



Genova
21 Aprile 2012



*Fabiana Causio
Alfa Intes Srl*

HORIZON DSAEK SYSTEM

AUTHOMATED



DISPOSABLE



PRECISE



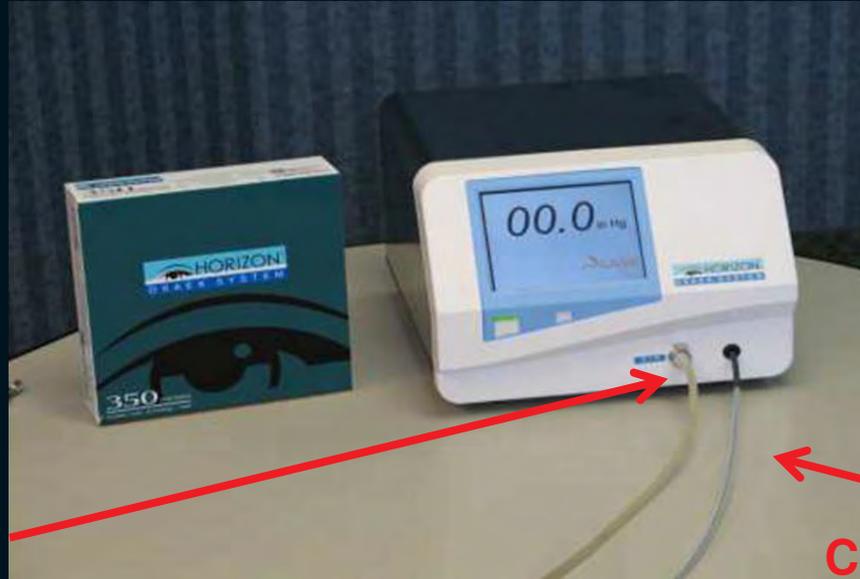
CONFIGURAZIONE

1. CONSOLLE + PEDALI
2. CAMERA ARTIFICIALE
3. LAMA PRECALIBRATA

Genova, Congresso SIBO – 21 Aprile 2012

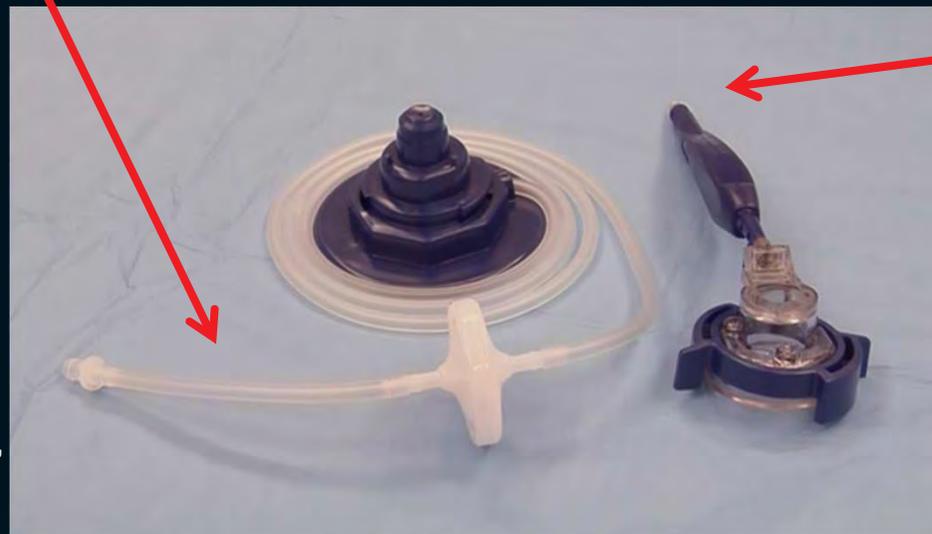


CONFIGURAZIONE



**COLLEGAMENTO
CAMERA
ARTIFICIALE**

**COLEGAMENTO
LAMA**



Genova,

**HORIZON™
SYSTEM**

CONFIGURAZIONE



220V

PEDALE
AVANTI
INDIETRO

PEDALE
VACUUM



Genova,

HORIZON™
SYSTEM

HORIZON DSAEK SYSTEM



Demonstration by
Scott A. Wagenberg, M.D.
Chief of Corneal Surgery
Hillcrest Hospital / Cleveland Clinic

Genova, Congresso SIBO – 21 Aprile 2012



LAMA PRECALIBRATA

PROFONDITA' DI TAGLIO REGOLABILE

AAC350 – 350 μ m

AAC400 – 400 μ m

AAC450 – 450 μ m



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DISPOSABLE

CAMERA ARTIFICIALE E LAMA TOTALMENTE DISPOSABLE

Tutto quello che è necessario per la
preparazione del lembo è **DISPOSABLE**
per garantire sempre

- Sicurezza
- Affidabilità

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RIPETIBILITA' ESTREMA

Nella preparazione del lembo la tecnologia Horizon è estremamente ripetibile

- **REGOLAZIONE AUTOMATICA DELLA PRESSIONE** all'interno della camera artificiale
- **AVANZAMENTO AUTOMATICO DELLA LAMA** durante il taglio

REGOLAZIONE IOP

La IOP in camera artificiale è mantenuta tramite **ARIA** e non acqua.

La pressione interna varia tra **23,5mmHg e 28,5mmHg**

La pressione è **REGOLATA AUTOMATICAMENTE** dalla consolle grazie ad una **VALVOLA PNEUMATICA** dedicata.

