



MIDWEST
ORTHOPAEDICS
AT RUSH

OrthoCarolina

Onlay Versus Inlay Biceps Tenodesis for Long Head Biceps Tendinopathy: A Systematic Review and Meta-Analysis

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DISCLOSURES

Disclosure

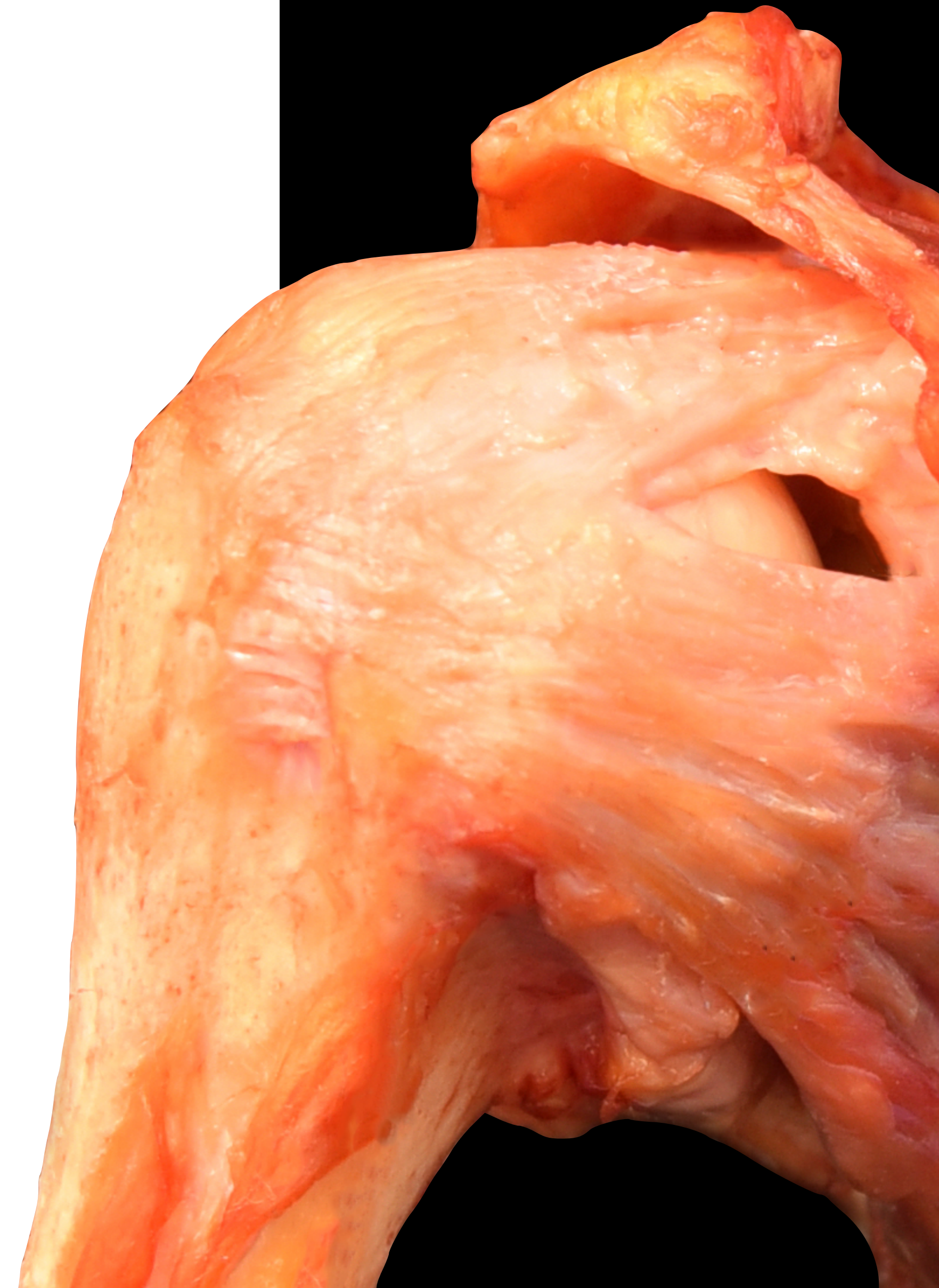
I (and/or my co-authors) have
something to disclose.

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The course syllabus, or

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PURPOSE

TO COMPARE...

