

**Outpatient TSA – What you need to know**

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THOMAS (QUIN) THROCKMORTON, MD  
PROFESSOR  
SHOULDER AND ELBOW SURGERY  
UNIVERSITY OF TENNESSEE- CAMPBELL CLINIC DEPARTMENT OF ORTHOPAEDIC SURGERY

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**Topics**

- Program development
  - Get buy in
  - Generate pathways
- Outcomes
  - Patient Selection
  - Safety
  - Satisfaction

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Buy In

Multiple stakeholders

Varies by practice type with variable amounts of influence over them

- OR nurse manager
- Hospital or ASC administrator
- Anesthesia
- Recovery room
- Rehab
- Partners?



**TEAMWORK**  
Large ambitious goals usually require that people work together.

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Buy In

**ANESTHESIA**

Minimal benefit to them

- And it's disruptive

Blood pressure

Muscle relaxation

Block vs peri-articular injections

- Potentially contentious
- \$\$\$
- Concern with indwelling catheters



**I'M VERY UNCOMFORTABLE**  
**RIGHT NOW...**

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Buy In

**RECOVERY ROOM**

ASC staff used to shorter PACU stays

Need education regarding recovery from deeper general anesthesia +/- muscular paralysis



**CAPTAIN OBVIOUS**

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## Pathways

- Prehab
- PACU
- Blood product triggers
- Relationship with hospital for transfer
  - If using ASC
- Post-op rehab
- Phone line for post-operative problems
- Requires meetings

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## Patient Selection

Evaluation by anesthesia staff

- Nurse and staff anesthesiologist

Confidence in this system is critical

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## Patient Selection

Patients offered outpatient TSA by operating surgeon

- Absence of significant cardiopulmonary comorbidities
  - <70 years old
  - Hct > 30
  - 1 of 3: OSA, COPD, morbid obesity
  - 1 of 3: CAD, CHF, HTN
- Privately insured
- Cannot offer patients with government payors

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## Patient Selection

Results in selection of patients that are...

- Younger
- Healthier
- Socially independent or with strong support networks

This is appropriate risk stratification

- No cardiopulmonary events requiring transfer
- One aborted operation on anesthesia induction
- 5% acute complications
- All with same day discharge



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## Safety

30 patients underwent outpatient TSA

Age and co-morbidities matched cohort of 30 TSA's done in hospital

Patient Demographics			
Characteristic	ASC	Hospital	P-value
Age	52.6 (33-68)	54.2 (28-63)	0.39
Sex	23M/7F	14M/16F	0.03
BMI	31.6 (20.6-55.7)	31.5 (22.7-44.3)	0.96
ASA score	2.1	2.3	0.33
Extremity	13R/17L	18R/12L	0.30
Operative Indication			
Osteoarthritis	24	27	0.47
Inflammatory arthritis	2	2	1.00
Post-traumatic arthritis	2	0	0.49
Osteonecrosis	1	1	1.00
Post-capsulorrhaphy arthritis	1	0	1.00

Brolin, 1515, 2016

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## Safety

No significant differences in complications between inpatient and outpatient groups

No cardiopulmonary complications in either group

No (re)admissions or re-operations in either group

90-Day Episode-of-care Complications			
	ASC	Hospital	P-value
<b>Total complications</b>	4 (13.3%)	3 (10.0%)	1.00
Infection	0	0	1.00
Anterior subluxation	1 (3.3%)	1 (3.3%)	1.00
Subscapularis failure	1 (3.3%)	0	1.00
Arthrofibrosis	2 (6.7%)	0	0.49
Superficial venous thrombosis	0	1 (3.3%)	1.00
Blood transfusion	0	1 (3.3%)	1.00
Readmission within 90 days	0	0	1.00
Reoperation within 90 days	0	0	1.00

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## Satisfaction

35 outpatient vs 46 inpatient TSA's

- Surveyed for satisfaction regarding...
  - Outcome
  - Facility
  - Complications
  - Preferred site of surgery
- Similar satisfaction with outcomes and facility
- No differences in complications
- Significantly more inpatients would have changed to outpatient setting if possible (P=0.035)

Name \_\_\_\_\_ ID number \_\_\_\_\_  
 Date of Surgery \_\_\_\_\_  
 Involved Side:  Right  Left

In the first 3 months after your surgery at Campbell Clinic Surgery Center...

1. Did you have to see your regular family doctor about a medical problem after your surgery?  
 Yes  No If yes, what was the problem? \_\_\_\_\_
2. Were you admitted to the hospital within 90 days after your surgery?  
 Yes  No If yes, why were you admitted? \_\_\_\_\_
3. Did you have an infection at your surgical incision site within 90 days after surgery?  
 Yes  No If yes, what antibiotics were prescribed? \_\_\_\_\_
4. How satisfied were you with your experience at Campbell Clinic Surgery Center?  
 Extremely  Very  Moderately  Slightly  Not at all
5. Would you consider having surgery at the Campbell Clinic Surgery Center again?  
 Yes  No  Not sure
6. Are you happy that you had your surgery at a surgery center rather than the hospital?  
 Yes  No  Not sure
7. How satisfied are you with your surgery overall?  
 Extremely  Very  Moderately  Slightly  Not at all
8. Would you consider having this surgery again?  
 Yes  No  Not sure

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## What you need to know...

Buy in from all stakeholders is key

Developing an outpatient joints program requires pathways

- That means meetings

Patient selection is critical

Outcomes and satisfaction are high

- Patients prefer the outpatient setting if possible

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## Thank You



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