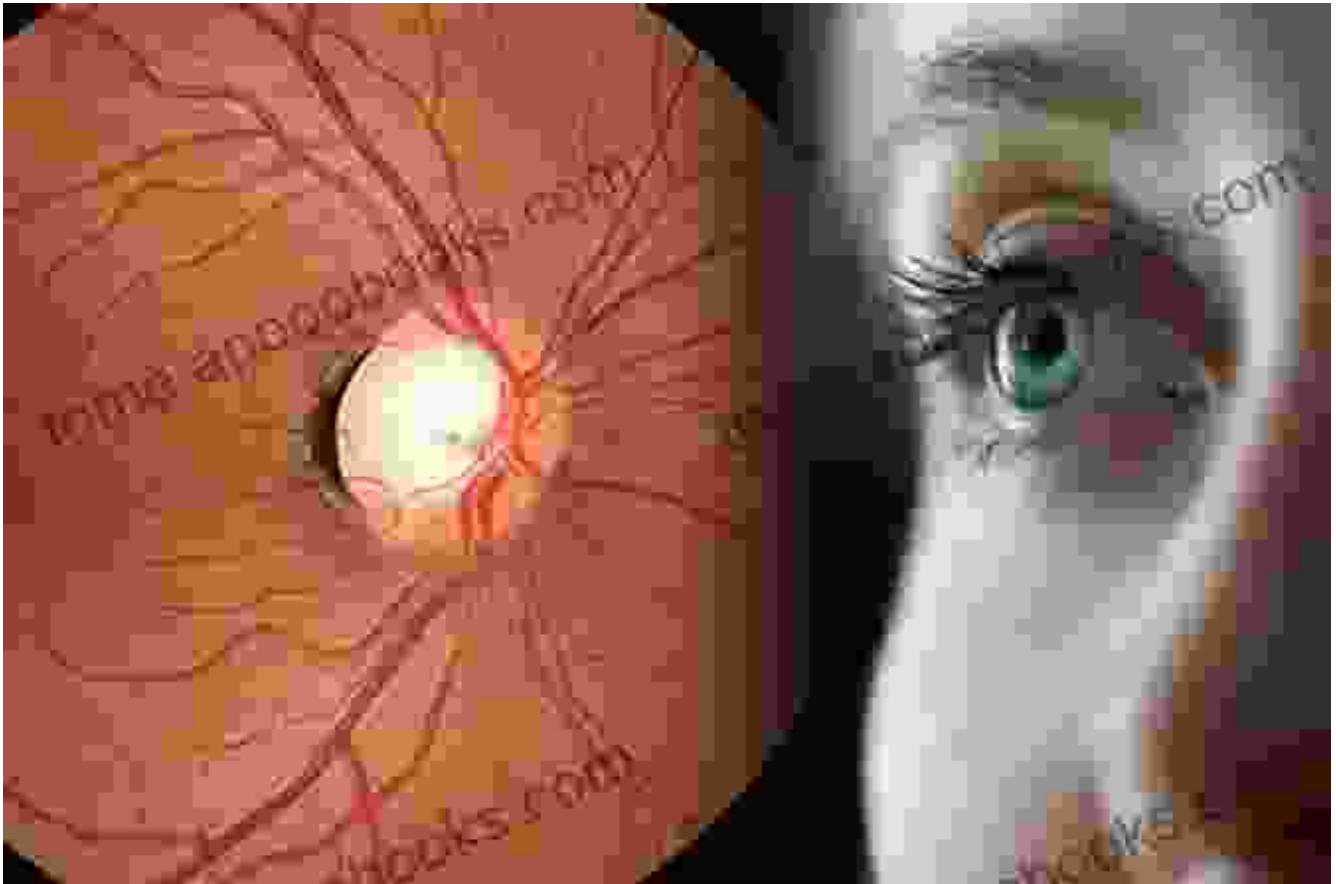


Minimally Invasive Glaucoma Surgery: The Visionary Breakthrough by Avesta Alani

Glaucoma: A Silent Threat to Vision



Glaucoma, a serious eye condition, affects millions worldwide. This disease results from increased pressure within the eye, known as intraocular pressure (IOP). Elevated IOP damages the delicate optic nerve, responsible for transmitting visual information to the brain. Over time, this damage leads to irreversible vision loss if left untreated.

