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**Dentistry — Application of OSI clinical
codification to the classification and coding
of dental products**

*Art dentaire — Application de la codification clinique OSI au domaine de la
classification et du codage des fournitures dentaires*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In exceptional circumstances, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example), it may decide by a simple majority vote of its participating members to publish a Technical Report. A Technical Report is entirely informative in nature and does not have to be reviewed until the data it provides are considered to be no longer valid or useful.

Attention is drawn to the possibility that some of the elements of this Technical Report may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO/TR 15300 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 3, *Terminology*.

Introduction

This Technical Report is intended to set up a hub of communication between various codes existing in various countries or to be used as an international code for countries or regions that would so wish, except national or regional decisions.

Digitalization has been considered essential, as some countries are still not familiar with western alphabets, which themselves exhibit variations. Most people can clearly appreciate any value between 0 and 9; in addition, an exclusively digital code facilitates data communication and recording, as one needs only a small digital keyboard.

Dentistry — Application of OSI clinical codification to the classification and coding of dental products

1 Scope

The purpose of this Technical Report is to provide possible application of ISO/TR 13668 regarding the coded communication related to dental products, resulting in the numerous advantages of a single, standardized “hub” for the interoperability of present or future codes.

2 References

ISO 1942-1:1989, *Dental vocabulary — Part 1: General and clinical terms.*

ISO 2108:1992, *Information and documentation — International standard book numbering (ISBN).*

ISO 3166-1:1997, *Codes for the representation of names of countries and their subdivisions — Part 1: Country codes.*

ISO/TR 13668:1998, *Digital coding of oral health and care.*

CEN/CR 12401:1996, *Guidance on the classification of dental devices and accessories.*

3 Principle

An essential aspect of the application of ISO/TR 13668 is the link created between items of dental equipment, instruments, devices or materials and their intended use in the profession, so that any user can clearly and readily identify his/her region of interest. Further applications to be expected from such standardization are for example in the preparation of catalogues and the organization of dental product exhibitions.

4 Syntax

4.1 Manufacturer's identification

4.1.1 Identification of country of origin

A number of means of identification could be acceptable. The more logical one would appear to be ISO 3166-1. However, up to now, the opinion that such a standard is quite difficult to maintain in real time has been conducive to many countries expressing some reservations. Another possibility had been proposed with ISO 2108 which did not receive support either. It has therefore been deleted from this document. Another possibility has been proposed using the Global Positioning System (GPS) but this may have no relationship whatever with administrative realities.

Thus, the country code for the international telephone network appears to receive the support of most countries because:

- a) it has some relationship with state administration;
- b) it tends to facilitate the memorization of the codes of the states or countries with which trade and/or political relations most often take place;

- c) it is maintained in real time and frequently updated;
- d) it is used for other purposes.

However, recent developments concerning the possibility of some improvements in the maintenance of ISO 3166-1, resulting from its possible use on the Internet, make it possible to recommend it at the occasion of a further revision of this Technical Report.

Examples of country codes:

Australia	61Ø
Belgium	32Ø
China	86Ø
France	33Ø
Germany	49Ø
Italy	39Ø
Japan	81Ø
Norway	47Ø
U.K.	44Ø
U.S.A.	1ØØ
Canada	11Ø etc.

where “Ø” is considered as an optionally assigned digit or a space maintainer; some regions in the world require three digits for their identification.

In the same way, optional digit(s) could be used to specify a region in the identified country or organization of countries, based upon the application of the Manufacturers' Register (examples: “Länder” in Germany or States in the U.S.A.).

4.1.2 Identification of the manufacturer

By the registration number of the manufacturer in the relevant national or regional register, identified as above.

4.2 Codification of the nature of the dental product

One or more digits, the first being one of the following which are given as examples of possible assignments (definitions used of the terms below can be found in ISO 1942-1):

0	General (any dental product)
1	Dental equipment
2	Dental instruments
3	Dental materials
4	Dental devices
5	Dental pharmaceutical materials
6	Dental laboratory products
7	Oral hygiene products
8	Dental office (general): products other than dental ones, used in the practice of dentistry and/or associated procedures.
9	Not coded (description mandatory)

4.3 Codification of the intended purpose of the dental product

According to ISO/TR 13668 by the relevant digit in the WHO/FDI OSI Index, i.e.:

- 0) products for examination and recording of oral conditions, aids to diagnosis, radio-diagnostic, microbiological sampling, etc.;
- 1) products used for instruction, training, exercising, monitoring self-care prescriptions and techniques, etc.;
- 2) products designed and/or presented for professional surface care:
 - removal of stain and calculus;
 - caries-preventive applications;
 - sealing of pits and fissures;
 - desensitization.
- 3) products related to orthodontics;
- 4) products related to periodontics;
- 5) products related to single tooth restorations;
- 6) products related to endodontics;
- 7) products related to oro-dental surgery;
- 8) products related to fixed prostheses;
- 9) products related to removable prostheses.

4.4 Further clarification of the intended purpose of the dental product

Where feasible and appropriate, the second digit (and possibly further ones) in the OSI code (see ISO/TR 13668) for procedures could be attached to the digit(s) coding the purpose, so as to refine the classification and identification.

