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Is the Practice of Overlapping Surgery Safe in Total Knee and Hip Arthroplasty?

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Disclosures

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Other Authors Have No Disclosures

Background

Overlapping Definition

Practice When Surgeon Is Operating Two Procedures On Overlapping Time Frame

Attending Surgeon Operates On Key Or Critical Components Of Surgery Before

Starting A Case In Another OR

Concurrent Definition

~~Practice When Critical Components Of
Two Surgeries For Which
Single Attending Physician Is Responsible For
Are Occurring At The Same Time~~

**Increase Efficiency & Access
To High Volume Quality Surgeons**

**Improve Surgical Competence
Surgeons & Trainees**

The Boston Globe

SPOTLIGHT

Concurrent surgeries come under new scrutiny



A Senate Finance Committee Staff Report

December 6, 2016

Overlapping Surgery in the Ambulatory Orthopaedic Setting

Alan L. Zhang, MD, David C. Sing, BS, Debbie Y. Dang, MD, PhD, C. Benjamin Ma, MD, Dennis Black, PhD, Thomas P. Vail, MD, and Brian T. Feeley, MD

J Bone Joint Surg Am. 2016;98:1859-67

TABLE II Outcomes of Overlapping Surgery

Outcomes	Overlapping Surgery	Non-Overlapping Surgery	P Value
Intraoperative*			
Operating room time (<i>min</i>)	105.4 ± 43.2	105.5 ± 44.2	0.949
Anesthesia time (<i>min</i>)	117.3 ± 43.9	117.8 ± 45.8	0.772
Procedure time (<i>min</i>)	70.7 ± 38.2	72.8 ± 40.2	0.116
Length of stay in facility (<i>hr</i>)	5.8 ± 3.3	5.9 ± 5.2	0.508
Postoperative at 30 days†			
Complications	28 (1.1)	15 (1.3)	0.811
Hospital readmission	14 (0.6)	9 (0.8)	0.612
Reoperations	13 (0.5)	5 (0.4)	0.893
Emergency department visit	6 (0.2)	1 (0.1)	0.547

*The values are given as the mean and the standard deviation. †The values are given as the number of cases, with the percentage in parentheses.

