Reviewer's report

Title: Corneal melting after collagen cross-linking for Keratoconus. A case report.

Version: 2 Date: 21 October 2010

Reviewer: Albert Daxer

Which of the following best describes what type of case report this is?: Unreported or unusual side effects or adverse interactions involving medications

If other, please specify:

It is not clear whether the indication for treatment was right - the authors should include their decision for treatment. In any case it shows that even CXL can have significant complications and selection regarding the right indication is important. Data regarding the indication in this given case are missing in the manuscript. Also data regarding histological and/or histochemical examinations of the cornea after removal via pKP are missing.

I declare that I have no competing or any financial interest.

Has the case been reported coherently?: No

Is the case report authentic?: Yes

Is the case report ethical?: Yes

Is there any missing information that you think must be added before publication?: Yes

Is this case worth reporting?: Yes

Is the case report persuasive?: Yes

Does the case report have explanatory value?: Yes

Does the case report have diagnostic value?: Yes

Will the case report make a difference to clinical practice?: No

Is the anonymity of the patient protected?: Yes

Comments to authors:

I have several comments:
1st: The indication to perform CXL is progression of keratoconus. Was there a progression of keratoconus in this case and, if yes, how has this progression be diagnosed? The present case gives a good argument that CXL is not always without significant complications, and considering the right indication is important. The presence of keratoconus alone is not a sufficient indication for the CXL treatment.

2nd: Since the case ended up with a pKP, tissue for further investigation has been available. Did the authors do histological and/or immunohistochemical examination on the affected cornea after removal? If not, why not? If yes, which one with which results?

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