

# Knowledge, Attitude, And Awareness in Dentists on The Computer Technology Applications in Surgical Implant Dentistry

Meer Zakirulla, MDS\* Najeeb Muflih Alqahtani\*\* Waad Salem A Alarram\*\*\* Rasha Hussain Al-Zahrani, BDS\*\*\*\* Ali Ahmed Alshehri\*\*\* Nawaf Ali Alshehri\*\*\* Mohammed Saleh Alqahtani\*\*\* Saeed Ali Alqahtani\*\*\* Mohammed S Alshahrani, BDS\*\*\*\*\* Ebtisam Nasser M Al Hatlan, BDS\*\*\*\* Sundus Saad Alqarni\*\*\* Rahaf Mohammed G Alamry\*\*\* Jawaher Ali A Alalyah\*\*\* Asma Fayz S Alshehri\*\*\*

## ABSTRACT

**Study Design:** Cross-sectional

**Aim:** This study aimed to evaluate the knowledge, attitude, and awareness in dentists on the computer technology applications in surgical implant dentistry.

**Methods:** A cross-sectional study was conducted after receiving clarifications regarding the objectives of the research and signing a statement of informed consent. The participants of the study comprised of total number of 300 dental surgeons (Male-186; Female-114) with age range from 20- to 55- years-old to understand the knowledge, attitude, and perception among dentists on the computer technology applications in surgical implant dentistry. The questionnaire was formulated and given and data was collected from dental surgeon. The data were entered and analyzed using the Statistical Package for the Social Sciences (SPSS 20). A P-value of less than 0.05 was considered to be statistically significant.

**Results:** The majority of participants, 198(66%) were said that they were aware of the use of digital technologies in your practice? (e.g.-RVG, CBCT, Intraoral Scanner). Majority of participants 267(89%) agreed that currently available digital technologies users friendly. Participants 155 (52%) stated that they will prefer OPG as imaging modality while planning implants. Majority of the dentists 219 (73%) agreed that their patients would prefer implant placement over conventional methods for replacing tooth.

**Conclusions:** Study findings revealed that dental professionals possess a high level of knowledge and education towards dental implants with digital applications. However, further progress is needed on all educational levels, in addition to advanced level training of dental implant placement for the purpose of enabling dentists to carry out dental implant procedures with a higher level of confidence.

**Keywords:** Knowledge, Implants, Computer technology, Questionnaire, Saudi Arabia

*Bahrain Med Bull 2023; 45 (4): 1793 - 1797*

---

\* Assistant Professor  
Department of Pediatric Dentistry & Orthodontic Sciences  
College of Dentistry  
King Khalid University  
Abha, Saudi Arabia.  
E-mail: drzak786@gmail.com

\*\* Student  
BMC College  
Aseer, Saudi Arabia.

\*\*\* Intern  
College of Dentistry  
King Khalid University  
Abha, Saudi Arabia.

\*\*\*\* General Dentist  
Abha, Saudi Arabia.

\*\*\*\*\* General Dentist  
Ministry of Health  
Khamis Mushayt  
Saudi Arabia.