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PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 52795

Title: Effectiveness of a microabrasion technique using 16% HCL with manual application on fluorotic teeth a case series study.

Reviewer's code: 00742421
Position: Editorial Board
Academic degree: DDS, MSc, PhD
Professional title: Academic Research, Doctor, Full Professor, Lecturer, Professor
Reviewer's country: United States
Author's country: Mexico

Reviewer chosen by: Le Zhang
Reviewer accepted review: 2019-11-24 02:21
Reviewer performed review: 2019-11-24 02:36
Review time: 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	[ ] Accept (High priority)	Peer-Review:
[ ] Grade B: Very good	[ ] Grade B: Minor language polishing	[ ] Accept (General priority)	[ ] Anonymous
[Y] Grade C: Good	[Y] Grade C: A great deal of language polishing	[ ] Minor revision	[Y] Onymous
[ ] Grade D: Fair	[ ] Grade D: Rejection	[Y] Major revision	Peer-reviewer's expertise on the topic of the manuscript:
[ ] Grade E: Do not publish		[ ] Rejection	[ ] Advanced
			[Y] General
			[ ] No expertise
			Conflicts-of-Interest:
			[ ] Yes
			[Y] No

SPECIFIC COMMENTS TO AUTHORS

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1. Please write all parts of the manuscript in English 2. Improve references and update each part of the manuscript, especially methodology 3. Explain how the enamel loss and how to measure

INITIAL REVIEW OF THE MANUSCRIPT

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PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 52795

Title: Effectiveness of a microabrasion technique using 16% HCL with manual application on fluorotic teeth a case series study.

Reviewer's code: 00742092
Position: Editorial Board
Academic degree: DDS, MSc, PhD
Professional title: Doctor, Professor, Research Fellow
Reviewer's country: Italy
Author's country: Mexico
Reviewer chosen by: Le Zhang
Reviewer accepted review: 2019-11-23 12:51
Reviewer performed review: 2019-11-26 12:04
Review time: 2 Days and 23 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	[ ] Accept (High priority)	Peer-Review:
[ ] Grade B: Very good	[Y] Grade B: Minor language polishing	[ ] Accept (General priority)	[Y] Anonymous
[Y] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Minor revision	[ ] Onymous
[ ] Grade D: Fair	[ ] Grade D: Rejection	[Y] Major revision	Peer-reviewer's expertise on the topic of the manuscript:
[ ] Grade E: Do not publish		[ ] Rejection	[Y] Advanced
			[ ] General
			[ ] No expertise
			Conflicts-of-Interest:
			[ ] Yes
			[Y] No

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Dear Authors, I have read the interesting manuscript and some questions raised. Attached please find my comments. Overall. General English grammar revision (Minor spelling errors). Introduction. Authors stated "Accumulating evidence suggests that enamel microabrasion is efficient and effective for producing aesthetic improvements". Please add a reference for this statement. Introduction. Authors stated "Carbamide peroxide (10 and 20%) and 7.5% hydrogen peroxide showed good clinical effectiveness to improve clinical appearance of teeth affected by dental fluorosis, but it is important to point out that the clinical success is only in cases of class 1-3 of the Total Surface Index of Fluorosis (TSIF)". Please add a reference for this statement. Introduction. Authors stated "The dental enamel microabrasion technique is a highly satisfactory, safe and effective procedure". Please add a reference for this statement. Introduction. Authors stated "The aim of this research was to relate the efficacy of a treatment to remove dental fluorosis stains with the stain size, working time, and enamel loss caused by the treatment, using the 16% hydrochloridric acid microabrasion technique with manual application". It would be better to rephrase as "The aim of this research was to show a case series related to a treatment to remove dental fluorosis stains with the stain size, working time, and enamel loss caused by the treatment, using the 16% hydrochloridric acid microabrasion technique with manual application". Table 1 could be cropped. Instead, it could be added a flow chart showing patient selection, enrollment, drop outs and final patient numbers. Materials and Methods Authors stated "33 mujeres y 24 hombres". Please translate in English. Table 2. Authors stated "Tabla 2. Número de pacientes y distribución en género, media y desviación estándar.". Please translate in English. Table 2. Please change age using years and months instead of decimals. Materials and Methods Authors stated "Teeth that had not been completely erupted were excluded". Please point out haw a teeth was considered "erupted" or not (using a measurement? Considering anatomical aspects? By eye?). Materials and Methods Authors stated

