Electronic Oral Health Record in Forensic Dentistry

Jana ZVAROVA, Karel CHLEBORAD, Karel ZVARA, Tatjana DOSTALOVA

Institute of Hygiene and Epidemiology, 1st Faculty of Medicine, Charles University in Prague, Czech Republic

Department of Stomatology, 2nd Faculty of Medicine of Charles University and Hospital Motol, Prague, Czech republic

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Properly conducted dental documentation is often the key to successful identification of unknown persons or skeletal remains. Not only the teeth, but also the analysis of the materials used to rehabilitate our teeth with the help of modern technology can lead to a clear identification of the individual.

To modify the health documentation in dentistry to support forensic dentistry tasks should include: a breakdown of the number of teeth in the dental arches, the presence of filler - their material and cover the tooth in facets, endodontic root, the presences of fixed and removable dentures, implants, information on whether the teeth found incorrect teething. We developed a new electronic oral health record in dentistry (EOHR-Dent) with the Lifetime DentCross user interface. This solution is based on our experience with the electronic health record in dentistry designed for adult patients only.

EOHR-Dent with Lifetime DentCross user interface can store both structured data and narrative dental comments. Moreover, information can be stored in four languages: Czech, English, German and Spanish. The pilot application of EOHR-Dent solution is running at the Hospital in Prague-Motol.

Methodology used in research and development of the EOHR-Dent can connect this information with results of DNA analysis and other data gathered in criminalistics. The research was supported by the grants PRVOUK P28/LF1/6, P29/LF2 of Charles University in Prague.

1 Prof. Dr. Jana Zvarova, email: jana.zvarova@lf1.cuni.cz.