning (bacterial)
Clostridium perfringens	Bacteria	gas gangrene
Clostridium septicum	Bacteria	gas gangrene
Clostridium sordelli	Bacteria	gas gangrene
Clostridium spp.	Bacteria	food poisoning (bacterial)
Clostridium tetani	Bacteria	tetanus
Coccidioides immitis	Fungi	mycotic mycetomas
Coccidioides immitis	Fungi	coccidiomycosis
Conidiobolus coronatus	Fungi	zygomycosis
Coronoavirus	Viruses	colds
Corynebacterium diphtheriae	Bacteria	diphtheria
Cowpox virus Coxiella burnetti	Viruses Bacteria (Rickettsias)	cowpox Q fever
Cryptococcus neoformans	Fungi	cryptococcosis
Cryptococcus neorormans Cryptosporidium	Protozoa	cryptosporidiosis
Ctenocephalides canis	Arthropoda - Insecta	flea infestations
Ctenocephalides felis	Arthropoda - Insecta	flea infestations
Cysticercus cellulosae	Platyhelminthes-Cestoda	tapeworm infections
Dengue Arbovirus	Viruses	dengue
Desmodes	Arthropoda-Arachnida-Acari	scabies
Dicrocoelium	Platyhelminthes-Trematoda	fluke infections
Dientamoeba fragilis	Protozoa	dientamoebiasis
Dipetalonema	Nemata (Filarial)	dipetalonemiasis
Diphyllobothrium	Platyhelminthes-Cestoda	tapeworm infections
Diplogonoporus	Platyhelminthes-Cestoda	tapeworm infections
Diptera larvae (fly larvae)	Arthropoda-Insecta	myiasis
Dipylidium Dracunculus medinensis	Platyhelminthes-Cestoda Nematodes	tapeworm infections
Echinococcus granulosus	Platyhelminthes-Cestoda	guinea worm infection hydatid disease
Echinococcus granulosus Echinococcus multilocularis	Platyhelminthes-Cestoda Platyhelminthes-Cestoda	hydatid disease
Echinostoma	Platyhelminthes-Trematoda	fluke infections
Entamoeba histolytica	Protozoa	amoebic dysentery
Enterobius vermicularis	Nemata	pinworm infection

Causal Organisms	Organism Groups	Level 3 - Disorders Treated
Enterovirus	Viruses	enteroviral infection
Enterovirus	Viruses	meningitis (viral)
Enterovirus coxsackie	Viruses	coxsackie
Epidermophyton spp.	Fungi	ringworm
Erysipelothrix incidiosa	Bacteria	erysepelas
Escherischia coli	Bacteria	bacterial infections
Escherischia coli	Bacteria	bacterial infections (intestine)
Escherischia coli	Bacteria	septicaemia
Exophiala werneckii	Fungi	pityriasis nigra
Fasciola	Platyhelminthes-Trematoda	fluke infections
Fasciolopsis	Platyhelminthes-Trematoda	fluke infections
flagellate protozoa	Protozoa - Flagellates	flagellate protozoa infections
Flavivirus	Viruses	yellow fever
Flaviviruses	Viruses	haemorrhagic fever
	Arthropoda - Insecta	myiasis
fly larvae Francisella tularensis	Bacteria	tularemia
		fluke infections
Gastrodiscoides	Platyhelminthes-Trematoda	
Giardia lamblia	Protozoa	giardiasis
Gnathostoma	Nematodes	gnathostomiasis
Haemophilus influenzae	Bacteria	bacterial infections
Haemophilus influenzae	Bacteria	meningitis (bacterial)
Haemophilus influenzae	Bacteria	pneumonia (bacterial)
Haemophilus influenzae	Bacteria	septicaemia
Hepatitis A virus	Viruses	hepatitis A
Hepatitis B virus	Viruses	hepatitis B
Hepatitis non-A, non-B virus	Viruses	hepatitis non-A, non-B
Hepatitis virus	Viruses	hepatitis
Herpes simplex	Viruses	herpes
Herpes zoster	Viruses	shingles
Heterophyes	Platyhelminthes-Trematoda	fluke infections
Hirundinea	Annelida	leech infestation
Histoplasma capsulatum	Fungi	histoplasmosis
HIV	Viruses	AIDS
HIV virus	Viruses	HIV infections
Hymenolepis	Platyhelminthes-Cestoda	tapeworm infections
Influenza virus	Viruses	colds
	l '	1
Influenza virus	Viruses	influenza
Isospora bellii	Protozoa	coccidiosis
Isospora hominis	Protozoa	coccidiosis
Klebsiella pneumoniae	Bacteria	bacterial infections
Klebsiella pneumoniae	Bacteria	pneumonia (bacterial)
Legionella pneumophila	Bacteria	pneumonia (bacterial)
Leishmania	Protozoa	leishmaniasis
Leptospira interrogans	Bacteria (Spirochaetes)	leptospirosis
lice	Arthropoda - Insecta	lice infestations
Listeria monocytogenes	Bacteria	bacterial infections (intestine)
Listeria monocytogenes	Bacteria	listeriosis
Loa loa	Nemata (Filarial)	loaisis
Loboa loboi	Fungi	lobomycosis
Lyssa virus	Viruses	rabies
Madurella	Fungi	maduromycosis
Madurella mycetomia	Fungi	maduromycosis
Masorella ozzardi	Nemata (Filarial)	filariasis
Meningitis virus	Viruses	meningitis (viral)
Metagonimus	Platyhelminthes-Trematoda	fluke infections
Microsporum audoinii	Fungi	ringworm
Microsporum canis	Fungi	ringworm
Morbillivirus	Viruses	measles
Mycobacterium leprae	Bacteria	leprosy
•		bacterial infections <sup>2</sup>
Mycobacterium spp.	Bacteria	
Mycobacterium tuberculosis	Bacteria	tuberculosis
Mycoplasma	Bacteria	bacterial infections
Necator americanus	Nemata	hookworm infections (New World)
Neisseria gonorrhoea	Bacteria	gonorrhoea
	Bacteria	I maningitia /haatarial\
Neisseria gonorrhoea Neisseria meningitidis	Bacteria	meningitis (bacterial) meningitis (bacterial)