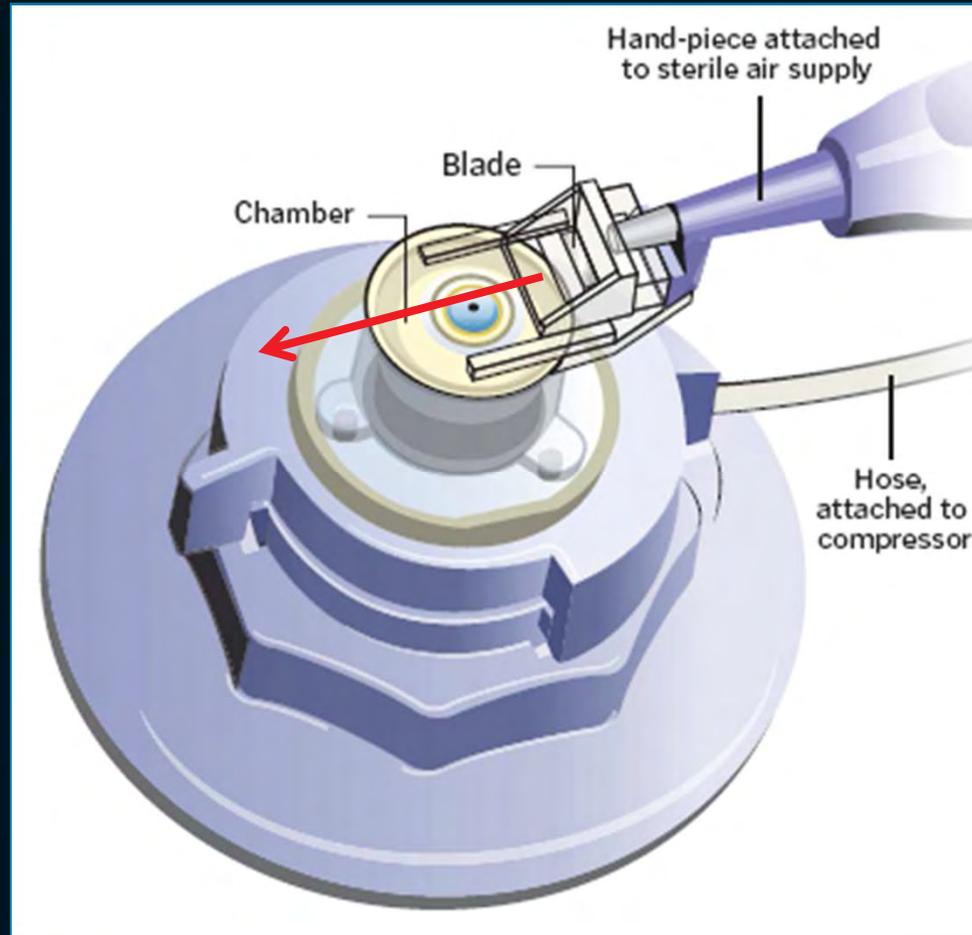
AVANZAMENTO AUTOMATICO

La lama durante il taglio effettua

- **AVANZAMENTO LONGITUDINALE** guidato all'interno dei binari
- **OSCILLAZIONI TRASVERSALI** al movimento di avanzamento per creare un'interfaccia omogenea

AVANZAMENTO AUTOMATICO

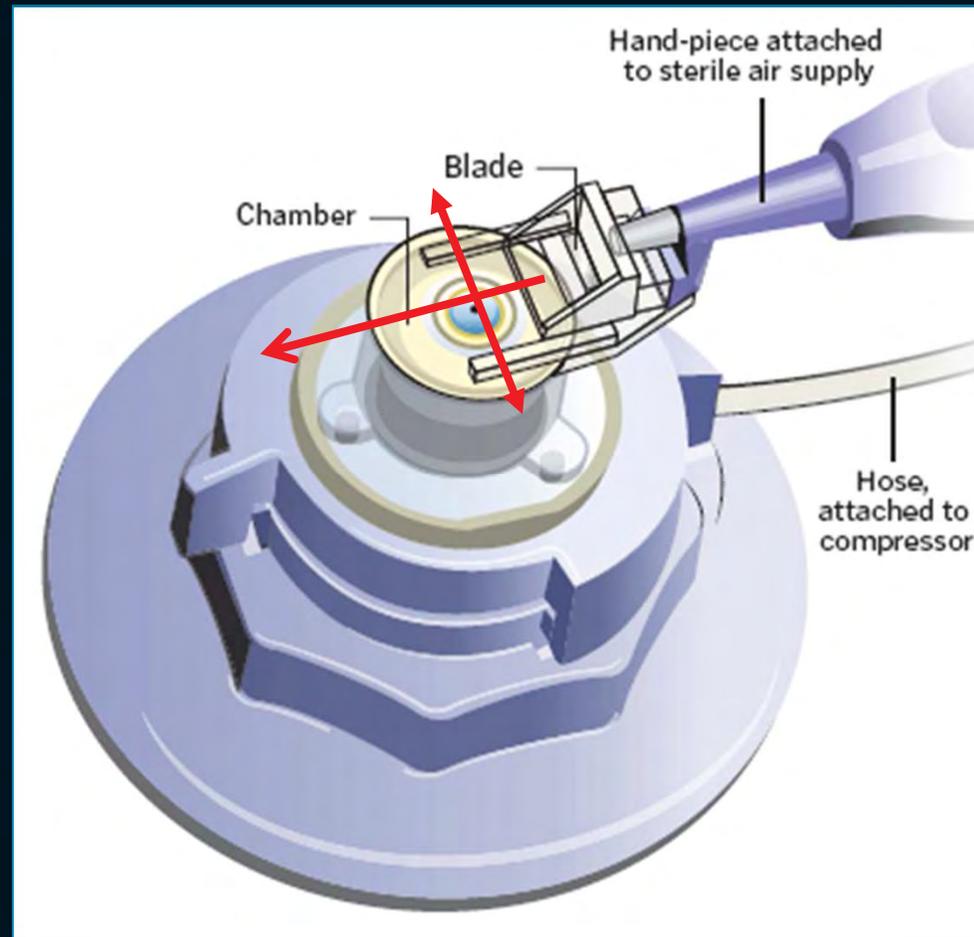
AVANZAMENTO LONGITUDINALE



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AVANZAMENTO AUTOMATICO

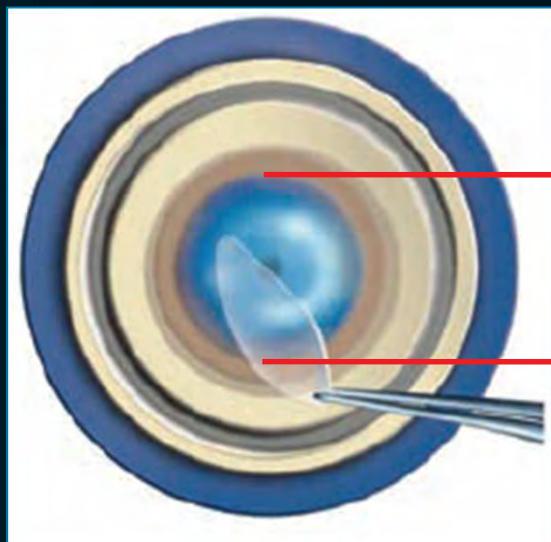
OSCILLAZIONE TRASVERSALE



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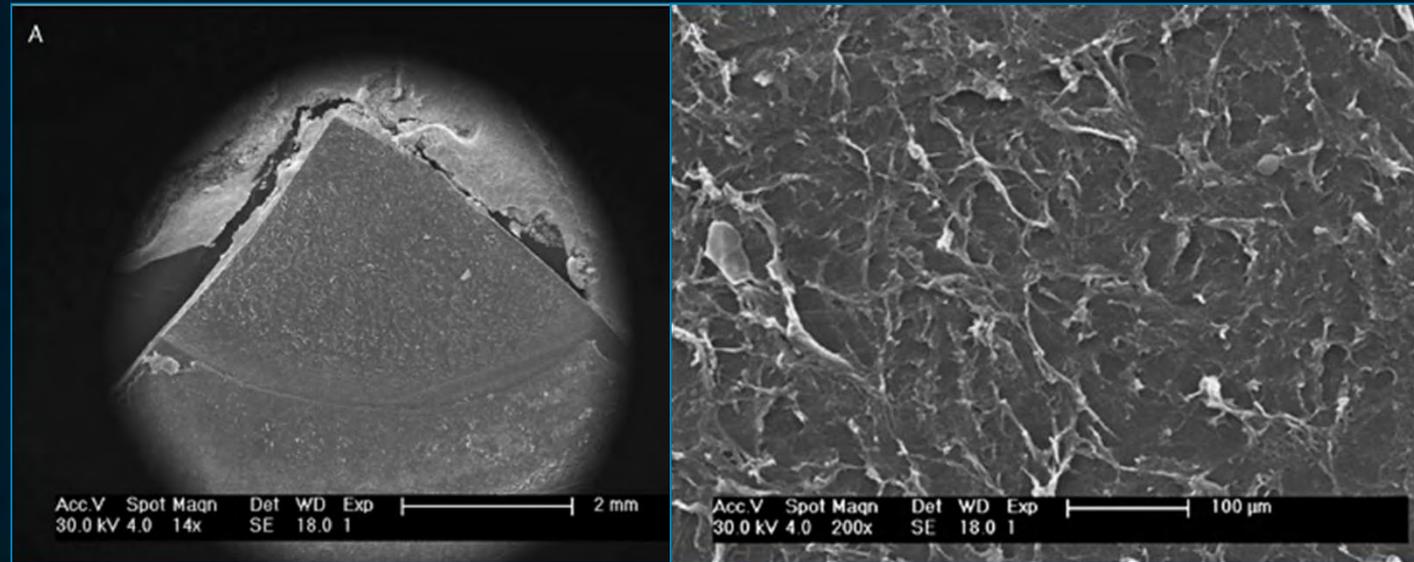
AMPIEZZA DI TAGLIO

AMPIEZZA DI TAGLIO SUPERIORE



> 10.0 mm

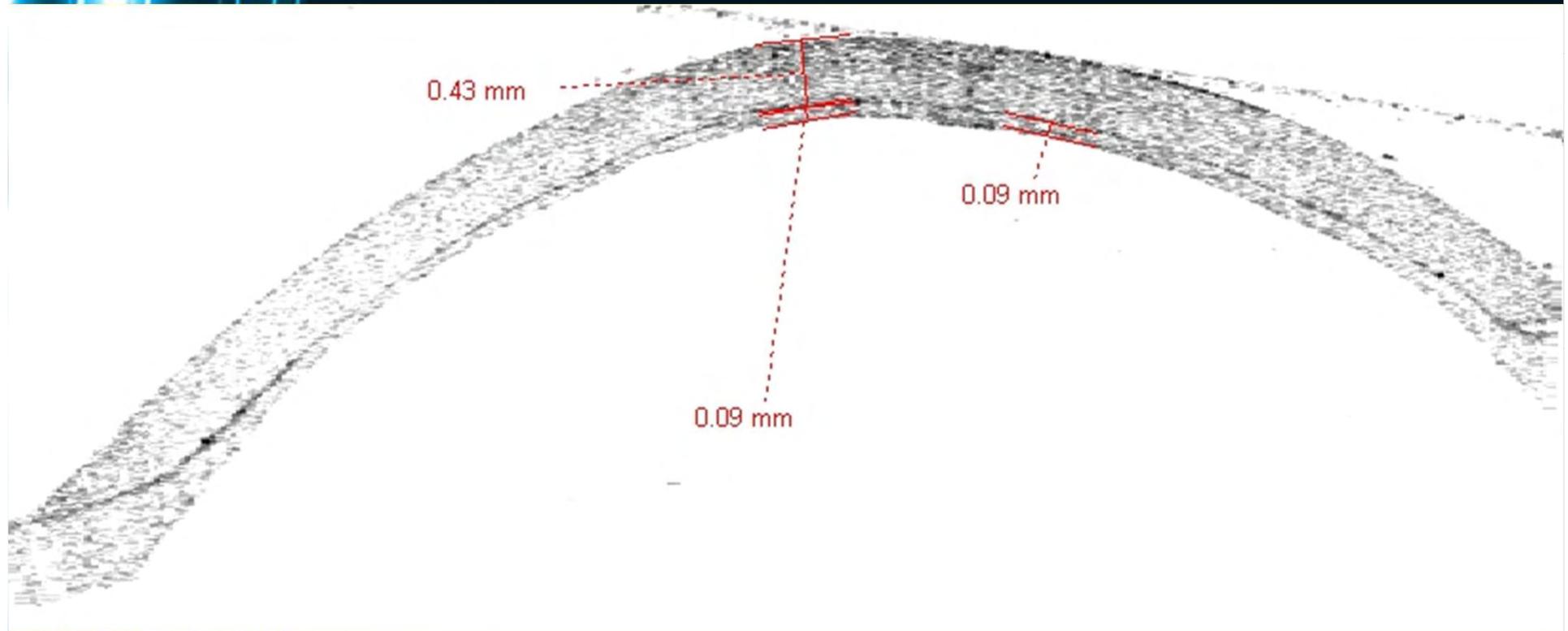
CONFRONTO



Cornea 2010, Comparative Study of DSAEK Donor Preparation by Moria CBm Microkeratome, Horizon Microkeratome, and Intralase FS60, Mootha et al.

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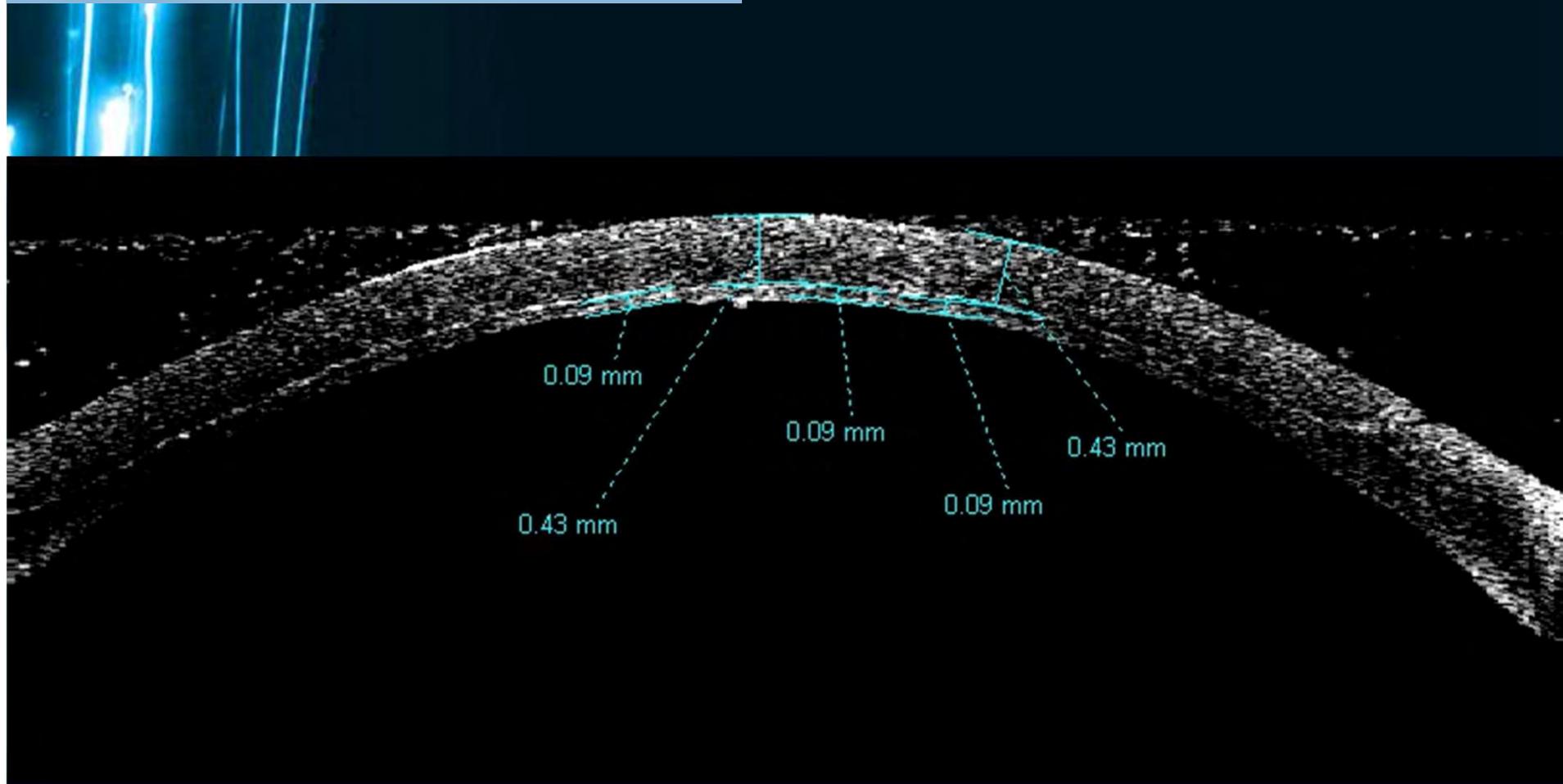
OCT TD LAMELLA



