

E-ISSN: 2707-4455 P-ISSN: 2707-4447 Impact Factor (RJIF): 6.01 IJFM 2025; 7(2): 37-41 www.forensicpaper.com Received: 19-04-2025

Accepted: 21-05-2025

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Assessment of knowledge, attitude and practice about forensic odontology among dental students in Shivamogga city: A cross-sectional study

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DOI: https://www.doi.org/10.33545/27074447.2025.v7.i2a.105

Abstract

Introduction: Forensic odontology aids crime-solving, collaborating with law enforcement, pathology, and anthropology. It uses radiography and bite mark analysis, solving cold cases and aiding court proceedings, crucial during mass disasters. Yet, its global prevalence was minimal compared to forensic medicine. India lacks forensic odontology courses, discouraging potential candidates and fostering negative perception. Objective: To assessed the knowledge and attitude and practice among dental students in Shivamogga city, on forensic odontology. Methodology: A Questionnaire-based studied was conducted among 318, 3rd, 4th, internship and postgraduate's dental students across 2 colleges in Shivamogga city. 15 questions were formulated and circulated through google forms. Statistical analysis was done using Kendall's tau and Chi-Square tests. The predetermined significance level was set as p < 0.05. Result: Out of 318 responses, 24.5% were 3rd-year students, 28.6% were 4thyear students, 25.8% were in an internship, and 21.1% were postgraduates. The survey question regarding the study of lip prints in forensic dentistry, and the inquiry about knowledge and awareness of forensic odontology, were statistically significant in biological sex, age group, and year of study. The remaining 13 questions were significant in one or two variables. Conclusion: In Shivamogga, there was an absence of exposure to the field of forensic odontology, primarily due to its exclusion from the undergraduate curriculum and the absence of workshops, seminars, and continuing education programs for postgraduates. This suggests a clear need for formal training to raise awareness among dental professionals about the significance of forensic odontology in society.

Keywords: Forensic odontology, crime-solving, radiography, bite mark analysis, mass disasters

Introduction

Forensic odontology, derived from the Latin term "forensis," which refers to the "court of law" or forum, was a specialized branch of dentistry concerned with the legal aspects of dental evidence. According to the Federation Dentaire International, forensic odontology aims to promote justice by meticulously managing and analyzing dental data while preserving it for legal investigations [1]. The discipline encompasses various applications, including criminal cases, insurance disputes, marital conflicts, impersonation, and the identification of missing persons [2]. Dental features, like fingerprints, were nearly unique to each individual, making them critical in forensic identification processes [3]. The resilience of dental tissues, capable of withstanding temperatures as high as 1600°C, ensures their viability in identifying remains long after death, utilizing indicators like decay, missing teeth, and dental fillings according to the DMF (Decayed, Missing, Filled) Teeth criteria [4]. Despite global advancements in forensic dentistry, the field remains underdeveloped in India, with limited studies contributing to a significant gap in literature and slower progress [5]. The field of forensic identification was inherently multidisciplinary, requiring collaboration between law enforcement, forensic odontologists, anthropologists, pathologists, and other specialists for accurate results [6]. Notable instances of forensic dental identification included the use of DNA from toothbrushes to identify victims of the 9/11 World Trade Center attacks and the identification of Saddam Hussein's sons through dental evidence [7]. In India, the first recorded dental identification occurred in 1191 when M. Raja Jayachandra Rathore was recognized by his false anterior teeth [7]. While India offers diploma and postgraduate programs in forensic odontology, only three institutions provide a Master of Dental Surgery, limiting student access and hindering the field's nationwide expansion [8].

Materials and Methods

Ethical consideration: This studied was conducted after obtaining written institutional approval from Institutional Ethical Committee, Subbaiah Institute of Dental Sciences, Shivamogga (SIDS/IEC/0038). Written informed consent was taken from the participants.

Study design: This was a cross sectional studied conducted at Subbaiah Institution of Dental Sciences, Shivamogga and Sharavathi dental college and hospital Shivamogga. It was carried out between January 2024 to April 2024 for 2 months.

Sample size: The convenience sample of 318 participants, these many participants were participated in this study.

Inclusion Criteria

• Study includes only 3rd year, 4th year, internship and postgraduates' dental students.

