Measuring Dentist's Awareness and Knowledge About Application of Photobiomodulation In Restorative Dentistry and Endodontics

Meer Zakirulla, MDS* Souad Hassan Al Haider, BDS** Dareen A Alshehri, BDS*** Mohammad Haif S Alqhtani, BDS****
Abdelaziz Ahmed Q Alahmari, BDS**** Abdulrahman Salem S Almubarak, BDS** Turki Mohammed H Alalsharif, BDS**
Mohammed Ali M AlMutiq***** Nada Mohammed M Asiri****** Sara Yousef S Asiri****** Mohammed Ali Al-Shehri,
BDS** Rawan Hussain Alshehri, BDS** Abdulmajeed Yahya Muawwadh****** Fawziah Yahya M Alshehri, BDS**

ABSTRACT

Study Design: Cross-sectional

Objective: This study aimed to assess the dentist's awareness and knowledge about the application of Photobiomodulation in restorative dentistry and endodontics.

Methods: A cross-sectional study was carried out on a total number of 300 dental surgeons (Male=150; Female=150) was participated in the study with age ranges from 20- to 55-year-old to know the knowledge, attitude, and perception among dentists about the application of Photobiomodulation in restorative dentistry and endodontics. Convenience sampling method was followed in this study. The Questionnaire was 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, 267(89%) were said that they using dental Photobiomodulation therapy (lasers) in your practice. 255(85%) agreed that they have received proper training to use dental lasers. Of the 300 dentists investigated, when asked about the various applications of Photobiomodulation in restorative dentistry and endodontics procedures, following are the response of participants to direct pulp capping (26%), dentinal hypersensitivity (21%), teeth bleaching (36%), postoperative sensitivity in restorations (5%) and regenerative endodontic procedures (12%).

Conclusions: In conclusion, dental laser education is an important aspect of a dentist's training and ongoing professional development. It enables dentists to stay current with technology, offer advanced treatment options to their patients, and provide safer and more efficient dental care.

Keywords: Knowledge, Photobiomodulation therapy, Lasers, Questionnaire, Dentist, Restorative and endodontics, Saudi Arabia

Bahrain Med Bull 2023; 45 (4): 1803 - 1807

*	Assistant Professor
	Department of Pediatric Dentistry & Orthodontic Sciences
	College of Dentistry, King Khalid University, Abha, Saudi Arabia.
	E-mail: drzak786@gmail.com
**	General Dentist
	Abha, Saudi Arabia.
***	General Dentist
	Ministry of Health, General Directorate of Health Affairs
	Aseer Region, Saudi Arabia.
***	General Dentist
	Ministry of Health
	Riyadh, Saudi Arabia.
****	General Dentist
	Ministry of Health, Abha, Saudi Arabia.
****	Alwadeen Primary Health Care Center
	Ministry of Health, Aseer region, Saudi Arabia.
*****	Nursing Services Department
	Ministry of Health, Abha, Saudi Arabia
*****	Intern, College of Dentistry

King Khalid University, Abha, Saudi Arabia.