OPEN PEER REVIEW

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What is "Open Peer Review" process?

An "Open Peer Review" process is making the details of all review process (including reviewers, associate editors, and EICs comments) as "Public" as it is agreed by EIC, Authors, and reviewers.

Advantages of "Open Peer Review" process

- More transparency, constructiveness and tactful comments of the peer review process: leads to an increase in the quality of reviews
- More motivations for all involved roles in the review process
- Authors' satisfactions from the review process: Increases honesty between authors and reviewers
- Education of both authors and new students
- Prevents reviewers from following their individual agendas and leading to the detection of reviewers' conflicts of interests

You can find out more at:
https://sites.kowsarpub.com/kowsar/knowledgebase/category/tree.html#opr.html

Journal of Skin and Stem Cell
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Peer Review Report for "8-OHdG and hOGG1 as Oxidative DNA Damage Markers in Acne Vulgaris Patients Under Isotretinoin Treatment"

Author(s): Muzeyyen Izmirli, Hasret Ecevit, Hamza Malik Okuyan, Eminenur Rifaioglu

Review Timeline:

Submit Date: 7 Apr 2020
Revised Date: 15 Apr 2020
Accepted Date: 17 Apr 2020

Revision (0)

Here, you can see the **Reviewers**, **Associate Editors** and **EICs'** comments from the beginning to the end of the revision process.

REFEREE: Reviewer | **Revision** (0) — 8 Apr 2020

Dera AE,
There is a comment which should be addressed by the author:
1- In the discussion part please add references after Reactive oxygen species (ROS) including superoxide radical (O2●), hydrogen peroxide (H2O2), and OH● are produced by active neutrophils (?).
Thanks.

REFEREE: Reviewer | **Revision** (0) — 11 Apr 2020

Dear AE,
I read with interest manuscript titled "8-OHdG and hOGG1 are Oxidative DNA Damage Markers in Acne Vulgaris Patients under Isotretinoin Treatment;"
The manuscript needs some revision:
1- The manuscript needs serious English edit.
2- In the abstract you have a sentence "Isotretinoin which leads to oxidative DNA damage is one of the most common treatment agents for acne vulgaris." where the Isotretinoin create DNA damage? in cells? in skin layers?
3- The next sentences also does not have meaning, please check them with your English

editor.

4-Did you selected the article type correctly? the article is the brief report ? or a research article? please explain.

5- some sentences do not have references number. please refine.

Thanks.

REFEREE: Associate Editor | **Revision (**0**)** 11 Apr 2020

Dear EIC,

The manuscript needs English edit. The authors should consult with a native English editor to improve English edit of your manuscript.

The manuscript would be accept after revise.

Thanks.

REFEREE: EIC | **Revision (**0**)** 11 Apr 2020

Dear Author,

The manuscript needs revision. Please revise based on comments.

Thanks.

OPEN PEER REVIEW

Revision (1)

Reply to Reviewers

Ideally, the reviewing process can significantly improve the submitted manuscripts by allowing the authors to take into account the advice of reviewers. Author(s) must reply to all reviewers' comments in a separate Word file, point by point. A "**Reply to Reviewers**" document is submitted along with revised manuscript during submission of revised files, summarizing the changes that the authors made in response to the reviewers' comments. The responses to reviewers' comments specifies how the authors addressed each comment the reviewers made.

You can read the authors' responses to the reviewers' comments in the next page.

Dear Reviewers
Thank you for suggestions. I revised our paper according to your suggestions and revised words or sentences were highlighted with yellow.
For English grammar, Get Grammarly program was used and I rewrited.
References were added.

Abstract

It is primarily seen in adolescents and characterized by comedones, papules, pustules, nodules and cysts on the face, back, chest, chin, and body skin
Isotretinoin is one of the most common treatment agent for acne vulgaris and it leads oxidative DNA damage in the cell.
8-hydroxy-2′-deoxyguanosine (8-OHdG), an important indicator of oxidative DNA damage that is repaired by an enzyme called human 8-oxoguanine DNA glycosylase 1 (hOGG1).
Consequently, this healing (via hOGG1) likely continues after dropping isotretinoin for DNA.

Backrounds and Objectives

Acne vulgaris is the most common inflammatory skin disease and is primarily seen in adolescents and characterized by comedones, papules, pustules, nodules and cysts on the face, back, chest, chin, and body skin (1).
Isotretinoin is known that causes oxidative damage (4). However, hOGG1, an enzyme relevant 8-OHdG repair mechanism, wasn't known in acne.

Materials and Methods

8-OHdG and hOGG1 levels were measured from serum samples by Enzyme-linked Immunosorbent Assay (ELISA) method using a spectrophotometer (Thermo, Multiskan Go, Type: 1510, Finland).

Discussion

Reactive oxygen species (ROS) including the superoxide radical ($O_2^{\bullet}$), the hydrogen peroxide (H_2O_2) and $OH^{\bullet}$ are produced by active neutrophils (9).
The alteration of sebum composition leads to the irritation and the destruction of a follicular wall responsible for the inflammatory processes of acne vulgaris (9-10).
Besides, the isotretinoin administration which causes the form of ROS and DNA damage is used acne vulgaris therapy (4).
There is only one previous study that evaluated the oxidative DNA damage before and after isotretinoin treatment in acne disease (11).
However, the hOGG1 levels and relationship between hOGG1and 8-OHdG levels could not be assessed by them (11).
8-OHdG levels were found to be higher than in children without eczema (urinary 8-OHdG μg/g creatinine 12.0 ± 6.3 and 10.1 ± 5.5 for children with and without eczema, respectively) (12).
However, there is not any study of the association with hOGG1 and acne vulgaris.
hOGG1 wasn't found to have a relationship with cancer-specific survival (15).
In the current study, 8-OHdG and hOGG1 levels were found to have a statistically significant high level after isotretinoin treatment.
This healing likely continues after dropping isotretinoin for DNA. However, this needs further studies.

Again, thanks a lot for your cooperation and suggestions.
Best regards

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Revision (1)

Here, you can see the **Reviewers**, **Associate Editors** and **EICs'** comments from the beginning to the end of the revision process.

REFEREE: EIC | **Revision (1)** 17 Apr 2020

Dear Author,

The manuscript is accepted for publication.

Thanks.