
[AMP] Article Review Request

Dr. Abigail Pascual-Domingo <acta-siteadmin@post.upm.edu.ph>
To: Tania Saskianti <tania-s@fkg.unair.ac.id>

Fri, Nov 12, 2021 at 2:00 PM

Greetings from Acta Medica Philippina!

Tania Saskianti:

I believe that you would serve as an excellent reviewer of the manuscript, "Role of Iron in Dental Caries, Gingivitis, and Candida albicans Infection in Children with Beta Thalassemia Major," which has been submitted to Acta Medica Philippina. The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us.

Attached is the Peer reviewer's conforme that you need to sign should you accept this undertaking.

In line with this, I would also like to respectfully request your short and updated Curriculum Vitae.

Please log into the journal web site by 2021-11-26 to indicate whether you will undertake the review or not, as well as to access the submission and to record your review and recommendation.

The review itself is due 2021-11-26.

Submission URL: <https://actamedicaphilippina.upm.edu.ph/index.php/acta/reviewer/submission?submissionId=3994&reviewId=4003&key=sZikfD49>

Thank you for considering this request.

Dr. Abigail Pascual-Domingo
acpascualdomingo@up.edu.ph

"Role of Iron in Dental Caries, Gingivitis, and Candida albicans Infection in Children with Beta Thalassemia Major"

Thalassemia is a common inherited hemolytic disorder characterized by the absence or reduction of one of the globin chains. Beta thalassemia major generally has manifestation in the oral cavity. Patients with beta thalassemia major generally require routine blood transfusion. However, this treatment has the side effect of accumulating iron in the salivary glands which increase the risk of dental caries, gingivitis, and secondary infection from *Candida albicans*. The aim of this review is to explain the relationship of salivary iron levels with dental caries, gingivitis, and *Candida albicans* infection. Iron is a micronutrient essentially needed by *Candida albicans* for its growth and virulence factor. The treatment of blood transfusion in patients with beta thalassemia major can lead to a buildup of iron in the salivary glands and trigger the formation of non-transferrin bound iron (NTBI) which can circulate in plasma and forming a Reactive Oxygen Species (ROS) that stimulate the formation of biofilms and increase dental caries. ROS may affect several genes associated with the inflammatory process and increases the incidence of gingivitis, and also reducing of salivary secretion in patients with thalassemia- β major that cause dysbiosis which triggers an overgrowth of *Candida albicans*. To conclude, the excess iron in patients with beta thalassemia major increase the risk of dental caries, gingivitis, and *Candida albicans* infection.

Keywords: beta thalassemia major, iron, dental caries, gingivitis, *Candida albicans*

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[Acta Medica Philippina](#)

[AMP] Article Review Acknowledgement

1 message

Dr. Abigail Pascual-Domingo <acta-siteadmin@post.upm.edu.ph>
To: Tania Saskianti <tania-s@fkg.unair.ac.id>

Wed, Nov 17, 2021 at 6:31 PM

Dear Tania Saskianti:

Thank you very much for completing the review of the submission, "Role of Iron in Dental Caries, Gingivitis, and Candida albicans Infection in Children with Beta Thalassemia Major," for Acta Medica Philippina. We appreciate your contribution to the quality of the work that we publish.

Sincerely,
Dr. Abigail Pascual-Domingo
acpascualdomingo@up.edu.ph

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Acta Medica Philippina

ACTA MEDICA PHILIPPINA PEER REVIEWER'S CONFORME

The peer reviewer is responsible for reviewing specific articles upon invitation of Acta Medica Philippina.

The following provisions are to be complied with in the performance of this responsibility.

- Provide a short, updated Curriculum Vitae.
- Provide an honest and unbiased assessment of the strengths and weaknesses of the manuscript.
- Respect the strict confidentiality of the peer review process. Non-disclosure to external parties must be maintained with regard to the nature and content of the manuscript being reviewed.
- Declare all potential competing or conflicting interests that might prevent you from providing a fair and unbiased review.
- The reviewed manuscript should be returned to Acta within two weeks. Inform the journal promptly if you cannot submit your review on time or if you require an extension.
- If you cannot review, it is helpful to make suggestions for alternative reviewers.

In case of any uncertainty and/or clarification, this may be discussed with the Acta Medica Philippina Editorial Board.

