Reviewer comments	Authors response
Reviewer #1:	Dear reviewer #1,
Scientific Quality: Grade C	Thank you for your attention and interest in our
(Good)	research work. We appreciate your comments.
Language Quality: Grade A	
(Priority publishing)	
Conclusion: Accept (General	
priority)	
Specific Comments to Authors:	
The manuscript entitled	
"Clinical relevance of the use	
of Dentoxol for oral	
mucositis induced by	
radiotherapy: A phase II	
clinical trial." Has a title and	
abstract which reflect and	
summarize the manuscript.	
The background of the	
manuscript is adequately	
described. The Method of the	
manuscript is clear. The effect of Dentoxol mouthwash was	
tested in 55 patients and 53	
patients were selected as the	
control group. The statistics	
are held properly. As a conclusion the researchers	
found that the Dentoxol	
group presented a lower	
number of patients with	
severe oral mucositis, with a	
statistically significant	
difference at weeks 3 and 4 of	
follow-up. In the discussion	
section the manuscript	
-	
findings are compared and discussed in detail with the	
literature. Illustrations and	
tables are understandable and	
sufficient. Language is fine and	
statistical method is clear The	
manuscript has a conclusion	
that adds knowledge to the	
literature and has an impact	
on clinical practice. In my	
opinion the manuscript is	
acceptable for publication.	

induced oral mucositis in head and neck cancer patients (ESDOM): a randomized, multicenter, double-blind, placebo-controlled, phase II trial. Support Care Cancer 2020; 28: 5871-5879 [PMID: 32266567 DOI: 10.1007/s00520-020-05358-4] 3. As requested, in the results section, the following text (highlighted in yellow) was modified. RESULTS Patient selection
A total of 108 patients were considered for the
analysis of the outcomes of the randomized
controlled clinical trial evaluating the use of
Dentoxol®.
Oral mucositis severity Table 1 shows the number and percentage of patients who presented with severe oral mucositis in each treatment group. The Dentoxol® and control groups showed a progressive increase in the frequency of severe oral mucositis, with a peak at seven weeks. Compared with the control group, the Dentoxol® group presented a lower number of patients with severe oral mucositis every week except for the first week, with a statistically significant difference observed at weeks 3 and 4 of the follow-up (see Table 1 and Figure 3).
Clinical relevance Table 2 shows the measures of clinical significance. The ARs of severe oral mucositis in the Dentoxol® group were 0.04 and 0.09 or 4% and 9% for weeks 3 and 4, respectively, versus 0.23 and 0.29 or 23% and 29%, respectively, in the control group. Additionally, from week 2 onward, the relative risk of severe oral mucositis in the Dentoxol® group was less than 1, indicating that Dentoxol® use acted as a protective factor. Dentoxol® use was positively associated with a reduction in severe oral mucositis from week 2 onward, showing ARR values greater than 0. The

	 values at weeks 3 and 4, ARR= 0.19 or 19% and 0.21 or 21%, respectively, indicate that if 100 patients were treated with Dentoxol®, 19 and 21, respectively, fewer cases of severe mucositis would occur compared to the control group. Similarly, during weeks 3 and 4, when statistically significant differences between the groups were noted, 5 patients (NNT) would need to be treated with Dentoxol® to prevent 1 additional case of severe oral mucositis (Table 3). 4. Regarding the incorporation of recent 	
	references into the introduction, at least 3 new references (2018, 2019, and 2020) have been added.	
Reviewer #3: Scientific Quality: Grade D	Dear reviewer #3, thank you for your comments. According to your requests:	
(Fair) Language Quality: Grade B (Minor language polishing) Conclusion: Major revision Specific Comments to Authors: Dear Authors, Thank you for this small phase 2 study. The authors have made very specific conclusions of "statistical efficacy" of this dentoxol. As usual, this is a very niche subject and there are many alternative agents in the market. 1) there is always a problem of selection bias The patients seem to be randomized to placebo versus treatment- were they blinded to the medication? Could I enquire if the clinicians assessing the mucositis grade were also equally blinded? This agent has list of ingredients "its components (purified water, xylitol, sodium bicarbonate, eugenol, camphor, parachlorophenol and peppermint essence)" that	 Patients and clinical evaluators were blinded to the group assignments. Both groups received similar mouth rinses in terms of color, flavor, and consistency, which were packed in identical bottles with the same labels (the control rinse contained purified water, xylitol, sodium bicarbonate, sucralose, and peppermint essence). The frequency of severe mucositis in each week was considered independent, so the comparative analysis was only between both treatment groups, that is, it was only between two variables. The influence of the duration of radiotherapy was exactly the same for both groups in each week evaluated, so it was not considered an extra variable. Therefore, Bonferroni correction, which is recommended for multiple comparisons, was not necessary. Regarding the complete methodology, the study where it is explained in detail is cited in the materials and methods. The following sentence is added: See the full methodology of the clinical trial performed and published by Lalla et al. 2020^[18]. 	

