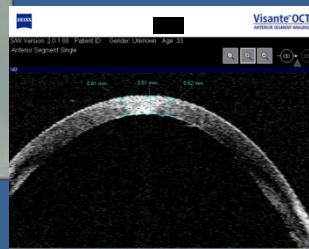




Post mortem e qualità dei lembi per DSAEK pre-cut



Domenico Amato
Banca degli Occhi di Roma



IV Corso di Formazione SIBO Torino, 10 Ottobre 2009

Precut Tissue in Descemet's Stripping Automated Endothelial Keratoplasty

Donor Characteristics and Early Postoperative Complications

Edwin S. Chen, MD,¹ Mark A. Terry, MD,^{1,2} Neda Shamie, MD,¹ Karen L. Hoar, MD, FRCSC,¹
Daniel J. Friend, MS²

Ophthalmology Volume 115, Number 3, March 2008

Assessment of Eye Bank–Prepared Posterior Lamellar Corneal Tissue for Endothelial Keratoplasty

Linda Rose, MD, PhD,¹ César A. Briceño, AB,¹ Walter J. Stark, MD,¹ Dante G. Gloria, BScE, QA,²
Albert S. Jun, MD, PhD¹

Ophthalmology Volume 115, Number 2, February 2008

EDITORIAL

Precut Tissue For Descemet Stripping Automated Endothelial Keratoplasty

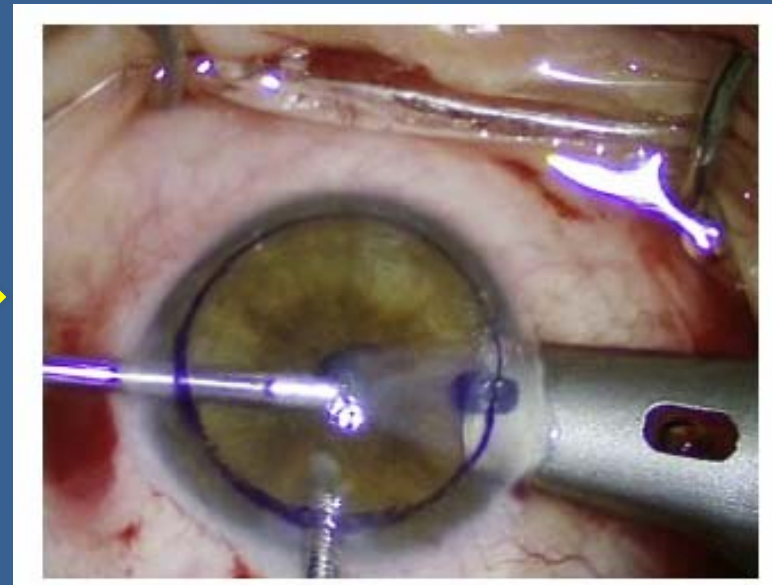
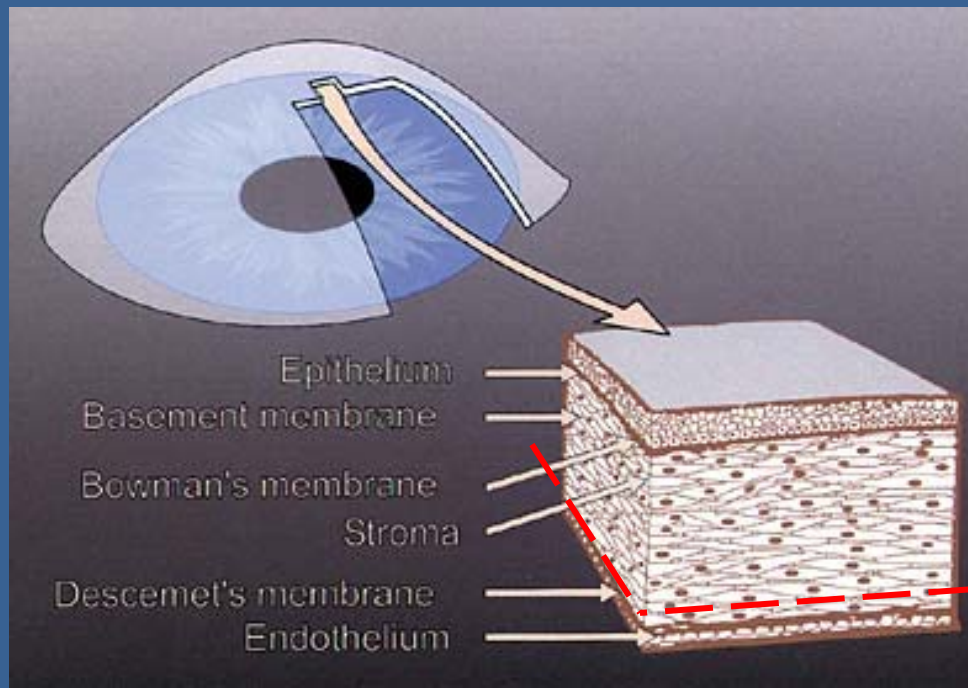
Francis W. Price, Jr, MD

