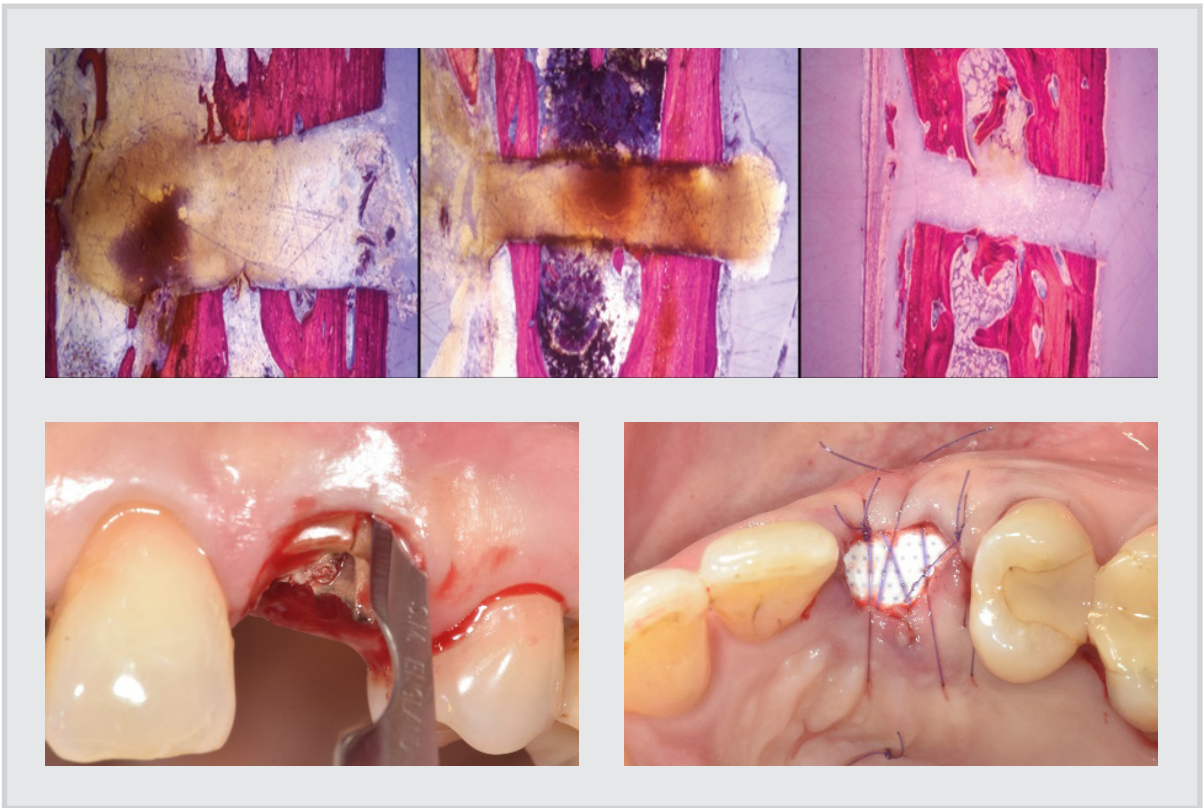


2024



JLDA

*Journal of the*  
Lebanese Dental Association



# The Journal of the Lebanese Dental Association

## Official publication of the Lebanese Dental Association

*Former titles: Lebanese Dental Magazine / Lebanese Dental Journal / Revue Dentaire Libanaise*

The Journal of the Lebanese Dental Association -**JLDA**- is an **open access multidisciplinary journal**, published **biannually (September and March)** by the Lebanese Dental Association. **JLDA** has an ultimate aim of introducing and improving research in contemporary aspects of dental and craniofacial basic and clinical science. The **JLDA** publishes manuscripts on all aspects of dental medicine and surgery, including surgical dentistry, restorative and prosthetic dentistry, geriatric and pediatric dentistry, periodontology, implant dentistry, endodontics, esthetic and cosmetic dentistry, adhesive dentistry, orthodontics and dentofacial orthopedics, oral biology, oral and maxillofacial surgery, oral diagnosis/pathology/medicine, dental research, oral and maxillofacial radiology and imaging, public health and community dentistry, special care/needs dentistry, forensic dentistry, social dentistry, neuromuscular dentistry, nanodentistry, regenerative dentistry, investigative dentistry, and dental hygiene.