and it can influence the grading of toxicities. 2) The statistical principle of Bonferroni correction https://en.wikipedia.org/wiki/ Bonferroni correction In the table 1- the authors have given a number of significant calculations. How do we know the significance is not due to repeatedly looking for correlations? The Table 1 and the methodology does not actually say how long is the radiotherapy course if for. The key is the dose and fractionation (plus/minus chemo or cetuximab + location/ volume of disease) will determine the time, duration of mucositis of these patients. Smoking status, alcohol status, p16 status are useful surrogate markers of compliance (heavy smoker, heavy alcohol consumption and p16 -ve status are usually marker of poorer compliance in Squamous cell carcinoma HN patients). I appreciate the hard work of authors but must stress that extensive care and effort must be taken to ensure the validity of said findings. Without understanding the rest of the methodology/ patients/ treatments, it is hard to comment if the conclusions are valid. I certainly hope so as - what is in the placebo? Is it just sterile water? You would hope there is a chance of reproducibility with this kind of intervention trials! Please can the authors address these concerns in order to improve reproducibility in clinical

practice. BW	
Reviewer #4:	Dear reviewer #4, thank you your comments.
Scientific Quality: Grade C	
(Good)	1. According to the requests for the
Language Quality: Grade B	introduction, the following paragraph was
(Minor language polishing)	deleted: "Because of the above, oral
Conclusion: Minor revision	mucositis also has a significant economic
Specific Comments to Authors:	impact due to the costs associated with
A review report of the	pain management, secondary infections,
manuscript titled "Clinical	hospitalizations, etc. It has been
relevance of the use of	determined that the increase in treatment
Dentoxol for oral mucositis	costs of patients with head and neck
induced by radiotherapy: A	radiotherapy varies between US \$1,700-
phase II clinical trial". Authors	6,000 per patient, depending on the
aimed to describe the clinical	severity of oral mucositis[6]".
impact of the use of Dentoxol	
in severe oral mucositis. They	2. The study where the statistical analysis is
concluded that the	explained in detail is cited in the materials
incorporation of Dentoxol	and methods. In reference to the above,
mouth rinse in clinical	the following sentence was added: See the
protocols as a complement to	full methodology of the clinical trial
cancer therapy to prevent	performed and published by Lalla et al.
and/or treat oral mucositis	2020 ^[18] .
secondary to radiotherapy is	
justified. There are concerns	3. According to the requests for the
that should be addressed: 1. In	discussion, the following sentence with the
my view Introduction contains	respective reference (highlighted in yellow)
some unnecessary	was added: Other products used for similar
information. Introduction	clinical conditions could be considered for
should be very specific and not	comparative evaluations ^[4] .
include very general	
information (for example it is	
not clear in why authors	
included information regarding	
treatment costs; etc).	
Authors should provide the	
background of the study, the	
scientific gap and based on	
this they should formulate the	
study aim. Thus I highly	
recommend to reduce	
Introduction keeping only very	
relevant information. 2. In the	
Materials and methods section	
authors should present the	
statistics information. 3. In the	
Discussion authors need to	

present the effectiveness of		
other medicaments/adhesive		
films/mouthwashes for the		
treatment various oral		
ulcers/mucositis and compare		
with Dentoxol. I recommend		
this article: Heboyan A,		
Avetisyan A, Skallevold HE,		
Rokaya D, Marla V, Vardanyan		
A. Occurrence of Recurrent		
Aphthous Stomatitis (RAS) as a Rare Oral Manifestation in a		
Patient with Gilbert's		
Syndrome. Case Rep Dent.		
2021 Apr 16;2021:6648729.		
doi: 10.1155/2021/6648729.		
PMID: 33953989; PMCID:		
PMC8068538.		
Reviewer #5:	Dear reviewer #5, thanks for your comments.	
Scientific Quality: Grade C		
(Good)	1.	The key words were arranged
Language Quality: Grade B		alphabetically as follows (highlighted in
(Minor language polishing)		yellow): <mark>Clinical trial, Dentoxol, Double</mark>
Conclusion: Major revision		blind, Oral mucositis, Prevention,
Specific Comments to Authors:		Radiotherapy, Treatment.
Dear authors Please find	2	The study design is monthing of the
reviewer's comments- 1. Keywords need to be arranged	2.	The study design is mentioned at the beginning of the materials and methods: A
alphabetically 2. Mention the		descriptive study.
study design 3. Sample size		descriptive study.
estimation should be included	3.	The sample size estimation is explained in
4. references are too old.	0.	the article cited in the materials and
Kindly add recent references		methods; the following sentence was
(preferably last two years) 5.		added: See the full methodology of the
et al. should be included after		clinical trial performed and published by
6 authors. 7. Manuscript needs		Lalla et al. 2020 ^[18] .
to be run on grammarly for		
spell and grammar check	4.	As requested, at least 3 new recent
		references were included in the
		introduction (2018, 2019, and 2020).
		The expression "at al" was sheeled and
	5.	The expression "et al." was checked and corrected when necessary.
		concelea when necessary.
	6.	The grammar was checked by language
		professionals.
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