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11-14 May 2023, Skopje
Republic of North Macedonia

CURRENT TRENDS
AND ADVANCES IN
DENTISTRY

ABSTRACT
BOOK

FIRST EDITION

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The background of the cover features a stone wall on the right side, with a flag flying from a pole behind it. The flag has a red field with a yellow sun-like symbol in the center. In the lower-left corner, there is a faint image of a classical building with columns and a dome. The overall background is a light, hazy sky.

26th Congress of the BaSS 11-14 May 2023
Skopje, Republic of North Macedonia

“CURRENT TRENDS AND ADVANCES IN DENTISTRY”

ABSTRACTS BOOK

26th Congress of Balkan Stomatological Society (BaSS)

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RESULTS: After the first hour, the pH value at Bio Root is 12.5, so that in 24 hours and 72 hours the pH value decreases to 12, while according to the dynamics index, a rate of decrease of 4% is registered. The pH value of Ah plus in the first hour is 10, so that in 24 hours and 72 hours the pH value increases to 11, while according to the dynamics index, a growth rate of 10% is registered. The pH value of Endoseal registers variations in the first hour, it is 4 (pH less than 7 is acidic), then in 24 hours it increases to 10 (passes into alkaline), according to the dynamics index, a rate of increase of 150% is registered, for yes, in 72 hours the pH value decreased to 8, according to the dynamics index, a rate of decrease of 20% was registered.

CONCLUSION: New endodontic bioceramics materials possess high pH values, promising better antimicrobial properties.

PP-7

AN IN VITRO EVALUATION OF LEAKAGE AFTER OBTURATION WITH 3 DIFFERENT SEALERS AND THERMAFIL OBTURATOR

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INTRODUCTION: Obturation techniques require endodontic sealer and gutta-percha, which fills most of the endodontic space. No optimal sealer material was identified to complete the requires of endodontic obturation.

AIM: The aim of this study is to evaluate the leakage after obturation with sealer and Termafil obturator.

MATERIALS AND METHODS: A number of 30 human one rooted extracted teeth were included in this study. The teeth were preserved in normal saline. The crown at the cement-enamel junction was removed. The canal length and glide path was formed with hand K-file (Dentsply, Maillefer, Ballaigues, Switzerland) No. 15. There were 3 experimental groups according to the sealers. They were instrumented with Pro Taper Gold Rotary system (Dentsply, Maillefer). After the protocol of irrigation with sodium hypochlorite, chlorhexidine gluconate and EDTA the groups were obturated with sealers. 1 group: obturated with Endometasone N + Thermafil obturator, 2 group: obturated with Ah plus + Thermafil obturator, 3 group: obturated with GJC + Thermafil obturator. The samples were placed in 2 % methylene blue for 2 days, washed, dried and longitudinally sectioned in a vertical direction.

RESULTS: Tested group opturated with Thermafil obturator and Endometasone N showed higher percentage of leakage than others.

CONCLUSIONS: The results have shown that all tested group have a percentage of leakage, but the group with glass ionomer sealer in combination with Thermafil obturator has shown the least leakage.

Keywords: Ah plus, Endometasone N, GJC, Thermafil opturator, Thermaprep Plus

PP-8

THE BOND STRENGHT BETWEEN COMPOSITE CEMENT AND COMPOSITE ESTHETIC POSTS

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AIM: Well treated endodontic teeth with crown deficiency need to be restored with post and core.

By application of static force to measure the bond strength between composite cement and composite esthetic posts, where the post surface was or was not chemically treated.

MATERIALS AND METHODS: For realization of our goals we included 10 composite esthetic posts, all with same diameter 1,6mm. For each group are used five posts from different manufacturer. Group 1 (control group)-without surface treatment, Group 2 (examined group) chemically treated using 37% phosphoric

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