**Clinical outcomes and complications
between only versus inlay humeral
fixation for biceps tenodesis for LHBT
pathology**

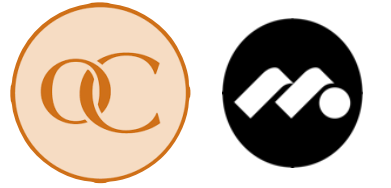
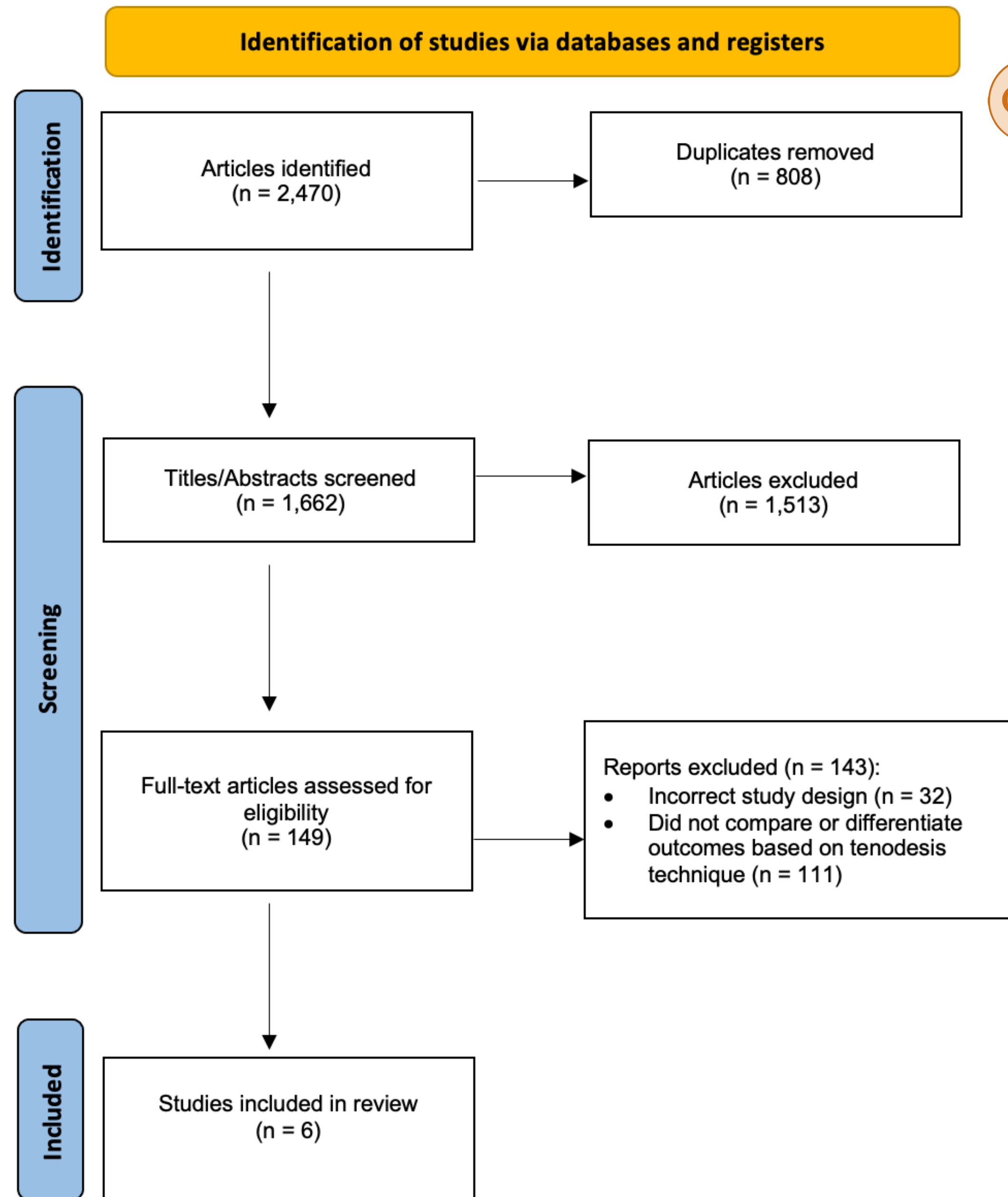


