



SLOVENSKI STANDARD SIST EN ISO 20888:2021

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Zobozdravstvo - Slovar in sistem označevanja forenzičnih ortodontalnih podatkov (ISO 20888:2020)

Dentistry - Vocabulary and designation system for forensic oro-dental data (ISO 20888:2020)

Zahnheilkunde - Terminologie für forensische orodentale Daten (ISO 20888:2020)

Médecine bucco-dentaire - Vocabulaire et code de désignation des données bucco-dentaires médico-légales (ISO 20888:2020)

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EUROPEAN STANDARD

EN ISO 20888

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Dentistry - Vocabulary and designation system for forensic oro-dental data (ISO 20888:2020)

Médecine bucco-dentaire - Vocabulaire et code de désignation des données bucco-dentaires médico-légales (ISO 20888:2020)

Zahnheilkunde - Terminologie für forensische orodentale Daten (ISO 20888:2020)

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European foreword

This document (EN ISO 20888:2020) has been prepared by Technical Committee ISO/TC 106 "Dentistry" in collaboration with Technical Committee CEN/TC 55 "Dentistry" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2021, and conflicting national standards shall be withdrawn at the latest by May 2021.

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INTERNATIONAL STANDARD

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Dentistry — Vocabulary and designation system for forensic oro- dental data

*Médecine bucco-dentaire — Vocabulaire et code de désignation des
données bucco-dentaires médico-légales*

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ISO 20888:2020(E)**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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 3, *Terminology*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 55, *Dentistry*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

0.1 Background

The establishment of a positive identification of an unidentified individual by the comparative dental analysis of a forensic odontologist requires submission of supporting documentation from the dental professionals who treated the patient. This information includes dental treatment records, radiographs, photographs, and dental casts; this information is then submitted to the appropriate authority and referred to as antemortem dental data (AM). Currently, the vast majority of antemortem dental data and associated attachments are submitted on paper and by radiographic film, however, the goal is to create a standardized electronic format for the transfer of this data. Due to varying methods of documentation and recording systems, an organized list of standardized dental terminology would be useful. Submission of ambiguous information due to a lack of harmonization can increase the time required to establish the identification through dental means.

The disaster victim identification (DVI) community, due to the number of victims and the number of countries of origin of the victims, will benefit from this internationally standardized forensic oro-dental data, by using standardized terminology of useful concepts.

Current odontological comparison software is based on the concept of restoration comparison. Utilizing each tooth as a field, comparison and/or elimination queries and advance sorting algorithms creates a ranking of possible matches to aid the forensic odontologist in the initial records comparison. Biometric, familial, radiographic, and visual information support the likelihood of a match. By standardizing the descriptors used to describe this information, the likelihood of identifying an individual based on the forensic odontologist's data increases.

0.2 Principle

Many descriptors of a tooth are determined from radiographic interpretation; specific "similar" radiographic attributes are grouped together into single unified descriptors. This should allow for the unambiguous interpretation of a tooth attribute and ensure that a radiographic attribute can be described by a single unified attribute. Generally, consistency of assigning a unique attribute to a radiographic feature is utilized in this document in order to create unambiguous descriptors even at the expense of combining similar, but not identical, attributes.

The permanent dentition takes priority when both the primary and permanent teeth are present if both are concurrently visible in the mouth; however, the presence of the primary tooth should also be noted.

The pertinence of these descriptors should be weighted with the time differences between the date of the records and the presumptive date of recording of the current data.

If a descriptor involves multiple teeth, then that descriptor shall be utilized for all the teeth involved.

0.3 Rationale

A significant volume of information is gathered during dental evaluation and treatment. Forensic odontologists charged with the task of identifying individuals need comprehensive information in order to prove or disprove identification. While much of the information gathered by the dentist might not aid in claims adjudication, it is not possible to predict in advance what item or items in the dental record might be conclusive in identification. This document is designed to fill a void by establishing documentation requirements for the submission of antemortem dental information for identification.

Terms and definitions describing teeth, pathology or anomaly of teeth or tooth restorations are limited to ISO 3950 oro-dental codes that map to individual teeth.

Terms and definitions describing multiple teeth, jaw or mouth conditions, pathologies, relationships, or prostheses are limited to ISO 3950 oro-dental codes that map those entities.

