



MADHA DENTAL COLLEGE & HOSPITAL

(A Christian Minority Institution)

(Recognised by the Dental Council of India, New Delhi (F.No.v.12017/75/2006-DE dt.01.11.2011)
and affiliated to the Tamil Nadu Dr. M.G.R. Medical University, Chennai)

Madha Nagar, Kundrathur, Chennai - 600 069. Ph.: 72739 01234, 72749 01234, Fax : 2478 0798
E-Mail : info@madhadentalcollege.com Website : www.madhadentalcollege.com

Admin. Office : 1A, Chari Street, North Usman Road, T.Nagar, Chennai - 17. Ph : 2814 0212, Tele fax : 044-2814 0213

INSTITUTIONAL DISTINCTIVENESS

GOAT HEAD SURGERY – A SIMULATED LEARNING EXPERIENCE

Madha Dental College and Hospital has implemented an innovative training method to ensure interns' proficiency in minor oral surgical procedures, utilizing goat heads for hands-on experience. It is the distinguishing feature of the institution. This comprehensive approach aims to build interns' confidence and competence in performing these procedures in real clinical settings.

LEARNING OBJECTIVE

The objective of this program is to train the students to perform minor oral surgical procedures in goat head prior to performing these surgical procedures for the first time on humans.


STANDARD OPERATIVE PROCEDURE

PREPARATION OF GOAT HEAD

The cheeks are cut and opened all the way back to ramus of the mandible with scalpel. It is important to cut all the muscle that keep the mandible attached to the rest of the sheep head, in order to separate the two parts. The two Jaws are easily pulled apart, and excessive soft tissue and muscles are removed either by scalpel or scissor. The mandible and maxilla cleaned and ready for surgery.

PROCEDURES PERFORMED BY STUDENTS IN GOAT HEAD

- Extraction of tooth with elevator and forceps
- Surgical removal of impacted tooth with sinus perforation


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- Biopsy procedures
- Suturing exercises in goat head

EVIDENCE OF SUCCESS OF THE PRACTICE


The sheep maxilla has proven to be a suitable model for practicing and teaching a variety of oral surgical procedures. The model is suitable for trans alveolar techniques, techniques for biopsy, and placement of surgical membranes. Because of lack of blood and salivation in the surgical field, the model gives the opportunity to visualize and grasp the significance the sheep cadaver is easily obtainable and inexpensive to purchase. The model based on the sheep maxilla is potentially very useful in teaching undergraduate. A total 162 interns have been trained under this program. At the conclusion of each program, feedback was collected from all the interns using a 4-point Likert scale, ranging from "fair" to "excellent." The program received an "excellent" rating based on the feedback provided.

ISSUES /CHALLENGES FACED IN DESIGNING AND IMPLEMENTATION OF THE PRACTICE:

- Difficulty in taking radiographs of the sheep maxilla to get a better view of the anatomy, with emphasis on the maxillary sinus and its relation to the third molar.
- Difficulty in removing the Dense bone tissue and tooth as a whole due to its lengthy roots.
- More thorough examination of the sheep head and dentition is needed to be certain of the anatomy.

CONSTRAINTS AND LIMITATIONS FACED DURING THE PRACTICE

The difference in morphology of sheep premolars and molars makes it hard to compare the sheep dentition to the human dentition. Especially, the sheep molar's massive roots differ a great deal from that of human, and this makes them much less realistic when practiced on.


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Despite the differences, sheep and humans share several similarities which could be useful in pre-clinical courses. For instance, the sheep's deciduous premolar looks similar to human molars, and the soft tissue in the sheep model could be used to practice suturing, different flap procedures, biopsies etc.

RESOURCES REQUIRED FOR IMPLEMENTING THE PRACTICE

- Goat head
- Razor
- Shaving blade
- Surgical blade
- Artery forceps (straight and curved)
- Rat tooth forceps
- Towel clamps
- Surgical needle
- Scissors
- Needle holder
- Probe
- Catgut
- Nylon threads
- Silk threads
- Cotton
- Gauze
- Surgical drapes
- Antiseptic solutions
- Anaesthetic agents


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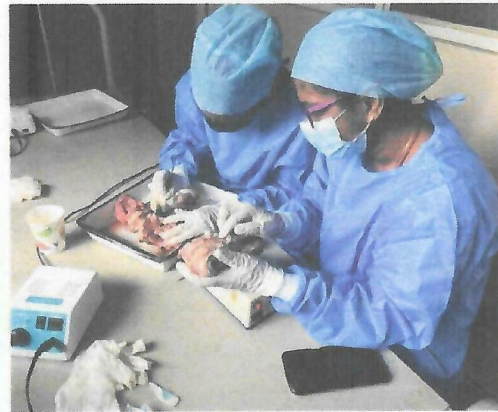
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PHOTOS

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