Efficiency and Effectiveness of FLACS with ALLY™

William Soscia, MD

Sarasota, FL

CENTER FOR SIGHT

A US EYE COMPANY

LENSAR Launches 1st Gen and Implements 6 Significant Upgrades Over 3 Years

ALLY System Sterile FLACS 2022

ALLY System Other Applications

2010
1ST Gen FLACS Laser

2012
Competitive 1ST Gen FLACS Laser

Better Medicine. Better Business.

Premium/patient-pay procedure

Delivers faster procedure times vs. competition

Enables a sterile, single step procedure

First and only dual-pulse, tissue specific femtosecond laser

Employs superior imaging system and AI to optimize treatment

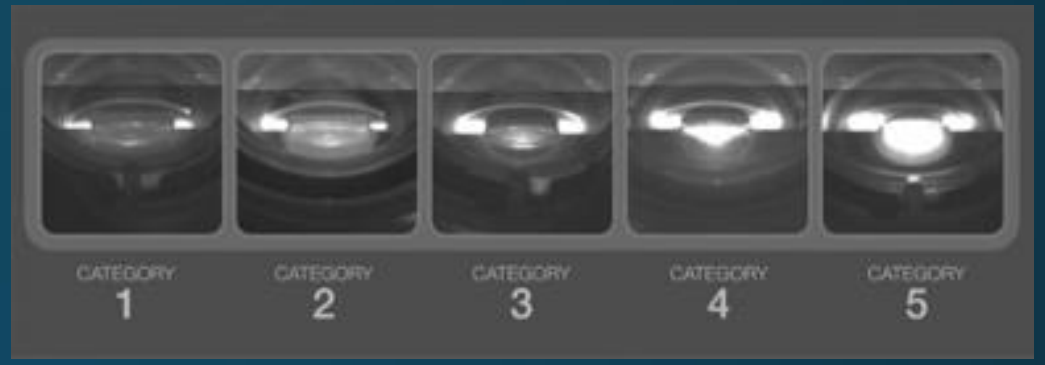
Guides astigmatic correction for a refractive cataract procedure

Enables more procedures to be performed

ALLYs Foundation for Revolutionizing Cataract Surgery

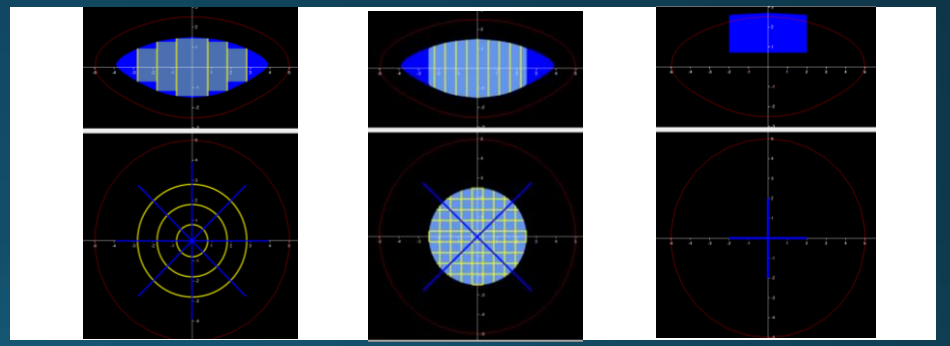
Proprietary Imaging

ALLY automatically categorizes cataract density



Guides Optimized Laser Fragmentation Patterns & Energy

ALLY auto-recommends custom frag patterns*



Guides Optimization Program To Optimize Phaco Energy & Settings

ALLY Goal:
REVOLUTIONIZE CATARACT SURGERY
Reduce the energy delivered & efficiency of a FLACS procedure

Workflow Effeciencies

The ALLY® System provides efficiencies that enable integration into surgical workflow without increasing procedure time

ALLY provides efficiencies at every step of the procedure:

- Wireless integration with pre-op diagnostic data
- No need to manually ink mark the patient's eye
- Automated laser configuration and procedure planning
- Quick and easy docking
- Automatic customized fragmentation patterns

Time and Motion Study

Jack Chapman, MD- North Georgia Eye Associates

Primary Objective:

- Prospective study to evaluate the time efficiencies of two different workflow scenarios of femtosecond laser-assisted cataract surgery from the surgeon and patient perspectives
  - Group 1: Sterile ALLY in OR #1
  - Group 2: Non-sterile LenSx with Verion in OR #2