<sup>&</sup>lt;sup>2</sup>non-leprosy/non-tuberculosis

Causal Organisms	Organism Groups	Level 3 - Disorders Treated
Neotestudina rosatii	Fungi	mycotic mycetomas
Nocardia	Bacteria	maduromycosis
Nocardia	Bacteria	nocardiosis
Onchocerca	Nemata (Filarial)	onchocerciasis
Opisthorchis	Platyhelminthes-Trematoda	fluke infections
Papillomavirus	Viruses	viral warts
Paracoccidiodes brasiliensis	Fungi	paracoccidioidomycosis
Parainfluenza virus	Viruses	colds
Paramyxovirus	Viruses	mumps
Pasteurella multocida	Bacteria	pasteurellosis
Pasteurella pseudotuberculosis	Bacteria	pasteurellosis
Pediculus	Arthropoda-Insecta	lice infestations
Phialophora spp.	Fungi	chromoblastomycosis
Piedraia hortai	Fungi	fungal infections
Plasmodium falciparum	Protozoa	cerebral malaria
Plasmodium falciparum	Protozoa	malaria
Plasmodium malariae	Protozoa	malaria
Plasmodium ovale	Protozoa	malaria
Plasmodium vivax	Protozoa	malaria
Pneumocystis carinii	Protozoa	pneumonia (protozoal)
Pneumonia virus	Viruses	pneumonia (viral)
Poliovirus	Viruses	polio
Postvaricella encephalitis	Viruses	chicken pox
Proteus mirabilis	Bacteria	bacterial infections
Proteus mirabilis Proteus mirabilis	Bacteria	bacterial infections (intestine)
	Bacteria Bacteria	bacterial infections (intestine)
Proteus morganii	Bacteria Bacteria	bacterial infections (intestine)
Proteus morganii Pseudallescheria		allescheriosis
	Fungi	<b>.</b>
Pseudallescheria	Fungi	maduromycosis
Pseudomonas Pseudomonas	Bacteria	bacterial infections (intestine)
Pseudomonas	Bacteria	septicaemia
Pseudomonas mallei	Bacteria	glanders
Pseudomonas pseudomallei	Bacteria	melioidosis
Psoroptes	Arthropoda-Arachnida-Acari	scabies
Pulex irritans	Arthropoda-Insecta	flea infestations
Pyrenochaeta romeroi	Fungi	fungal infections
Rhinocladiella spp.	Fungi	chromoblastomycosis
Rhinosporidium seeberi	Fungi	rhinosporidosis
Rhinovirus	Viruses	colds
Rhizopus orizae	Fungi	zygomycosis
Rickettsia spp.	Bacteria (Rickettsias)	typhus
Rubella	Viruses	rubella
Salmonella	Bacteria	salmonellosis
Salmonella	Bacteria	septicaemia
Salmonella paratyphi	Bacteria	typhoid/paratyphoid
Salmonella typhi	Bacteria	typhoid/paratyphoid
Sarcoptes scabei	Arthropoda-Arachnida-Acari	scabies
Schistosoma	Platyhelminthes-Trematoda	schistosomiasis
Serratia	Bacteria	bacterial infections
Serratia	Bacteria	meningitis (bacterial)
Serratia	Bacteria	pneumonia (bacterial)
Serratia	Bacteria	septicaemia
Shigella boydii	Bacteria	shigellosis
Shigella dysenteriae	Bacteria	shigellosis
Shigella flexneri	Bacteria	shigellosis
Shigella sonnei	Bacteria	shigellosis
Slow virus	Viruses	Creutzfeldt Jakob disease
Slow virus	Viruses	kuru
Slow virus	Viruses	slow virus infections
Sparganum	Platyhelminthes-Cestoda	tapeworm infections
Spirillum minor	Bacteria	rat bite fever
Sporothrix schenckii	Fungi	sporotrichosis
Staphylococcus	Bacteria	bacterial infections
Staphylococcus	Bacteria	food poisoning (bacterial)
Staphylococcus	Bacteria	pneumonia (bacterial)
Staphylococcus	Bacteria	septicaemia
Staphylococcus aureus	Bacteria	impetigo
Staphylococcus aureus	Bacteria	meningitis (bacterial)