Terms and definitions which are limited to other specific ISO 3950 oro-dental locations are annotated accordingly in the notes to entry and related annexes.

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Terms and definitions describing dental devices, pathologies, or entities that do not have a specific location are limited to ISO 3950 code 00, 01, 02 and the notes to entry and related annexes.

An entry with a “(by report)” notation indicates that optional free-form text can be included with the term to further characterize the entity being described. See [Figure 1](#).

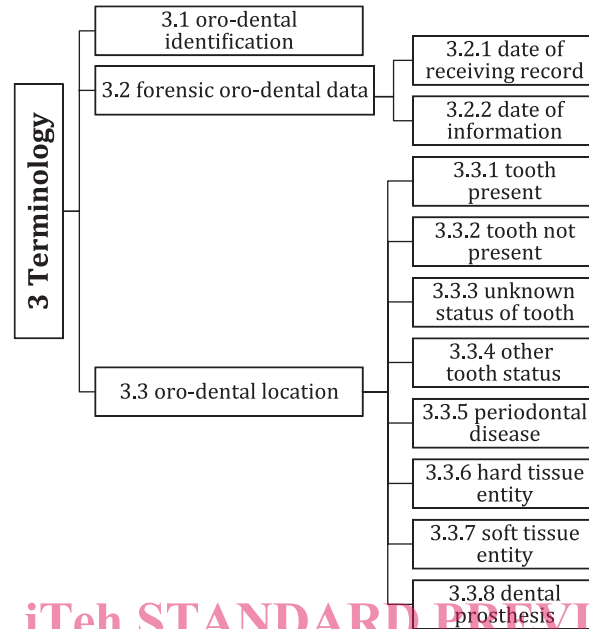


Figure 1 — Overview of the main elements of Clause 3

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Dentistry — Vocabulary and designation system for forensic oro-dental data

1 Scope

This document defines the terms used to describe the distinctive characteristics of an individual's mouth by dentists and forensic dental experts. These terms are organized by concepts based on a forensic approach to the characteristics of a mouth, with many concepts specific to the identification domain that are not defined elsewhere in ISO dentistry vocabularies (e.g. “*present tooth*”).

The hierarchical structure of this document is designed to describe attributes of a tooth, the mouth and a prosthesis/orthosis with increasing levels of discriminative characteristics (e.g. material characteristics, *restored tooth* surface) and the possibility to connect any level of description of an attribute with the most comprehensive concept.

This document is intended to be used for data exchange between antemortem and postmortem files and remove ambiguity on the terms used to describe an individual's mouth.

This document is intended to be used in conjunction with ISO 1942 and ISO 3950.

2 Normative references

The following documents are referred to in the text in such a way that some or all their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1942, *Dentistry — Vocabulary*

ISO 3950, *Dentistry — Designation system for teeth and areas of the oral cavity*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1942 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

oro-dental identification

science and art of comparing *antemortem dental data* (3.2.2.1) with *postmortem dental data* (3.2.2.2) to help determine the identity of an individual

3.2

forensic oro-dental data

recorded information describing the oral cavity and surrounding tissues for legal purposes

3.2.1

date of receiving record

date when the forensic information is recorded in the forensic record

Note 1 to entry: The date of receiving record is determined using ISO 8601-1.

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3.2.2

date of information

date when the forensic information was created

Note 1 to entry: The date of information is determined using ISO 8601-1.

3.2.2.1

antemortem dental data

historical *forensic oro-dental data* (3.2)

3.2.2.2

postmortem dental data

current *forensic oro-dental data* (3.2)

3.3

oro-dental location

designation code for tooth, teeth or area of the oral cavity of the forensic information

Note 1 to entry: The oro-dental location shall be determined in accordance with ISO 3950.

3.3.1

tooth present

tooth or substantial part of a tooth visible in clinical or in radiologic examination, or reported present in the dental record

Note 1 to entry: If only a portion of the root remains and the coronal portion of the tooth has been replaced by a dental prosthesis (whether fixed or removable) that is not anchored by the remaining root, the tooth is not considered present. See [Figure 2](#).

