

<b>Editorial</b>	386
<b>Oral &amp; Maxillofacial Surgery:</b> Comparison of surface roughness and elemental analysis of different mini implant systems — <i>Turker Yucesoy, Dilara Elif Seker, Ebru Arslan</i>	387
Awareness of dental implants among undergraduate medical and dental students: A survey study — <i>Khalid Mahmood Siddiqi, Muhammad Zeeshan Baig, Zarmina Ifzal</i>	394
Frequency of cardiac conditions in patients seeking dento-maxillofacial treatment — <i>Sana Wazir, Muslim Khan</i>	398
Frequency and severity of temporomandibular disorders amongst dental students of Khyber College of Dentistry — <i>Fahad Qiam, Areeba Niazi, Muslim Khan, Atta ur Rehman</i>	403
Pattern of impacted mandibular third molars in a Saudi population — <i>Saad Mohamednagib Alfergani, Khurram Latif, Yousef Musarrah Alanazi</i>	407
Frequency and factors responsible for the formation of oroantral communication during extraction of the maxillary posterior teeth — <i>Muhammad Asif Khan, Muhammad Adnan, Faisal Mansor</i>	411
Use of Gow-Gates mandibular nerve block by new dental graduates A Survey — <i>M Shairaz Sadiq, Urooj Arif, Samir R Qazi</i>	416
<b>Oral Medicine:</b> Frequency of Aphthous ulcers — A study — <i>Yousuf Ali Lakdawala, Sabeen Masood, Iqra Gulzar, Farwa Batool, Rida Arshad</i>	419
Lichen planus: A retrospective study of 217 patients — A study — <i>Shahzad Waheed Qureshi, Umair Dastgir Bhatti, Ahmad Ammar Shamsi</i>	422
<b>Orthodontics:</b> Evaluation of mean shear bond strength of orthodontic metal brackets bonded with flowable composites used with and without intermediate bonding resin: An in vitro study — <i>Muhammad Saad Shinwari, Azhar Ali Bangash, Taimoor Safder Chaudary, Abdullah Jan</i>	426
Index of complexity, outcome and need (ICON) for determining treatment need in Pakistani orthodontic practice — <i>Muhammad Azeem, Muhammad Burhan Hayat, Muhammad Imran Khan, Waheed Ul Hamid</i>	431
Pain anticipated & pain experienced during orthodontic procedures — <i>Shakeel Qutub Khan, Judith Dsouza, Babur Ashraf, Mashal Talat</i>	434
Relationship of vertical proportions and arch forms in skeletal class II in a sample of local population — <i>Muhammad Ilyas, Asmi Shaheen, Hareem Sultan, Ansar Bilal</i>	439
Skeletal features of anterior open bite: A cross sectional study — <i>Muhammad Burhan Hayat, Muhammad Azeem, Arshad Mehmood, Waheed ul Hamid</i>	444
<b>Periodontics:</b> Stress related periodontitis amongst industrial workers — <i>Yousaf Athar, Amna Sagheer, Bilal Abdul Qayum Mirza, Siti Lailatul Akram Zainuddin</i>	426
Interdental cleaning: A cross-sectional survey — <i>Farhan Butt, Marium Iqbal, Anam Jawed, Umaima Khan, Maheen Hanif, Arooj Sarwar</i>	452

(Continued on title page 4)

# PAKISTAN ORAL & DENTAL JOURNAL

Established 1981

*An International Peer Reviewed Journal*

For online edition log on [www.podj.com.pk](http://www.podj.com.pk)

## Editorial Board

### Editor

Ahmad Iqbal

### Co-editor

Amjad H Wyne

### Associate editor

Khalid Almas

### Assistant Editor (Medical)

Fareha Iqbal

## Members

### National

Shaheed Iqbal  
Muzaffar Khan  
Qiam-ud-Din  
Azhar Shaikh  
Gulzar Ali Bukhari  
Muslim Khan  
Hameedullah Jan  
Haroon Shahid Qazi

Nazia Yazdanie  
Shahid Shuja Qazi  
Saeeda Abdullah  
Nighat Bukhari  
Ulfat Bashir  
Rehan Qamar  
Ghulam Rasool

### International

Takanori Sobu, **USA**  
Hezekiah A Mosadomi, **KSA**  
Cavalcanti, A.L, **Brazil**  
Abdul Majeed, **KSA**  
Muhammad Sohail Zafar, **KSA**  
Fawad Javed, **USA**  
Fouad Salama, **KSA**  
Kutkut A, **USA**  
Achint Utrija, **USA**

Raman Bedi, **UK**  
Irfan Khan, **KSA**  
Graham J Mount, **Australia**  
Eman A Alkofide, **KSU**  
Subraya Bhat, **India**  
Steph Smith, **South Africa**  
Imran Farooq, **KSA**  
Adnan Shah, **USA**  
Danish Sani, **USA**

## Regional Bureau Chiefs

- Abdulaziz Al-Rasheed (Saudi Arabia and Middle East)
- Khalid Rasheed Chaudhry (USA and North America)
- El-Fateh El-Amin (Sudan and Africa)
- Henry Kwek (Singapore and Far East)

