KNOWLEDGE, ATTITUDES AND PRACTICES OF DENTAL STUDENTS TOWARD VAZIRANI AKINOSI TECHNIQUE - A Questionnaire Survey

Type of Article: Knowledge, attitude and practice survey.
Running title: Knowledge, Attitudes and Practices of dental Students toward Vazirani Akinosi Technique

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Abstract
The inferior alveolar nerve block is the most commonly used injection technique for local anesthesia of the mandible while doing surgical procedures. But it if found that this block does not alwat achieve 100% successful pulpal anesthesia.. Failure rates are found to be 10% to 40% in experimental studies. Gow-Gates invented a new mandibular block in 1973. This method of injection uses an extraoral approach with the help of the landmarks, and the target site is the neck of condyle. Many studies have come to prove that this technique has more success rate (92 to100%) than the conventional inferior alveolar nerve block technique(65 to 86%). However, Todorovic et al. found that a the conventional inferior alveolar nerve block was more successful in anasthetising the area of interest than the Gow-Gates block, whereas Agren and Danielsson , Montagnese et al., and Hung et al. found the 2 techniques provided the same success rate. Akinosi introduced a new technique for mandibular anesthesia in 1977. But, Vazirani also described the same technique in 1960 and so the technique was named as the Vazirani-Akinosi technique. The injection is a closed mouth technique. The landmarks for the injection are the mucogingival junction of the maxillary second molar. This technique is used when there was a condition of limited mouth opening, in cases of trismus, which indicates the use of the inferior alveolar or Gow-Gates techniques. Sisk and Todorovic found the VaziraniAkinosi technique was equivalent to the conventional inferior alveolar nerve block. Whereas, many others claimed that the conventional inferior alveolar nerve block was superior than the Vazirani-Akinosi technique. Further studies and research of Gow-Gates and Vazirani-Akinosi technique are needed to ensure their appropriate clinical use. Evaluated.

Material and Methods:
A cross-sectional study was conducted in December 2016 using a self-structured questionnaire to collect information from Dental colleges in chennai

Results: Knowledge, attitude and practice of the vazirani akinosi technique is more followed by post graduate belonging to the Department of Oral and maxillofacial surgery

Conclusion: Based on the results of this survey, authors concluded that there is lack of knowledge about the vazirani akinosi technique among undergraduates and post graduates. Participation in such workshops must be made mandatory for all dental health care providers.

Keywords: Local anasthesia, nerve block, injection, LA

Introduction
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Aim: The aim of this study was to assess dental students knowledge about the vazirani akinosi technique

Objectives
1. To gather the knowledge and attitude of the vazirani akinosi technique among dental students.
2. To assess the practical usage of the vazirani akinosi technique

Material and methods
A. Study design:
   i. Place of study- Department of Oral and Maxillofacial Surgery, Saveetha Dental College and Hospital, Chennai.
   ii. Source of Data- Dental colleges in Chennai.
   iii. Sample Description- Four groups including post graduates and interns, final year and third year undergraduates of different dental colleges in chennai.
   iv. Selection Criteria:
      1. Inclusion Criteria:
         • Dental students of different dental colleges in chennai.
      2. Exclusion Criteria:
         • Students who are unwilling to participate in the study.
         • Those students who remain absent for three consecutive days.
   B. Material/Equipment for the study:
      • A self-made questionnaire
   C. Methodology:
      This will be a cross-sectional questionnaire study. A set of 15 questions was given to each of the four groups which include post graduates and interns, final year and third year undergraduates of Saveetha Dental College and Hospital. The students were assessed on the basis of their knowledge (9 questions) about local anaesthetic technique (2 questions) the technique of the vazirani akinosi technique and the practical usage of the technique (4 questions).

Result:
Discussion
Knowledge, Attitude and Practice of post graduates is more followed by interns, final years and third years. Logical learning about the vazirani akinosi technique is a must among dental students. They must have sound theory knowledge as well as be trained to practically use the technique on a regular basis.

Conclusion
The current study will help us in understanding the knowledge, attitude and practice on the vazirani akinosi technique among the budding doctors. As dental science students are an integral part of the health care system, and often play the role of relieving pain for patients, they must be trained in handling and practicing different type of local anesthetic administration technique as the condition of the patient deamands.
References: