

Gold Micro-Shunt Implant for Reduction of IOP: Two-year Results

Purpose: To evaluate the implantation, biocompatibility and IOP lowering effect of a gold micro-shunt implant.

Methods: In a 2-site, prospective clinical study, 76 eyes were implanted with a gold micro-shunt to facilitate uveoscleral outflow and reduce IOP. The gold micro-shunt (GMS Gold Micro-Shunt, SOLX, Boston, MA) was implanted through a 3-mm, partial depth scleral incision to provide a pathway for aqueous flow from the anterior chamber to the suprachoroidal space. Patients were followed at regular intervals for 2 years for monitoring of IOP, reduction in number of pressure-lowering medications and complications.

Results: From an average pre-operative IOP of 27.7 ± 5.9 mmHg, the mean IOP in 50/76 eyes at 1 year was 19.7 ± 7.9 ; and in 18/76 eyes at 2 years was 17.4 ± 3.3 mmHg.

Conclusions: The gold micro-shunt provides good IOP reduction with only minor and infrequent complications. In addition, the biocompatibility of the gold made the device well tolerated by the eye.

Financial Disclosures:

None

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