CONFORME

Tania Saskianti

Universitas Airlangga
Affiliation/Institution

November 17th, 2021
Date

The National Health Science Journal

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Acta Medica Philippina

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Date

The National Health Science Journal

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Submissions

Review: *Effects of Iron Accumulation on Dental Caries, Gingivitis, and Candida albicans Infection in Children with Beta Thalassemia Major: A Narrative Review*

1. Request
2. Guidelines
3. Download & Review
4. Completion

Request for Review

You have been selected as a potential reviewer of the following submission. Below is an overview of the submission, as well as the timeline for this review. We hope that you are able to participate.

Article Title

Effects of Iron Accumulation on Dental Caries, Gingivitis, and *Candida albicans* Infection in Children with Beta Thalassemia Major: A Narrative Review

Abstract

Background. Thalassemia is a common inherited hemolytic disorder characterized by the absence or reduction of one of the globin chains. Beta thalassemia major generally has oral cavity manifestations. Patients with beta thalassemia major often require routine blood transfusion. However, this treatment has the side effect of accumulating iron in the salivary glands, which increase the risk of dental caries, gingivitis, and secondary infection from *Candida albicans*.

Objective. The aim of this review is to explain the relationship of salivary iron levels and the effects of iron accumulation on dental caries, gingivitis, and *Candida albicans* infection.

Methods. A comprehensive search was performed on PubMed, Scopus, and Google Scholar databases using the keywords beta thalassemia major, iron, dental caries, gingivitis, *Candida albicans*.

its growth and virulence. Blood transfusion in patients with beta thalassemia major can lead to a buildup of iron in the salivary glands and trigger the formation of non-transferrin bound iron (NTBI). NTBI can circulate in plasma and form a reactive oxygen species (ROS) that stimulate the formation of biofilms and increase dental caries. ROS may affect several genes associated with the inflammatory process and increase the incidence of gingivitis. It can also reduce salivary secretion in patients with thalassemia- β major that cause dysbiosis, which triggers an overgrowth of *Candida albicans*.

Conclusion. The excess iron in patients with beta thalassemia major increase the risk of dental caries, gingivitis, and *Candida albicans* infection.

Review Type

Double-blind

[View All Submission Details](#)

Review Schedule

2021-11-12	2021-11-26	2021-11-26
<i>Editor's Request</i>	<i>Response Due</i> <i>Date</i>	<i>Review Due Date</i>

[About Due Dates](#)

- I do not have any competing interests
- I may have competing interests (Specify below)




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Submissions

Review: *Effects of Iron Accumulation on Dental Caries, Gingivitis, and Candida albicans Infection in Children with Beta Thalassemia Major: A Narrative Review*

1. Request
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Review Files		Search
 45673-1	Other, 3994-Article Text-45124-1-18-20211021 AMP.docx	October 25, 2021 Other
 45676-1	Other, Manuscript Review Form.docx	October 25, 2021 Other
 45679-1	Other, Peer Reviewer's conforme.docx	October 25, 2021 Other

Reviewer Guidelines









[Review Guidelines](#)

Review

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For author and editor



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This manuscript is a narrative review, and the manuscript already followed the ICMJE recommendation.



According to ICMJE, narrative reviews may require different formats with less structured or unstructured formats.

But the review form still contain "material and method", "result",

For editor only

Upload

Upload files you would like the editor and/or author to consult, including revised versions of the original review file(s).

Reviewer Files		Search
▶	 48055-1 , Peer review conforme form_Tania.pdf	November 16, 2021
▶	 48058-1 , Manuscript review form_Role of Iron.docx	November 16, 2021

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Select a recommendation and submit the review to complete the process. You must enter a review or upload a file before selecting a recommendation.

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Submissions

Review: *Effects of Iron Accumulation on Dental Caries, Gingivitis, and Candida albicans Infection in Children with Beta Thalassemia Major: A Narrative Review*

- [1. Request](#)
- [2. Guidelines](#)
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- [4. Completion](#)

Review Submitted

Thank you for completing the review of this submission. Your review has been submitted successfully. We appreciate your contribution to the quality of the work that we publish; the editor may contact you again for more information if needed.

Review Discussions

[Add discussion](#)

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