Subretinal fluid bleb after successful scleral buckling for retinal detachment: a case series after 4-5 years

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Purpose
To evaluate the subretinal fluid (SRF) blebs after successful scleral buckling for retinal detachment (RD) and to investigate its presence after 4-5 years and anatomical and functional features.

Methods
12 patients were included in the study. Two patients were lost during the follow up period. All patients included were affected by macula off retinal detachment in absence of other ocular trauma and ocular disease. All patients underwent surgery 4-5 years ago and since January 2015 to June 2015 had a last careful ophthalmological examination, best corrected visual acuity (BCVA), Optical coherence tomography (OCT) and microperimetric assessment.

Results

<table>
<thead>
<tr>
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<th>Visual Acuity</th>
<th>OCT</th>
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<tbody>
<tr>
<td>Post-surgery</td>
<td>7.41/10</td>
<td>276.08 µm</td>
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<tr>
<td>4-5 years FU</td>
<td>7/10</td>
<td>283.9 µm</td>
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Conclusions
Although at the best of our knowledge the pathogenesis is still unknown, we observed that the presence of SRF after scleral buckling for retinal detachment is self limiting and self resolving without any anatomical significant damage. OCT showed the total reabsorption of the subretinal fluid. Visual acuity (BCVA) after 4-5 years of follow up is maintained. Microperimetric assessment showed a loss in sensibility of the macular area but fixation is stable and centered on the anatomical macula.

References

COMMERCIAL RELATIONSHIP: NONE
**Results**

In all of our cases we had not found residual SRF. SRFs were verified by spectral domain OCT in all the cases during the postoperative follow up. BCVA examination and microperimetry revealed a complete recovery of the visual acuity and a restoration of sensibility of the macular field.