## Address for Correspondence

Prof Emeritus Dr Ahmad Iqbal  
Editor, Pakistan Oral & Dental Journal  
19, St 63, F-7/3, Islamabad — PAKISTAN  
Tel: 92-051-2611187/2611138  
E-mail: [driqbal7@gmail.com](mailto:driqbal7@gmail.com)  
Website: [www.podj.com.pk](http://www.podj.com.pk)

Vol 37, No 3

September 2017 (J Supplement)

Zil Hijah 1438 AH

**Subscription (annual):** Inland Rs 3000. – Institutions Rs 4000. – Overseas US \$ 350

Recognised by PMDC since 1982, by Pakistan Science Foundation since 1983, by WHO (EMR) since 1990, and by WAMA (World Association of Medical Journal Editors) since 2011, Indexed in J-Gate (45000 + Journals) & in Asia Net.

## EDITORIAL

In countries without standard treatment guidelines, antibiotics are often over prescribed by health workers and overused by the public. Where antibiotics can be bought without a prescription, the emergence and spread of resistance is made worse.

Policy makers can play their role by introducing a robust national action plan to tackle antibiotic resistance; improving surveillance of antibiotic resistant infections; strengthening policies and implementation of infection prevention and control measures; regulating appropriate use and disposal of quality medicines, and making information available on the impact of antibiotic resistance.

In dentistry antibiotics are also misused and overused. There is no need to prescribe antibiotics for every minor surgery. Preventive measures should be taken. Without urgent action, we may be heading for a post-antibiotic era, in which common infections and minor injuries can once again kill. Antibiotics are not always the answer.

AHMAD IQBAL

PROFESSOR EMERITUS KHYBER MEDICAL UNIVERSITY

Dr Ahmad Iqbal

Editor

Pakistan Oral & Dental Journal

19, Street 63, F-7/3

Islamabad – Pakistan

Tel: 92-051-2611138 / 2611187

E-mail: driqbal7@gmail.com

Website: www.podj.com.pk

## INFORMATION FOR AUTHORS

**Pakistan Oral & Dental Journal** is a peer-review journal published quarterly a year. It is bringing out 2 editions. One, usual print edition which is in your hand, and the online edition: [www.podj.com.pk](http://www.podj.com.pk). The journal accepts original research reports, reviews, case reports, short scientific communications, letters to the editor and commentaries.

**Manuscript submission:** Manuscripts, should be prepared following uniform requirements for manuscripts submitted to biomedical journals as approved by the International Committee of Medical Journal Editors ([www.icmje.org](http://www.icmje.org)) (two hard copies and a soft copy) must be double-spaced and in English. Both British and American spellings are acceptable. The manuscript must be accompanied by a cover letter stating that the submitted work has not been published before and is not being considered for publication elsewhere and that if approved after review it will not be withdrawn (authors will lose security deposit). The cover letter should also state that the particulars of authors namely qualifications, designations, addresses are accurate. This must also include the full postal address, telephone, fax, and e-mail of the first author. Acknowledgement of receipt is made by e-mail. Authors from foreign countries may submit their manuscripts electronically to the editor's email. In this case, the manuscript must be sent as a Microsoft Word attachment, with tables and references included as part of the Word text. Graphics/photographs have to be attached as jpg files.

**Publication Charges:** An article submitted for publication in this journal undergoes technical review, peer review, editorial review and then if accepted is sent for pre-publication proof checking and for printing and electronic publishing. Minimum publication charges for a manuscript are Rs 8500 upto 4 printed pages in the journal (in case of overseas US \$165). Rs1000/- extra will be payable for each additional page (in case of overseas US \$20). Charges for photographs, films, and illustrations are additional. Article should accompany the pay order for the said amount drawn in favor of "Pakistan oral and Dental Journal". If the article is not approved, Rs 3000 will be deducted as service charges and balance amount will be refunded. For clarification Email: [driqbal7@gmail.com](mailto:driqbal7@gmail.com)

**Plagiarism:** Manuscripts are screened for plagiarism using special software and those found guilty or involved in publication misconduct are liable to be black listed, and their security deposit may be forfeited.

**Disclosure:** Regarding source of funding and conflict of interest if any besides approval of the study from respective ethics committee/institution should be taken care of.

**Conflict of Interest:** Conflict of interest refers to a situation that has the potential to undermine the impartiality of an author because of the possibility of a clash between the author's self-interest and professional interest or public interest. All authors are required to disclose any financial and personal relationships with other people or organizations that could inappropriately influence (bias) their work. Examples of potential conflicts of interest include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications, and grants/funding. Acknowledging conflict of interest means that the reviewers and readers are made aware of the competing interests.

**Manuscript preparation:** Research articles are normally divided into following sections: Title page, Abstract, Introduction, Methodology, Results, Discussion, Acknowledgement (if any) and References. The editor reserves the right to edit all accepted manuscripts for clarity, conciseness and scientific style.

**Methodology:** Describe precisely how the study was carried out. Provide information about the sample of subjects, patients, materials or whatever was being studied, design of study and how it was executed. Include the method(s) of analysis of data that were used, and where relevant, mention the reliability of the methods of measurement.

