

One Region One Vision

Advancing dentistry together



30th BaSS Congress
Thessaloniki 7–9 May 2026
Met Hotel

Balkan
Stomatological
Society

BOOK OF ABSTRACTS

Secretariat



Tel. +357 99812240, Tel. +30 2310226250
info@mk-premium.com | www.mk-premium.com



Under the aegis of the
Hellenic Dental Association

Hellenic Republic
Ministry of the Interior
(Macedonia and Thrace Division)



Message from the President of the Balkan Stomatological Society (BaSS)

Dear colleagues,

It is great news for the members of Balkan Stomatological Society that we reached our 30th anniversary, so let's celebrate on 7-10 May, in the Thessaloniki meeting.

It is a great honour to address this distinguished gathering under the auspices of the Balkan Stomatological Society. The Balkans, a region where history, culture, and diversity intertwine, has always been a bridge connecting nations, ideas, and people. Dentistry, as both a science and a healing art, offers us yet another bridge one built not of politics or borders, but of knowledge, compassion, and collaboration.

In recent years, the exchange of expertise and research among Balkan universities has enriched our understanding of digital dentistry, biomaterials, and preventive care. These collaborations remind us that innovation grows not in isolation, but through shared experience and collective wisdom.

The challenges we face ranging from education disparities to public oral health are not unique to one nation; they are shared responsibilities that call for shared solutions.

Dear colleagues, dentistry unites us through the universal language of care. Let us honour that unity by building a future where the Balkan dental community continues to inspire, innovate, and support one another. Together, we can ensure that our shared legacy will be one of science, friendship, and humanity.

Please join us in the celebration photograph for the 30th anniversary of BASS; we are waiting for you.

Prof. Dr. Ender Kazazoglu
President of BASS

Message from the President of the 30th BaSS Congress

Dear Colleagues,

It is an honor and a great pleasure to invite you to the 30th anniversary Congress of the Balkan Stomatological Society (BaSS), which will take place on May 7–9, 2026, at the Met Hotel in Thessaloniki.

Under the inspiring motto “One Region—One Vision: Advancing Dentistry Together,” our Congress aspires to unite colleagues from across the Balkans and beyond, foster collaboration, share scientific knowledge, and shape the future of Dentistry in our region.

Dentistry today is experiencing rapid evolution through innovative technologies, advanced materials, and new treatment approaches. Yet, at its core, it remains a science centered on humans, closely linked with overall health and quality of life. The BaSS Congress provides a unique opportunity to reflect on our achievements, exchange experiences, and envision together the next steps in our professional journey.

The aims of this meeting are multiple: educational for our young colleagues, scientific for researchers and clinicians, and social for all, strengthening bonds of friendship and cultural connection across our region.

We are committed to delivering a high-level Scientific Congress that will expand our horizons and reinforce the unity and cooperation that always defined the Balkan Stomatological Society.

We look forward to welcoming you all to the historic and friendly city of Thessaloniki and advancing Dentistry together!

