



### **F25 Analysis of the Possible Effects of Ethnicity on Dental Age Estimation**

*Guy Willems, PhD\**, and; *Patrick Thevissen, DDS, Katholieke Universiteit Leuven, School of Dentistry, Forensic Odontology Department, Kapucijnenvoer 7, Leuven, AL 3000, BELGIUM*; and *Pisha Pittayapat, and Vannaporn Chuenchamponut, DDS, Chulalongkorn University, Faculty of Dentistry Radiology Department, Henri Dunant Road, Pathumwan, Bangkok, AL 10330, THAILAND*

After attending this presentation attendees will have gained an insight on the possible impact of ethnicity on the estimation of chronological age based on the developmental stages of third molars in youngsters.

This presentation will impact the forensic community by providing additional scientific data on the possible influence of ethnicity on matters such as development of the human dentition and its value in dental age estimation.

Due to lack of existing and extensive databases on the development of human teeth in young adults and their relation to chronological age, forensic experts often use the few existing databases calibrated for the respective specific populations on which they were designed. This is done internationally but caution is most of the time expressed by increasing the standard deviations of the age estimation itself or by choosing wider confidence intervals.

The purpose of this investigation was to try and analyze the possible effect of ethnicity on the correlation between age and dental development in young adults from distinctively different populations.

The results are discussed in full extent and throw some light on the role ethnicity plays in forensic matters like dental age estimation.

**Dental Age Estimation, Ethnicity, Forensic Odontology**