Causal Organisms	Organism Groups	Level 3 - Disorders Treated
	-	
Staphylococcus sp.	Bacteria	bacterial infections (intestine)
Stellantochasmus	Platyhelminthes-Trematoda	fluke infections
Stenella araguata	Fungi	pityriasis nigra
Strongyloides stercoralis	Nemata	threadworm infections
Streptobacillus moniliformis	Bacteria	rat bite fever
Streptococcus	Bacteria	bacterial infections
Streptococcus	Bacteria	septicaemia
Streptococcus pneumoniae	Bacteria	bacterial infections
Streptococcus pneumoniae	Bacteria	meningitis (bacterial)
Streptococcus pneumoniae	Bacteria	septicaemia
Streptococcus pneumoniae <sup>3</sup>	Bacteria	pneumonia (bacterial)
Streptococcus pyogenes	Bacteria	erysipelas (of the skin)
Streptococcus pyogenes	Bacteria	impetigo
Streptococcus pyogenes	Bacteria	pneumonia (bacterial)
Streptococcus pyogenes	Bacteria	scarlet fever
Streptomyces	Bacteria	maduromycosis
Syncytial virus	Viruses	colds
Taenia spp.	Platyhelminthes-Cestoda	tapeworm infections
Toxocara	Nemata	toxocariasis
Toxoplasma gondii	Protozoa	toxoplasmosis
Treponema carateum	Bacteria (Spirochaetes)	pinta
Treponema pallidum	Bacteria (Spirochaetes)	syphilis
Treponema pertenue	Bacteria (Spirochaetes)	yaws
Treponema vincentii	Bacteria (Spirochaetes)	Vincent's angina
Trichinella spiralis	Nemata	trichinosis
Trichomonas	Protozoa (Flagellates)	trichomoniasis
Trichophyton gallinae	Fungi	favus
Trichophyton schoenleinii	Fungi	favus
Trichophyton schoenleinii	Fungi	ringworm
Trichophyton verrucosum	Fungi	favus
Trichosporon	Fungi	fungal infections
Trichostrongyloides	Nemata	hair-worm infections
Trichuris	Nemata	whipworm infection
Trombicula larvae	Arthropoda-Arachnida-Acari	chiggers
Trypanosoma	Protozoa	trypanosomiasis
Trypanosoma cruzi	Protozoa	Chagas' disease
Trypanosoma rhodesiense	Protozoa	Rhodesian trypansosomiasis
Tunga penetrans	Arthropoda-Insecta	tungiasis
Varicella pneumonitis	Viruses	chicken pox
Variola major	Viruses	smallpox
Variola minor	Viruses	smallpox
Vibrio cholerae	Bacteria	cholera
Vibrio criolerae Vibrio parahaemolyticus	Bacteria	1
Wuchereria bancroftii	Nemata (Filarial)	food poisoning (bacterial) filariasis
Yersinia enterocolitica	Nemata (Filanai)   Bacteria	
Yersinia enterocontica Yersinia pestis		bacterial infections (intestine)
	Bacteria	plague
Zopfia senegalensis	Fungi	fungal infections