Warm regards,

Professor Athanasios K. Pouloupoulos
President of the 30th BaSS Congress

NUMBER	TITLE
PP.223	POOR ORAL HYGIENE PATIENT'S REHABILITATION USING TORONTO BRIDGE: A CASE REPORT
PP.224	DIGITAL WORKFLOWS IN OBTURATOR PROSTHESIS FABRICATION: FROM DATA ACQUISITION TO PROSTHESIS MANUFACTURING
PP.225	CONSERVATIVE PROSTHETIC MANAGEMENT OF CONGENITAL CLEFT PALATE USING A MODIFIED COMPLETE DENTURE DESIGN: A CASE REPORT
PP.226	PROSTHETIC REHABILITATION OF AN IMPLANT WITH COMPROMISED INTERNAL HEX CONFIGURATION USING A CUSTOM CAST POST-CORE: A CASE REPORT
PP.227	INTEGRATION OF PREDICTIVE ARTIFICIAL INTELLIGENCE MODELS IN PROSTHODONTICS: ENHANCING DIAGNOSTIC ACCURACY AND CLINICAL PROGNOSIS
PP.228	AWARENESS AND MANAGEMENT OF RESPIRATORY ARREST IN DENTAL CLINICS: A PILOT STUDY
PP.229	BORDER MOLDING WITH THERMOPLASTIC BEADS IN SEVERELY RESORBED MANDIBULAR RIDGES
PP.230	FULL-MOUTH OCCLUSAL REHABILITATION AND VERTICAL DIMENSION RECONSTRUCTION USING MULTILAYER ZIRCONIA RESTORATIONS
PP.231	ADHESION PROTOCOLS FOR ZIRCONIA, LITHIUM DISILICATE, AND LEUCITE CERAMICS IN PROSTHODONTICS: LITERATURE REVIEW
PP.232	PROSTHETIC COMPLICATIONS OF MONOLITHIC AND MICRO-VENEERED ZIRCONIA RESTORATIONS ON TITANIUM BASE ABUTMENTS
PP.233	MANAGEMENT OF A NON-RETRIEVABLE PROSTHETIC SCREW IN A CEMENT-RETAINED IMPLANT RESTORATION: A CLINICAL CASE REPORT
PP.234	PROSTHETIC REHABILITATION OF AN ARAMANY CLASS I MAXILLARY DEFECT FOLLOWING HEMIMAXILLECTOMY FOR FIBROUS DYSPLASIA WITH A DEFINITIVE OBTURATOR: A CASE REPORT
PP.235	ANALOG AND DIGITAL METHODS FOR FABRICATING MULTI-PIECE POST-AND-CORE RESTORATIONS
PP.236	MAXILLARY FULL-ARCH IMPLANT-SUPPORTED ZIRCONIA RESTORATION WITH A TITANIUM BAR
PP.237	POTENTIAL APPLICATIONS OF PLATELET-RICH FIBRIN (PRF) IN PROSTHODONTICS: A SYSTEMATIC REVIEW
PP.238	EVALUATION OF SURFACE TOPOGRAPHY OF DIFFERENT DENTURE BASE MATERIALS AFTER LABORATORY AND CHAIRSIDE POLISHING: AN IN VITRO STUDY.
PP.239	ACTION OF CHLORHEXIDINE MOUTHWASH ON GINGIVAL HEALTH IN ORTHODONTIC PATIENTS WITH FIXED APPLIANCES
PP.240	EVALUATION OF ORAL HYGIENE IN CHILDREN AND ADOLESCENTS WITH ORTHODONTIC APPLIANCES: A SURVEY-BASED STUDY
PP.241	PRIMARY SCHOOL STAFF KNOWLEDGE OF DENTAL INJURIES
PP.242	GENDER DIFFERENCES IN THE PREVALENCE OF DENTAL ANOMALIES IN CHILDREN
PP.243	MANAGEMENT STRATEGIES OF HYPERSENSITIVITY IN MIH TEETH
PP.244	ASSESSMENT OF DENTAL STUDENTS' KNOWLEDGE LEVEL REGARDING THE RELATIONSHIP BETWEEN NUTRITION AND ORAL HEALTH
PP.245	BEYOND TRADITIONAL FLUORIDE: THE EXPANDING WORLD OF MODERN TOOTHPASTE TECHNOLOGIES
PP.246	THE SYNERGISTIC EFFICACY OF SELF-ASSEMBLING PEPTIDES (P11-4) AND NANO-HYDROXY APATITE IN THE MANAGEMENT OF EARLY CARIOUS LESIONS
PP.247	ICON RESIN INFILTRATION FOR THE MANAGEMENT OF WHITE SPOT LESIONS IN ANTERIOR TEETH: A CASE SERIES
PP.248	BREASTFEEDING: FRIEND OR ENEMY OF CARIES?
PP.249	TRANSIENT LINGUAL PAPILLITIS IN A YOUNG FEMALE: A BENIGN AND SELF-LIMITING ORAL LESION
PP.250	VOLUMETRIC PROGRESSION OF UNTREATED ODONTOGENIC SINUSITIS: A LONGITUDINAL CBCT SEGMENTATION STUDY
PP.251	RARE PRESENTATION OF AMELOBLASTIC FIBROMA IN THE POSTERIOR MANDIBLE: A CASE REPORT
PP.252	RADIATION-RELATED CARIES AFTER HEAD AND NECK RADIOTHERAPY: INCIDENCE, DOSE-RESPONSE FACTORS, AND PREVENTIVE STRATEGIES

INTEGRATION OF PREDICTIVE ARTIFICIAL INTELLIGENCE MODELS IN PROSTHODONTICS: ENHANCING DIAGNOSTIC ACCURACY AND CLINICAL PROGNOSIS

Ljubica Prosheva Pelivanova¹, Katerina Zlatanovska¹, Julija Zarkova Atanasova¹, Sandra Atanasova¹, Mihajlo Petrovski¹

¹. Faculty of Medical Sciences, Goce Delcev University, Stip, North Macedonia

Aim: To critically assess the clinical efficacy of AI-driven systems in enhancing the accuracy of marginal fit, occlusal scheme design, and long-term prognosis of implant-supported prostheses comparison with conventional digital workflows.

Methods: A systematic analytical review of clinical trials and comparative studies (2019–2026) was conducted. The analysis focused on Convolutional Neural Networks (CNNs) for bone density assessment, Generative Adversarial Networks (GANs) for tooth morphology, and Random Forest algorithms for predicting mechanical failures in zirconia and hybrid restorations.

Results: Evidence demonstrates that AI-assisted marginal line detection achieves a 25-30% higher consistency among operators. Furthermore, AI-driven virtual articulators show superior accuracy in dynamic occlusal mapping compared to manual digital settings. Predictive models for implant success rates showed an AUC (Area Under Curve) of 0.88, significantly improving risk stratification during the planning phase.

Conclusions: AI is no longer an emerging trend but a clinical necessity for achieving high-precision results in prosthodontics. By quantifying biological and technical risks, AI-driven planning ensures superior clinical outcomes and longevity of prosthetic rehabilitations.

Keywords: Artificial Intelligence, Prosthodontics, Digital Workflow, Treatment Planning, Predictive Analytics.