Courtesy of Dr.ssa. Raffaella Mistò,
Banca degli Occhi di Monza

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OCT TD LAMELLA



Courtesy of Dr.ssa. Raffaella Mistò,
Banca degli Occhi di Monza

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OCT INTRAOPERATORIO

OCT SPECTRAL DOMAIN INTRAOPERATORIO

Risoluzione 4-5 μm

- RETINA
- GLAUCOMA
- CORNEA



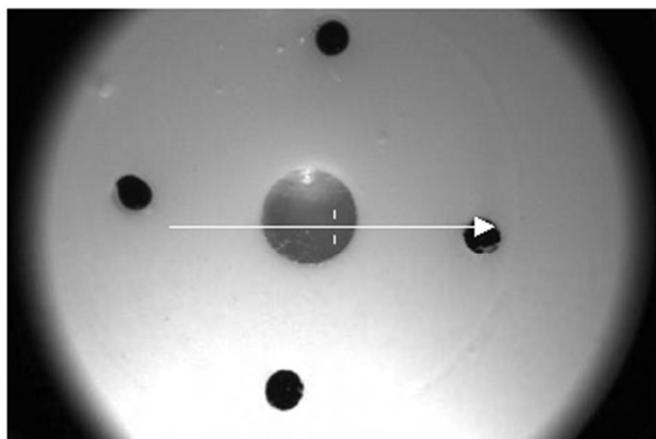
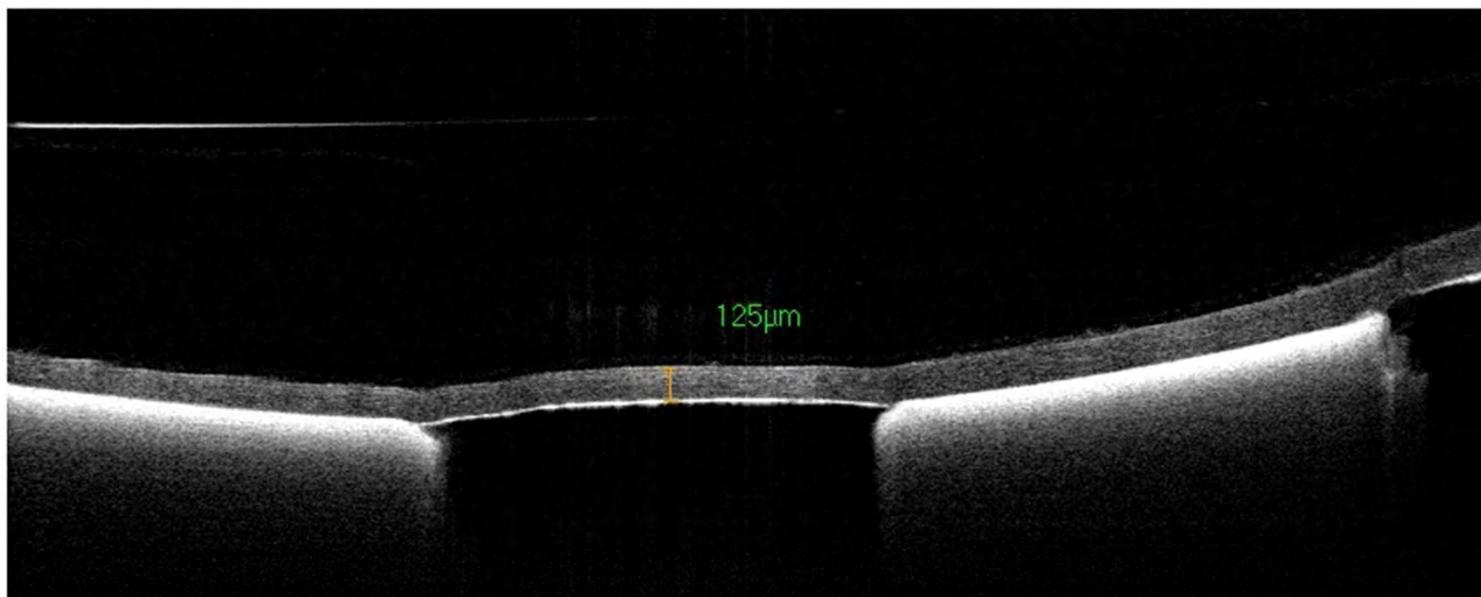
OCT SD LAMELLA

Courtesy of :
Dr. G. Sciuto, Ospedale Carlo Poma di Mantova,
Dr. R. Ceccuzzi, Banca degli occhi di Pavia

