

Letter to the editor: Torpedo Maculopathy: A case series – insights into basic pathology

Baker, Diya; Nur, Intesar

DOI:

[10.1177/1120672120957595](https://doi.org/10.1177/1120672120957595)

License:

Creative Commons: Attribution (CC BY)

Document Version

Publisher's PDF, also known as Version of record

Citation for published version (Harvard):

Baker, D & Nur, I 2020, 'Letter to the editor: Torpedo Maculopathy: A case series – insights into basic pathology', *European Journal of Ophthalmology*, pp. 112067212095759. <https://doi.org/10.1177/1120672120957595>

[Link to publication on Research at Birmingham portal](#)

General rights

Unless a licence is specified above, all rights (including copyright and moral rights) in this document are retained by the authors and/or the copyright holders. The express permission of the copyright holder must be obtained for any use of this material other than for purposes permitted by law.

- Users may freely distribute the URL that is used to identify this publication.
- Users may download and/or print one copy of the publication from the University of Birmingham research portal for the purpose of private study or non-commercial research.
- User may use extracts from the document in line with the concept of 'fair dealing' under the Copyright, Designs and Patents Act 1988 (?)
- Users may not further distribute the material nor use it for the purposes of commercial gain.

Where a licence is displayed above, please note the terms and conditions of the licence govern your use of this document.

When citing, please reference the published version.

Take down policy

While the University of Birmingham exercises care and attention in making items available there are rare occasions when an item has been uploaded in error or has been deemed to be commercially or otherwise sensitive.

If you believe that this is the case for this document, please contact UBIRA@lists.bham.ac.uk providing details and we will remove access to the work immediately and investigate.

Letter to the editor: Torpedo Maculopathy: A case series – insights into basic pathology

Diya Baker¹ and Intesar Nur² 

Keywords

Retinal Detachment, Retinal Pathology / Research, Congenital and Stationary Retinal Disease, Retinal Breaks

Date received: 16 May 2020; accepted: 19 August 2020

Dear Goncalo C Almeida,

This article was absorbing to read and it is fascinating to consider the breadth of mysteries within the macula that we have to elucidate. Upon reading your article, I had a number of comments with which I hoped to gain some clarity.

The study did not detail if there was accumulation of fluid throughout life in the patient cohort studied. Is there any data from your patient cohort regarding this?

Although this goes against the principles of old age leading to type 2, outer retinal cavitation present due to torpedo maculopathy, as stated by Wong et al¹ there could be scope to look into this since despite this principle there is a patient of 37 years old that challenges this principle and is affirmed by the Mesnard et al. study which showed that type 2 is plausible even in young children.²

The question relating to accumulation of fluid throughout life may prove to be true as there has been a case by Su and Gurwood A where it has caused neurosensory retinal detachment.³ This proves the point on the matter that there may be fluid accumulation later in life. A study by Hamm et al. have found that abnormal choroid circulation could be a cause for it.⁴ They too were perplexed by the notion of the **cause, is it** due to a long term dysfunction or a primary change causing it? The paper did show that there is hypo-fluorescence with fundus auto-fluorescence which atrophy or missing RPE as stated. As mentioned in your paper, is that these areas of atrophy give opportunity for fluid accumulation and this could be due to the changes in circulation around the choroid. One of the figures in their study goes to show less vessels in the sub retinal cleft but a higher choroidal vasculature which may be where the fluid could be accumulating from.

Contrastingly, a literature review conducted by Williams et al showed that **it** is more likely to be a

congenital aetiology.⁵ This is due to the study showing that in the 77 cases majority were near the temporal macula and many were very young which is suggestive of an embryological foundation to which the disease is occurring. Long term follow up cases did not note any clinically significant changes suggesting that torpedo maculopathy is a progressive condition is less likely.

Instead, there may be multiple conditions people acquire throughout the ageing process which may be leading to the progressive accumulation of fluid rather than torpedo maculopathy.

A case study in India has shown multifocal central serous chorioretinopathy, the author clearly states this may not be linked to torpedo maculopathy.⁶ The serous fluid build up could be due to different causes and would need to be investigated further but it need not necessarily be the torpedo maculopathy that causes the progressive accumulation of fluid throughout life. Shields C et al has noted that there is a persistent defect in the RPE in the fetal temporal bulge.⁷ This gives more evidence towards a congenital potentially static view of torpedo maculopathy.

Declaration of Conflicting Interests

The author(s) declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

¹Sandwell and West Birmingham Hospitals NHS Trust, Birmingham, UK

²University of Birmingham College of Medical and Dental Sciences, Birmingham, UK

Corresponding author:

Intesar Nur, University of Birmingham College of Medical and Dental Sciences, 58 St Peter's House, Birmingham, B15 2TT, UK.

Email: ixn784@student.bham.ac.uk

European Journal of Ophthalmology
1–2

© The Author(s) 2020



Article reuse guidelines:

sagepub.com/journals-permissions

DOI: 10.1177/1120672120957595


journals.sagepub.com/home/ejo



Funding

The author(s) received no financial support for the research, authorship, and/or publication of this article.

ORCID iD

Intesar Nur  <https://orcid.org/0000-0001-6033-2881>

References

1. Wong E, Fraser-Bell S, Hunyor A, et al. Novel optical coherence tomography classification of torpedo maculopathy. *Clin Exp Ophthalmol* 2014; 43(4): 342–348.
2. Mesnard C, Benzekri R, Chassery M, et al. Ocular manifestations in Congenital Zika syndrome: about a case of torpedo maculopathy. *Am J Ophthalmol Case Rep* 2020; 18: 100626.
3. Su Y and Gurwood A. Neurosensory retinal detachment secondary to torpedo maculopathy. *Optometry* 2010; 81(8): 405–407.
4. Hamm C, Shechtman D and Reynolds S. A deeper look at torpedo maculopathy. *Clin Exp Optom* 2017; 100: 563–568.
5. Williams P, Salek S, Prinzi R, et al. Distribution patterns of torpedo maculopathy: Further evidence of a congenital retinal nerve fiber layer-driven etiology. *Saudi J Ophthalmol* 2019; 33: 260–267.
6. Panigrahi P, Mahapatra M, Minj A, et al. Central serous chorioretinopathy mimicking as choroiditis. *Clin Exp Optom* 2017; 101: 420–421.
7. Shields CL, Guzman JM, Shapiro MJ, et al. Torpedo maculopathy at the site of the fetal “Bulge”. *Arch Ophthalmol* 2010; 128: 499–501.