METHODS

LITERATURE SEARCH

PubMed, EMBASE,
Cochrane Library

6 Articles LOE III



RESULTS

418 Patients (252 onlay suture anchors, 166 inlay interference screw)

Mean Age: 56.84 yrs (219 Male, 187 Female)

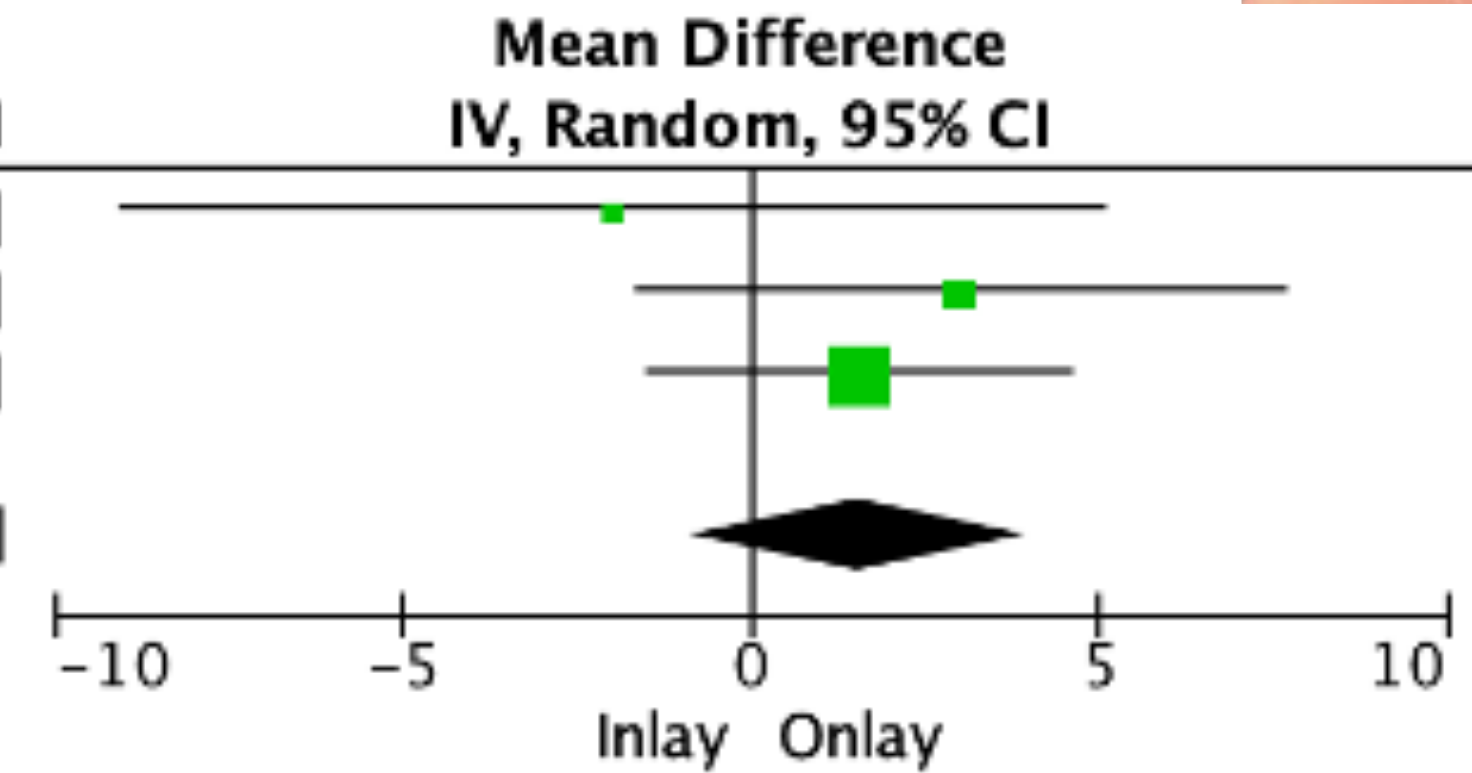


OUTCOME SCORES

ASES

Study or Subgroup	Onlay			Inlay			Weight	Mean Difference IV, Random, 95% CI
	Mean	SD	Total	Mean	SD	Total		
Haidamous (2020)	83	15	53	85	18	37	11.5%	-2.00 [-9.07, 5.07]
Millett (2008)	77	10	54	74	11.33	34	26.6%	3.00 [-1.65, 7.65]
Yi (2019)	87.69	5.27	36	86.13	7.58	35	61.9%	1.56 [-1.48, 4.60]
Total (95% CI)			143			106	100.0%	1.53 [-0.86, 3.93]