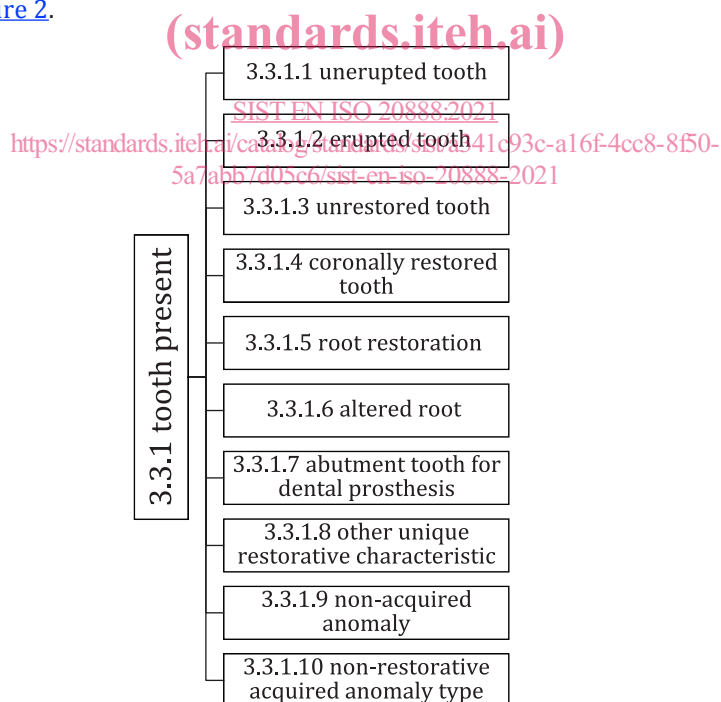


Figure 2 — Overview of the main elements of a tooth present

3.3.1.1

unerupted tooth

tooth present (3.3.1) that is not visible in the oral cavity

Note 1 to entry: If the erupted tooth is also abnormally angulated it can be described under malpositioned angulation.

3.3.1.2**erupted tooth**

tooth present (3.3.1) that is partially or completely visible in the oral cavity

Note 1 to entry: If the erupted tooth is also abnormally angulated, it can be described under malpositioned angulation.

3.3.1.2.1**overerupted tooth****hypererupted tooth**

tooth whose occlusal plane is significantly occlusal to the normal plane of occlusion

Note 1 to entry: This term is used regardless of the aetiology of the overeruption.

3.3.1.2.2**undererupted tooth****hypoerupted tooth**

tooth whose occlusal plane is significantly apical to the normal plane of occlusion

Note 1 to entry: A tooth is considered hypoerupted versus impacted only when a substantial portion of the coronal portion of the tooth is in the oral cavity, the path of eruption is unobstructed, and the root apices are fully closed.

Note 2 to entry: This term is used regardless of the aetiology of the undereruption.

3.3.1.2.3**malpositioned tooth**

tooth that is not in the normal position or angulation relative to the dental arch

Note 1 to entry: The malpositioned tooth shall be an *erupted tooth* (3.3.1.2).

3.3.1.2.3.1**drifted tooth**

tooth that has migrated into an edentulous space previously occupied by a different tooth

Note 1 to entry: The type of tooth drift shall be as specified in [Annex A](#).

Note 2 to entry: The drifted tooth shall be an *erupted tooth* (3.3.1.2).

3.3.1.2.3.2**angulated tooth**

tooth that has an inclination that deviates from the norm

Note 1 to entry: The type of tooth that is visible at clinical examination and is at the plane of occlusion shall be as specified in [Annex B](#).

Note 2 to entry: The angulated tooth shall be an *erupted tooth* (3.3.1.2).

3.3.1.3**unrestored tooth**

tooth that does not have any visible or radiographic evidence of a *dental restoration* (3.3.1.4.1)

Note 1 to entry: The unrestored tooth shall be an *erupted tooth* (3.3.1.2).

Note 2 to entry: This entry is limited to ISO 3950 codes 01, 02, 03, 04, 05, 06, 07, 08, 10, 20, 30, 40.

Note 3 to entry: Pit and fissure sealant is not a dental restoration.

3.3.1.4**coronally restored tooth**

tooth that has any type of *dental restoration* (3.3.1.4.1)

Note 1 to entry: A pit and fissure sealant is not a dental restoration.