

## What is State-of-the-Art Corneal Refractive Surgery?

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## How Far Have We Come?

- USA
  - 10 million eyes treated with excimer refractive surgery since PRK approval in March 1996 (through 2006)
- Worldwide
  - 15 million procedures performed to date worldwide
  - Nearly 5,000 systems installed

## The Timeline

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  - Radial Keratotomy: The State-of-the-Art
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  - Radial Keratotomy: The State-of-the-Art
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- 21 Years Ago
  - Charles Munnerlyn shows the VISX 2020A at AAO in New Orleans
- 20 Years Ago
  - Marguerite McDonald, MD, treats the first patient with this prototype



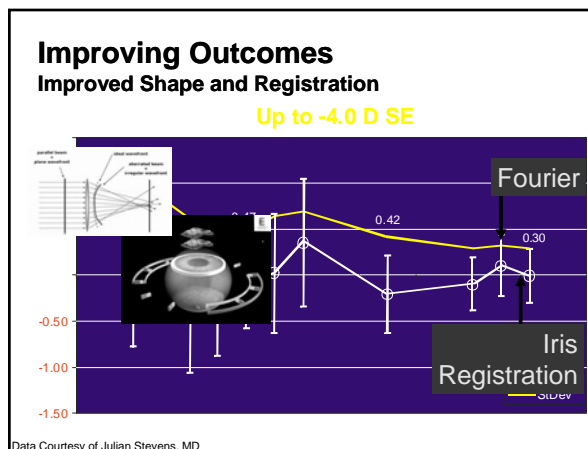
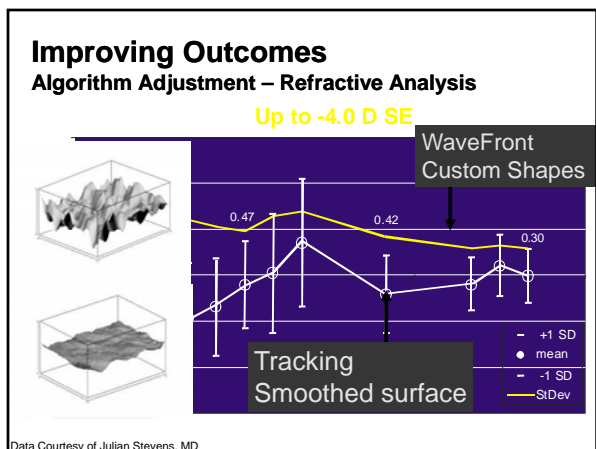
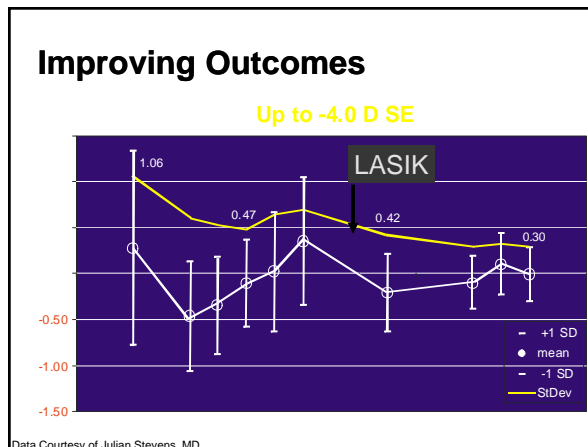
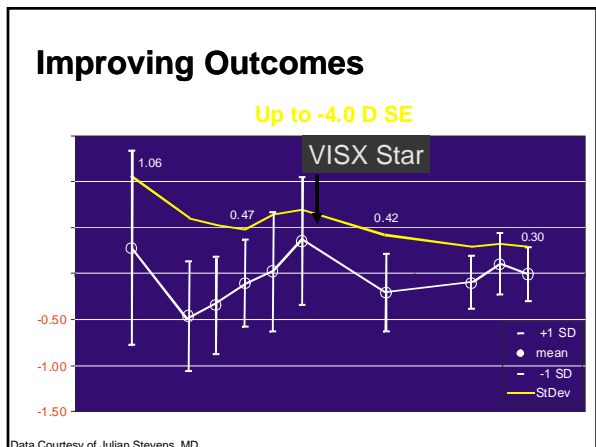
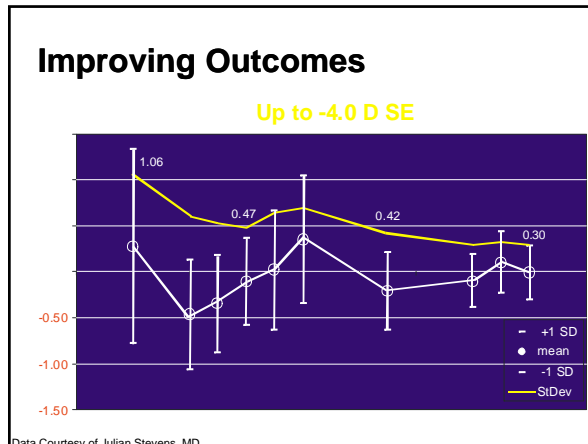
## The Timeline

