

Volume 57, Issue 4, December 2024

p-ISSN: 1978-3728  
e-ISSN: 2442-9740

# Dental Journal

Published quarterly per year

*Majalah Kedokteran Gigi*



Image purchase from: AdobeStock 220429142  
Order number: AE02420400073CID

**Accuracy of intraoral scanners based on jaw curve and inter-implant distance • A novel approach for posterior bite collapse in an adult with crossbite anterior using a 3D-printed bite riser • Evaluation of foot analysis in the presence of dental malocclusion: A systematic review**

Accredited No. 158/E/KPT/2021

# Dental Journal

Majalah Kedokteran Gigi

## EDITORIAL TEAM OF DENTAL JOURNAL (MAJALAH KEDOKTERAN GIGI)

SK: 1158/UN3.FKG/HK.04/2024

February 2, 2024

### Patron:

Dean of Faculty of Dental Medicine, Universitas Airlangga

### Advisors:

Vice Dean I, Vice Dean II, Vice Dean III of Faculty of Dental Medicine, Universitas Airlangga

### Editor in Chief:

**Alexander Patera Nugraha**

Department of Orthodontics, Faculty of Dental Medicine, Universitas Airlangga, Indonesia [Scopus ID: 57194112535]

### Editorial Boards

**Roeland Jozef Gentil De Moor**, Department of Restorative dentistry and Endodontology, Dental School, Ghent University, Belgium [Scopus ID: 7005928380]

**Cortino Sukotjo**, Department of Restorative Dentistry, University of Illinois at Chicago College of Dentistry, United States [Scopus ID: 6508194317]

**Guang Hong**, Liaison Center for Innovative Dentistry, Graduate School of Dentistry, Tohoku University, Japan [Scopus ID: 7203031334]

**Kenji Yoshida**, Department of Oral and Maxillofacial Surgery, School of Dentistry, Aichi Gakuin University, Japan [Scopus ID: 57080640700]

**Miguel Rodrigues Martins**, Co-Worker Aachen Dental Laser Center, RWTH Aachen University, Germany [Scopus ID: 55993479000]

**Sajee Sattayut**, Department of Oral Surgery, Faculty of Dentistry, Khon Kaen University, Thailand [Scopus ID: 55431381300]

**Samir Nammour**, Department of Dental Science, Faculty of Medicine, University of Liege, Belgium [Scopus ID: 6602922393]

**Reza Fekrazad**, Laser Reseach Center in Medical Science, Dental Faculty, AJA University of Medical Science, Iran [Scopus ID: 22952665700]

**Hong Sai Loh**, Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, National University of Singapore, Singapore [Scopus ID: 7202491277]

**Hamid Nurrohman**, Missouri School of Dentistry & Oral Health, A.T. Still University, United States [Scopus ID: 52564067000]

**Harry Huiz Peeters**, Laser Research Center, Bandung, Indonesia [Scopus ID: 51864447300]

**Rahmi Amtha**, Department of Oral Medicine, Faculty of Dentistry, Universitas Trisakti, Indonesia [Scopus ID: 26031894400]

**Elza Ibrahim Auerkari**, Department of Oral Biology, Faculty of Dentistry, Universitas Indonesia, Indonesia [Scopus ID: 10139113000]

**R. Darmawan Setijanto**, Department of Dental Public Health, Faculty of Dental Medicine, Universitas Airlangga, Indonesia [Scopus ID: 55212583700]

**Anita Yuliati**, Department of Dental Material Sciences and Technology, Faculty of Dental Medicine, Universitas Airlangga, Indonesia [Scopus ID: 43462222100]

**Udijanto Tedjosongko**, Department of Pediatric Dentistry, Faculty of Dental Medicine, Universitas Airlangga [Scopus ID: 6508026751]

### Associate Editors

**Ketut Suardita**, Department of Conservative Dentistry, Faculty of Dentistry, IK Bhakti Wiyata, Indonesia [Scopus ID: 6506788956]

**Tansza Permata Setiana Putri**, Department of Dental Biomaterials, Faculty of Dentistry, Universitas Trisakti, Jakarta, Indonesia [Scopus ID: 57197847833]

**Adya Pramusita**, Department of Orthodontics, Faculty of Dental Medicine, Universitas Airlangga, Surabaya, Indonesia [Scopus ID: 57204527351]

**Nastiti Faradilla Ramadhani**, Department of Oral and Maxillofacial Radiology, Faculty of Dental Medicine, Universitas Airlangga, Indonesia [Scopus ID: 57191881659]

**Beta Novia Rizqy**, Department of Forensic Odontology, Faculty of Dental Medicine, Universitas Airlangga, Indonesia [Scopus ID: 57214805206]

**I Komang Evan Wijaksana**, Department of Periodontics, Faculty of Dental Medicine, Universitas Airlangga, Surabaya, Indonesia [Scopus ID: 57205063686]

### Managing Editors

**Muhammad Dimas Aditya Ari**, Department of Prosthodontics, Faculty of Dental Medicine, Universitas Airlangga, Surabaya, Indonesia [Scopus ID: 57200578006]

**Astari Puteri**, Department of Oral and Maxillofacial Pathology, Faculty of Dental Medicine, Universitas Airlangga, Indonesia [Scopus ID: 57200385443]