<sup>&</sup>lt;sup>3</sup>commonest form of bacterial pneumonia

TABLE 62. Medicinally important organisms (listed alphabetically within taxonomic group order) showing the the Level 3 Disorders within **Infections/ Infestations** that they cause.

Organism Groups and Organism Names	Level 3 - Disorders
NON-SPECIFIED ORGANISMS	toxaemia fever periodic fever chills
ANNELIDA Hirundinea	annelid worm infestations leech infestation
ARTHROPODA	arthropod infestations
ARTHROPODA-ARACHNIDA	arachnid infestations
ARTHROPODA-ARACHNIDA-ACARI Desmodes Psoroptes Sarcoptes scabei Trombicula larvae  ARTHROPODA-INSECTA	scabies scabies scabies chiggers insect infestations
ARTHROPODA-INSECTA-ANOPLURA Pediculus	lice infestations
ARTHROPODA-INSECTA-DIPTERA Diptera larvae (fly larvae)	myiasis
ARTHROPODA-INSECTA-DIPTERA-SIPHONAPTERA Ctenocephalides canis Ctenocephalides felis Pulex irritans Tunga penetrans	flea infestations flea infestations flea infestations tungiasis (chigoe/sandflea infestations/jiggers)
BACTERIA Actinomadura Actinomyces Aeromonas Arizona Bacillus anthracis Bacillus cereus Bordetella bronchiseptica Bordetella parapertussis Bordetella pertussis Bordetella pertussis Borellia Borellia burgdorferi Brucella abortus Brucella canis Brucella melitensis Brucella melitensis Brucella suis Campylobacter spp. Chlamydia psittaci Chlamydia psittaci Clostridium botulinum Clostridium perfringens Clostridium perfringens Clostridium perfringens	maduromycosis actinomycosis bacterial infections (intestine) bacterial infections (intestine) anthrax food poisoning (bacterial) whooping cough whooping cough whooping cough relapsing fever lyme disease brucellosis brucellosis brucellosis brucellosis trucellosis food poisoning (bacterial) psittacosis trachoma botulism gas gangrene gas gangrene food poisoning (bacterial) gas gangrene

<sup>&</sup>lt;sup>1</sup>ornithosis

Organism Groups and Organism Names	Level 3 - Disorders
BACTERIA (continued)	
Clostridium sordelli	gas gangrene
Clostridium spp.	food poisoning (bacterial)
Clostridium tetani	tetanus
Corynebacterium diphtheriae	diphtheria
Coxiella burnetti	Q fever
Erysipelothrix incidiosa	erysepelas
Escherischia coli	bacterial infections (intestine)
Escherischia coli	bacterial infections
Escherischia coli	septicaemia
Francisella tularensis	tularemia
Haemophilus influenzae	bacterial infections
Haemophilus influenzae	pneumonia (bacterial)
Haemophilus influenzae	septicaemia
Haemophilus influenzae	meningitis (bacterial)
Klebsiella pneumoniae	bacterial infections
Klebsiella pneumoniae	pneumonia (bacterial)
Legionella pneumophila	pneumonia (bacterial)
Leptospira interrogans	leptospirosis
Listeria monocytogenes	bacterial infections (intestine)
Listeria monocytogenes	listeriosis
Mycobacterium leprae	leprosy
Mycobacterium spp.	bacterial infections <sup>2</sup>
Mycobacterium tuberculosis	tuberculosis
Mycoplasma	bacterial infections
Neisseria gonorrhoea	gonorrhoea
Neisseria gonorrhoea	meningitis (bacterial)
Neisseria meningitidis	meningitis (bacterial) <sup>3</sup>
Nocardia	maduromycosis
Nocardia	nocardiosis
Pasteurella multocida	pasteurellosis
Pasteurella pseudotuberculosis	pasteurellosis
Proteus mirabilis	bacterial infections (intestine)
Proteus mirabilis	bacterial infections
Proteus morganii	bacterial infections
Proteus morganii	bacterial infections (intestine)
Pseudomonas	bacterial infections (intestine)
Pseudomonas	septicaemia
Pseudomonas mallei	glanders
Pseudomonas pseudomallei	melioidosis
Rickettsia spp.	typhus
Salmonella	salmonellosis
Salmonella	septicaemia
Salmonella paratyphi	typhoid/paratyphoid
Salmonella typhi	typhoid/paratyphoid
Serratia	bacterial infections
Serratia	meningitis (bacterial)
Serratia	pneumonia (bacterial)
Serratia	septicaemia
Shigella boydii	shigellosis
Shigella dysenteriae	shigellosis
Shigella flexneri	shigellosis
Shigella sonnei	shigellosis
Spirillum minor	rat bite fever
Staphylococcus	bacterial infections
Staphylococcus	food poisoning (bacterial)
Staphylococcus	pneumonia (bacterial)
Staphylococcus	septicaemia
Staphylococcus aureus	impetigo
Staphylococcus aureus	meningitis (bacterial)
Staphylococcus sp.	bacterial infections (intestine)
Streptobacillus moniliformis	rat bite fever
Streptococcus	bacterial infections
Streptococcus	septicaemia
Streptococcus pneumoniae	bacterial infections