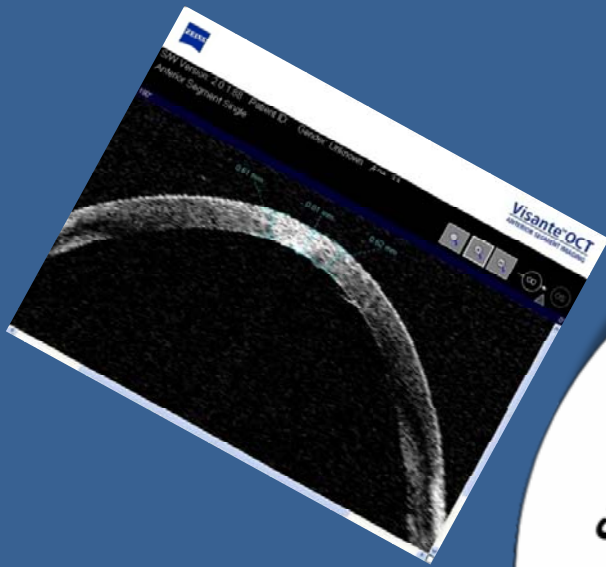
Cornea • Volume 27, Number 6, July 2008

CLINICAL SCIENCE

Eye Bank Survey of Surgeons Using Precut Donor Tissue for Descemet Stripping Automated Endothelial Keratoplasty

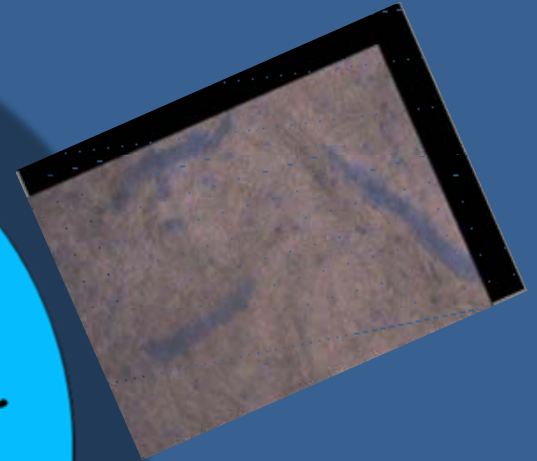
Anna S. Kitzmann, MD, Kenneth M. Goins, MD,* Cynthia Reed, RN, PhD,†
Lissa Padnick-Silver, PhD, CCRP,‡ Marian S. Macsai, MD,‡ and John E. Sutphin, MD§*