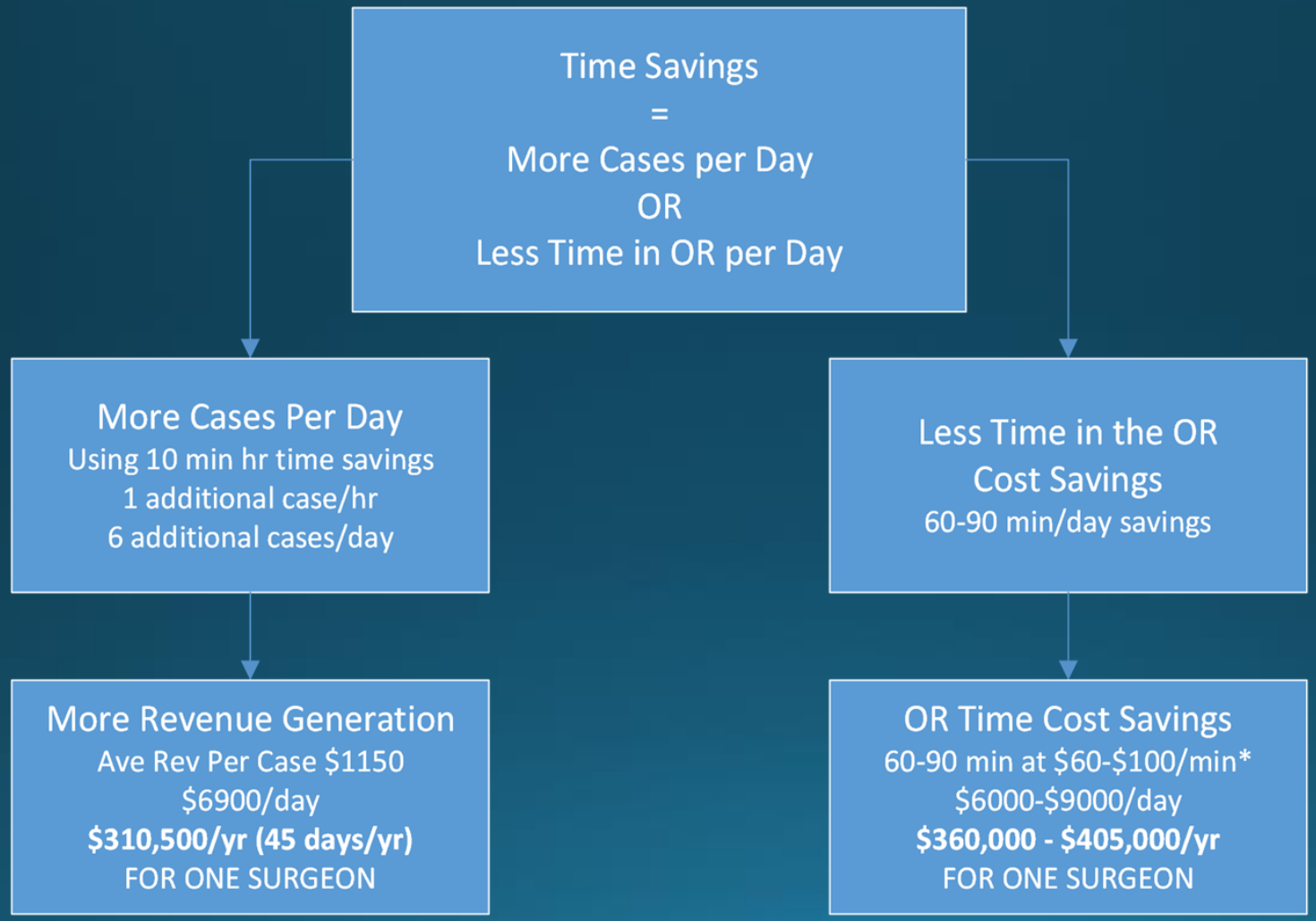
Methods:

- Subjects at least 21 years old with an operable, uncomplicated cataract, eligible for FLACS were enrolled sequentially and randomly assigned to the LenSx or ALLY group
- This was a non-interventional, observational study with no collection of biometric data or PHI

Results

Time Interval		ALLY	LenSx	ALLY Time Savings	P Value
Laser set up to docking start Bed adjustments, Version, etc.	Ave	0:11:49	0:19:32	**0:07:43**	0.028
	SD	0:05:55	0:14:27		
	Range	0:02:12 to 0:29:34	0:02:03 to 0:44:10		
Total case time surgeon perspective Surgeon in, femto, phaco, surgeon out	Ave	0:16:11	0:19:41	**0:03:30**	0.002
	SD	0:02:40	0:04:23		
	Range	0:11:53 to 0:22:49	0:13:53 to 0:32:01		
Femto complete to phaco start Transition from femto to phaco Docking complete to first touch for phaco	Ave	0:01:19	0:04:39	**0:03:20**	<0.001
	SD	0:00:30	0:01:02		
	Range	0:00:15 to 0:02:26	0:03:08 to 0:08:52		
Surgeon wait time for draping Transition non-sterile femto to sterile phaco	Ave	0:00:00	0:02:11	**0:02:11**	<0.001

Potential Time and Cost Savings



*Visco, et al
Lemmons N, The Cost of an OR minute; Industry News segment https://www.keysurgical.com/News/News/The-Cost-of-an-OR-Minute

Summary

The ALLY femtosecond laser during cataract surgery in a sterile environment offers an opportunity for greater efficiency, time and cost saving in the following ways:

- Provides a surgeon **4:03 time savings** per procedure (plus piece of mind!)
- Provides the staff **9:54 time savings** per patient (happy staff!)
- **Up to 1 more case an hour** or 6 additional cases per day
- Possibility of **up to $350,000 per year** for one surgeon, 45 OR days
- **Less time in the OR**, up to 60-90 minutes per day

Thank you