Exclusion Criteria

- Students who were not interested in the study.
- Study excludes all first years, second years dental students

Materials

- Question are in Google Forms
- Data Collection Tool
- Data collection was carried out over a period of three

- months.
- The questionnaire would be distributed via an online survey platform to facilitate greater participation.
- These questionnaires utilized in this studied were adapted from Giannakopoulos *et al*, Kostis *et al*. to ensure that the selected questions were relevant and applicable, capturing insights specific to the context of the Shivamogga dental institutions.

Statical Analysis

The data was entered in Microsoft excel sheet.

- The data was analyzed using the statistical software SPSS version 23
- Descriptive statistics of the data was expressed in terms of frequency and percentage, mean and standard deviation also calculated.
- Correlation was performed using Kendall's Tau test, depending on the type of variables.
- The significance of the difference between two proportions would be assessed with chi-squares test.

Results

A total of 318 dental students completed the questionnaire, out of 522 which included 169undergraduates, 82 interns and 67postgraduates. Males (123 [39%]) and females (195 [61%]) aged between 19 and 29 years were included. The demographic characteristics of the respondents were pre sented in Graph 1, Table 1 Frequency of age groups with year of study.

Table 1: Frequency of age groups with year of studied

| Sr. no. | Year of study | Age groups | N (%) |
|---------|-----------------------|------------|----------|
| 1. | 3 rd years | 19 - 21 | 78 (24%) |
| 2. | 4 th years | 20 - 23 | 91 (29%) |
| 3. | Interns | 20 - 29 | 82 (26%) |
| 4. | Post graduates | 21 - 29 | 67 (21%) |

p < 0.05 (considered as statistically significant)

Table 2: The answers of students (n=318) to the survey questions were presented.

| Q. no. | Survey questions | Answers | Participants [N (%)] | |
|--------|---|------------------------------------|----------------------|--|
| Q1 | | Yes | 298 (93.7%) | |
| | Are you aware that the forensic odontology is a branch of dentistry? | No | 20 (6.3%) | |
| Q2 | Can teeth serve as a source of DNA? | Yes | 252 (79.2%) | |
| | | No | 46 (14.5%) | |
| | | I don't know | 20 (6.3%) | |
| | How do you identify the dental age in children and adult? | Eruption pattern and calcification | 229 (72%) | |
| 02 | | Histological method | 38 (11.9%) | |
| Q3 | | Biochemical method | 42 (13.2%) | |
| | | I don't know | 9 (2.8%) | |
| Q4 | How will you identify a deceased person's age and gender in mass disasters? | Reconstruct the fragmented | | |
| | | deceased body | 87 (27.4%) | |
| | | Dental records | 149 (46.9%) | |
| | | Fingerprints | 55 (17.3%) | |
| | | I do not know | 27 (8.5%) | |
| | Is forensic dentistry useful in identifying the criminals and dead people? | Yes | 253 (79.6%) | |
| Q5 | | No | 47 (14.8%) | |
| | | I do not know | 18 (5.7%) | |
| | What is the study of lip prints in forensic dentistry? | Lipology | 31 (9.7%) | |
| Q6 | | Cheiloscopy | 215 (67.6%) | |
| | | Dermatoglyphics | 37 (11.6%) | |
| | | I do not know | 35 (11%) | |
| Q7 | A C(1 ' 'C' C1', 1 , (C, (10 | Yes | 283 (89%) | |
| | Are you aware of the significance of bite mark pattern of teeth? | No | 35 (11%) | |
| Q8 | | Book | 66 (20.8%) | |
| | What is the source of your knowledge about forensic dentistry? | Internet | 67 (21.1%) | |
| | | Workshops, seminars, lectures | 170 (53.5%) | |

| | | I do not have knowledge | 15 (4.7%) |
|-----|---|-------------------------|-------------|
| Q9 | Do you think your knowledge and awareness about forensic odontology | Yes | 132 (41.5%) |
| | | No | 168 (52.8%) |
| | is enough? | I do not know | 18 (5.7%) |
| Q10 | Are you interested to participate in workshops and seminars in forensic | Yes | 263 (82.7%) |
| Q10 | odontology? | No | 55 (17.3%) |
| | Are you aware of your institution maintain dental records? | Yes | 195 (61.3%) |
| Q11 | | No | 106 (33.3%) |
| | | N/A | 17 (5.3%) |
| Q12 | Do you think meticulous dental record keeping is a significant component of quality patient care? | Yes | 244 (76.7%) |
| | | No | 45 (14.2%) |
| | | Maybe | 29 (9.1%) |
| | How will you identify physical neglected/sexual/psychological abuse of a child? | Physical injuries | 8 (2.5%) |
| | | Behavioral changes | 14 (4.4%) |
| 012 | | Clothing | 5 (1.6%) |
| Q13 | | Any scar | 13 (4.1%) |
| | | All of the above | 271 (86.2%) |
| | | I do not know | 7 (2.2%) |
| | What action would you take if you identify child abuse? | Inform police | 140 (44%) |
| Q14 | | Inform parents | 167 (52.5%) |
| | | Take no action | 11 (3.5%) |
| Q15 | Are you aware that you can testify as an expert witness in the court to present forensic dental evidence? | Yes | 220 (69.2%) |
| | | No | 78 (24.5%) |
| | present forensie dental evidence: | N/A | 20 (6.3%) |