EXAMPLE

100	Dental equipment for oral status examination & recording
105	X-ray equipment for taking intra-oral films
260	Instrument(s) for endodontics
267	Instrument(s) for root-canal treatment
380	Material(s) for fixed prosthodontics
381	Alloys or metals for fixed prostheses
382	Polymer(s) for fixed prostheses
390	Material(s) for removable prostheses
392	Polymer(s) for removable prostheses
470	Dental device for surgical restoration of function

4.5 Further main constituents of clarification of devices and instruments

2671	Instrument(s) for root-canal treatment, metallic
2675	Instrument(s) for root-canal treatment, metal + polymer
4771	Dental implant, metallic

NOTE As in annex B (B.3) in ISO/TR 13668:1998:

80	Any factory- or custom- formed material
81	Metal
82	Polymer

- 83 Ceramic or cast glass
- 84 Metal + polymer
- 85 Metal + ceramic
- 86 Metal ceramic system
- 87 Polymer + ceramic
- 88 Metal + polymer + ceramic
- 89 Not coded: information attached

Annex A OSI Code

Basic decimal principle:	HANDICAP/DEPENDENCE
0	-1

ORAL STATUS (e.g. Intervention needed):			
Assess/Record	Instruction	Surface and support care	Tooth-restoration
-0	-1	-2	-3
		-4	-5
		-6	-7
		-8	-9
			See ICD -10

DECIMAL CLASSIFICATION of PROCEDURES (Interventions column, 1st digit)									
Exam. and aids to diagnosis	1	2	3	4	5	6	7	8	9
	Exam. Exercise	Professional surface care	Orthodont.	Periodont.	Enam/dentin restoration	Endodont.	Surgery	Fixed prosthesis	Removable prosthesis

CODES FOR PROCEDURES

000 OSI Examination/record	200 Professional surface care	400 Periodontics	600 Endodontics	800 Fixed prosthesis
010 General preliminary exam.	210 Exam./Plan./Explain./Prescr.	410 Exam./Plan./Explain./Prescr.	610 Exam./Plan./Explain./Prescr.	810 Exam./Plan./Explain./Prescr.
020 Microbiological sampling	220 Stain removal	420 Recontour	620 Temporary dressing	820 Enamel bonded
030 Bite-wing X-ray	230 Calculus removal, light	430 Root cleaning	630 Lining	830 Crown tooth cemented
040 X-ray, intra-oral film	240 Calculus removal, heavy	440 Curetage	640 Capping, indirect	840 Crown + implant cemented
050 X-ray, extra-oral film	250 Caries preventive applicat.	450 Applied medication	650 Capping, direct	850 Bone implanted abut. only
060 Biopsy	260 Pits and fissures sealing	460 Not coded:	660 Root-canal(\$)	860 Not coded:
070 Cytological sampling	270 Not coded:	470 Description mandatory	670 Root-canal retreatment	870 Description mandatory
080 Not coded:	280 Description mandatory	480 Description mandatory	680 Not coded:	880 Description mandatory
090 Description mandatory	290 Description mandatory	490 Description mandatory	690 Description mandatory	890 Description mandatory
100 Instruct/Exercise/Monitor	300 Orthodontics	500 Single tooth restoration	700 Oro/dental surgery	900 Removable prosthesis
110 Exam./Plan./Explain./Prescr.	310 Exam./Plan./Explain./Prescr.	510 Exam./Plan./Explain./Prescr.	710 Exam./Plan./Explain./Prescr.	910 Exam./Plan./Explain./Prescr.
120 General, Oral Health, diet	320 Monitor development	520 Direct insertion, metallic	720 Extraction, tooth	920 Partial, tooth/implant borne
130 Mucosal	330 Retainer, removable	530 Direct insertion, nonmetallic	730 Access to other procedure	930 Partial, t./i.& mucosa borne
140 Gingival	340 Retainer, fixed	540 Direct insertion, metallic, late	740 Trauma, fracture reduct.	940 Partial, mucosa borne
150 Enamel	350 Positioner, removable	550 Direct insertion, nonmetallic, late	750 Lesion, foreign body, etc.	950 Full denture, roots/m, borne
160 Force/position control	360 Positioner, fixed	560 Direct insert. Extended/repared	760 Tumour	960 Full denture, implants attached
170 Pain relief/desensitizat.	370 Positioner, fixed	570 Laboratory preform	770 Cosmesis/funct. rest/maint.	970 Full denture, mucosa-borne
180 Not coded:	380 Not yet assigned	580 Factory preform	780 Pain/control procedure	980 Not coded:
190 Description mandatory	390 Description mandatory	590 Description mandatory	790 Description mandatory	990 Description mandatory

NOTE 0, as third digit, represents a reserved-assignment, specific, optional code: It may be assigned a meaning, and accordingly replaced by the convenient digit, by, in order of precedence, WHO, FDI, their regional organizations, ISO/TC 106, international or national responsible authorities, permanently or for a given period of time, in part or *in toto*, according to the identified need or needs. Non-assigned digits may be used on a local or regional basis, in schools or centres, or in private organizations or offices, to meet the special needs of the user. As a rule, optional code assignments should not conflict with those in the specifications column.

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