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**11-14 May 2023, Skopje**  
**Republic of North Macedonia**

CURRENT TRENDS  
AND ADVANCES IN  
**DENTISTRY**

**ABSTRACT  
BOOK**

FIRST EDITION

\*The second edition with correction of all unintentional, technical errors and deficiencies  
will be available by 09.09.2023



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# POSTER PRESENTATIONS



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**MATERIALS AND METHOD:** Patients were treated for pre-prosthetic soft tissue surgery, in whom it was indicated deepening of the fundus with the application of A-PRF membrane covering the periosteum. Postoperatively, symptoms of discomfort, pain, and tenderness were noted, as well as signs of inflammation. Wound healing was rated using the Landry, Turnbull and Howley's index.

**RESULTS:** The analysis of the obtained values for the wound healing index revealed excellent wound healing in all of the patients, with the highest grade 5. The application of PRF enables faster creation of the new soft tissue and conditions for faster rehabilitation of the alveolar ridge.

**CONCLUSION:** Our results reliably indicate the effectiveness, simplicity and economy of the PRF application. This method significantly improves tissue regeneration which is an imperative for successful oral surgical interventions.

**Key words:** platelet-rich fibrin, growth factors, wound healing

#### PP-13

#### SIMPLIFIED SURGICAL EXTRACTION PLANNING USING CONE BEAM COMPUTED TOMOGRAPHY

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**INTRODUCTION:** An impacted tooth is one which fails to erupt within the dental arch in the expected time and away from their anatomic position. Treatment decision depends on several factors: location of the impaction, prognosis of the intervention on the impacted tooth and adjacent teeth, surgical accessibility, impact of treatment on the final functional occlusion, and possible surgical morbidity. This decision has traditionally been based on planar 2-dimensional (2D) radiography. New imaging techniques like cone-beam computed tomography (CBCT), which has a lower-dose and lower-cost alternative to conventional CT can direct us in a proper planning and make it easier.

**CASE PRESENTATION:** A 43 years old woman was complained of facial pain and headache, with no signs of any disorders but, based on panoramic radiograph, with presence of impacted maxillary wisdom teeth. 3D CBCT scans were performed to evaluate the position and direction of the impacted teeth in the maxillary sinus and related teeth. We noticed that the left third maxillary molar lying on the root of the second maxillary molar and the right one located inside the maxillary sinus, was not clearly demonstrated on panoramic radiography. After it, appropriate and concise treatment plan was set up and successful surgical removal was done.

**CONCLUSION:** CBCT offers 3-dimensional and multi-planar views for a more accurate diagnosis and easier and appropriate planning for as minimally possible invasive treatment approach without radiation exposure of conventional computed tomography (CT) scans.

**Keywords:** Ectopic wisdom teeth, Cone Beam Computed Tomography, surgical planning, extraction



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*“Current trends and advances in dentistry”*

# CERTIFICATE

*of attendance*

this is to certify that

**Bruno Nikolovski**

has attended for ACTIVE participation with ORAL/POSTER presentation

**SIMPLIFIED SURGICAL EXTRACTIONS PLANNING USING CONE BEAM COMPUTED TOMOGRAPHY**

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