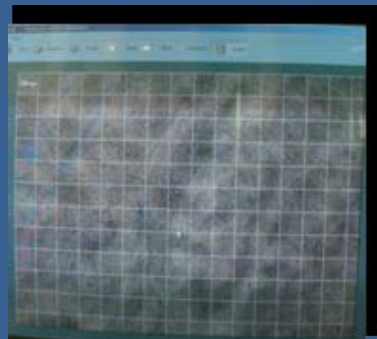


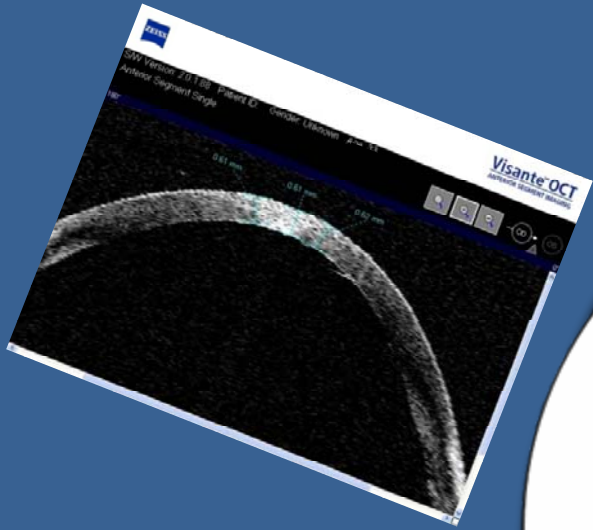
**SPESSORE
CORNEALE**

**MORTALITA'
ENDOTELIALE**



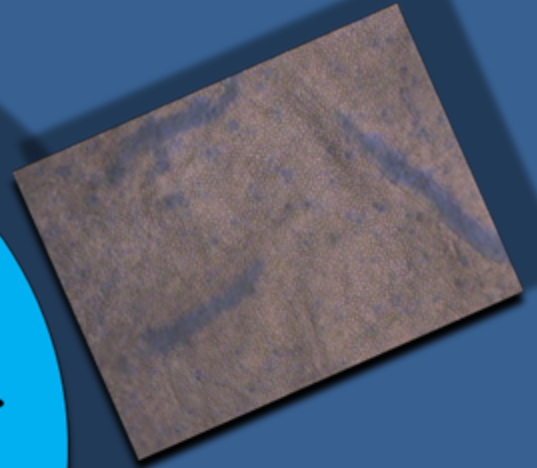
**DENSITA'
ENDOTELIALE**





**SPESSORE
CORNEALE**

**MORTALITA'
ENDOTELIALE**



DENSITA'



4°C

La pompa Na-K ATPasi dipendente, a livello endoteliale, gioca un ruolo fondamentale nel controllo dell'idratazione della cornea.

Immediatamente dopo il decesso del donatore la cornea mostra un rapido incremento nell'idratazione

↓ *Glicogeno* ↓ *ATP*
↓ *P O₂*

ATPase Pump Site Density in Human Dysfunctional Corneal Endothelium

Mitchell D. McCartney,* Daniel P. Robertson,* Thomas O. Wood,† and Barbara J. McLaughlin*†

INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE / December 1987

Sodium, Potassium, Two Chloride Cotransport in Corneal Endothelium: Characterization and Possible Role in Volume Regulation and Fluid Transport

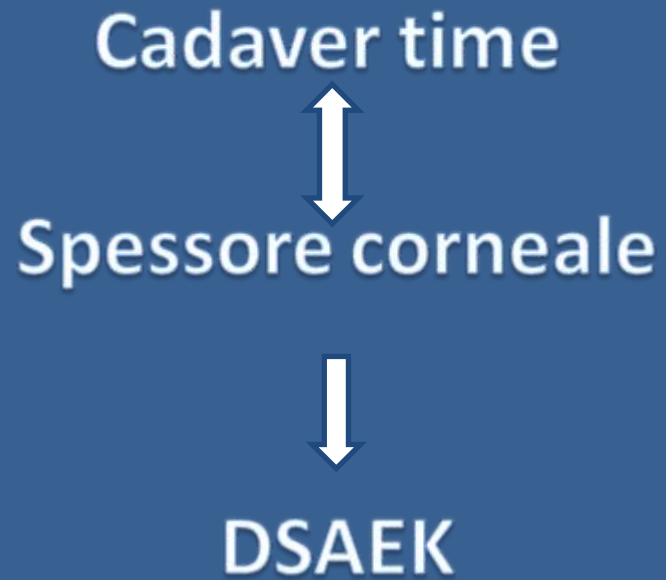
F. P. J. Diecke,¹⁻³ Z. Zhu,^{2,4} F. Kang,² K. Kuang,² and J. Fischbarg^{1,2}

Investigative Ophthalmology & Visual Science, January 1998, Vol. 39, No. 1
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Regulation of Corneal Endothelial Barrier Function by Adenosine, Cyclic AMP, and Protein Kinases

