Reg. No: RJ17D0105798 ISSN NO: 2582-0362

HEB JOPD

Journal of Prosthodontics Dentistry
An Official Publication of Bureau for Health & Education Status Upliftment
(Constitutionally Entitled As Health-Education, Bureau)

Intra Oral Scanners: A Review

Durga Prasad Tadi[1], Sunil Chandra Tripuraneni[2], Kaleswara Rao Atluri[3], Naga Sai Maneesh Raavi[4], Hemchand Surapaneni[5], Aiswarya Suggala[6]

[1]Reader, Department of Prosthodontics & Crown and Bridge & Implantology, Drs.Sudha & Nageswara Rao Siddhartha Institute Of Dental Sciences, Gannavaram, Andhra Pradesh- 521286.

[2] Head & Professor, Department of Prosthodontics & Crown and Bridge & Implantology, Drs.Sudha & Nageswara Rao Siddhartha Institute Of Dental Sciences, Gannavaram, Andhra Pradesh- 521286.

[3]Professor, Department of Prosthodontics & Crown and Bridge & Implantology, Drs.Sudha & Nageswara Rao Siddhartha Institute Of Dental Sciences, Gannavaram, Andhra Pradesh- 521286.

[4]Post Graduate, Department of Prosthodontics & Crown and Bridge & Implantology, Drs.Sudha & Nageswara Rao Siddhartha Institute Of Dental Sciences, Gannavaram, Andhra Pradesh- 521286.

[5]Professor, Department of Prosthodontics & Crown and Bridge & Implantology, Drs.Sudha & Nageswara Rao Siddhartha Institute Of Dental Sciences, Gannavaram, Andhra Pradesh- 521286.

[6]Senior Lecturer, Department of Prosthodontics & Crown and Bridge & Implantology, Drs.Sudha & Nageswara Rao Siddhartha Institute Of Dental Sciences, Gannavaram, Andhra Pradesh- 521286.

Email Id: serviceheb@gmail.com

ABSTRACT:

Background: Intraoral scanners (IOSs) are used for capturing direct optical impressions in dentistry. Like other three-dimensional (3D) scanning technologies, they project light onto the object to be scanned, in prosthodontics, the dental arches, including prepared teeth and implant scan bodies.

Purpose: The purpose of this review is to summarize the intraoral scanning technologies and their advantages over the conventional impression techniques.

Materials and Methods: Electronic database searches were performed using MeSHterms and specific keywords. The searches wereconfined to full-text articles published in peer-reviewed journals.

Results: Forty nine studies were included in the present review; among them, 12 were previous literature reviews, 3 were in vivostudies, 4 randomized controlled trials, 15 comparative studies, 3 clinical reports, 2 case reports and 10 were in vitro comparative studies.

Conclusion: Optical impressions have several advantages over conventional impressions, as they reduce patient discomfort by eliminating physical impressions and plaster models. The current

Intraoral scanners are accurate enough for capturing impressions for fabricating prosthetic restorations on both natural teeth and implants; in addition, they can be used for smile design, and to fabricate posts and cores, removable partial prostheses and obturators.

Keywords: Intraoral scanners, Impressions, 3D(Three Dimensional) surface, Software.

Access this Article Online	Quick Response Code:
Website:http://heb-nic.in/jopd	
Received on 14/06/2021	
Accepted on 05/07/2021 © HEB All rights reserved	