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Survey on acceptance accuracy and adaptation of digital impression system in dental practice among general dentists: A questionnaire based survey

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ABSTRACT

Statement of problem:

The adoption of digital impression systems (DIS) in dental practices has gained momentum due to their ability to enhance the accuracy, efficiency, and comfort of dental procedures. However, the acceptance and adaptation of DIS among general dentists remain varied, with factors such as system accuracy, ease of integration, and training requirements playing crucial roles in its widespread adoption.

Objective:

This study aimed to assess the acceptance, accuracy, and adaptation of digital impression systems in dental practices among general dentists. Specifically, the study sought to explore dentists' experiences with DIS, including its impact on clinical outcomes, practice efficiency, and patient satisfaction.

Methods:

A questionnaire-based survey was distributed to general dentists across various practice settings. The survey covered key areas such as demographic information, frequency and type of DIS usage, perceived accuracy and quality of digital impressions, factors influencing adoption, challenges faced during

integration, and overall satisfaction with DIS. Data were analyzed to identify trends and patterns related to the acceptance and adaptation of DIS.

Results:

The survey revealed that most dentists (approximately 70%) reported positive experiences with DIS, citing improved accuracy and faster procedures compared to traditional impression methods. The majority of respondents indicated high levels of patient satisfaction, particularly in terms of comfort and reduced procedure time. However, challenges such as the high initial cost, inadequate technical support, and training difficulties were noted by a significant portion of participants (40%). Despite these challenges, over 80% of dentists expressed confidence in the long-term benefits of DIS and recommended its adoption to colleagues.

Conclusion:

The findings suggest that while digital impression systems are generally well-received among general dentists, there are still barriers to full adoption, particularly related to cost, training, and technical support. Future efforts to improve DIS systems, along with targeted training and support, may facilitate wider acceptance and enhance the integration of digital technologies into routine dental practice. This study contributes valuable insights for manufacturers, educators, and policymakers aiming to promote the use of digital impression systems in dentistry.

Keywords:

Digital impression systems, dental practice, general dentists, adoption, accuracy, patient +

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