Minimally Invasive Glaucoma Surgery by Avesta Alani

★★★★★ 5 out of 5

Language : English



File size : 37408 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 295 pages



Traditional Glaucoma Surgery: Limitations and Drawbacks

Traditionally, glaucoma has been treated with invasive surgical procedures, such as trabeculectomy, which involves creating a hole in the eye's outer wall to drain excess fluid. While these surgeries can be effective in lowering IOP, they often come with significant complications, including:

- Scarring and inflammation
- Infection
- Cataract formation
- Hypotony (excessively low IOP)

The Revolutionary Minimally Invasive Glaucoma Surgery (MIGS)

In a major leap forward, Avesta Alani has pioneered a revolutionary technique known as Minimally Invasive Glaucoma Surgery (MIGS). MIGS offers a game-changing approach to glaucoma treatment, addressing the limitations of traditional surgeries while preserving the integrity of the eye.

MIGS utilizes microscopic incisions and specialized instruments to perform intricate procedures within the eye. These surgeries can be performed in

conjunction with cataract surgery or as standalone procedures. Unlike traditional surgeries, MIGS preserves the conjunctiva (the clear membrane covering the eye) and avoids creating holes in the outer wall.

Benefits of Minimally Invasive Glaucoma Surgery

MIGS offers numerous advantages over traditional glaucoma surgeries, including:

- **Faster recovery time:** MIGS typically has a shorter recovery period compared to traditional surgeries, allowing patients to resume their daily activities sooner.
- **Reduced risk of complications:** The smaller incisions and less invasive nature of MIGS significantly reduce the risk of scarring, infection, and other complications.
- **Preservation of ocular structures:** MIGS preserves the conjunctiva and avoids compromising the eye's structural integrity, minimizing the potential for long-term damage.
- **Lower IOP:** MIGS effectively lowers IOP, providing long-term control of glaucoma and preventing further nerve damage.

Types of Minimally Invasive Glaucoma Surgeries

Various types of MIGS procedures have been developed to address different types of glaucoma:

- **Trabectome:** This procedure targets the trabecular meshwork, a structure responsible for draining fluid from the eye, removing blockages to improve outflow.

- **iStent:** A tiny shunt device is implanted to create a new pathway for fluid drainage.
- **Glaukos Trabectome:** A combination of trabeculectomy and trabectome, combining the benefits of both techniques.

Who is a Candidate for MIGS?

MIGS is suitable for individuals with:

- Mild to moderate glaucoma
- Patients looking to minimize surgical invasiveness
- Those at high risk for complications from traditional surgeries
- Patients with concurrent cataracts that require surgery

The Future of Glaucoma Surgery

Minimally Invasive Glaucoma Surgery represents a transformative advancement in the treatment of glaucoma. By offering a less invasive, safer, and more effective alternative to traditional surgeries, MIGS has revolutionized the field of ophthalmology.

As research and innovation continue, we can anticipate further refinements and advancements in MIGS techniques, further enhancing the quality of life for individuals affected by glaucoma.

Avesta Alani's Minimally Invasive Glaucoma Surgery is a groundbreaking technique that has empowered ophthalmologists with a powerful tool to combat glaucoma. By offering hope for preserving vision and improving the

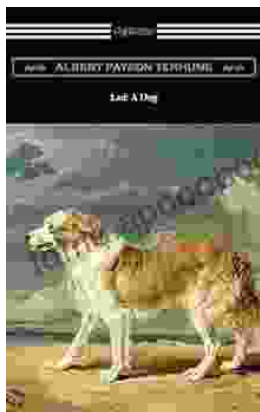
lives of countless individuals, MIGS has emerged as a true game-changer in the field of eye care.



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