Cornea Angle

Scan Quality Index **Good 77**

Right / OD



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Comment

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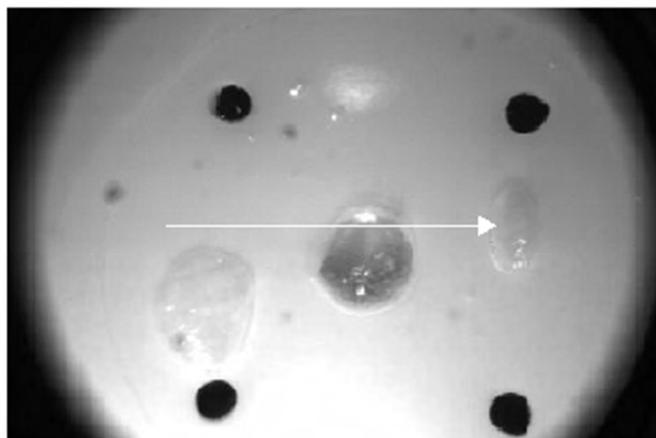
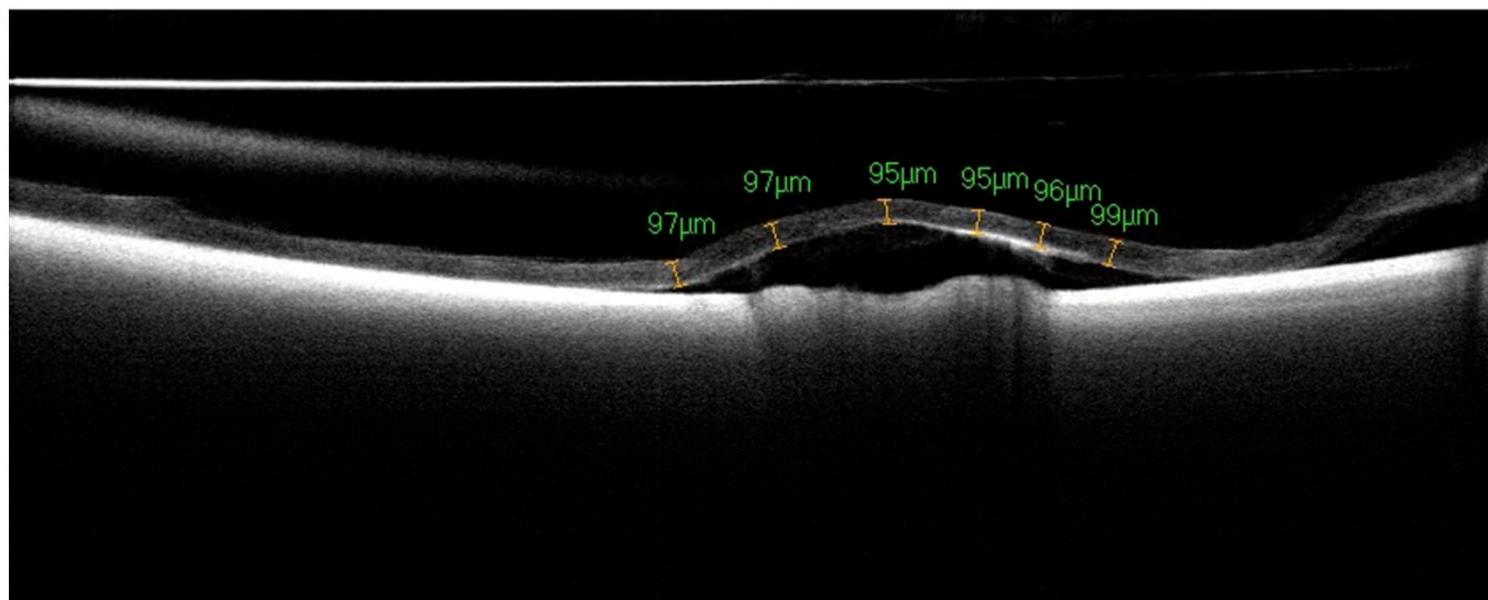
OCT SD LAMELLA

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Dr. R. Ceccuzzi, Banca degli occhi di Pavia

Cornea Angle

Scan Quality Index **Good 79**

Right / OD



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Comment

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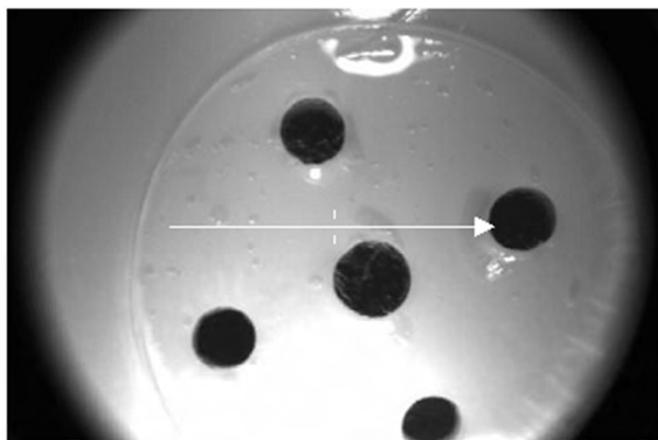
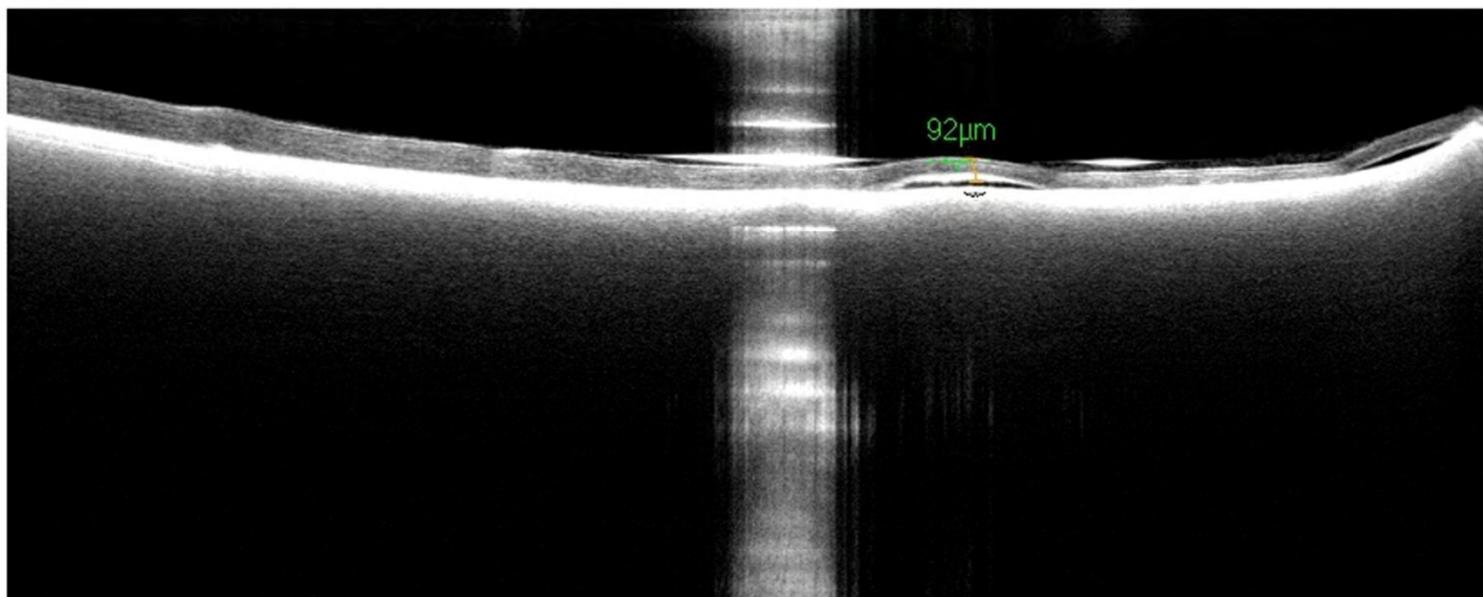
OCT SD LAMELLA

Courtesy of :
Dr. G. Sciuto, Ospedale Carlo Poma di Mantova,
Dr. R. Ceccuzzi, Banca degli occhi di Pavia