 $<sup>\</sup>overset{2}{3} \text{non-leprosy/non-tuberculosis} \\ \text{apidemic meningitis}$ 

Organism Groups and Organism Names	Level 3 - Disorders
BACTERIA (continued)	
Streptococcus pneumoniae	meningitis (bacterial)
Streptococcus pneumoniae	septicaemia
Streptococcus pneumoniae <sup>4</sup>	pneumonia (bacterial)
Streptococcus pyogenes	erysipelas (of the skin)
Streptococcus pyogenes	impetigo
Streptococcus pyogenes Streptococcus pyogenes	pneumonia (bacterial)
Streptococcus pyogenes Streptomyces	scarlet fever maduromycosis
Treponema carateum	pinta
Treponema pallidum	syphilis
Treponema pertenue	yaws
Treponema vincentii	Vincent's angina
Vibrio cholerae	cholera
Vibrio parahaemolyticus	food poisoning (bacterial)
Yersinia enterocolitica	bacterial infections (intestine)
Yersinia pestis	plague
FUNGI	
Absidia corymbifera	zygomycosis
Acremonium falciforme	maduromycosis
Aspergillus Aspergillus	mycotic mycetomas
Aspergillus Aspergillus pidulans	aspergillosis
Aspergillus nidulans Basidiobolus haptosporus	maduromycosis zygomycosis
Blastomyces dermatitidis	blastomycosis
Candida	candidiasis
Cladosporium	cladosporiosis
Cladosporium carrionii	chromoblastomycosis
Coccidiodes immitis	mycotic mycetomas
Coccidioides immitis	coccidiomycosis
Conidiobolus coronatus	zygomycosis
Cryptococcus neoformans	cryptococcosis
Epidermophyton spp.	ringworm
Exophiala werneckii Histoplasma capsulatum	pityriasis nigra histoplasmosis (lungs)
nstopiasma capsulatum Loboa loboi	lobomycosis
Madurella	maduromycosis
Madurella mycetomia	maduromycosis
Microsporum audoinii	ringworm
Microsporum canis	ringworm
Veotestudina rosatii	mycotic mycetoma
Paracoccidiodes brasiliensis	paracoccidioidomycosis
Phialophora spp.	chromoblastomycosis
Piedraia hortai Pagudallagaharia	fungal infections allescheriosis
Pseudallescheria Pseudallescheria	maduromycosis
-seudaliescheria Pyrenochaeta romeroi	fungal infections
Rhinocladiella spp.	chromoblastomycosis
Rhinosporidium seeberi	rhinosporidosis
Rhizopus orizae	zygomycosis
Sporothrix schenckii	sporotrichosis
Sporoutita Schenckii	pityriasis nigra
Stenella araguata	I forms
Stenella araguata Trichophyton gallinae	favus
Stenella araguata Trichophyton gallinae Trichophyton schoenleinii	favus
Stenella araguata Trichophyton gallinae Trichophyton schoenleinii Trichophyton schoenleinii	favus ringworm
Stenella araguata Trichophyton gallinae Trichophyton schoenleinii	favus

