ABSN2210

Date: April 13, 2022

Letter of Acceptance

Dear Dr. Yomna Abouelella,

We cordially invite you to attend the "**32nd International Conference on Dentistry**", *October 03 to 04, 2022 in Madrid, Spain.*

We are glad to inform you that your abstract entitled "**STUDYING THE EFFECT OF A RESIN COAT ON FLUORIDE RELEASE AND RECHARGE CAPACITY OF A GLASS HYBRID MATERIAL IN PRIMARY TEETH "AN IN VITRO STUDY'**" has been accepted by the review committee for Oral presentation.

Abstract:

Dental caries is one of the most prevalent chronic diseases affecting humans worldwide. Caries prevention and eradication was improved by using fluoride-releasing restorative materials capable of both fluoride release and recharge within the oral cavity. Aim of the work was to compare the fluoride release and recharge capability of a novel glass hybrid material (Equia Forte Fil) with and without a resin coat (Equia Forte Coat). 68 freshly exfoliated or extracted (for orthodontic purposes) sound primary molars were used. Standardized buccal class V cavities were prepared in all teeth and then restored with Equia Forte Fil according to manufacturer's instructions and then randomly allocated into two groups: Group I [Experimental] (n=34): teeth restored with Equia Forte Fil in addition to Equia Forte Coat. Group II[Control] (n=34): teeth restored with Equia Forte Fil only. The samples were immersed in 5ml artificial saliva and fluoride release was evaluated on the 1st, 3rd, 7th, 14th, 21st and 28th days using fluorine ion-specific electrode. After 28 days, each group was further divided into 2 subgroups: Subgroup A [Experimental (n=17): treated with Enamel Pro Varnish. Subgroup B[Control](n=17): received no fluoride treatment. The amount of fluoride re-release was measured at the same time intervals. There was a statistically significant difference ($P \leq 0.0001$) in fluoride release and recharge between the 2 groups, where Group II drastically released more fluoride. Time had a significant effect on fluoride release within subgroups IA and IIA on specific days, as the amount of fluoride progressively decreased throughout the study. As for subgroups IB and IIB data was constant. The application of the nano-filled resin coat had a dramatic effect in reducing fluoride release and recharge capabilities of Equia Forte Fil..

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Best Regards,
Steve Robert,

Steve Robert

Program Director | Dentistry 2022
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