Author’s response to reviews

Title: Acute clouding of trifocal lens during implantation: a case report

Authors:
Qian Liu (liuuqian@126.com)
suhua zhang (zhanggsuhua@126.com)
Xiaogang Wang (movie6521@163.com)
Weifang Cao (cwf20170624@126.com)
Yading Jia (yadingjia@163.com)

Version: 2 Date: 03 Nov 2017

Author’s response to reviews:

Passara Jongkhajornpong (Reviewer 1): The authors added all necessary information that I have commented. There are 2 points that worth for discussion.

1. page 7 line2: the author stated that "The surface of this trifocal IOL is made of hydrophobic acrylic, and the opacification appeared immediately after implantation, which may not cause any chemical, mechanical, or geometric change to the IOL polymer." This is a bit weak assumption and should be supported by stronger evidence. In addition, the author should hypothesize possible mechanism that causes this phenomenon.

Thanks for the advise.

As we described in the text before this sentence, "As Yu AK reported, the pseudocataracts occurred spontaneously due to calcium and phosphate accumulation, which resulted in hydroxyapatite crystal formation14."And all of this phenomenon reported happened in IOLs made of hydrophilic acrylic. So we made the assumption that the IOL acute opacification should not be caused as the reason above-mentiond because that the surface of this trifocal IOL is made of hydrophobic acrylic and this phenomenon happens immediately after implantation.
This phenomenon highlights the effect of temperature on this IOL.

We expect more studies would be carried out to confirm this finding.

2. In conclusion section: "The acute intraoperative clouding of trifocal lens (AT LISA tri 839mp) results from fluctuation of temperature should be noticed especially in cold countries or winter." This sentence is ungrammatical and should be re-arranged. Moreover, they should add clinical application data regarding how to solve this problem that will certainly give benefit to the readers.

Thank you for your comments. we made the corresponding change of this part. Check them please.

The acute intraoperative clouding of trifocal lens (AT LISA tri 839mp) resulted from fluctuation of temperature and this phenomenon should be noticed during winter in cold countries. Therefore, we suggest that the IOL's temperature should be kept in normal range as manufacture's guideline requested before implantation. This may avoid IOL acute clouding resulting from lower temperature during implantation.