



Odontology Section – 2006

F28 Bite Mark Research – Antemortem and Postmortem Bite Marks

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This presentation will demonstrate new technique of excising skin (Dorion - Type 5) and making attendees aware of some of the factors influencing bite mark analysis.

Module 5 is a bite mark practicum for McGill University's Faculty of Dentistry and the Laboratoire de sciences judiciaires et de médecine légale (LSJML) forensic dentistry web course.

The Laboratoire de sciences judiciaires et de médecine légale (LSJML) and McGill University's Faculty of Dentistry collaborated in a project for Module 5 where live piglets were bitten to study the influence of various factors and cellular changes in tissues (1).

Human bite marks by means of mounted dental casts on a Vice-Grip were inflicted at various intervals on piglets from 1 hour before to one hour after death.

This project included the use of videography, photography (color, IR, UV, ALI), excision by a new technique (Dorion - type 5), transillumination, tissue preservation and fixation.

Various factors including those attributed to the perpetrator, the recipient, the recording, tissue preservation, extrinsic factors, transportation and storage issues are discussed in relation to the project.

The various techniques utilized for bite mark comparison using Photoshop are also demonstrated.

Reference:

(1) Dorion RBJ ed., *Bite mark Evidence*, Marcel Dekker, New York, 2004.

Bite Marks, Research, Experimental