- 1996 - PRK approved for conventional treatments
- 1999 - LASIK approved for conventional treatments
- 2003 - Wavefront-guided LASIK approved in the US
- 2007 - Wavefront-guided LASIK with Intralase approved by NASA for astronauts (iLASIK)

### The Timeline

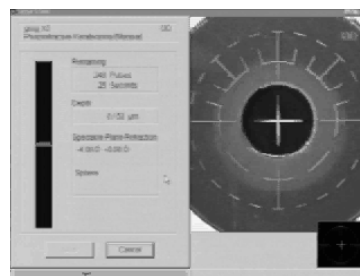
- 2003
  - Wavefront-guided ablations approved in the US
- Today
  - 55% of all LVC procedures in the US are wavefront-guided ablations\* (62% of the US market uses AMO's platform\*)

\* Data courtesy of Market Scope, 2007 Annual Refractive Surgery Report

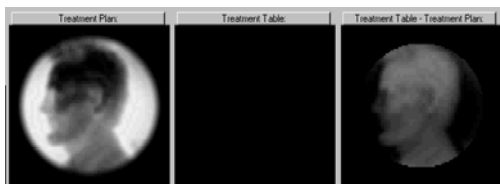


**Progression:**

**Conventional excimer treatment  
to  
Wavefront-guided (CustomVue)**



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**Progression:**

**Bladed microkeratome flap  
to  
IntraLase flap (Custom)**

**Thin-Flap LASIK with Intralase**

**Customized LASIK flap with  
respect to thickness, diameter,  
position, and side-cut  
architecture**

**The Best of Both Worlds :  
Thin-Flap LASIK**

**The Advantages of PRK**

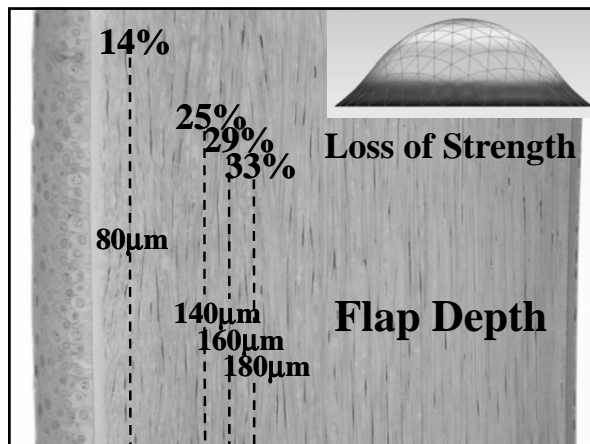
**(anterior stroma, stability)**

**and**

**The Advantages of LASIK**

**(rapid visual recovery, no haze)**

**But How ?**



**My Practice:**  
iLASIK  
Advanced CustomVue  
(6 mm optical zone, 8 mm ablation zone)  
with  
Intralase  
(8.2 mm diameter, 100 μm depth)

**Clinical Advantages:**

- thin, anterior stroma
- Bowman's Membrane preserved
- 60 kHz, side-cut architecture

**Professional Advantages:**

- All laser vision correction
- Fewer enhancements
- Greater stability
- More patient referrals

**Thank You !**