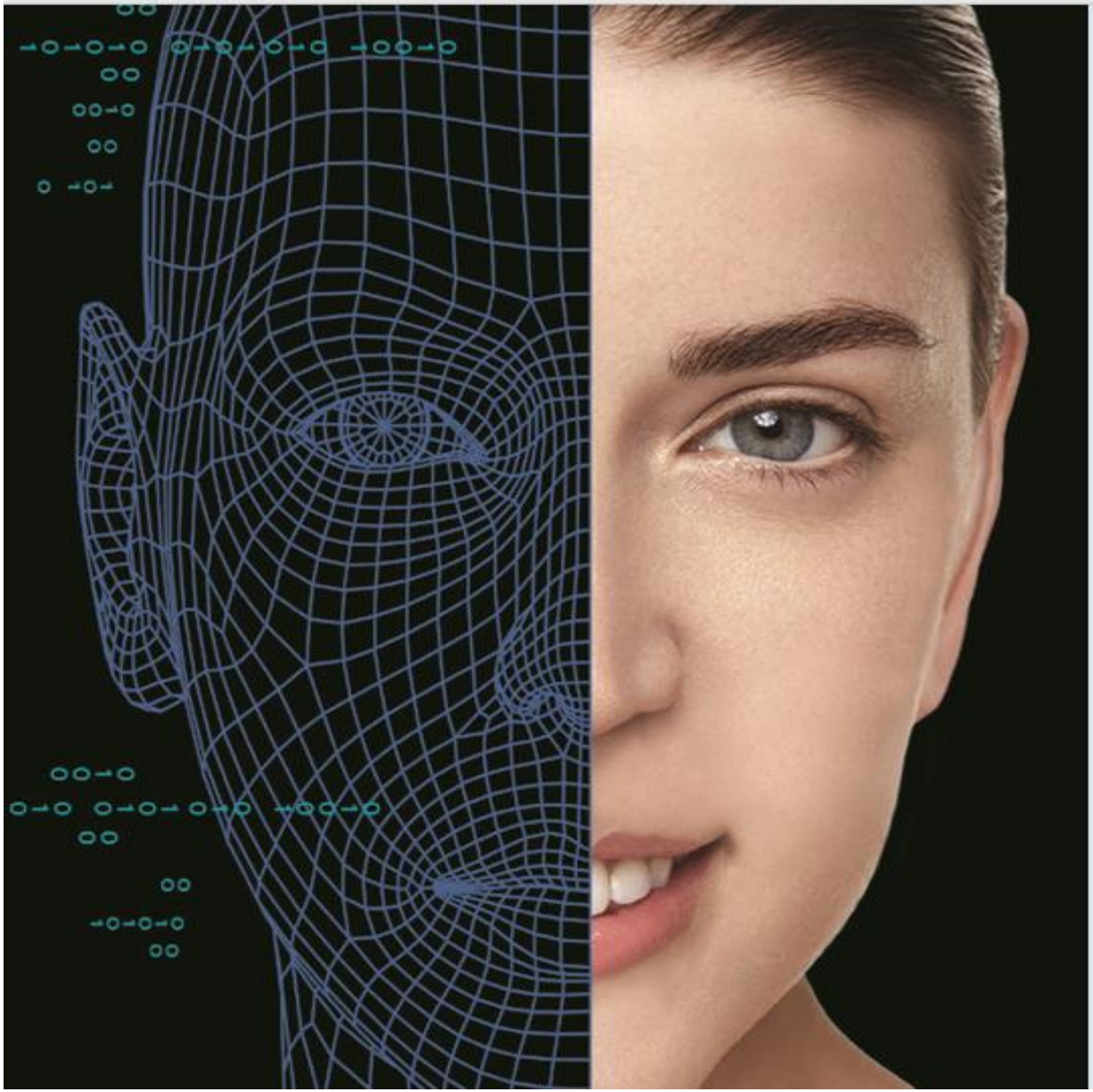

University ofGoce Delcev- Stip

First International Students Congress in Dental Medicine - 2018

DIGITAL VS ANALOGICAL IN DENTAL MEDICINE

Stip, Republic of Macedonia

28.03-29.03.2018

Multimedia centre, Stip

	POSTER PRESENTATIONS **Chairmen:** Ass. D-r. Petrovski M.; D-r. Kocovski D.; student- Trajkova M.
Theme 1	**Adhesive EverStick bridge- a single solution for lost tooth** Author: **Marija Dejkoska**, Co- author: Stefan Ilievski Mentor: Sonja Rogoleva, Co-mentor: Ljupka Lazarova
Theme 2	**Oral health related quality of life in patients with removable dentures** Author: **Tatjana Lazareva**, Co-author: Anastasija Spasova Mentor: Darko Kocovski, Co-mentor: Katerina Zlatanovska
Theme 3	**3D Printing in Dental Lab** Author: **Emre Gulbahar**, Co-author: Lidija Angova Mentor: Apostoloski Pavle, Co-mentor: Kiril Mitevski
Theme 4	**Identification and most common problems in dental impressions** Author: **Jane Nacevski**, Co- author: Olivera Cekova Mentor: Katerina Zlatanovska, Co-mentor: Darko Kocovski
Theme 5	**Application of combined fixed – mobile prosthetic allowances** Author: **Manuel Stoimenov** Mentor: Ljupka Lazarova, Co-mentor: Sonja Rogoleva
Theme 6	**Ivoclar porcelain sistem empress max, part from modern dentistry** Autor:**Selman Candan,** Co-autor: Merve Bakan Mentor:Darko Kocovski, Co-mentor: Pavle Apostoloski
Theme 7	**Prevalence, causes and prevention of post – cementation hypersensitivity** Author: **Biljana Balshevska** Mentor: Katerina Zlatanovska, Co-mentor: Ivona Kovachevska
Theme 8	**Digital technology and techniques used in the fabrication of complete dentures** Author: **Simon Nadzenski,** Co-author: Hristijan Dimoski Mentor: Apostoloski Pavle, Co-mentor: Kiril Mitevski
Theme 9	**Digital vs analog dental impression** Author: **Magdalena Dejkoska**, Co-author: Slavica Tileva Mentor: Darko Kocovski, Co-mentor: Verica Toneva
Theme 10	**Edelweiss veneers for perfect Hollywood smile- Case Report** Author: **Packa Spasova**, Co- author: Ivana Spasova Mentor: Sonja Rogoleva, Co-mentor: Verica Toneva