<sup>&</sup>lt;sup>4</sup>commonest form of bacterial pneumonia

Organism Groups and Organism Names	Level 3 - Disorders
NEMATA <sup>1</sup>	
-	filarial nematode infections
-	filariasis
-	nematode infections
-	nematode infections (intestines)
Ancylostoma braziliense	creeping eruption
Ancylostoma caninum	creeping eruption
Ancylostoma duodenale	hookworm infections (Old World)
Anisakia larvae	herring worm disease
Ascaris lumbidioides	roundworm infections
Brugia malayi	filariasis
Capillaria	capillariasis
Dipetalonema <sup>2</sup>	dipetalonemiasis
Dracunculus medinensis	guinea worm infection
Enterobius vermicularis	pinworm infection
Gnathostoma	gnathostomiasis
Loa loa	Ioaisis
Masorella ozzardi	filariasis
Necator americanus	hookworm infections (New World
Onchocerca	onchocerciasis
Strongyloides stercoralis	threadworm infections
Toxocara	toxocariasis
Trichinella spiralis	trichinosis
Trichostrongyloides	hair-worm infections
Trichuris	whipworm infection
Wuchereria bancroftii	filariasis
PLATYHELMINTHES-CESTODA	tapeworm infections
Cysticercus cellulosae	tapeworm infections
Diphyllobothrium	tapeworm infections
Diplogonoporus	tapeworm infections
Dipylidium	tapeworm infections
Echinococcus granulosus	hydatid disease
Echinococcus multilocularis	hydatid disease
Hymenolepis	tapeworm infections
Sparganum	tapeworm infections
Taenia spp.	tapeworm infections
PLATYHELMINTHES- TREMATODA	fluke infections
Clonorchis	fluke infections
Dicrocoelium	fluke infections
Echinostoma	fluke infections
Fasciola	fluke infections
Fasciolopsis	fluke infections
Gastrodiscoides	fluke infections
Heterophyes	flukeinfections
Metagonimus	fluke infections
Opisthorchis	fluke infections
Schistosoma	schistosomiasis
Stellantochasmus	fluke infections
PROTOZOA <sup>3</sup>	protozoal infections
- ^	amoebiasis
Amoebida	amoebiasis
Balantidium coli	balantidiasis
Cryptosporidium	cryptosporidiosis
Dientamoeba fragilis	dientamoebiasis
Entamoeba histolytica	amoebic dysentery
flagellate protozoa <sup>4</sup> <i>Giardia lamblia</i>	flagellate infections (intestine) giardiasis

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<sup>1</sup> see Appendix B (Table 46), for classification below NEMATA.
2 Acanthocheilonema
3 see Appendix B (Table 46), for classification below PROTOZOA.
4 not *Trichomonas* 

Organism Groups and Organism Names	Level 3 - Disorders
PROTOZOA (continued)	
Isospora bellii	coccidiosis
Isospora hominis	coccidiosis
Leishmania	leishmaniasis
Plasmodium falciparum	cerebral malaria
Plasmodium falciparum	malaria
Plasmodium malariae	
	malaria
Plasmodium ovale	malaria
Plasmodium vivax	malaria
Pneumocystis carinii	pneumonia (protozoal)
Toxoplasma gondii	toxoplasmosis
Trichomonas (flagellate protozoa)	trichomoniasis
Trypanosoma	trypanosomiasis
Trypanosoma cruzi	Chagas' disease
Trypanosoma rhodesiense	Rhodesian trypansosomiasis
VIRUSES	viral infections
Adenovirus	adenoviral infection
Adenovirus	
	meningitis (viral)
Apthovirus	foot and mouth
Arbovirus	arboviral infection
Arbovirus	encephalitis (viral)
Arboviruses	haemorrhagic fever
Arena viruses	haemorrhagic fever
Bunya viruses	haemorrhagic fever
Coronoavirus	colds
Cowpox virus	cowpox
Dengue Arbovirus	dengue
Enterovirus	enteroviral infection
Enterovirus	meningitis (viral)
Enterovirus coxsackie	coxsackie
Flavivirus	yellow fever
Flaviviruses	haemorrhagic fever
	hepatitis A
Hepatitis A virus	1 '
Hepatitis B virus	hepatitis B
Hepatitis non-A, non-B virus	hepatitis non-A, non-B
Hepatitis virus	hepatitis
Herpes simplex	herpes
Herpes simplex	cold sores
Herpes zoster	shingles
HIV	AIDS
HIV virus	HIV infections
Influenza virus	colds
Influenza virus	influenza
Lvssa virus	rabies
Meningitis virus	meningitis (viral)
Morbillivirus	measles
Papillomavirus	viral warts
r apiliomavirus Parainfluenza virus	colds
	mumps
Paramyxovirus	·
Pneumonia virus	pneumonia (viral)
Poliovirus	polio
Postvaricella encephalitis	chicken pox
Rhinovirus	colds
Rubella	rubella
Slow virus	Creuzfeldt Jakob disease
Slow virus	kuru
	slow virus infections
Slow virus	
Slow virus	colds
Slow virus Syncytial virus	
	colds

