

# Development of A Novel Decision Aid for Informed Decision-Making of Intraocular Lens Types in Patients Undergoing Cataract Surgery

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## Abstract

**Abstract** Objective Surgery is the main treatment of visual loss related to cataracts. There are multiple intraocular lens (IOL) options with certain advantages. Patient education on IOL types is necessary to achieve a successful shared decision making process and meet the expectations of the individual patient. Decision aids (DAs) are used for patient education and we developed a novel DA to assist patients during IOL type selection for their cataract surgery. **Methods** The Ottawa Personal Decision Guide and the ‘Workbook on Developing and Evaluating Patient Decision Aids’ were used in the development of this DA. General characteristics of cataracts, surgical treatment, and details including advantages and disadvantages of varying IOLs were included in the content of the DA. The DA was further evaluated by 3 physicians (Delphi assessment- International Patient Decision Aid Standards (IPDAS) Collaboration standards) and 25 patients (questionnaire of 6 questions with Five-point Likert scale). **Results** The DA was finalized with feedbacks from the experts. A total score of 50/54 was achieved in Delphi group assessment. Patient perception of the DA was favorable and patients also recommended its use by other patients. **Conclusions** This novel DA to assist IOL selection for cataract surgery was well accepted by the patients. There is a potential to improve patients’ level of knowledge and diminish decisional conflicts. This potential can also increase patients’ contribution on the shared decision making process. A further prospective randomized trial to compare with the standard patient informing process is also planned.

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