STREAMLINED AND EFFICIENT **COLLECTION, ORDERING, & RESULTS**

AvaGen[™]—PROVIDING A RANGE OF CLINICAL APPLICATIONS

Keratoconus Risk (KC): Risk assessment of suspect or asymptomatic patients enables early sight-saving interventions and informed surgical decisions.

Corneal Cross-Linking: Inform confident, personalized, and early clinical decisions.

Refractive Surgery Optimization: Identify KC risk and/or corneal dystrophy presence informs LASIK, PRK, and surgical decisions.

Refractive Surgery Complications: Diagnose of corneal dystrophy when managing post-surgical corneal ectasia or assessing KC risk in undetected misses.

Specialty Contact Lens (SCL): Understand KC risk to evaluate non-performing SCL patients and inform SCL treatment decisions.

Young Myopes: Inform SCL and other therapeutic decisions in young myopes and others with progressive myopia.

Astigmatism: Inform management and therapeutic decisions for high, irregular, against-the-rule, and progressive astigmatism.

Families: Test family members of KC patients helps with early intervention.

AVELLINO DELIVERS COMPREHENSIVE TESTING MANAGEMENT AND SUPPORT.

- **1. Collect DNA Sample:** A fast, easy, in-office buccal (cheek) swab is used to collect a sample.
- **2. Ship:** Sample is sent to Avellino for analysis.
- **3. Digital Report:** AvaGen[™] reports are uploaded to HIPAA-compliant portal.
- **4. Evaluation Support On Request:** Genetic counselors are available to provide understanding of the genetic test result to patients and implications to family members.

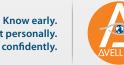


Empowers eyecare professionals with personalized, objective, pre-symptomatic patient data, enabling confident early treatment decisions to protect and preserve vision for patients and families.

For information on the AvaGen[™] genetic eye test, please visit:

Avellino.com/avagen

Decide confidently





GENES ARE TALKING.

WE'LL HELP YOU LISTEN.

KNOW THE RISK OF KERATOCONUS AND PRESENCE OF CORNEAL DYSTROPHIES.

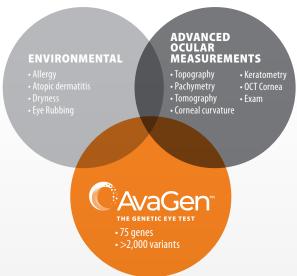
AvaGen[™] confidently empowers eyecare professionals with personalized patient genetic data to protect and preserve vision.



THE AvaGen™ GENETIC EYE TEST EMPOWERING A HIGHER LEVEL OF PERSONALIZED, TARGETED EYECARE

The groundbreaking AvaGen™ genetic eye test leverages powerful genetic information to provide eyecare professionals with an early and accurate understanding of keratoconus risk, and the presence of TGFBI gene related corneal dystrophies. By delivering these insights in both asymptomatic and suspected patients, AvaGen™ enables new opportunities for proactive sight-saving interventions and confident surgical decisions.

Assessing keratoconus is multi-factorial.
Until now, genetic data has been missing from the equation.



AvaGen[™] is:

- PERSONALIZED: A fast and easy cheek swab sample is used to measure and assess keratoconus risk, and report the presence of TGFBI corneal dystrophies.
- **PRECISE:** Objective, quantitative genetic data reliably guides confident management and treatment decisions.
- **PROACTIVE:** Enables early, proactive assessment and actions not possible using reactive historical methods used after onset of symptoms.

POWERED BY NEXT-GENERATION SEQUENCING

AvaGen™ ANALYZES:

- 75 keratoconus-related genes and over 2,000 variants to inform early and accurate management decisions.
- TGFBI gene and 70 TGFBI variants related to corneal dystrophies to provide a definitive diagnosis of subtypes of corneal dystrophies:
- Epithelial Basement Membrane
- Lattice Type IIIA

Granular Type 1

Reis-Bucklers

Granular Type 2 (Avellino)

Schnyder

Lattice Type 1

Theil-Behnke







Related Gene Variants







EASY-TO-UNDERSTAND, ACTIONABLE RESULTS

AvaGen™ TEST RESULTS ARE ORGANIZED INTO THREE CLEAR AND COMPLETE SECTIONS:

1

Patient and order information

2

Keratoconus risk assessment

- Polygenic risk score low, medium, and high
- Relevant variant analysis
- Detailed variant interpretation

3

Corneal dystrophy detection

- Definitive diagnosis of subtypes of corneal dystrophies
- If corneal dystrophies confirmed, report includes:
 - Relevant variant analysis
- Detailed variant interpretation

