

# Efficiency and Cost Effectiveness of FLACS Using a Sterile vs. Non-Sterile Single Room

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“Its not how good you are now, its how good you're going to be that really matters.”

We all have untapped potential within us.

-Atul Gawande, MD



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# Practice Overview

## Dr. Jack Chapman

Total # of Cases Per Year: **900 /year**

Conversion Rate FLACS w/ LenSX: **40 - 10%**

Conversion Rate FLACS w/ ALLY: **75-90%**

# Cases Per Surgery Block: **20 cases**

# Days Operate: **1 day/wk**

Study Workflow:

**2 ORs/5 MDs: Nonsterile FLACS, Sterile FLACS**

Q2/23 Update:

**4 ORs/10 MDs: ALLY FLACS Sterile**



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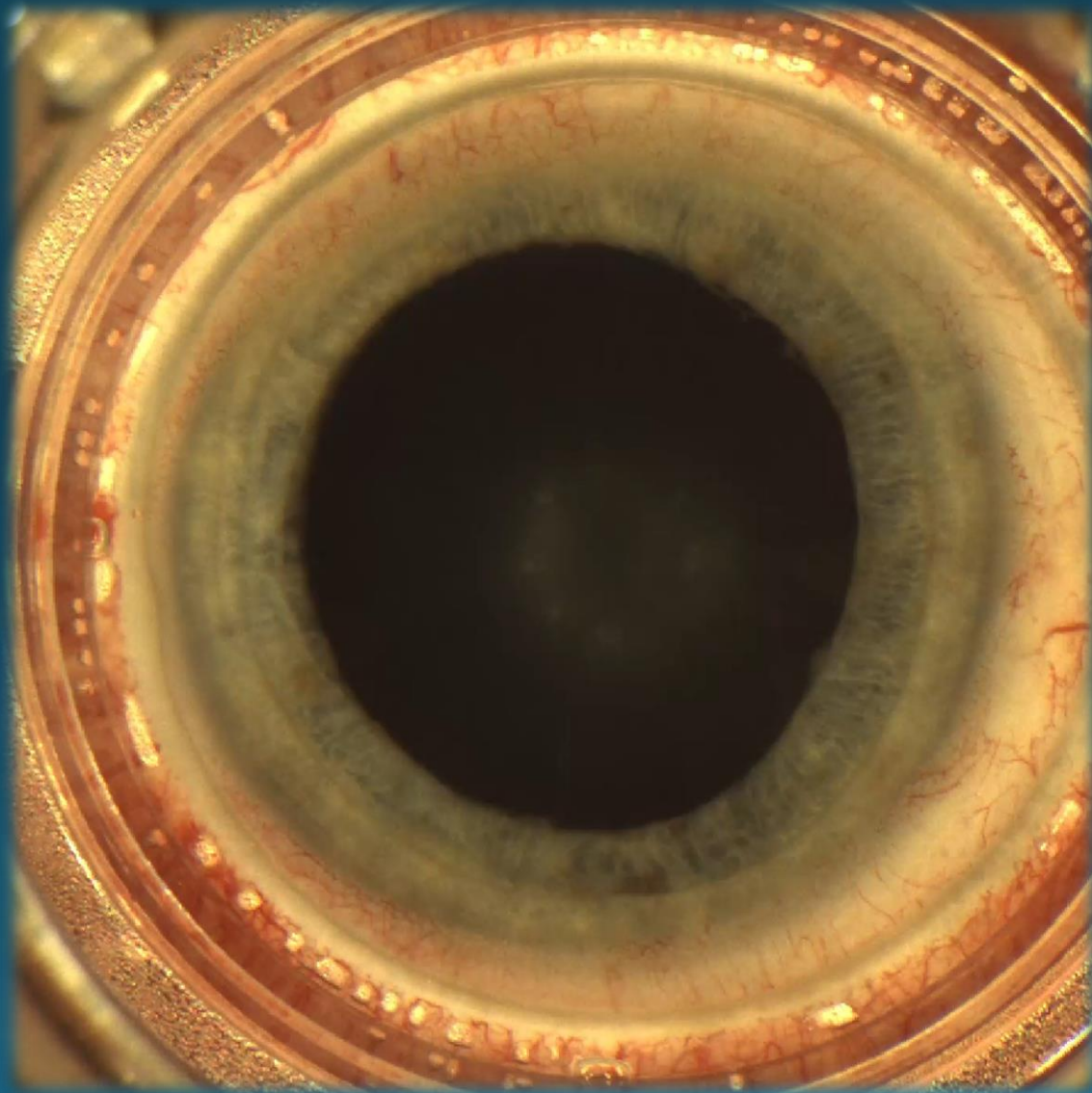
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# OR Sterile Set-up Sterile ALLY



