Reviewer’s report

Title: Transient peripheral edema following displaced corneal graft after Descemet Stripping Automated Endothelial Keratoplasty (DSAEK): Case Report

Version: 1 Date: 29 August 2011

Reviewer: I Dapena

Reviewer’s report:

Dear Editor,

Thank you for your kind invitation to review the case report by Kymionis et al submitted for publication in your Journal.

1. The case described by Kymionis et al is very interesting, especially with regard to the possible pathophysiologic mechanisms related to the spontaneous clearance of the area not covered by the DSAEK graft. Subsequently, the authors are encouraged to focus on that area and the possible clinical impact this might have. Reporting such cases may attribute to further understanding and investigating the “re-endothelialization” process in the host cornea. However, medium revision is required, so that the authors make their article stronger and more useful clinically.

2. Is there any AS-OCT image of the cornea available during follow-up? OCT imaging or Scheimplug imaging of the cornea and the graft would be very informative.

3. What was the initial and what was the final corneal thickness in the area of the displaced DSAEK graft, ie the superonasal meniscus?

4. Were there any ECs found in that area, after it cleared spontaneously?

5. What was the ECD of the donor graft and what was the age of the donor? Could these parameters affect a possible EC migration?

6. Balachandran C. et al (AJO, 2009) initially suggested endothelialization of recipient posterior stroma in the presence of a detached graft, after DMEK. Dirisamer M. et al (AJO, 2011) have described extensively different endothelial healing patterns after DMEK. Re-endothelialization and “homing” may provide a possible explanation also to the case described herein by Kymionis et al. The above mentioned publications might prove helpful to the authors, in order to explain their findings more strongly.

7. Reference #5 does not need to be mentioned both in text and in the references. Please remove the reference in brackets.

8. Reference #8 should be correctly cited.
9. Grammar and structure editing of both the Abstract and the Text is advised.

**Level of interest:** An article of importance in its field

**Quality of written English:** Needs some language corrections before being published

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests