Health Quality Ontario

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Retinal Prosthesis System for Advanced Retinitis Pigmentosa: OHTAC Recommendation

ONTARIO HEALTH TECHNOLOGY ADVISORY COMMITTEE RECOMMENDATION

• The Ontario Health Technology Advisory Committee recommends publicly funding the Argus II retinal prosthesis system for advanced retinitis pigmentosa

RATIONALE FOR THE RECOMMENDATION

Members of the Ontario Health Technology Advisory Committee determined that the Argus II system has demonstrated clinical effectiveness in restoring partial functional vision for patients with advanced retinitis pigmentosa. The Ontario Health Technology Advisory Committee took into account value for money, as well as the lived experience of people with retinitis pigmentosa and noted that the Argus II system offers the possibility of quality-of-life improvements in a population for whom there is no other treatment option.¹



Decision Determinants for the Retinal Prosthesis System for Advanced Retinitis **Pigmentosa**

| Decision Criteria | Subcriteria | Decision Determinants Considerations |
|---|--|--|
| Overall clinical benefit How likely is the health technology/intervention to result in high, moderate, or low overall benefit? | Effectiveness How effective is the health technology/intervention likely to be (taking into account any variability)? | Compared with residual vision, the Argus II retinal prosthesis system improved visual function (GRADE moderate), functional outcomes (GRADE moderate), and quality of life (GRADE low to moderate) in patients with advanced retinitis pigmentosa |
| | Safety How safe is the health technology/intervention likely to be? | The Argus II system has an improved safety profile as a result of updated device design and new surgical techniques |
| | Burden of illness What is the likely size of the burden of illness pertaining to this health technology/intervention? | Approximately 4,000 patients in Ontario have some form of retinitis pigmentosa, but only those at the advanced stage (<1%) would be eligible for the Argus II system in Ontario |
| | Need How large is the need for this health technology/intervention? | The Argus II system is the only existing surgical implantable device to restore partial functional vision in patients with advanced retinitis pigmentosa |
| Consistency with expected societal and ethical values ^a How likely is adoption of the health technology/intervention to be congruent with societal and ethical values? | Societal values How likely is adoption of the health technology/intervention to be congruent | The adoption of the Argus II system is likely to be congruent with expected societal and ethical values |
| | with expected societal values? | |
| | Ethical values How likely is adoption of the health technology/intervention to be congruent with expected ethical values? | |
| Value for money | Economic evaluation | The Argus II system would be cost-effective |
| How efficient is the health technology/ intervention likely to be? | How efficient is the health technology/intervention likely to be? | compared with standard care if the willingness to pay was greater than \$97,429 per QALY gained |
| Feasibility of adoption into health system | Economic feasibility How economically feasible is the health technology/intervention? | Assuming four Argus II implants per year, the budget required for the next 5 years was estimated at \$0.71 to \$0.78 million per year |
| How feasible is it to adopt the health technology/intervention into the Ontario health care system? | Organizational feasibility How organizationally feasible is it to implement the health technology/intervention? | The University Health Network has assembled a specialized team that can perform the Argus II implant surgery and provide the requisite screening, follow-up, visual training, and rehabilitation |

Abbreviations: GRADE, Grading of Recommendations Assessment, Development, and Evaluation; QALY, quality-adjusted life-year. ^aThe anticipated or assumed common ethical and societal values held in regard to the target condition, target population, and/or treatment options. Unless there is evidence from scientific sources to corroborate the true nature of the ethical and societal values, the expected values are considered.

REFERENCE

 Health Quality Ontario. Retinal prosthesis system for advanced retinitis pigmentosa: a health technology assessment update. Ont Health Technol Assess Ser [Internet]. 2017 Nov;17(13):1-62. Available from: <u>http://www.hqontario.ca/evidence-to-improvecare/journal-ontario-health-technology-assessment-series</u>

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Citation

Health Quality Ontario. Retinal prosthesis system for advanced retinitis pigmentosa: OHTAC recommendation [Internet]. Toronto (ON): Queen's Printer for Ontario; 2017 November. 3 p. Available from: <u>http://www.hqontario.ca/evidence-to-improve-care/recommendations-and-reports/OHTAC/retinal-prosthesis-system</u>