Theme 11	**Hand tracing vs. digital methods of cefalometric analysis** Author: **Magdalena Koceva**, Co-author: Ana Trajkovska

Digital technology and techniques used in the fabrication of complete dentures

Author: **Simon Nadzenski**, Co-author: Hristijan Dimoski

Mentor: Apostoloski Pavle, Co-mentor: Kiril Mitevski

University "Goce Delcev"- Stip, Macedonia

Abstract

Digital denture is a complete manufacturing process for the rapid production of removable full-arch dentures. Exclusive design software and ideally coordinated materials, combined with well-designed manufacturing strategies and milling equipment platform, provide predictable and reproducible results.

The material for digitally produced, are tooth colored discs made from acrylic material, which are suitable for the individual design and production of whole tooth segment. The long-lasting dental restorations are individually customized to integrate with patients natural antagonist teeth

Base material are PMMA discs for the production of denture bases. The PMMA material is distinguished by its high impact quality. This enhances the fracture strength and increases the longevity of the restoration. In addition, the industrial manufacturing process ensures homogeneous material quality.

In the first milling procedure, the dental arch is milled occlusally with oversized dimensions. The basal surfaces, however, are milled exactly to their final dimension, so that the denture base fits perfectly.

The oversized dental arch is adhesively cemented to the denture base. Cementation is a quick and easy procedure for the dental technician. During the fine milling process, the dental arch is milled to its final size and the excess bonder is removed.

With digital denture, the new digital manufacturing process for dentures, you save valuable time compared to manual production methods: less manual working steps, fewer interruptions in production, no complex plaster models and no articulating.

As a result, porosities and air inclusions in the material can be avoided, which results in a high-quality denture base.

Keywords

Digital denture, CAD design, PMMA discs, prosthetics