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Dentistry — Designation system for teeth and areas of the oral cavity

*Médecine bucco-dentaire — Code de désignation des dents et des
régions de la cavité buccale*



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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Principles	1
3 Designation of areas of the oral cavity	1
4 Designation of teeth	2
Bibliography	4

Foreword

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The committee responsible for this document is ISO/TC 106, *Dentistry*, Subcommittee SC 3, *Terminology*.

This fourth edition cancels and replaces the third edition (ISO 3950:2009), which has been technically revised.

Introduction

The increasing use of computers to store information, together with the increasing necessity for the communication of dental information by wire, printed documents and orally, has required that new basic elements be taken into consideration for drawing up a designation system for teeth. The system described in this International Standard was originally drawn up by the FDI World Dental Federation and approved by the World Health Organization (WHO) and Technical committee ISO/TC 106, Dentistry, to satisfy the following requirements:

- a) simple to understand and teach;
- b) easy to pronounce in conversation and dictation;
- c) readily communicable in print and by wire;
- d) easy to translate into computer “input”;
- e) easily adaptable to standard charts used in general dental practice.

Dentistry — Designation system for teeth and areas of the oral cavity

1 Scope

This International Standard provides a system for designating teeth or areas of the oral cavity using two digits.

2 Principles

The anatomical arrangement of normal dental arches with respect to sagittal medial and occlusal planes allows for logical division of the oral cavity in quadrants and sextants.

A quadrant, in this context, means one of the fourths of the dental arches.

A sextant in this context means one of the sixths of the dental arches.

The areas of the oral cavity and teeth shall be designated by a two digit code.

Codes containing at least one zero (0) designate areas of the oral cavity.

Replacement of a zero (0) by a nine (9) identifies the presence of an anomaly in that specific area of the oral cavity.

Codes without a zero (0) identify individual teeth. The first digit of the code designates the quadrant and differentiates between deciduous and permanent teeth, and the second identifies the tooth itself.

Numerals used for designation of areas of the oral cavity, teeth, sextants or quadrants shall be expressed in letters and the corresponding number given in parenthesis. For example:

- Zero (0) one (1) designates the maxillary area;
- Three (3) zero (0) designates the lower left quadrant;
- One (1) one (1) designates the central incisor of the maxillary right;
- Nine (9) four (4) designates any anomaly in the upper anterior sextant.

3 Designation of areas of the oral cavity

00	designates the entire oral cavity
01	designates the maxillary area
02	designates the mandibular area
10	designates the upper right quadrant
20	designates the upper left quadrant
30	designates the lower left quadrant
40	designates the lower right quadrant
03	designates the upper right sextant
04	designates the upper anterior sextant
05	designates the upper left sextant

- 06 designates the lower left sextant
- 07 designates the lower anterior sextant
- 08 designates the lower right sextant

4 Designation of teeth

a) First digit

Digits 1 to 4 are used for the permanent dentition and digits 5 to 8 for the deciduous dentition. This designation starts clockwise from the upper right side.

- 1 designates permanent teeth in upper right quadrant
- 2 designates permanent teeth in upper left quadrant
- 3 designates permanent teeth in lower left quadrant
- 4 designates permanent teeth in lower right quadrant
- 5 designates deciduous teeth in upper right quadrant
- 6 designates deciduous teeth in upper left quadrant
- 7 designates deciduous teeth in lower left quadrant
- 8 designates deciduous teeth in lower right quadrant

b) Second digit (tooth)

Teeth in the same quadrant are designated by the second digit 1 to 8 (1 to 5 in the deciduous dentition). This designation starts from the sagittal medial plane in distal direction. The tooth designation is based on the anatomy of the tooth regardless of its position in the mouth.

— Permanent dentition

- 1 designates the central incisor
- 2 designates the lateral incisor
- 3 designates the canine
- 4 designates the first premolar
- 5 designates the second premolar
- 6 designates the first molar
- 7 designates the second molar
- 8 designates the third molar

— Deciduous dentition

- 1 designates the central incisor
- 2 designates the lateral incisor
- 3 designates the canine
- 4 designates the first molar
- 5 designates the second molar

Right															Left															
00																														Oral cavity
01																														Maxillary area
10															20															Quadrant
03					04										05					Sextant										
18	17	16	15	14	13	12	11	21	22	23	24	25	26	27	28	Permanent teeth														
			55	54	53	52	51	61	62	63	64	65				Deciduous teeth														
			85	84	83	82	81	71	72	73	74	75				Deciduous teeth														
48	47	46	45	44	43	42	41	31	32	33	34	35	36	37	38	Permanent teeth														
08					07										06					Sextant										
40															30															Quadrant
02																														Mandibular area

Figure 1 — Digital designation of teeth and areas of the oral cavity

Bibliography

- [1] ISO 1942, *Dentistry — Vocabulary*