p < 0.05 (considered as statistically significant)

Table 2 summarizes the survey results from 3rd-year, 4th-year, Intern, and Postgraduate students. Of the participants, 93.7% were aware that forensic odontology was a branch of dentistry, and 79.2% recognized that teeth could provide DNA. For dental age identification, 72% rely on eruption patterns, 11.9% use histological methods, and 13.2% use biochemical methods. In mass disaster cases, 46.9% would use dental records, 27.4% would reconstruct fragmented bodies, and 17.3% would rely on fingerprints. Forensic dentistry's role in identifying criminals and deceased was acknowledged by 79.6% of respondents.

Cheiloscopy was correctly identified by 67.6%, and 89% understand the importance of bite mark patterns. Information was mostly gained from workshops (53.5%), while only 41.5% feel their knowledge was adequate, though 82.7% want more training. In institutional practices, 61.3% know their institution maintains dental records, and 76.7% believe good record-keeping was vital for quality care. For child abuse identification, 86.2% would look for physical or behavioral signs, and 52.5% would inform parents, while 44% would go to the police. Lastly, 69.2% know they could testify as expert witnesses in court.

 Table 3: Correlations of student's answers to survey questions with demographic characteristics.

| Q. no. | Survey questions | Biological sex | Age group | Year of study |
|--------|---|----------------|----------------|----------------|
| Q1 | Are you aware that the forensic odontology is a branch of dentistry? | tau = 0.020 | tau = -0.011 | tau = -0.063 |
| | Are you aware that the foreliste odolitology is a trailer of delitistry? | p = 0.727 | p = 0.822 | p = 0.222 |
| Q2 | Can teeth serve as a source of DNA? | tau = -0.059 | tau = -0.109* | tau = -0.165** |
| | | p = 0.280 | p = 0.025 | p = 0.001 |
| O3 | How do you identify the dental age in children and adult? | tau = -0.115* | tau = -0.022 | tau = -0.026 |
| QS | How do you identify the dental age in children and adult? | p = 0.033 | p = 0.651 | p = 0.573 |
| Q4 | How will you identify a deceased person's age and gender in mass disasters? | tau = 0.073 | tau = -0.136** | tau = -0.142** |
| | | p = 0.164 | p = 0.003 | p = 0.003 |
| Q5 | Is forensic dentistry useful in identifying the criminals and dead people? | tau = -0.039 | tau = -0.022 | tau = -0.081 |
| Q3 | | p = 0.478 | p = 0.658 | p = 0.106 |
| O6 | What is the study of lip prints in forensic dentistry? | tau = 0.029 | tau = -0.096* | tau = -0.110* |
| Qu | | p = 0.585 | p = 0.043 | p = 0.024 |
| Q7 | Are you aware of the significance of bite mark pattern of teeth? | tau = -0.071 | tau = -0.205** | tau = -0.252** |
| Q/ | | p = 0.203 | p = 0.000 | p = 0.000 |
| O8 | What is the source of your knowledge about forensic dentistry? | tau = -0.035 | tau = -0.003 | tau = -0.083 |
| Ų٥ | | p = 0.513 | p = 0.948 | p = 0.085 |
| Q9 | Do you think your knowledge and awareness about forensic odontology is | tau = 0.155** | tau = -0.193** | tau = -0.151** |
| Q9 | enough? | p = 0.005 | p = 0.000 | p = 0.003 |
| Q10 | Are you interested to participate in workshops and seminars in forensic odontology? | tau = -0.029 | tau = -0.041 | tau = -0.050 |
| Q10 | | p = 0.600 | p = 0.411 | p = 0.330 |
| 011 | Are you every of your institution maintain dental records? | tau = -0.097 | tau = -0.100* | tau = -0.146** |
| Q11 | Are you aware of your institution maintain dental records? | p = 0.078 | p = 0.040 | p = 0.004 |
| Q12 | Do you think meticulous dental record keeping is a significant component of quality patient care? | tau = -0.021 | tau = -0.131** | tau = -0.158** |
| Q12 | | p = 0.703 | p = 0.007 | p = 0.002 |
| Q13 | How will you identify physical paglosted/savual/psychological character of a child? | tau = 0.102 | tau = 0.021 | tau = 0.048 |
| QIS | How will you identify physical neglected/sexual/psychological abuse of a child? | p = 0.061 | p = 0.662 | p = 0.332 |
| 014 | What action would you take if you identify child abuse? | tau = 0.017 | tau = -0.035 | tau = -0.097 |
| Q14 | | p = 0.756 | p = 0.470 | p = 0.056 |
| 015 | Are you aware that you can testify as an expert witness in the court to present | tau = -0.032 | tau = -0.191** | tau = -0.236** |
| Q15 | forensic dental evidence? | p = 0.560 | p = 0.000 | p = 0.000 |
| * 0 | one allowing single engagers only. Statistically significant n values in hold | - | • | |