Michael V. Riley, Barry S. Winkler, Catherine A. Starnes, Margaret I. Peters,
and Loan Dang

Investigative Ophthalmology & Visual Science, October 1998, Vol. 39, No. 11
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Materiali e metodi

Storage Medium = Eusol-C (Destrano)

T = 4 °C

n = 25

Età = 69,4

Cadaver Time:

1) 0 – 6

2) 6 – 12

3) 12 -24

Ophthalmic Biophysics Center

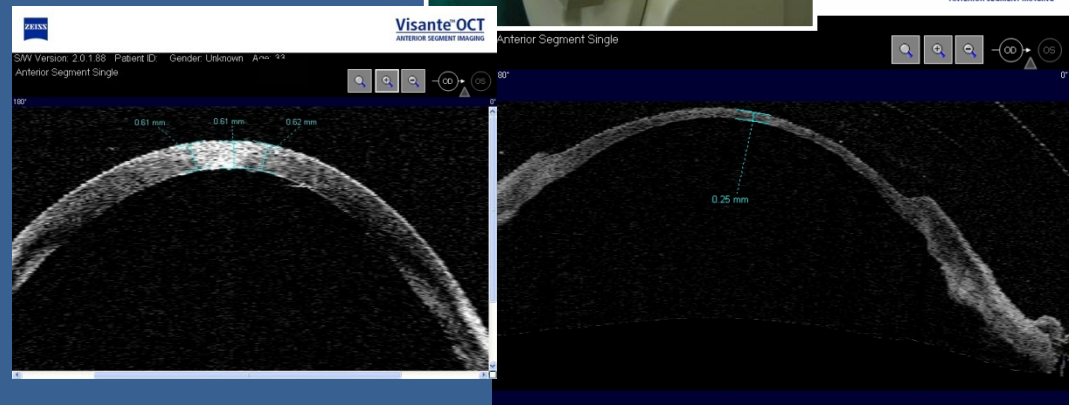
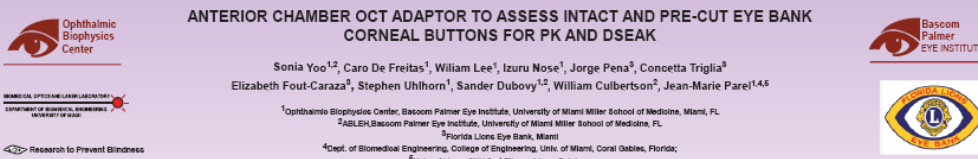
ANTERIOR CHAMBER OCT ADAPTOR TO ASSESS INTACT AND PRE-CUT EYE BANK CORNEAL BUTTONS FOR PK AND DSEAK

Sonia Yoo^{1,2}, Caro De Freitas¹, William Lee¹, Izuru Nose¹, Jorge Pena³, Concetta Triglia³
Elizabeth Fout-Caraza³, Stephen Uhlhorn¹, Sander Dubovy^{1,2}, William Culbertson², Jean-Marie Parel^{1,4,5}

