



Effective Health Care Treatments for Cataract Nomination Summary Document

Results of Topic Selection Process & Next Steps

- Treatments for cataract was found to be addressed by existing or in-process reviews conducted by the Cochrane Eyes and Vision Group and the Ontario Health Technology Assessment Series. Given that the existing work covers this nomination, no further activity will be undertaken on this topic.
 - The work of the Cochrane Eyes and Vision Group can be found at: <http://eyes.cochrane.org/>. Relevant reports include:
 - Riaz Y, Mehta JS, Wormald R, Evans JR, Foster A, Ravilla T, Snelling T. Surgical interventions for age-related cataract. Cochrane Database of Systematic Reviews 2006, Issue 4. Art. No.: CD001323. DOI: 10.1002/14651858.CD001323.pub2. Available at: <http://onlinelibrary.wiley.com/o/cochrane/clsysrev/articles/CD001323/frame.html>. This report is currently in the process of being updated.
 - Findl O, Buehl W, Bauer P, Sycha T. Interventions for preventing posterior capsule opacification. Cochrane Database of Systematic Reviews 2010, Issue 2. Art. No.: CD003738. DOI: 10.1002/14651858.CD003738.pub3. Available at: <http://onlinelibrary.wiley.com/o/cochrane/clsysrev/articles/CD003738/frame.html>.
 - Medical Advisory Secretariat. Intraocular lenses for the treatment of age-related cataracts: an evidence-based analysis. Ontario Health Technology Assessment Series 2009;9(15). Available at: http://www.health.gov.on.ca/english/providers/program/mas/tech/reviews/pdf/rev_cataract_200909_29.pdf.
 - This topic could potentially be considered for new research projects within the Effective Health Care (EHC) Program.

Topic Description

Nominator: Anonymous individual

Nomination Summary: The nominator is interested in a 'comparison of different methods of cataract surgeries, including laser surgery (such as using the LensAR Laser System which was cleared by the FDA in May of 2010)'. The nominator also suggests a 'comparison of different type of intraocular lenses, including presbyopic IOLs and IOLs with aspheric optical profiles'.

Staff-Generated PICO

Population: Patients with age-related cataract

Interventions: Surgery to remove cataract and insert intraocular lens; method of

cataract surgery (phacoemulsification, standard extracapsular cataract extraction (ECCE), and manual small incision cataract surgery (MSICS)); medical device used to perform procedure (LensAR); and intraocular lens types (presbyopic, aspherical)
Comparators: Other surgical methods, devices, and lens types
Outcomes: Improved vision, quality of life

Key Questions

from Nominator: None

Considerations

- The topic meets EHC Program appropriateness and importance criteria. (For more information, see <http://effectivehealthcare.ahrq.gov/index.cfm/submit-a-suggestion-for-research/how-are-research-topics-chosen/>.)
- This topic was found to be addressed by existing or in-process reviews, including:
 - A 2006 review by the Cochrane Eyes and Vision Group titled *Surgical interventions for age-related cataract*. This review includes literature on four main forms of cataract extraction surgery: intracapsular (ICCE), extracapsular (ECCE), phacoemulsification (PHACO), and manual small incision (MSICS).
 - A 2010 review by the Cochrane Eyes and Vision Group titled *Interventions for preventing posterior capsule opacification*. This review compared materials and designs to measures of posterior capsule opacification.
 - Other relevant proposed or in-process reviews by the Cochrane Eyes and Vision Group include *Toric intraocular lenses vs. relieving incisions for astigmatism correction in cataract surgery*; *Accommodative IOLs vs. monofocal IOLs after cataract surgery*; *Multifocal vs. accommodating lens after cataract surgery*; and *Aspheric vs. spherical IOLs after cataract extraction*.
 - A 2009 review in the Ontario Health Technology Assessment Series titled *Intraocular lenses for the treatment of age-related cataracts*. This review addressed the following comparisons: multifocal vs. monofocal, accommodative vs. multifocal/monofocal, hydrophilic acrylic vs. other materials, sharp edged vs. round edged, one piece vs. three piece vs. silicone, hydrophobic acrylic vs. aspherical modified prolate anterior surface compared to spherical, blue light filtering compared to non blue-light filtering.
- Potential new research on this topic could use a registry to look at outcomes related to type of lenses used in cataract surgery.