U.S. Trends in Refractive Surgery: 2011 ISRS Survey
- Partner of AAO -

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The authors have no financial interests in this survey study.
2011 Survey

- Third year of ONLINE*** survey opened by 374 ISRS members of the 1145 total emailed.
- 128 responses analyzed by October 6, 2011 for 34% of the U.S. ISRS membership who opened the emailed survey and 11% of the membership.
- Fifteenth year of refractive data collection.
- Alphabet soup of refractive surgery including corneal and lens-based surgeries.
I Am Currently Doing This Surgery

DUFFEY 2011
> 75 Cases / Month

* Peaked in 2001

DUFFEY 2011
Preferred Surgery For 30 yo -10.00 Diopter Myope

DUFFEY 2011
Preferred Surgery For 45 yo +3.00 D Hyperope

*70%
Preferred Surgery For 45 yo +5.00 D Hyperope

DUFFEY 2011
Surgery Done Bilateral At Same O.R. Visit

DUFFEY 2011
Had Refractive Surgery Performed on Yourself

**40%**

DUFFEY 2011
Family LVC Index: (LASIK or PRK Performed on Our Own Family Member)
Excimer Laser Most Commonly Used

DUFFEY 2011
“Microkeratome” Most Commonly Used

* 57% femtolaser
Topography Unit Most Commonly Used

Zeiss-Hum
Orbscan
EyeSys
Tomey
Nidek
Pentacam
Others

DUFFEY 2011
Preferred Surgery for “Pre-Cataract” Presbyopia

DUFFEY 2011
Comanagement

DUFFEY 2011
Preferred Flap Thickness (when no other constraints)

DUFFEY 2011
Minimum Residual Stromal Bed Thickness Requirement for LASIK

* 64% at 275 microns or greater
Total Cases of Post LASIK Ectasia as the Primary Surgeon in Career

* Not growing

DUFFEY 2011
Minimum Cent. Corneal Pachymetry for LASIK (all other parameters normal)

* 56% OK with 480 or less
Will You Perform Refractive Surgery on One-Eyed Patients

DUFFEY 2011
Total LVC Volume w/i ISRS (1000s)

Surface Ablation: 167
LASIK: 403
Total LVC: 570

* 6% increase in Total LVC from 2010.
Ratio of PRK / Total LVC increased from 24% to 29% over past year.
Third ONLINE ISRS SURVEY was a success with 11% / 34% response rate.

VisX 2:1 (58%) over Wavelight (29%) which is slightly down this year.

About 40% penetration of modern refractive surgery amongst refractive surgeons…. 4 times the general population. Family Index rates also continue to be high despite mixed press re: LVC in the general public media.
2011 ISRS SUMMARY

- 27% of respondents are OK with bilateral P-IOL and 9% with bilateral RLE at the same surgical setting (increased).

- Multifocal IOL (15%) over accommodative IOL (3%) as a preferred lens-based presbyopia option when used for RLE.

- Femtosecond laser use on the rise (57%).

DUFFEY 2011
Thinner flaps on the rise: 100 micron or less flaps are favored by 53% of surgeons (up from 12% in ‘04).

RSB Thickness on the rise: 32% still think 250 microns is adequate, but 64% recommend 275 microns or more.

New post-LASIK ectasia cases continue to be on the decline.
2011 ISRS SUMMARY

- Pentacam (46%) outpaced Z-H (41%) and Orbscan II (39%) for the first time.

- LVC Volume up 6% within ISRS membership in 2011 relative to 2010.

- Ratio of Surface Ablation / Total LVC increased from 24% to 29% over past year.
Thanks to the ISRS leadership for their support and for *your* participation in the 2011 Survey. We look forward to your response to our fourth ONLINE survey next fall.

***Complete 15 years of survey results found at www.duffeylaser.com***