Cornea Angle

Scan Quality Index **Good 109**

Right / OD



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Comment

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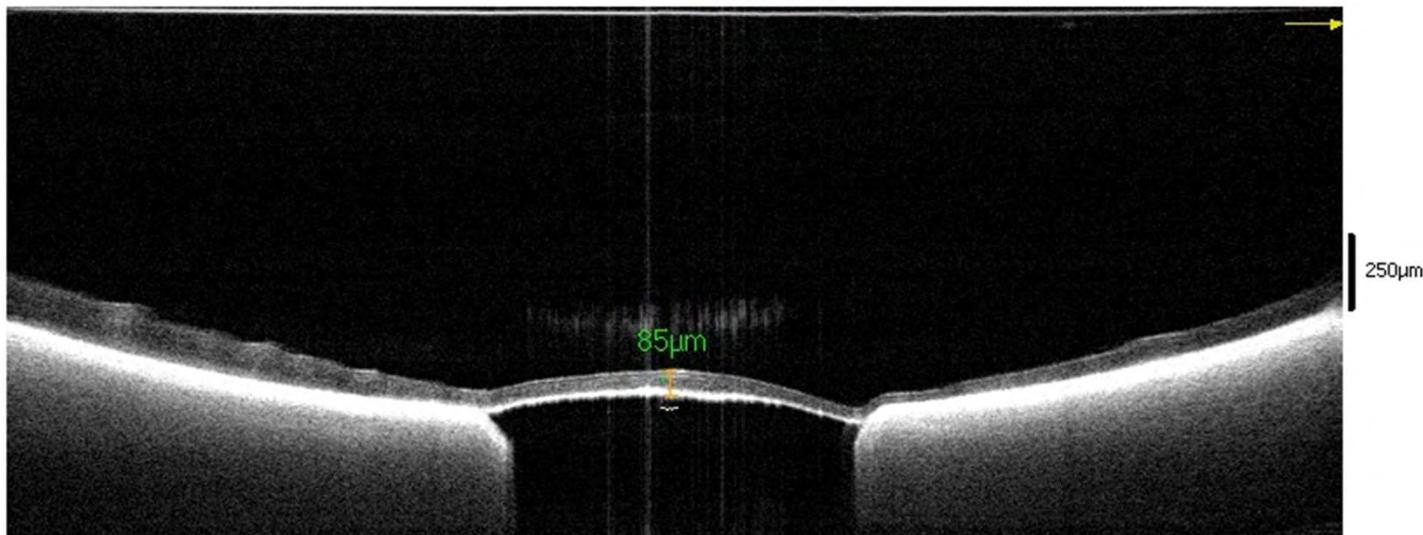
OCT SD LAMELLA

Courtesy of :
Dr. G. Sciuto, Ospedale Carlo Poma di Mantova,
Dr. R. Ceccuzzi, Banca degli occhi di Pavia

Cornea Pachymetry

Scan Quality Index **Good 90**

Right / OD



Pachymetry Assessment

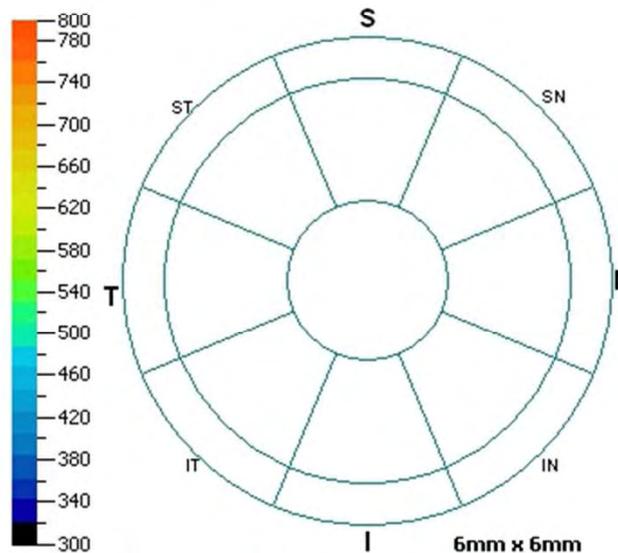
Superior - Inferior Comparison within 5mm zone

SN-IT(2-5mm): S-I(2-5mm):

Min-Median: Min-Max:

Min: Location Y:

Min thickness at (mm, mm) indicated as *



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Change Analysis

Comment

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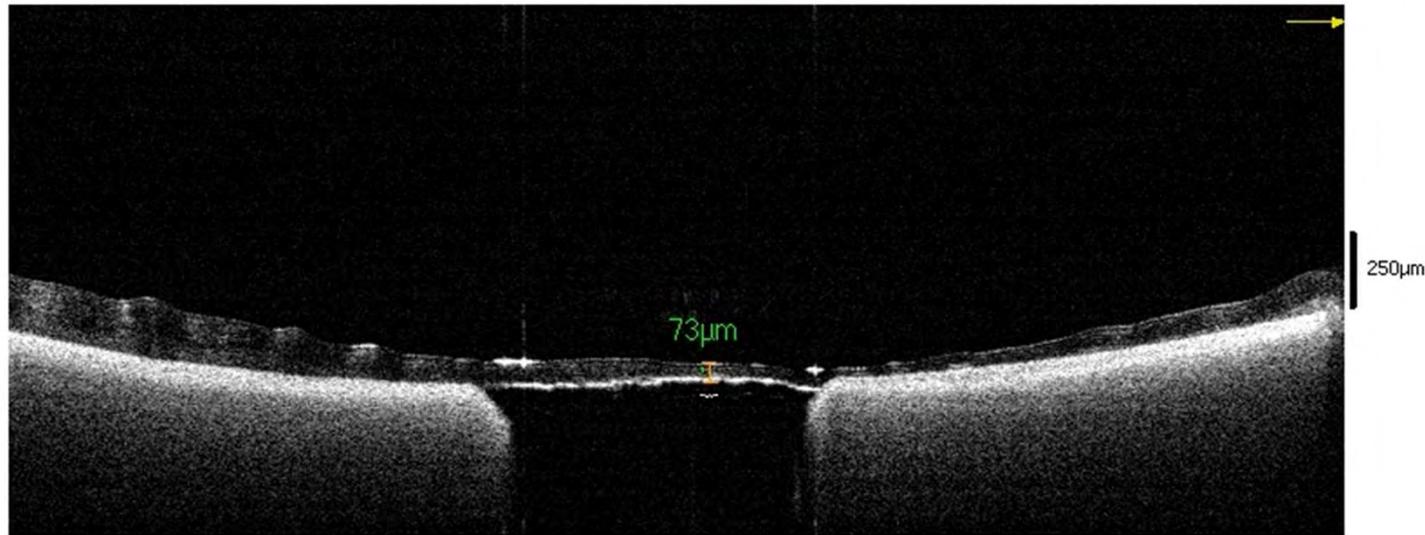
OCT SD LAMELLA

Courtesy of :
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Dr. R. Ceccuzzi, Banca degli occhi di Pavia