Dentistry related fields are broadly defined, as well, and may include, cranio-facial anatomy and physiology, facial growth/embryology, dental and orofacial genetics, orofacial anti-aging and esthetic medicine, dental and maxillofacial tissues engineering, medically compromised patients treated in dental practice, temporomandibular disorders and orofacial pains, sleep medicine in relation to dental practice, clinical trials of drugs relevant to dental practice, dental/oral histopathology, immunopathology and microbiology, dental anesthesiology, dental ergonomics, computer-assisted dentistry, aeronautic and veterinary dentistry.

The **JLDA** is a **peer-reviewed scientific publication** on current and developing topics in dentistry and oral and maxillofacial medicine. Submitted manuscripts are reviewed by independent clinicians and scientists who are fully conversant with current dental literature, and who maintain the highest standards of competence, objectivity, and integrity.

The **JLDA** welcomes original research papers, review papers, mini-reviews, short communications, case reports, case series, expert opinions, technical notes, clinical comments, pictorial essays, scientific commentaries, dental tips and tools, and conference proceedings. Redundant and duplicate publications will not be considered for review. Statements and opinions in the papers and communications herein are those of the author(s) and not necessarily of the editors and the editorial advisory board. Editors disclaim any responsibility or liability for such material and do not guarantee, warrant, or endorse any product advertised in their publication, nor do they guarantee any claim made by the manufacturer of such product or service.

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**Address** Lebanese Dental Association, Victoria Tower, 2nd floor,  
Corniche du Fleuve, Beirut, Lebanon  
Tel/Fax: 00961-1-611222 / 00961-1-611555

**E-mail** am43@aub.edu.lb

**Website** www.lda.org.lb

**Layout / Printing** Matni Easy Printing  
Beirut, Lebanon  
+961 3 302136  
matnieasyprint@gmail.com



# Journal of the Lebanese Dental Association

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## **Editor-in-Chief**

### **Anthony T. Macari, DDS, MS**

Associate Professor - Orthodontics  
Department of Dentofacial Medicine  
Faculty of Medicine - American University of Beirut - Lebanon  
am43@aub.edu.lb

## **Associate Editors**

### **Nada Chedid, DDS, MS, PhD**

Professor  
Department of Pediatric Dentistry  
Faculty of Dental Medicine  
Saint Joseph University, Beirut - Lebanon  
nada.chedid@usj.edu.lb

### **Joseph Sabbagh, DDS, MS, PhD**

Professor  
Department of Restorative Dentistry and Endodontics  
School of Dentistry - Lebanese University, Beirut - Lebanon  
josephsabbagh@ul.edu.lb

### **Roula Abiad, DDS, MS, PhD**

Professor  
Head of the Restorative Sciences Department  
Faculty of Dentistry - Beirut Arab University,  
Beirut- Lebanon  
r.abiad@bau.edu.lb

### **Kinan G. Zeno, DDS, MS**

Assistant Professor  
Department of Dentofacial Medicine  
Faculty of Medicine - American University of Beirut - Lebanon  
kz12@aub.edu.lb

Dear Colleagues,

With profound pride and a deep sense of responsibility, I undertake the role of Editor-in-Chief of the Journal of the Lebanese Dental Association (JLDA). I am honored by this appointment and wish to express my sincere gratitude to the outgoing editorial board for their steadfast dedication and exemplary efforts, which have upheld the journal's esteemed legacy over the years. The Journal of the Lebanese Dental Association is instrumental in advancing scientific knowledge not only within Lebanon but throughout the broader region. As dentistry continues to evolve, JLDA will remain a leading light in knowledge dissemination, fostering innovation, and promoting excellence in dental research and practice.

Our commitment to excellence is demonstrated through our collaboration with clinicians and academic institutions. We aim to bridge the gap between theory and practice by attracting high-quality research that highlights advancements in dentistry, fostering a collaborative environment to enhance the dental community in Lebanon and beyond. A key objective is to achieve scholarly indexation, fundamental for increasing the visibility and recognition of our authors' contributions. With focused effort and commitment, we are confident that this milestone will not only benefit the journal but also elevate the global standing of the Lebanese dental community.

In this special issue marking our re-launch, I am delighted to present a diverse selection of articles spanning various categories of scientific inquiry. This issue features groundbreaking research that pushes the frontiers of dental science, insightful case reports, innovative techniques that enhance clinical practice, and comprehensive reviews that integrate existing knowledge. It underscores the significant and varied impact that dental professionals can have on healthcare and science.

The Journal of the Lebanese Dental Association is set for a remarkable journey ahead, promising substantial contributions to the advancement of science, education, and clinical practice. I encourage all dentists, both within Lebanon and internationally, to actively engage in the development of our journal. Your contributions are central in shaping the future of dentistry and advancing oral healthcare globally. Together, we can elevate our profession to new heights.




