Forensic Analysis of Human Dentition

Online course

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Course Description:

Dental analysis and its interpretation play a key role in the process of forensic identification. Dental methods are highly reliable to estimate the age of the individual, especially in cases of sub-adults. The scientific advances and the improved imaging technologies enabled the development of a number of age estimation methods for sub-adult and adults individuals. Since teeth are one of the most preserved skeletal material in fire exposure, they are extremely valuable for identification purposes. Nevertheless, the changes in teeth and surrounding skeletal structures by the fire should be understood for a proper interpretation.

The didactic portion of the course will cover dental anatomy and physiology, dental age estimation in sub-adult and adult individuals, the process of dental identification, the use of dental identification softwares, the role of the odontologists in a mass disaster scenario, dental and maxillofacial trauma and the analysis of burnt remains, and bitemark examination.

Who Should Attend:

Odontologists, Anthropologists, Dental Hygienists and other dental professionals, Forensic Pathologists, Medicolegal Death Investigators and other forensic professionals.

No dental background is required to attend this course.

Course Instructors:


Joe Adserias-Garriga , DDS, PhD, D-ABFO.


Sakher AlQahtani, BDS, MClinDent, PhD.


Raymond Miller, DDS.


Mary Cimrnancic, DDS.


Kenneth Aschheim, DDS, D-ABFO.


Alex Forrest, MDSc (Qld), GCEd (Qld), FFOMP(RCPA), FICD.

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Course Schedule:

Module 1	Dental and Maxillofacial Anatomy	Instructor
1.1	Maxillofacial Anatomy and Physiology	Cimrmancic
1.2	Permanent Dentition I	Cimrmancic
1.3	Permanent Dentition II	Cimrmancic
1.4	Deciduous and Mixed Dentition I	Cimrmancic
1.5	Deciduous and Mixed Dentition II	Cimrmancic
1.6	Q&A, discussion session	Cimrmancic
Module 2	**Dental Age Estimation**	**Instructor**
2.1	Introduction to Dental Age Estimation	AlQahtani
2.2	Fetal and Infant Dental Age Estimation I	AlQahtani
2.3	Fetal and Infant Dental Age Estimation II	AlQahtani
2.4	Adult Dental Age Estimation I	AlQahtani
2.5	Adult Dental Age Estimation I	AlQahtani
2.6	Q&A, discussion session	AlQahtani
Module 3	**Forensic Identification by Dental Means**	**Instructor**
3.1	Principles in Scientific Identification	Adserias
3.2	Dental Identification Process	Adserias
3.3	The Role of Odontology in Disaster Victim Identification	Adserias/Aschheim
3.4	Dental Identification Softwares I	Aschheim
3.5	Dental Identification Softwares II	Aschheim
3.6	Q&A, discussion session	Aschheim
Module 4	**Dental and Maxillofacial Trauma**	**Instructor**
4.1	Principles in Skeletal Trauma	Adserias
4.2	Types of Trauma in the Cranial Skeleton	Adserias
4.3	Dental Thermal Trauma I	Miller
4.4	Dental Thermal Trauma II	Miller
4.5	Q&A, discussion session	Miller/Adserias
Module 5	**Bitemark Analysis**	**Instructor**
5.1	Principles of Bitemark Analysis	Forrest
5.2	Recognizing Human Bite Marks	Forrest
5.3	Process of Bite Mark analysis and comparison	Forrest
5.4	Imaging techniques applied to bitemark examination-photography	Forrest
5.5	Imaging techniques applied to bitemark examination - digital imaging	Forrest
5.6	Q&A, discussion session	Forrest

For more information check out
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or contact Dr. Dirkmaat at
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