^{*} Questions allowing single answers only. Statistically significant p-values in bold.

Positive, weak, and statistically significant correlations were found between students' biological sex and their responses to questions like "How did you identify the dental age in children and adults?" and "Is your knowledge of forensic odontology sufficient?" A negative, weak, and statistically significant relationship was noted between biological sex and awareness of forensic odontology as a branch of dentistry. Students' age groups also showed negative, weak,

and statistically significant correlations with questions about child abuse actions and the importance of dental record-keeping. Additionally, year of studied exhibited negative, weak, and statistically significant correlations with questions on knowledge sources, awareness of forensic odontology, age identification methods, and interest in workshops (Table 3).

Table 4: Statistical significance difference levels of the Chi-square test associations of student answers to survey questions with demographic characteristics

| Q. no | Survey questions | Biological sex | Age group | Year of study |
|-------|---|-------------------|--------------|---------------|
| Q1 | Are you aware that the forensic odontology is a branch of dentistry? | 0.727 | 0.210 | 0.389 |
| Q2 | Can teeth serve as a source of DNA? | 0.105 | 0.022 | 0.000 |
| Q3 | How do you identify the dental age in children and adult? | 0.058 | 0.194 | 0.050 |
| Q4 | How will you identify a deceased person's age and gender in mass disasters? | 0.009 | 0.073 | 0.004 |
| Q5 | Is forensic dentistry useful in identifying the criminals and dead people? | 0.435 | 0.512 | 0.254 |
| Q6 | What is the study of lip prints in forensic dentistry? | 0.043 | 0.009 | 0.000 |
| Q7 | Are you aware of the significance of bite mark pattern of teeth? | 0.203 | 0.006 | 0.000 |
| Q8 | What is the source of your knowledge about forensic dentistry? | 0.495 | 0.000 | 0.000 |
| Q9 | Do you think your knowledge and awareness about forensic odontology is enough? | 0.002 | 0.000 | 0.000 |
| Q10 | Are you interested to participate in workshops and seminars in forensic odontology? | 0.599 | 0.333 | 0.467 |
| Q11 | Are you aware of your institution maintain dental records? | 0.209 | 0.458 | 0.009 |
| Q12 | Do you think meticulous dental record keeping is a significant component of quality patient care? | 0.104 | 0.033 | 0.011 |
| Q13 | How will you identify physical neglected/sexual/psychological abuse of a child? | 0.008 | 0.933 | 0.089 |
| Q14 | What action would you take if you identify child abuse? | 0.784 | 0.343 | 0.217 |
| Q15 | Are you aware that you can testify as an expert witness in the court to present forensic dental evidence? | 0.353 | 0.056 | 0.000 |

Statistically significant p - values in bold italics.

The chi-square test showed significant associations between age group, mean age, academic year, and students' survey responses. A statistically significant link was found between biological sex and responses to questions like "What was the source of your knowledge about forensic dentistry?" and "Is your knowledge of forensic odontology sufficient?" Similarly, biological sex was significantly associated with responses on identifying child abuse. Year of studied was also significantly associated with questions about DNA in teeth, the studied of lip prints, the significance of bite mark patterns, knowledge sufficiency, and testifying as an expert witness. Questions on lip prints and knowledge sufficiency were statistically significant across all age groups, mean age, and academic year (Table 4).