**Beshlina Fitri Widayanti Roosyanto Prakoeswa**, Department of Forensic Odontology, Faculty of Dental Medicine, Universitas Airlangga, Indonesia [Scopus ID: 57467259800]

**Saka Winias**, Department of Oral Medicine, Faculty of Dental Medicine, Universitas Airlangga, Indonesia [Scopus ID: 57211330310]

**Aulia Ramadhani**, Department of Dental Public Health, Faculty of Dental Medicine, Universitas Airlangga, Indonesia [Scopus ID: 57205630113]

### Editorial Assistant

**Novi Dian Prastiwi**, Faculty of Dental Medicine, Universitas Airlangga;

**Abdullah Mas'udy**,

Faculty of Dental Medicine, Universitas Airlangga.

### Editorial Address:

Faculty of Dental Medicine, Universitas Airlangga

Jl. Mayjen Prof. Dr. Moestopo No. 47 Surabaya 60132, INDONESIA

Phone. +62 31 5039478, 5030255. Fax. +62 31 5039478, 5026288

Email: dental\_journal@fkg.unair.ac.id; Website: <https://e-journal.unair.ac.id/MKG/index>

Accredited No. 158/E/KPT/2021

Cover photo purchased from: <https://stock.adobe.com> Order number: AE02420400073CID

# Dental Journal

Majalah Kedokteran Gigi

## CONTENTS

Original articles	Page
1. Accuracy of intraoral scanners based on jaw curve and inter-implant distance <b>Hasan Khiraldeen Mohialdeen, Mohammed A. Abdulla, Ammar Kh. Al-Noori, Ashraf Measar Mohamad</b> .....	241–247
2. Casein phosphopeptide-amorphous calcium phosphate varnish versus dentin desensitizer in the treatment of non-cariou dentin hypersensitivity <b>Pallavi Bhat, Apoorva Shetty, Charisma Thimmaiah, Anita Precilla Dsouza, Sonia Preshma D'souza, Poornima Bhat</b> .....	248–253
3. The effect of epigallocatechin gallate on <i>Streptococcus Gordonii</i> biofilm formation <b>Dimas Prasetyanto Wicaksono, Ardianti Maartrina Dewi, Ajeng Larisa Asmono Siti, Prawati Nuraini, Sili Han</b> .....	254–258
4. Influence of implant number on the retention and support of mandibular overdentures <b>Ahmed A. Al-Bdrany, Mohammed M. Sadoon</b> .....	259–266
5. Development of dental clinic cooperativity predictor instrument for children with autism spectrum disorder <b>Alfini Octavia, Tania Saskianti, Tuti Ningseh Mohd Dom, Iwan Dewanto, Syaina Azzahra ..</b>	267–272
6. The effect of adding ZrO <sub>2</sub> nanoparticles on the transverse strength and hardness of microwave-cured acrylic and heat-cured acrylic denture base materials <b>Marwah M. Shehab, Radhwan Himmadi Hasan, Rana Rabee Aziz</b> .....	273–279
7. Oral health literacy, knowledge, attitude, and oral health practices among college students at Jenderal Soedirman University <b>Fitri Diah Oktadewi, Mahindra Awwaludin Romdlon, Anindita Laksitasari, Riski Amalia Hidayah</b> .....	280–285
8. Validation of the Jamaican version of the Oral Health Impact Profile (OHIP-14) in adults: JAM-OHIP study <b>Michelle Antonette Brown, Biney Thomas, Juliana Sena de Souza, Rafaela Soares Rech, Arvind Babu Rajendra Santosh, Alexandre Baumgarten, Susanna Campbell-Blagrove</b> .....	286–291
<b>Case reports</b>	
9. A novel approach for posterior bite collapse in an adult with crossbite anterior using a 3D-printed bite riser <b>Ananto Ali Alhasyimi, Putu Indra, Niswati Fathmah Rosyida, Yanuarti Retnaningrum, R. Darmawan Setijanto, Francisco José Vázquez-Santos</b> .....	292–297
10. Unusual odontogenic keratocyst with impacted maxillary central incisor: A diagnosis challenge <b>Shinta Purnamasari, Luc A. M. Marks, Paramita Devi Oktaviani, Leviena Merlynike Leo, Indra Mulyawan, Retno Pudji Rahayu, Tania Saskianti</b> .....	298–304
11. Long-standing pleomorphic adenoma in hard palate: A rare case report <b>Olivia Avriyanti Hanafiah, Gostry Aldica Dohude, Afifah Ayuni HG, Janesia Tanandika, Dinda Andaru Wirsa</b> .....	305–309
12. Pediatric facial trauma management: Emergency case in a toddler <b>Swarantika Aulia Rarasati, Melita Sylvyana, Dian Maifara Putri</b> .....	310–316
<b>Review articles</b>	
13. Evaluation of foot analysis in the presence of dental malocclusion: A systematic review <b>Ervina Sofyanti, Ananto Ali Alhasyimi, Cendrawasih Andusyana Farmasyanti, Maria Purbiati, Endah Mardiaty, Ida Bagus Narmada, Haryono Utomo, Prana Ugiana Gio, Anand Marya</b> .....	317–323