Objectives

To Evaluate

90-day Complication, Readmission Reoperation Rates

Overlapping & Non-overlapping TJA

Mean Operating Room Time

Types Of Complications That Lead To Readmissions Or Reoperations

Methods

2,833 Consecutive Primary

THA/TKA

Single Institution

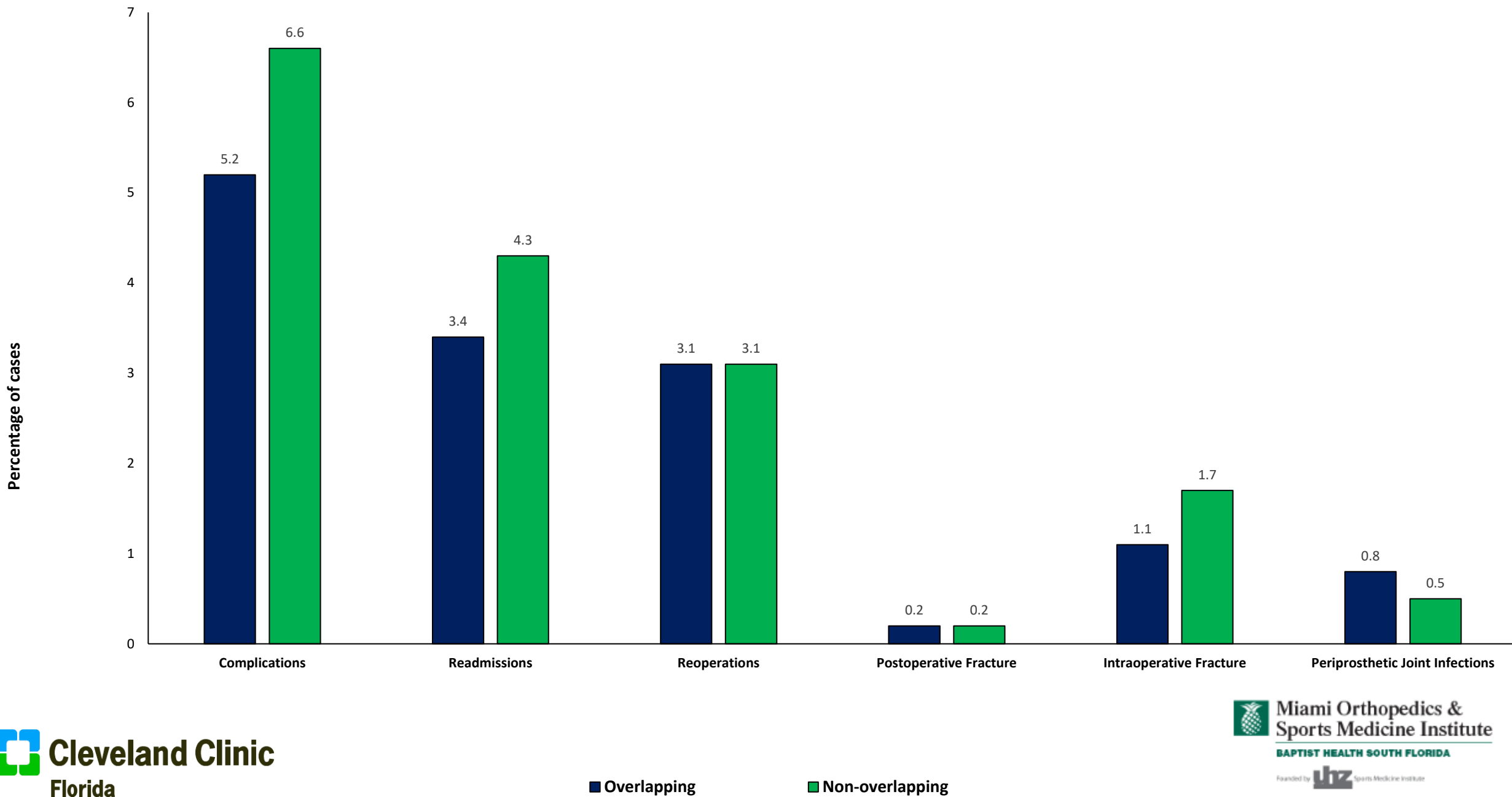
Overlapping Surgeries

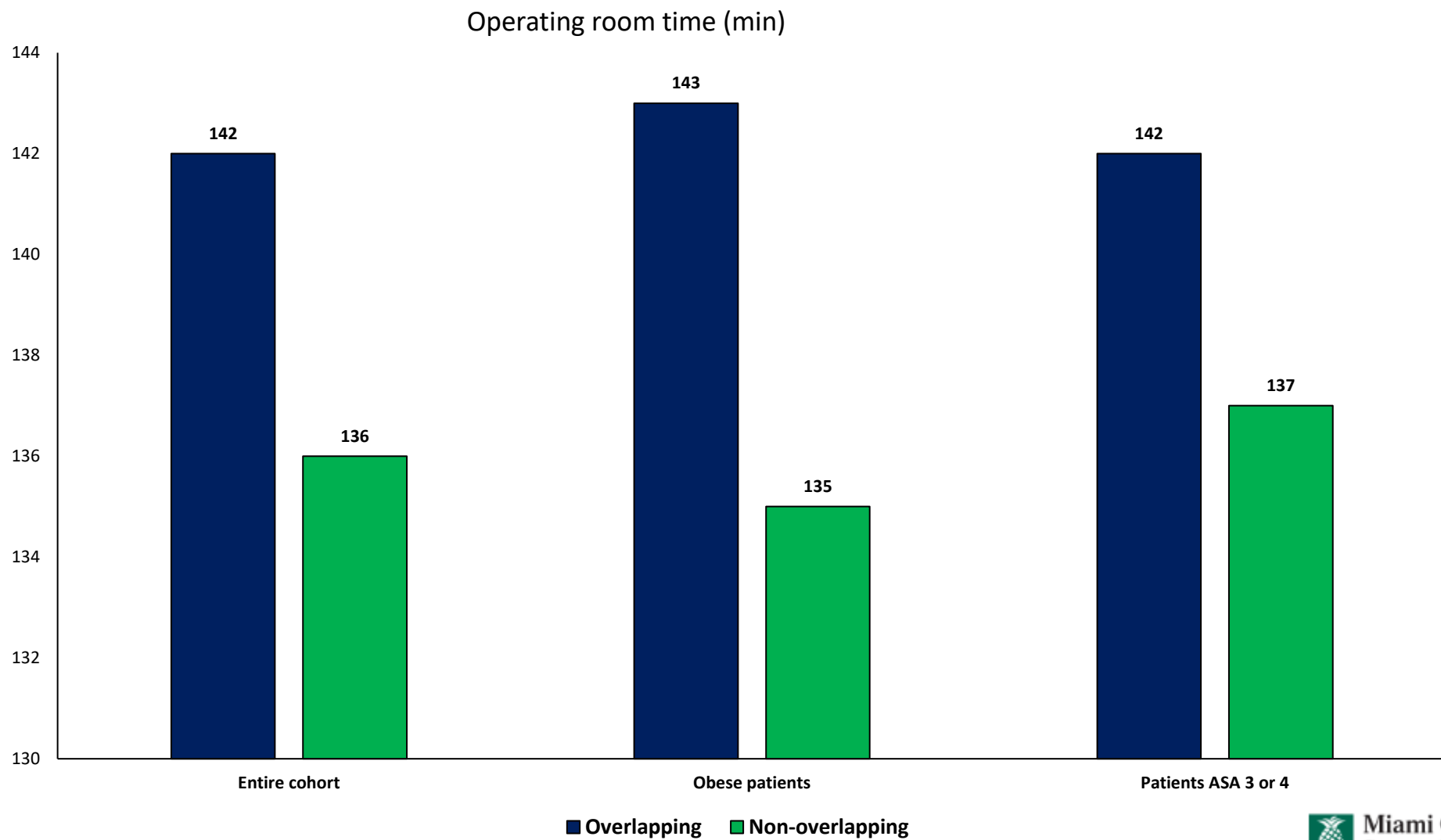
**Attending Surgeon Had Separate Case
In Another Room**

**Overlapping Room Time
Of At Least 30 Minutes**

Results

	Overlapping (N= 1,610)	Non-overlapping (N= 1,223)	P Value
Operating room time (min)*^	142.2 ± 18.4	136.4 ± 22.5	< 0.001
Postoperative within 90 days [†] (yes or no)			
Complications	83 (5.2%)	81 (6.6%)	0.104
Hospital readmissions	55 (3.4%)	53 (4.3%)	0.235
Reoperations	50 (3.1%)	38 (3.1%)	1.000
Periprosthetic joint infection	13 (0.8%)	6 (0.5%)	0.359
Intraoperative fracture	17 (1.1%)	21 (1.7%)	0.140
Postoperative fracture	3 (0.2%)	2 (0.2%)	1.000
* Mean ± standard deviation. [†] Number of cases (percentages) within groups. ^ Number of cases with data.			





Conclusions

Overlapping Surgeries

**No Increase In 90-day
Complication
Readmission
Reoperation Rates**

5-minute Increase Mean Operating Room Time Of Overlapping Surgeries

Overlapping Surgery Does Not Lead To Detrimental Outcomes

Thank You