

👤 You are accessing a free view of the Web of Science

[Learn More](#)



MENU

Results for EFFECT OF VISU... >

Effect of Visual Exposure versus Obstruction upon Patient's Quantitative an...



Effect of Visual Exposure versus Obstruction upon Patient's Quantitative and Qualitative Stress Parameters Changes during Minor Oral Surgery

By Subramaniam, PK (Subramaniam, Pram Kumar) ; Al-Ahmad, BEM (Al-Ahmad, Basma Ezzat Mustafa) ; Mustaf, NS (Mustaf, Nazih Shaban) ; Izhan, NAM (Izhan, Natasha Athirah Mohd) ; Shukor, NFIA (Shukor, Nur Farah Izzati Ahmad)

[View Web of Science ResearcherID and ORCID](#) (provided by Clarivate)

Source EUROPEAN JOURNAL OF DENTISTRY
Volume: 17 Issue: 03 Page: 895-901
DOI: 10.1055/s-0042-1757212

Published JUL 2023

Indexed 2024-06-13

Document Type Article

Abstract Objectives Dental anxiety is ultimately related to the fear of pain, more evidently seen in surgical dental procedures. This study aimed at comparing the stress parameter differences between

patients undergoing minor oral surgery (MOS) with their eyes covered (closed) versus uncovered (open) at our center.

Materials and Methods Twenty-three MOS patients were draped with eyes covered, while another 23 MOS patients were draped with eyes uncovered. Stress parameters such as systolic and diastolic blood pressures (DBP), mean arterial pressure (MAP), heart rate, random blood glucose, and Spielberger State-Trait Anxiety Inventory (STAI)-6 questionnaire score were recorded accordingly in the different intervals; then statistically analyzed later.

Results Closed eyes patients had significantly lower mean DBP and MAP (73.91 +/- 6.80/88.94 +/- 6.88 mm Hg) as compared with open eyes patients intraoperatively. Though significant only in the postoperative phase, the closed eyes group had a relatively lower mean heart pulse rate than the open eyes group in all surgical intervals. Postoperatively, closed eyes patients had lower mean blood glucose level as compared with open eyes group. STAI mean score revealed a higher psychological stress for closed eyes patients versus open eyes patients.

Conclusion Closed eyes patients displayed lower quantifiable physiological stress level as compared with patients undergoing MOS draped with eyes uncovered. However, in qualitative psychological context, closed eyes draped MOS patients responded poorly as compared with opened eyes draped patients under similar surgical stress.

Keywords

Author Keywords: stress parameters; visual; minor oral surgery; draping

Keywords Plus: PATIENTS ANXIETY; RELIABILITY; VALIDITY; INTERVENTION; EXTRACTION; SCALE

Addresses

¹ Int Islamic Univ Malaysia, Fac Dent, Dept Oral Maxillofacial Surg & Oral Diag, Kuantan, Pahang, Malaysia

² Int Islamic Univ Malaysia, Dept Fundamental Dent & Med Sci, Kulliyah Dent, Kampus Kuantan, Jalan Sultan Ahmad Shah, Kuantan 25200, Pahang, Malaysia

³ O'Hara Orthodont Specialist Dent Clin, Kuantan, Pahang, Malaysia

⁴ Klin Pergigian Mentakab, Mentakab, Pahang, Malaysia

Categories/ Research Areas: Dentistry, Oral Surgery & Medicine
Classification Citation 1 Clinical & Life > 1.43 > 1.43.1186 Dental
 Topics: Sciences Anesthesiology Anxiety
 Sustainable Development Goals: 03 Good Health and Well-being

Web of Science [Dentistry, Oral Surgery & Medicine](#)
Categories

[+ See more data fields](#)

Journal information

EUROPEAN JOURNAL OF DENTISTRY

ISSN 1305-7456

eISSN 1305-7464

Current Thieme Medical and Scientific Publishers Pvt Ltd, A-12, 2nd
Publisher Floor, Sector 2, Noida, Uttar Pradesh, INDIA

Research Dentistry, Oral Surgery & Medicine
Areas

Web of Dentistry, Oral Surgery & Medicine
Science
Categories

Citation Network

In Web of Science Core Collection

0 Citations

30

Cited References

Use in Web of Science

0

Last 180 Days

1

Since 2013

How does this document's citation performance compare to peers?
Data is from InCites Benchmarking & Analytics

This record is from:

Web of Science Core Collection

- Emerging Sources Citation Index (ESCI)

Suggest a correction

If you would like to improve the quality of the data in this record, please [Suggest a correction](#)



Accelerating innovation

© 2025 Clarivate Data Correction Copyright Notice Manage cookie preferences Follow Us

Training Portal Privacy Statement Cookie Policy

Product Support Newsletter

Terms of Use