**Results:** Describe data relevant to the objective(s)/hypothesis of the study in the form of text, tables and/or figures. The text summarizes the most important data presented in the tables/figures. Do not repeat all the contents of the tables/figures. Also describe the results of analysis of information (statistical tests).

**Discussion:** Illustrate the main findings of the study and how the findings compare with present and past knowledge. Describe possible reasons for any disagreement, and the author(s) interpretation of the results of the study. It may also include discussion of the materials and methods employed. Avoid repetition of the results. Mention implications of your findings, and any limitations of the study. Include any recommendations for future research based on your findings.

**Conclusion(s):** Number statement of your main findings. Conclusion(s) should relate directly to the aims and objectives of the study.

**References:** References should be numbered consecutively in the order in which they appear in the text. Identify references in texts, tables, and legends by Arabic numerals in superscript. The journal follows the Vancouver (now known as ICMJE) style of referencing. Avoid reference to "unpublished observations", "personal communications" and papers not yet accepted for publication.

**Tables:** Should be numbered consecutively in Arabic numerals (e.g., Table 1, Table 2, etc.), with each table typed on a separate page and with due attention to the proportions of the printed page. Do not document same data in tables and graphics.

**Illustrations:** All graphs, drawings, and photographs are labeled as figures and should be sequentially numbered in Arabic numerals (e.g., Fig 1, Fig 2, etc.). Each figure must be on a separate page and each must have a caption. In case of photographs, write the figure number and caption at the back of each photograph with top side indicated by an arrow sign. All captions, with necessary references should also be typed together on a separate page.

**Correspondence:** All correspondence must be addressed to Professor Ahmad Iqbal, Editor, Pakistan Oral & Dental Journal, 19, Street 63, F-7/3, Islamabad, Pakistan. E-mail: [driqbal7@gmail.com](mailto:driqbal7@gmail.com) website: [www.podj.com.pk](http://www.podj.com.pk)

---

<b>Community Dentistry:</b> A survey on oral health behavior and attitude among dental, physiotherapy and pharmacy students — <i>Benish Mehmood, Faisal Jahangir, Muhammad Kaleem, Mehreen Riaz Faisal, Faiza Siddiqa</i>	455
Tooth wear and its related factors: Findings from a hospital based study — <i>Hina Toufique, Nighat Nisar, Sohail Saadat</i>	459
Assessing oral health conditions of preschool children belonging to high socioeconomic groups — <i>Mahreen Shahzad, Yousuf Moosa, Hiba Khan, M Shoaib Khan, Mehreen Iqbal, Manahil Khalid</i>	465
Awareness of mothers about number of primary teeth and associated eruption disorders in hail, Kingdom of Saudi Arabia — <i>Mohammad Essa Alhumaid, Hanan Mohammad Alfahhad, Saqib Naeem</i>	468
Assessing sero-protective levels of anti-HBS titer in pre-vaccinated dental students and dental professionals at Bahria University Medical & Dental College (BUMDC), Karachi — <i>Kulsoom Fatima Rizvi, Mamoora Arslaan, Hira Raza, Anum Hira Saira Hamid, Affaf Fatima</i>	472
<b>Restorative Dentistry:</b> The barriers which prevent female dentists from pursuing their career in Pakistani culture — <i>Shaila Tahir, Alia Bashir, Adeela Rafique, Junaid Sarfraz Khan</i>	477
Comparison of removal potency of different intracanal medicaments — <i>Muhammad Adeel Ahmed, Zainab Sharif, Almass Aafreen</i>	483
Effects of different bleaching agents on microhardness of composite resins — <i>Hasham Aleem, Faiza Amin, Faisal Ahmed, Ahmed Tariq</i>	488
<b>Prosthodontics:</b> Evaluation of pterygoid muscles in patients with temporomandibular disorders — <i>Mubashir Sharif, Ayesha Aslam, Abdul Rehman, Syed Hammad Hassan</i>	492
Influence of demographic variables on pre-treatment expectations of prosthodontic patients at a private tertiary care dental facility in Islamabad — <i>Salman Ahmad, Atif Jawad, Mohammad Umar Shah</i>	496
House surgeons perceptions regarding the effectiveness of preclinical fixed prosthodontics training in BDS course — <i>Shameen Malik, Ramsha Mazhar, Muhammad Waqar Hussain, Muhammad Aamir Ghafoor Chaudhary</i>	501
Assessment of patient satisfaction and masticatory efficiency with balanced occlusion compared to canine guided occlusion in complete denture wearers — <i>Muhammad Afzal, Muhammad Irfan Majeed, Bilal Abdul Qayum Mirza</i>	504
<b>Dental Materials:</b> Possible errors in acrylic denture fabrication leading to teeth-denture base interface failure — <i>Hashmat Gul, Ayesha Aslam, Maleeha Nayyer, Muhammad Kaleem</i>	510
<b>Nanotechnology:</b> Nanotechnology application in dentistry: a survey at Dow University of Health Sciences — <i>Sarah Ali, Faiza Amin, Sofia Ali, Mujtaba Mithani</i>	516