Cornea Pachymetry

Scan Quality Index **Good 80**

Right / OD

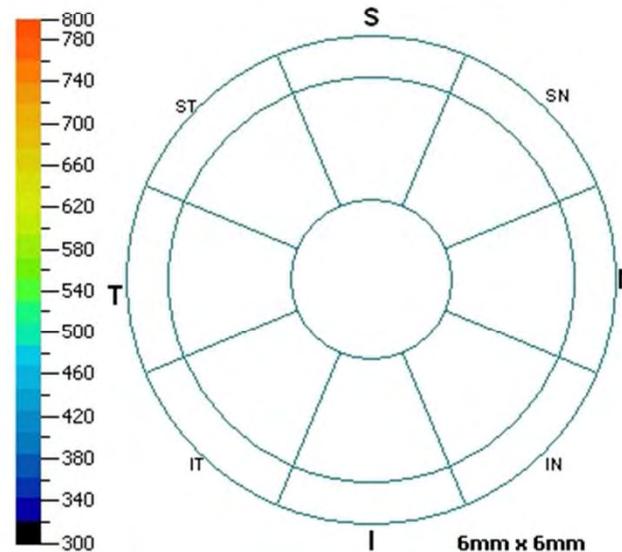


Pachymetry Assessment

Superior - Inferior Comparison within 5mm zone

| | | | |
|---------------|----------------------------------|-------------|----------------------------------|
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| Min-Median: | <input type="text" value="N/A"/> | Min-Max: | <input type="text" value="N/A"/> |
| Min: | <input type="text" value="N/A"/> | Location Y: | <input type="text" value="N/A"/> |

Min thickness at (mm, mm) indicated as *



Print

Change Analysis

Comment

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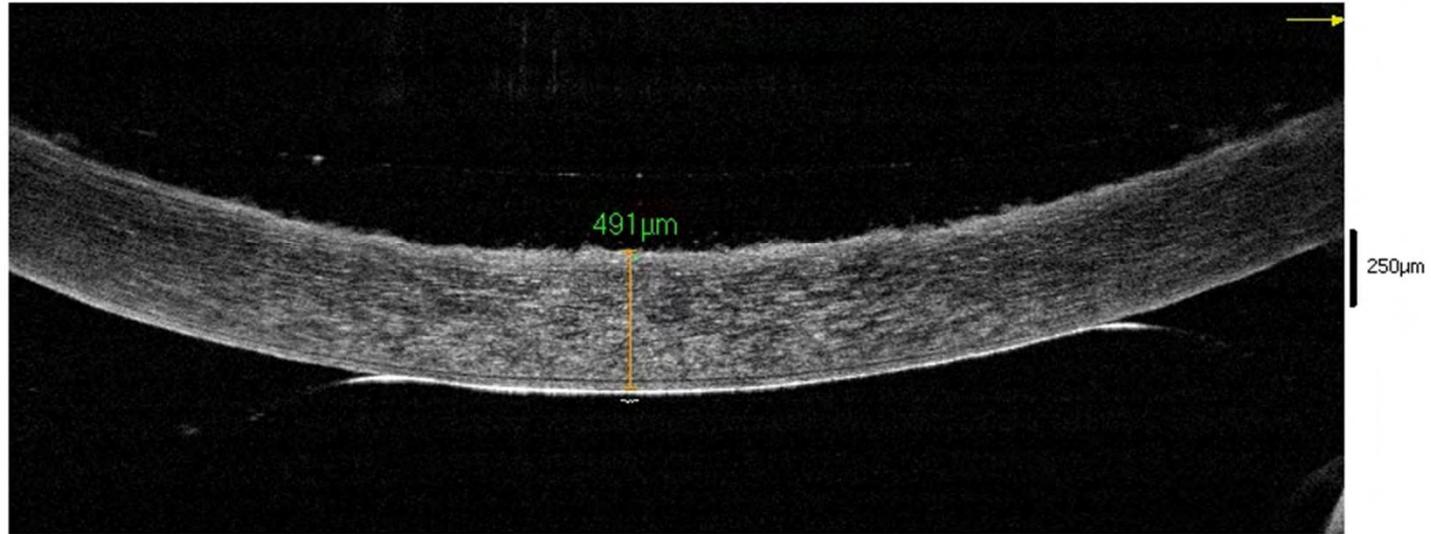
OCT CAP 450 μ m

Courtesy of :
Dr. G. Sciuto, Ospedale Carlo Poma di Mantova,
Dr. R. Ceccuzzi, Banca degli occhi di Pavia

Cornea Pachymetry

Scan Quality Index **Good 48**

Right / OD

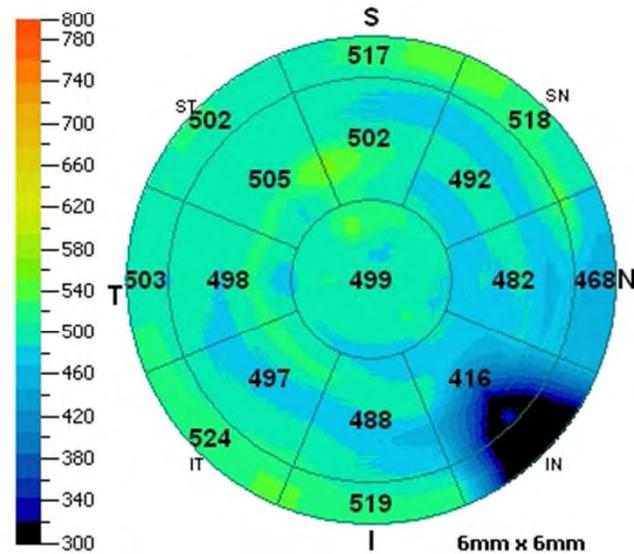


Pachymetry Assessment

Superior - Inferior Comparison within 5mm zone

| | | | |
|---------------|-----------------------------------|-------------|------------------------------------|
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| Min: | <input type="text" value="273"/> | Location Y: | <input type="text" value="-1688"/> |

Min thickness (x, y) 1.693mm, -1.688mm shown as *



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Change Analysis

Comment

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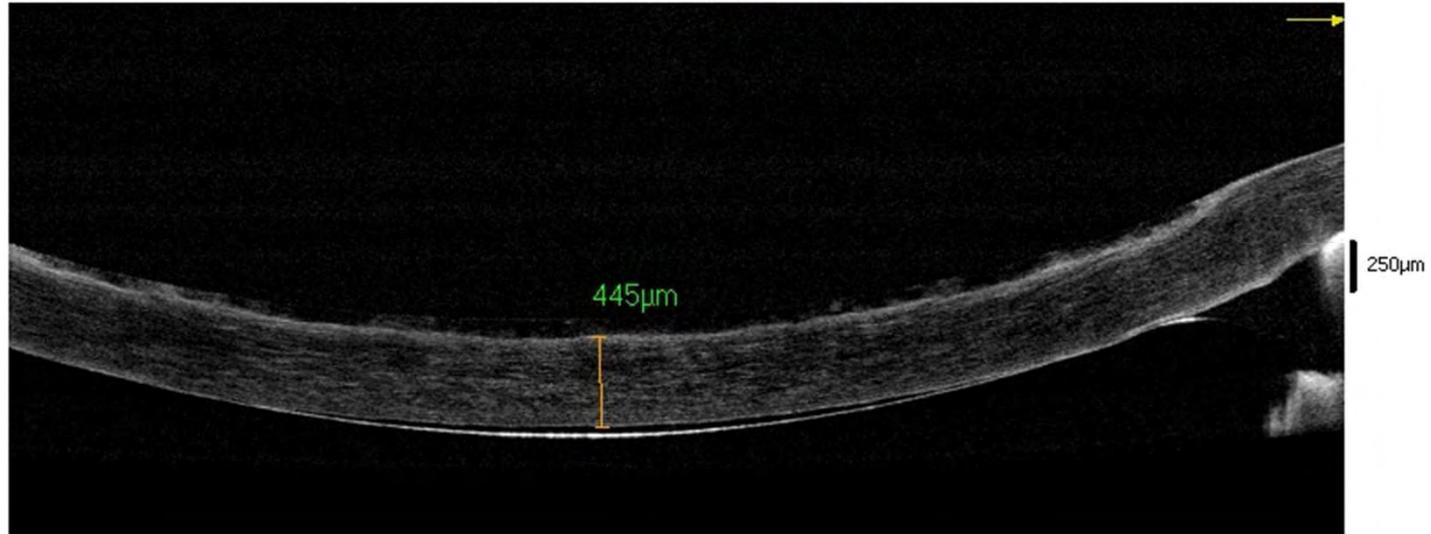
OCT CAP 450 μ m