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**Anthony T. Macari, DDS, MS**

Editor-in-Chief

Journal of the Lebanese Dental Association

Dear Colleagues,

Since we assumed our role at the Lebanese Dental Association, we committed to give priority to scientific matters. Despite all the challenges the country went through, we managed to relaunch the BIDM scientific congress after years of suspension due to unforeseen circumstances. The conferences organized over the past two years have been highly successful, with distinguished Arab and international participation. These events have facilitated valuable scientific exchanges between Lebanese dentists and their Arab and foreign peers.

In addition, we have revitalized our continuing education programs, which have attracted a high level of interest and participation. Community health awareness programs were also initiated in collaboration with the Ministries of Public Health and Education.

Today, we are proud to relaunch the LDA scientific journal with a fresh look, available in both electronic and print formats. This launch emphasizes a renewed focus on promoting scientific research and encouraging contributions from dental faculties, as well as opening participation to colleagues in Lebanon and abroad. The issue we are unveiling today is a special edition, coinciding with the 75th anniversary of the founding of the LDA, marking another milestone in our scientific journey.

One of the LDA's core responsibilities is maintaining the scientific integrity of our profession and staying up to date with all advancements in dental science and technology, which creates new opportunities. It is also our duty to define from an ethical perspective on what is scientifically sound and proven versus what is merely commercial and harm the profession, or the patient.

The journal offers all colleagues the opportunity to enhance their knowledge and skills, enabling them to provide the best possible care to their patients. We have worked with dedication and open-mindedness, guided by our strong belief in our union and its scientific, social, and national role.

The special issue we are launching today is a testament to our collective will and determination. It reflects our commitment to our country and its distinguished scientific legacy, which has always aimed to serve as a beacon of civilization and culture. The success of this issue is the result of the tireless efforts and scientific excellence of Editor-in-Chief Professor Anthony Macari and the assistant editorial board, who have produced a truly outstanding edition. I thank them all.




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**Ronald Younes, DDS, MS, PhD**  
 President  
 Lebanese Dental Association

## COVER

**On the cover:** In this issue, Stephen P. Niemczyk, Director of Endodontic Microsurgery, Albert Einstein Medical Center, Philadelphia-USA discusses the integration of piezoelectric surgery and precision endodontic surgical stents (PRESS) into the Bony Lid technique for mandibular micro-endodontic surgery. This technique improves access and visualization during mandibular apical surgery, while preserving bone volume to promote faster healing and enhanced bone regeneration. The top row of figures shows histological sections of rabbit calvarium bone. The Lindemann bur cut shows debris, microthrombi, and macrovibration effects, while the microsaw cut reveals increased debris and microthrombi. In contrast, the piezo tip cut is clean, with no debris, microthrombi, or microvibration effects. Also in this issue, Pierre Cherfane, Periodontist - Paris - France, and co-author propose a simple method for alveolar preservation to regenerate alveoli with defects in the vestibular or lingual bony walls. It involves filling the site with a bone substitute and placing a non-resorbable membrane on the same day as extraction, aiming to achieve sufficient bone volume for implant placement without the need for a GBR step. The bottom row of figures shows syndesmotomy with a 15C blade, followed by non-traumatic avulsion, allograft filling, membrane insertion on the palatal side, and suturing to the palatal mucosa.

- 4 **Editorial**  
*Anthony T. Macari*
- 5 **President's message**  
*Ronald Younes*
- 7 SPECIAL ARTICLE  
**Piezosurgery and Precision Endodontic Surgical Stent (PRESS): incorporation into the bony lid technique for mandibular MicroEndoSurgery**  
*Stephen P. Niemczyk, Philadelphia, USA*
- 25 ORIGINAL ARTICLE  
**Reasons for primary teeth extraction**  
*Nada Raymond Chedid and Rana Awwad, Beirut, Lebanon*
- 31 REVIEW ARTICLE  
**An overview of the current status and applications of 3D printing in restorative dentistry.**  
*Ziad Salameh, Karim Corbani, Khaled Ahmed and Elie Daou, Beirut, Lebanon*
- 38 CASE REPORT  
**Immediate guided bone regeneration of an extraction alveolus presenting a significant bone loss with allograft and exposed d-PTFE membrane: case reports.**  
*Pierre Cherfane, Alexis Marin, Paris, France*
- 48 REVIEW ARTICLE  
**Effectiveness of caries detector dyes in the accurate excavation of carious dentin.**  
*Rima El-Ahmar, Simon Artine, Sara Salloum and Mouna Zeitoun, Beirut, Lebanon*
- 54 **JLDA Guide for contributors and authors**