Table 63. Infective bacterial agents showing  $\operatorname{Gram} - \operatorname{or} \operatorname{Gram} + \operatorname{status}$ , or neither.

Bacterial genera	Gram
Acinetobacter Actinomadura Actinomyces Aeromonas Arizona Bacillus Bordetella Borellia Brucella Campylobacter Chlamydia Clostridium Corynebacterium Coxiella Erysipelothrix Escherichia Francisella	Gram + + + + + +
	    + neither  +
Pseudomonas Rickettsia Salmonella Serratia Shigella Spirillum minor Staphylococcus Streptobacillus Streptococcus Streptomyces Treponema Vibrio Yersinia	

TABLE 64. Relationship between the Economic Botany Data Collection Standard and the International Classification of Diseases (ICD.9.CM).

Column 2 lists the three digit categories within IDC.9.CM which correspond to Level 3 Disorders for Level 2 states for MEDICINES within the Economic Botany Data Collection Standard. The IDC.9.CM does not have separate groups for Inflammation and Pain, and it has an additional group for certain conditions originating in the Perinatal Period (760-779).

Level 2 states in Economic Botany Data Collection Standard	ICD.9.CM CODES
Unspecified Medicinal Disorders Abnormalities Blood System Disorders Circulatory System Disorders Digestive System Disorders Endocrine System Disorders Endocrine System Disorders Genitourinary System Disorders III-Defined Symptoms Immune System Disorders Infections/Infestations Inflammation Injuries Mental Disorders Metabolic System Disorders Muscular-Skeletal System Disorders Neoplasms  Malignant Neoplasms Primary Malignant Neoplasms Primary Malignant Neoplasms Carcinomas in situ Benign Neoplasms Neoplasms Of Uncertain Behaviour Unspecified Neoplasms Nervous System Disorders Nutritional Disorders Pain Poisonings Pregnancy/Birth/Puerperium Disorders Respiratory System Disorders Sensory System Disorders	740-759 280-289 390-459 520-579 240-259 580-629 780-799 270-279 001-139 - 800-959 290-319 270-279 710-739 140-239 199 140-195 200-208 196-198 230-234 210-229 235-238 239 320-359 260-269 - 960-979 630-676 460-519 360-389
Skin/Subcutaneous Cellular Tissue Disorders	680-709

<sup>1</sup> includes connective tissue 2 of specific sites 3 primary malignant neoplasm of lymphatic and haematopoietic tissue 4 of specific sites

TABLE 65. Level 3 states for Disorders/*Effects* specific to **VERTEBRATE POISONS** and <u>not</u> occurring in **MEDICINES**. (Those in brackets do occur in **MEDICINES**.)

# Level 3 - Disorders Caused/Harmful Effects

(Abnormalities)

mitotic mutagenic teratogenic

Death

(Nutritional Disorders) antifeedant

(Pregnancy/Birth/Puerperium Disorders) abortifacient <sup>1</sup> foetal growth retardation

Repellent

<sup>1</sup> used in VERTEBRATE POISONS to refer to accidental abortions due to poisonings; the use of procuring abortions is placed in SOCIAL USES

# APPENDIX H: WORKED EXAMPLE

TABLE 66. An example of recording use data using the Economic Botany Data Collection Standard. (Data from the Survey of Economic Plants for Arid and Semi-Arid Lands.)

# Boswellia sacra Flueck.

### USES

### **FOOD**

- 'Roots': debarked 'roots', raw.

#### **ANIMAL FOOD**

- Fertile Plant Parts: flowers, goats, fodder.
- Aerial Parts: leaves.

## **BEE PLANTS**

nectar source.