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"The HCL was applied directly with cotton, rubbing the stained area from mesial to distal, for under 6 minutes". Please add a reference for this treatment time. Materials and Methods Authors used "chlorhydric acid (HCL) at 16%". Please add commercial name, manufacturer, City and State. Materials and Methods Authors used "Sodium bicarbonate". Please add commercial name, manufacturer, City and State. Materials and Methods Authors used "diamond polishing paste". Please add commercial name, manufacturer, City and State. Materials and Methods Authors used "sodium fluoride gel at 2%". Please add commercial name, manufacturer, City and State. Materials and Methods. Please add a reference for working times of Sodium bicarbonate and sodium fluoride gel at 2%. Materials and methods. If working time has been reported to be 4 minutes it is unclear why "The working time was also categorized into 2 time levels: short, from 1 a 4" and long, from 4'.01" to 6 minutes". Materials and Methods. Authors used "metal calibrator". Please add model name, manufacturer, City and State. Materials and Methods. Authors stated "Pictures of the dental organs were taken with a reflex camera and a macro lens". Please add model name, manufacturer, City and State. Materials and Methods. Authors used "software ARCHICAD". Please add version, manufacturer, City and State. Materials and Methods. Authors stated "Stains were categorized in three levels: small stain from 1 to 20.9mm2 medium-sized stain from 21mm2 to 40.9 mm2 and large stain from 41 to 67mm2. Please add a reference for this statement. Materials and Methods. Authors used ANOVA. This test is used for gaussian distributions. Please state how normality of data was tested. Materials and Methods. Authors used ANOVA. Please add if a post-hoc (Tukey? Scheffè?) analysis has been conducted in order to obtain pairwise comparison. Materials and Methods. Authors stated "The data analysis was carried out with the IBM SPSS V21 statistic software for Windows". Please add City and State of the manufacturer. Table 3. Please fill the empty column "Working time in minutes and seconds". Table 3. Please rephrase "porcentage".

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Table 4. Please limit the decimal digits to 2 units (example: 14.14072can be changed into 14.14). Table 5. Please rephrase "porcentage". Table 5. Please add some descriptive statistics (Mean and SD are correctly reported, but median minimum and maximum values are lacking) and inferential statistics (P values among groups or significance letters) Figures 1 and 2. The photographs are quite dark. Please select more detailed photographs, if available. Table 6. Please limit the decimal digits to 2 units. Table 6. The evaluation of comparison between 2 groups would be better with a t test. Discussion. Authors stated "Along with Wong and Winter". Please add reference number. Discussion. Please crop the sentence "As pointed out by Wong and Winter, "aesthetics is a subjective perception" (22).". Discussion. At the end of the section, Authors could add some discussion about surface roughness after microabrasion. It could be stated that "Microabrasion could alter surface roughness (Franco LM, Machado LS, Salomão FM, Dos Santos PH, Briso AL, Sundfeld RH. Surface effects after a combination of dental bleaching and enamel microabrasion: An in vitro and in situ study. Dent Mater J. 2016;35(1):13-20.). As enamel (Seong J, Virani A, Parkinson C, Claydon N, Hellin N, Newcombe RG, West N. Clinical enamel surface changes following an intra-oral acidic challenge. J Dent. 2015 Aug;43(8):1013-20) and composite (Poggio C, Dagna A, Chiesa M, Colombo M, Scribante A. Surface roughness of flowable resin composites eroded by acidic and alcoholic drinks. J Conserv Dent. 2012 Apr;15(2):137-40.) rough surfaces can be eroded by acidic drinks and foods, patients has to be warned to reduce their consumption and improve oral hygiene. Moreover, as surface characteristics are strictly related to bond strength (Scribante A, Contreras-Bulnes R, Montasser MA, Vallittu PK. Orthodontics: Bracket Materials, Adhesives Systems, and Their Bond Strength. Biomed Res Int. 2016;2016:1329814.) also adhesion of orthodontic, conservative and prosthodontic frameworks has to be carefully considered for microabraded enamel surfaces. However, this technique has solid literature background, so it represents a

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highly satisfactory, safe and effective procedure (Sundfeld RH, Croll TP, Briso AL, de Alexandre RS, Sundfeld Neto D. Considerations about enamel microabrasion after 18 years. Am J Dent. 2007 Apr;20(2):67-72)". Conclusions. Authors stated "fluorotic teeth.MODERADA Y SEVERA". Please crop non English words. Conclusions. Authors stated "There was a significantly higher enamel loss when the working time was above 4 minutes, with a p=0.000 value". Please crop P values. References. Some references are quite old (1990; 1994; 1984; 1978; 1993; 1996; 1995; 1989; 1977). Please add some modern research. Some studies have been suggested in the sections above. References. Some references are not presented in Journal style (22, 24, 28, 30, 31)

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