Discussion

Dentists, like other healthcare professionals, play a key role in identifying signs of abuse, such as child, elder, or spousal abuse, especially when dealing with unusual oral injuries. Abuse-related injuries could include fractured or missing teeth, jaw fractures, labial frenum lacerations, and bruises on the lips, face, or neck. Kenney and Clark report that 50% of child abuse injuries involve the oral and perioral areas. Bite mark analysis was valuable in forensics, aiding in matching suspects to crimes14. Dental records serve not only forensic purposes but also legal and insurance functions, yet many practitioners fail to keep complete records or meet the legal requirement to retain them for 7-10 years15.

Our study, conducted at Subbaiah and Sharavathi Institutes of Dental Sciences in Shivamogga, assessed awareness, knowledge, attitudes, and practices regarding forensic odontology among undergraduate and postgraduate students. We found gaps in knowledge and training, indicating a need for better education in forensic odontology13. In India, forensic odontology training was

limited, with few institutions offering it, few workshops or conferences available, and inadequate laboratory facilities. Many studies were reported about forensic odontology,

The studied aimed to assessed dental professionals' awareness and aptitude in forensic odontology. A questionnaire was distributed, covering topics like dental record maintenance and forensic knowledge. Results showed 93.5% had studied forensic odontology basics, 75.3% recognized signs of physical abuse in pediatric patients, and 56.3% could document bite marks. However, 78.4% were unaware of dental record preservation for forensic use. The studied concluded a lack of knowledge and formal training in forensic odontology among dental practitioners in India [4].

This studied aimed to assess the knowledge, attitude, and practice of forensic odontology among dental students at Riyadh Elm University, Saudi Arabia. A survey of 400 students showed that 75% of postgraduates, 42% of graduates, and 40.9% of undergraduates knew teeth could serve as a DNA source. Most participants (95%) understood the role of forensic dentistry in investigations, but 62.73% of undergraduates were unaware of job opportunities in the field, and 97.5% said forensic dentistry wasn't part of their curriculum. The studied concluded that undergraduates and graduates had less knowledge and practice in forensic odontology than postgraduates [13].

This studied aimed to assessed the knowledge and attitude of senior dental students in Chennai regarding forensic odontology. A survey of 400 students revealed that while most received formal education, they felt their knowledge was inadequate due to limited exposure. The students suggested that increased emphasis on forensic odontology could expand its potential in India, where the field remains underdeveloped compared to other countries [9].

This studied assessed the knowledge, attitude, and practice of forensic odontology among 322 dental practitioners in

Chennai. Results showed that 21% did not maintained dental records, 93% lacked formal training, and many were unaware of key forensic practices such as dental age estimation (41%) and child abuse reporting (40%). The studied concluded that dental practitioners in Chennai had insufficient knowledge and practice in forensic odontology [12]. Our studied focused on evaluating the level of awareness and knowledge about forensic odontology among the participants, as well as their attitudes towards this field. By assessing these factors, we aimed to identify gaps in knowledge and training, and to highlight the need for enhanced educational efforts in forensic odontology within the dental curriculum at these institutions 13. Furthermore, only a few workshops or conferences on forensic odontology were held annually for dental surgeons, limiting opportunities to spark student interest in the field [16].

Limitations

The studied only involved students from two dental colleges in one city, so the results might not be applicable to all dental students in India. Additionally, students did not receive sufficient hands-on experience or training in forensic odontology, which impacted their knowledge and confidence. These limitations indicate the need for broader, more diverse sampling and improved educational frameworks to enhance forensic odontology awareness and practice among dental students.

Conclusion

The studied revealed a significant gap in knowledge and practice of forensic odontology among dental students in Shivamogga, highlighting minimal curriculum presence and practical exposure in India. This indicates a need for integrating forensic odontology in the curriculum and specialized training to better prepare students for effective participation in the field.

Public Health Significance

Forensic odontology was crucial for identification in legal and disaster scenarios, but it remains underdeveloped in India due to inadequate education and training. This studied identifies gaps in dental students' knowledge and suggests that better education and training could improve their forensic skills, enhance dental record-keeping, and strengthen public health and legal systems.

Conflict of Interest

Not available

Financial Support

Not available

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How to Cite This Article

Deepak R, Prakash VH, Chethan J, Beebi A, Prithvik R, Sneha. Assessment of knowledge, attitude and practice about forensic odontology among dental students in Shivamogga city: A cross-sectional study. International Journal of Forensic Medicine. 2025;7(2):37-41.

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