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# ALLY in the OR





# Study Design

## 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

## Primary Endpoints:

1. Identification of all time and motion parameters relevant to the FLACS procedure
2. Measurement of all applicable time intervals for patient and surgeon
3. Calculation of intervals that represent time and efficiency savings
4. Calculate related cost savings



# 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
- Study staff tracked time and motion of the patient and surgeon during the course of the procedure by using a world clock and documenting all activities with a time stamp
- To prevent bias, a third party was secured to oversee time and motion data collection
- Participation for each subject concluded at the end of their surgical procedure

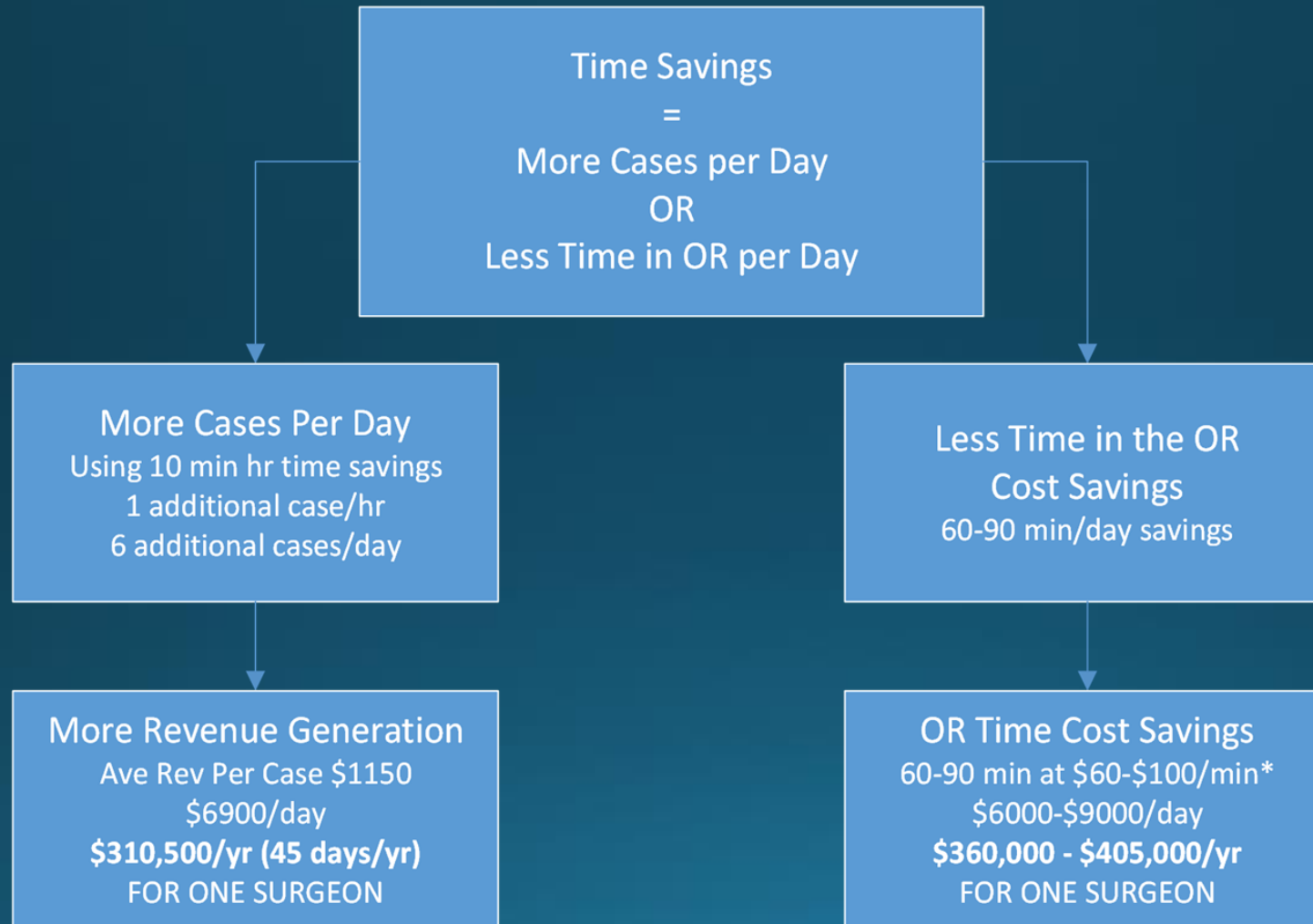


# Results

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



# 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



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Thank you



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