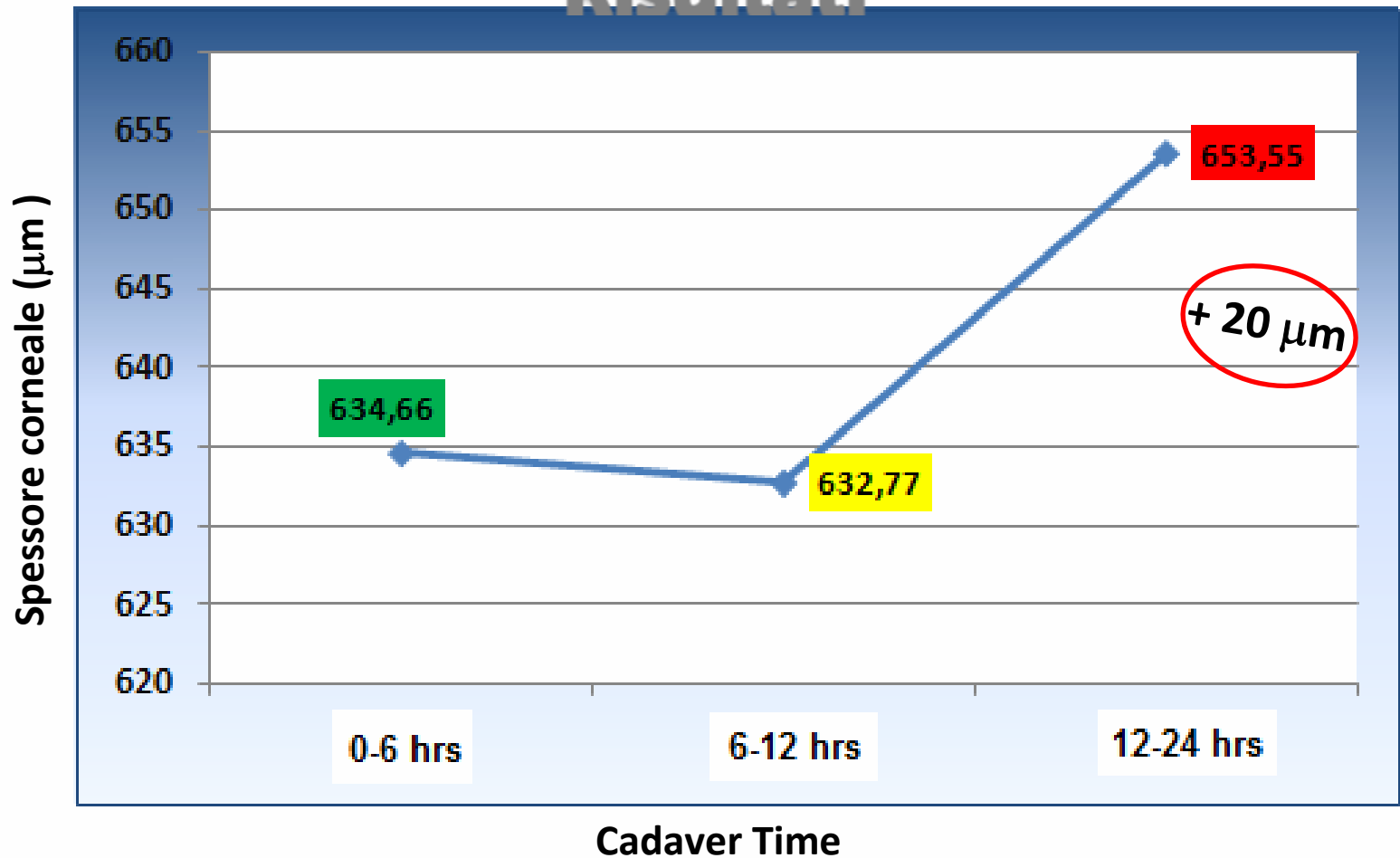
¹Ophthalmic Biophysics Center, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, Miami, FL
²ABLEN, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine, FL
³Florida Lions Eye Bank, Miami
⁴Dept. of Biomedical Engineering, College of Engineering, Univ. of Miami, Coral Gables, Florida;
⁵Univ. of Liège, CHU Sart-tilman, Liège, Belgium.

Bascom Palmer EYE INSTITUTE

RESEARCH TO PREVENT BLINDNESS



Risultati



	I°	II°	III°
	0 - 6 hrs	6 - 12 hrs	12 - 24 hrs
MEAN	634,6667	632,7778	653,5556
DS	15,47579	9,795124	18,18042
p	0,753068	0,159693	0,032068

post-cut



	I°	II°	III°
	0 - 6 hrs	6 - 12 hrs	12 - 24 hrs
MEAN	223,3333	211,8889	239,666
DS	17,51428	10,52906	16,42008
p		0,159693	0,04533

Conclusioni

- ✓ *Differenza di circa 20 μm nel range 12-24 hrs*
- ✓ *Nessuna differenza tra i primi due gruppi*
- ✓ *Aumentare il numero di eventi*
- ✓ *Medico prelevatore –Banca degli occhi*
- ✓ *Possibili contaminazioni (rossofenolo)*



GRAZIE PER L'ATTENZIONE