Courtesy of :
Dr. G. Sciuto, Ospedale Carlo Poma di Mantova,
Dr. R. Ceccuzzi, Banca degli occhi di Pavia

Cornea Pachymetry

Scan Quality Index **Good 36**

Right / OD

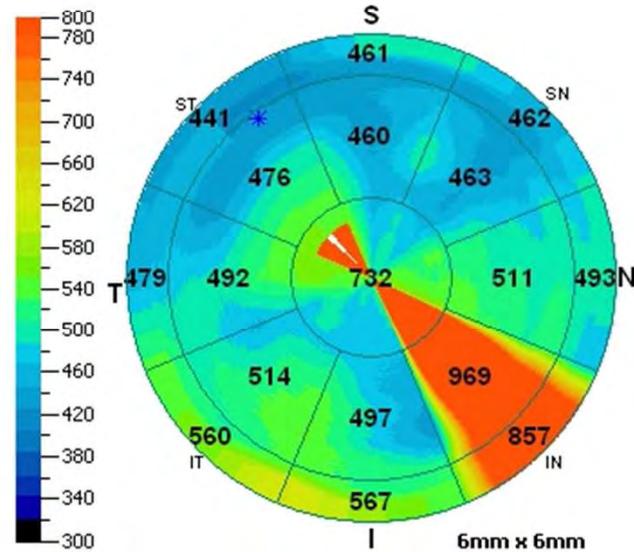


Pachymetry Assessment

Superior - Inferior Comparison within 5mm zone

| | | | |
|---------------|-----------------------------------|-------------|------------------------------------|
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| Min: | <input type="text" value="432"/> | Location Y: | <input type="text" value="1945"/> |

Min thickness (x, y) -1.389mm, 1.945mm shown as *



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Change Analysis

OU Report

Comment

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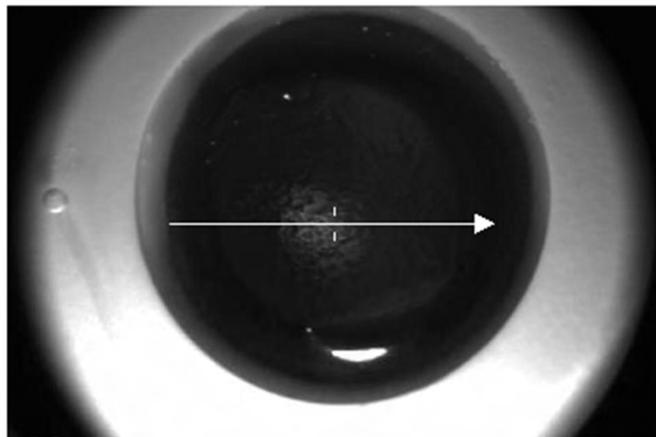
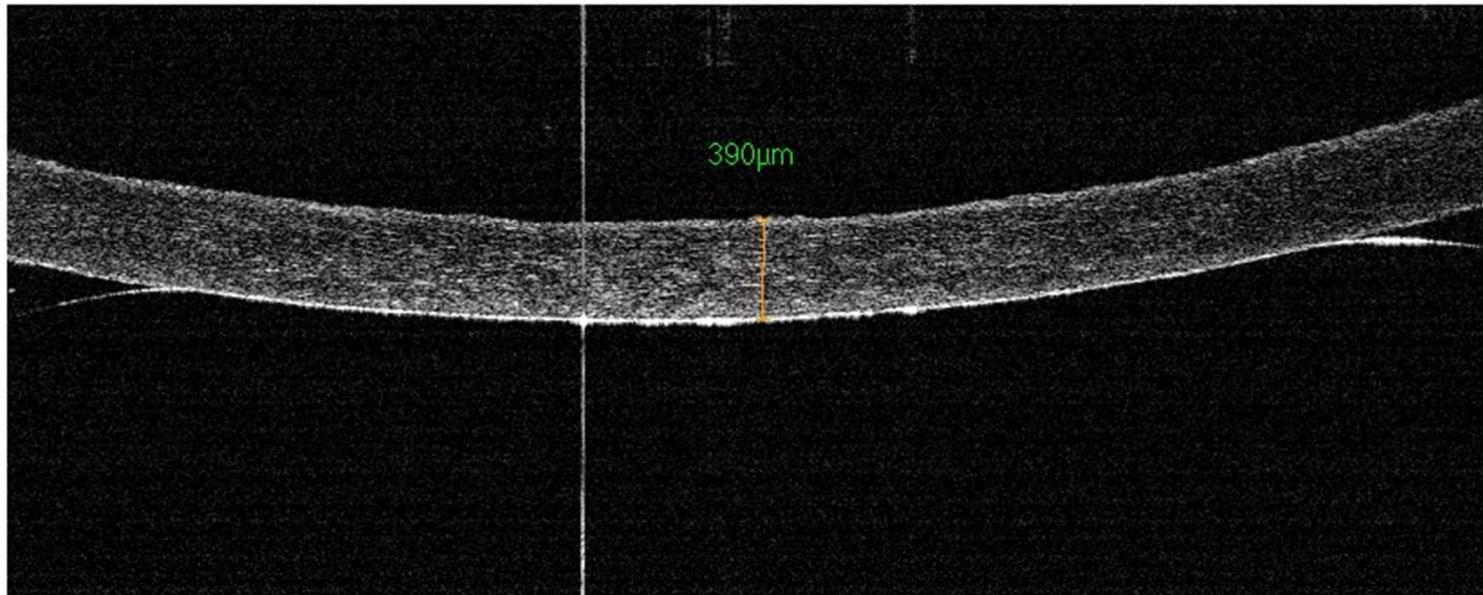
OCT CAP 400 μ m

Courtesy of :
Dr. G. Sciuto, Ospedale Carlo Poma di Mantova,
Dr. R. Ceccuzzi, Banca degli occhi di Pavia

Cornea Angle

Scan Quality Index **Good 53**

Right / OD



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HORIZON DSAEK SYSTEM

Grazie dell'attenzione

Genova, Congresso SIBO – 21 Aprile 2012

