Priority Action Report

Odontology

Crime Scene / Death Investigation

David Senn for Robert Barsley

February 11, 2016
# Subcommittee Leadership

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Organization</th>
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<td>Chair</td>
<td>Barsley, Robert</td>
<td>ABFO</td>
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<tr>
<td>Vice Chair</td>
<td>Senn, David</td>
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<td><a href="mailto:senn@uthscsa.edu">senn@uthscsa.edu</a></td>
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<td>Executive Secretary</td>
<td>Metcalf, Roger</td>
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Leesburg, VA
Odontology Subcommittee
January 29-31, 2016

Members
Senn
Metcalf
Clmrmancic
Dobrin
Evans
Freeman
Loomis
Pitluck
Shiroma
Stanford
Wing

Affiliates
Paula Brumit
Warren Tewes

Observers
Ken Aschheim
Discipline Description

Forensic Odontology:
The application of dentistry to legal issues including, but not limited to, human identification, bitemark analysis, age estimation, litigation, oral and facial injuries, and human abuse and neglect.
Topic 1: Overview of SDOs

Priority Level: High
• Brad Wing, Secretariat   AAFS Academy Standards Board
• Sharon Stanford, Director, Standards Administration ADA

Insight into similarities and differences of the two SDOs

Encouraged early choice of SDO to facilitate document development
Dental Identification Task Group
Chair: Peter Loomis

Priority Level: High

Two products from this task group

• ANSI/ADA Standard No. 1058, Forensic Dental Data Set
  • Uniform nomenclature for forensic dental data with standardized terms to convey information for human identification.
  • On its way to Registry

• ADA Technical Report No. 1088, Human Identification by Comparative Dental Analysis
  • Guidelines for dental identification formatted for SDO
  • Pending comments from Odontology Subcommittee
  • Return to SDO in late February
  • Public Comment Adjudication in Spring 2016
Dental Identification Task Group
Chair: Peter Loomis

Priority Level: High
• Discussed mechanisms for working with DVI Subcommittee to share appropriate Odontology documents with that subcommittee
Odontology Subcommittee
Report on Virtual Subcommittee meeting
Karla Evans

- Data Format for the Interchange of Fingerprint, Facial & Other Biometric Information

- Digital transmissions standards, not a guideline

- Users implement their specifications.
Dental Age Assessment Task Group
Mary Cimrmancic for Chair Jim Lewis

Priority Level: High

• Draft guidelines for dental age assessment formulated from multiple sources
• Chair in discussions with selected SDO (ADA)
  • Edit documents using ADA Standard 1077
• Reformatted document to be returned to Odontology Subcommittee for review
• No specific timeline
Oral and Perioral Injuries: Abuse and Neglect Task Group
Chair: Larry Dobrin

Priority Level: High

- Integrating information from US and International sources
- Guidelines development strategies
  - Recognition
  - Medical assessment
  - Dental assessment
  - Differential Diagnoses
- Proposed SDO selection (ADA)
- Proposed adding John Melville, MD to group (Child abuse specialist)
- No specific timeline
Bitemark Task Group
Co-Chair Adam Freeman for Co-Chair Frank Wright

Priority Level: High

• Draft definition and criteria for human bitemark
• Developed evidence collection guidelines
• Developed proposed algorithm (decision tree)
• Co-Chairs in discussions with selected SDO (AAFS ASB)
• Reformatting documents to conform to AAFS ASB SDO
• No specific timeline
Odontology Subcommittee

Research Needs:

• Digital 3D Imaging of Patterned Injuries on human skin
• Quality and quantity of concordant features required for human Identification
• Critical Comparison of Dental Age Assessment Methods
• Specific Population Studies in Age Estimation
• Methods for determination of error rates in forensic odontology
• Reliability of Bitemark Analysis methodology
Odontology Subcommittee
KAVI live demonstration
Peter Loomis

• Review documents
• Add comments
Odontology Subcommittee

Reports from Liaison Committee meetings
• Quality Infrastructure Committee - Mary Cimrmancic
• Legal Resource Committee- Haskell Pitluck/Roger Metcalf

Formation of new task group
• Odontology terminology task group
  • Develop terminology/glossary of forensic odontology terms
• Members
  • Bob Barsley- Chair
  • Ken Aschheim
Odontology Subcommittee

Two affiliates approved for elevation to Odontology Subcommittee membership

- Paula Brumit
- Warren Tewes
Odontology Subcommittee
Carla Evans

Report on status of 3D Imaging

• 3D Facial Scanners
• Remote Sensors
• New Technology placeholder in KAVI
• Adapt Orthodontic photographic standards to forensic odontology
Odontology Subcommittee

Two affiliates approved for elevation to Odontology Subcommittee membership
• Paula Brumit
• Warren Tewes

Greg Davis suggested adding statistician David Banks of Duke University to Odontology Subcommittee

Discussed adding a Maxillofacial Radiologist to the Odontology Subcommittee