### **MATERIALS**

- Unspecified Materials: exudates, perfumes; bark, splints.
- Wood: defoliated stems/branches, guns.
- Gums/Resins: exudates, resins, incense; gum, depilatories; gum, hair oil; gum, walls; gum, adhesives; gum, candles; gum, cleansers; gum, skin cosmetics; gum, tattoos; gums,coverings.
- Tannins/Dyestuffs: inner bark, dyes, clothes, red; dyes, brown; inner bark, tannins.

#### **SOCIAL USES**

- Smoking Materials/Drugs: flower buds, masticatories; fruits, masticatories.
- 'Religious' Uses: gum, ritual/religion/magic.

#### **MEDICINES**

- Unspecified Medicinal Disorders: fruits, goats; fruits, humans.
- Abnormalities: bark, humans, skin, oedemas.
- Digestive System Disorders: resin, humans, stomach, stomachic; flower buds, humans; fruits, humans; gum, humans, teeth, caries.
- Genitourinary System Disorders: resin, humans, diuretic.
- Infections/Infestations: resin, humans, schistosomiasis; resin, humans, syphillis; gum, humans, respiratory system, colds; gum, humans, eyes, infections.
- Inflammation: gum, humans, breasts.
- Injuries: bark, humans, wounds; bark, humans, skin, burns.
- Muscular-Skeletal System Disorders: humans, rheumatism; gum, humans, bones, fractures; bark, humans, bones, fractures.
- Nervous System Disorders: resin.
- Pain: bark, humans, muscular-skeletal system; gum, humans, teeth; gum, humans, head, analgesic; gum, humans, eves
- Pregnancy/Birth/Puerpuerium Disorders: bark, humans, morning sickness; gum.
- Skin/Subcutaneous Cellular Tissue Disorders: bark, humans, skin, sores; gum, humans, skin, antiseptic.

# **DESCRIPTORS**

Wood Properties: size availability - small only.

Chemical Analyses: diterpenoids.

## **NOTES**

## MATERIALS - Gums/Resins:

Vernacular Names of Plant Product

Frankincense is the name of the gum resin from *B. sacra*. The very best frankincense comes from the Najd or steppe area to the north of the hills of Dhofar, Oman. Najjdi is the highest quality, Shazri is the next in quality (from Qara mountains) and Sha'abi is from the coastal plain. Alternative names for these are Negdi, Ehskot and Rasmi, respectively.

TABLE 67. Guide to the interpretation of fonts within the standard.

FONT	CORRESPONDING DATA TYPES	NOTES
BOLD UPPER CASE	LEVEL 1 states	
Bold Title Case	Level 2 states	
non-bold lower case (following after <b>Level 2</b> states)	level 3 states	Each group of linked terms is separated by a semi-colon
Underlined Title Case	Stand-Alone descriptors	
non-bold lower case (following after <u>Stand-Alone</u> descriptors	States for <u>Stand-Alone</u> descriptors	
Italicised Title Case	Notes Categories	
Free text following on from Notes Categories	Notes	

## **WORKED EXAMPLE:**

In the example for *Boswellia sacra* (Table 65) six **LEVEL 1** states are recorded of which one is **MEDICINES**. Within **MEDICINES** twelve **Level 2** states are recorded, one of them being **Infections/Infestations**. Within **Infections/Infestations** there are four groups of linked states for the Level 3 descriptors; these are each separated by a semi-colon.

- Plant Parts Used (resin), Vertebrates Treated (humans), Disorders Treated (schistosomiasis);
   [Interpretation: resin used by humans to treat schistosomiasis].
- 2) Plant Part Used (resin), Vertebrates Treated (humans), Disorders Treated (syphilis); [Interpretation: resin used by humans to treat syphilis].
- 3) Plant Part Used (gum), Vertebrates Treated (humans), Body Parts Treated (respiratory system), Disorders Treated (colds);
  [Interpretation: gum used by humans for colds of the respiratory system].
- 4) Plant Part Used (gum), Vertebrates Treated (humans), Body Parts Treated (eyes), Disorders Treated (infections); [Interpretation: gums used by humans to treat eye infections].

There are two <u>Stand-Alone</u> descriptors, namely <u>Wood Properties</u> and <u>Chemical Analyses</u>, each with a single state recorded. There is also a *Note Category* concerning the *Vernacular Names of Plant Product* (for **MATERIALS** — **Gums/Resins**) which is given in a free text format.



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