

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 71661

Title: Amniotic membrane transplantation in a patient with impending perforated corneal ulcer caused by Streptococcus mitis: a case report

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04123581

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Taiwan

Manuscript submission date: 2021-09-21

Reviewer chosen by: Xin Liu (Online Science Editor)

Reviewer accepted review: 2021-12-14 01:39

Reviewer performed review: 2021-12-17 10:58

Review time: 3 Days and 9 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

This case report described a patient with persistent corneal ulcer caused by *Streptococcus mitis* infection, who was treated with sensitive antibiotics in combination with AMT, resulting in ulcer healing and better vision. The treatment of *Streptococcus mitis* and the long follow-up time after operation and good vision recovery are the highlights of this paper. There are some issues as follows: 1. Active infection is a contraindication for AMT, so it is not suitable for patients with uncontrolled infective corneal ulcer. This case can be regarded as an AMT performed after the pathogen was completely eliminated 2 weeks after antibiotic administration, which needs to be mentioned in the discussion so as not to mislead readers. 2. Please supplement preoperative OCT images: In Figure 1, the authors showed the slit lamp front segment photograph of the corneal ulcer, but did not provide relevant OCT images of the cornea, so the actual ulcer depth and residual corneal thickness could not be determined. OCT images in FIG. 2 showed that there was no obvious thinning of the cornea at the lesion, so it could be inferred that the residual thickness of the cornea before AMT would not be too thin. It is debatable whether she can be diagnosed as descemetocoele and whether there is a risk of perforation. 3. Corneal persistent ulcer causes more, combined with the patient history, break out repeatedly sexually jealous consider viruses, neurotrophic factors, vancomycin toxicity, ulcer surface deeper cause tears dry coating uneven factors are likely, in AMT can try to stop using vancomycin, preoperative use oil ointment, serum eye drops for conservative treatment. The origin and preservation time of the amniotic membrane are not mentioned. The logic of the treatment is not perfect. There are many reasons for persistent corneal ulcer. In combination with the patient's previous

history of recurrent redness of the eye, viral factors, neurotrophic disorders, vancomycin toxicity, and uneven tear coating due to deep ulcer surface may be considered. Vancomycin can be stopped before AMT, and oil ointment and serum eye drops can be used for conservative treatment. The origin and preservation time of the amniotic membrane are not mentioned. The logic of the treatment is not perfect. 4. Discussion is too thin: the role of AMT in this case is not fully developed. In addition to covering the wound, promoting wound healing, anti-inflammatory, and acting as the basement membrane for epithelial growth, amniotic membrane may also have played a role in avoiding tear coating disorder on ulcer surface and isolating antibiotic toxicity in this case. 5. Please add the latest references: 3/14 is in recent 5 years, 0 is in recent 3 years.

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Peer-review model: Single blind

Reviewer's code: 00503243

Position: Editor-in-Chief

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Taiwan

Manuscript submission date: 2021-09-21

Reviewer chosen by: Xin Liu (Online Science Editor)

Reviewer accepted review: 2021-12-13 15:48

Reviewer performed review: 2021-12-18 13:36

Review time: 4 Days and 21 Hours

Scientific quality	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Very good <input type="radio"/> Grade C: Good <input type="radio"/> Grade D: Fair <input type="radio"/> Grade E: Do not publish
Language quality	<input checked="" type="radio"/> Grade A: Priority publishing <input type="radio"/> Grade B: Minor language polishing <input type="radio"/> Grade C: A great deal of language polishing <input type="radio"/> Grade D: Rejection
Conclusion	<input checked="" type="radio"/> Accept (High priority) <input type="radio"/> Accept (General priority) <input type="radio"/> Minor revision <input type="radio"/> Major revision <input type="radio"/> Rejection
Re-review	<input type="radio"/> Yes <input checked="" type="radio"/> No



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**Peer-reviewer
statements**

Peer-Review: [☐] Anonymous [☒] Onymous

Conflicts-of-Interest: [☐] Yes [☒] No

SPECIFIC COMMENTS TO AUTHORS

This is an excellent case report on the use of Amniotic membrane transplant to cure corneal lesion due to Streptococcus mitis. The manuscript is well written and innovative as it concerns a new method to treat this lesion.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03814168

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Pakistan

Author's Country/Territory: Taiwan

Manuscript submission date: 2021-09-21

Reviewer chosen by: Xin Liu (Online Science Editor)

Reviewer accepted review: 2021-12-17 03:28

Reviewer performed review: 2021-12-20 04:31

Review time: 3 Days and 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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Peer-reviewer statements	Peer-Review: [<input checked="" type="checkbox"/>] Anonymous [<input type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

1. In the abstract author referred to previous clinical case report, which require citation of that report.
2. The conclusion for vision is drawn on 67 months follow-up. It is recommended to include a table and present the vision score by time dependent manner.
3. In the discussion authors need to focus on why AMT graft is successful. A brief mechanism should be discussed.
4. Typo and grammatical errors need corrections.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Taiwan

Manuscript submission date: 2021-09-21

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2022-02-10 05:03

Reviewer performed review: 2022-02-10 05:23

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The biggest defect of this article is that there is no preoperative OCT that can accurately measure the preoperative corneal thickness, and slit lamp cannot accurately evaluate the preoperative corneal thickness, so it is less convincing for the very important visual recovery effect mentioned in this case.