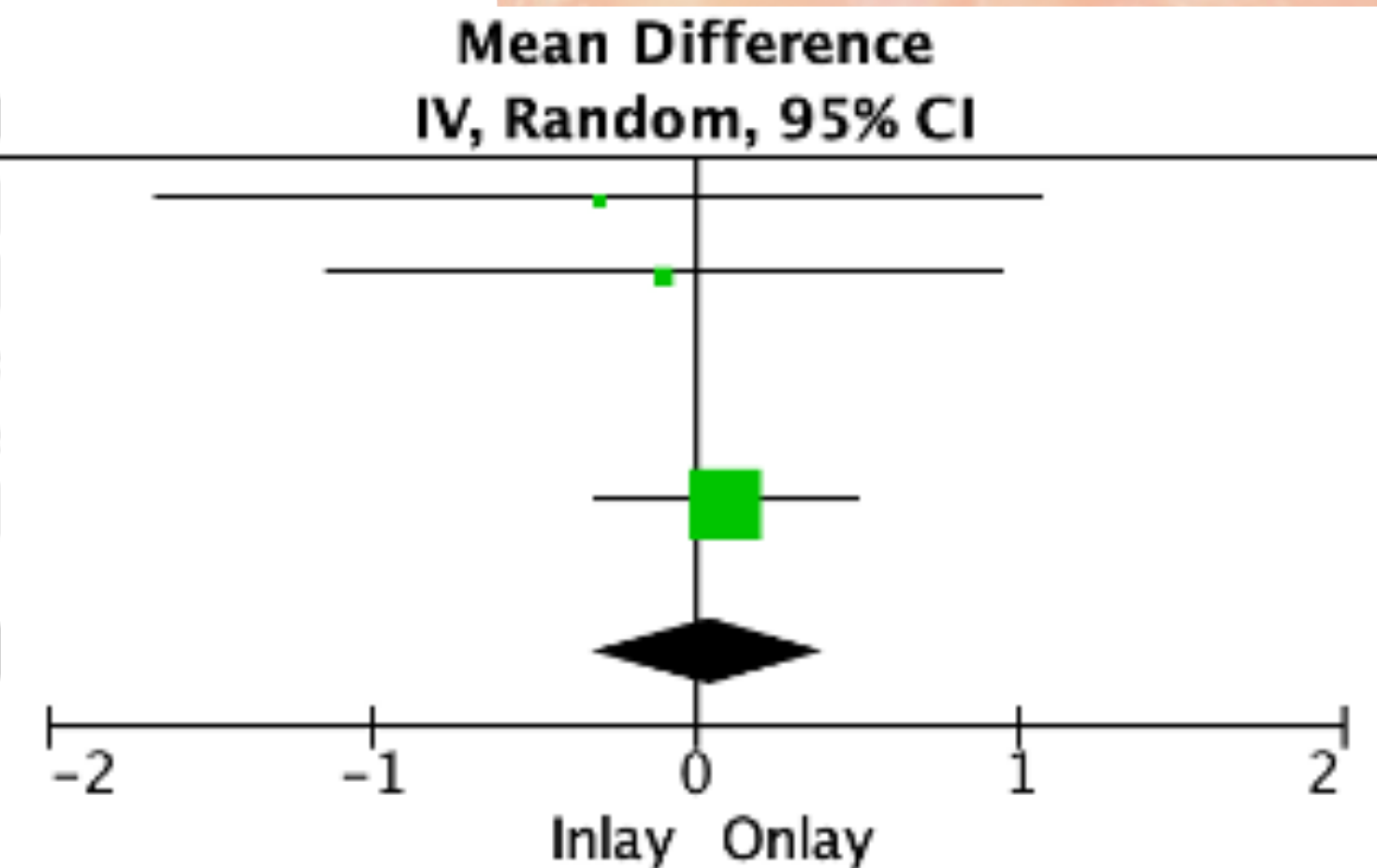
Heterogeneity: $\tau^2 = 0.00$; $\chi^2 = 1.34$, $df = 2$ ($P = 0.51$); $I^2 = 0\%$
 Test for overall effect: $Z = 1.25$ ($P = 0.21$)



VAS

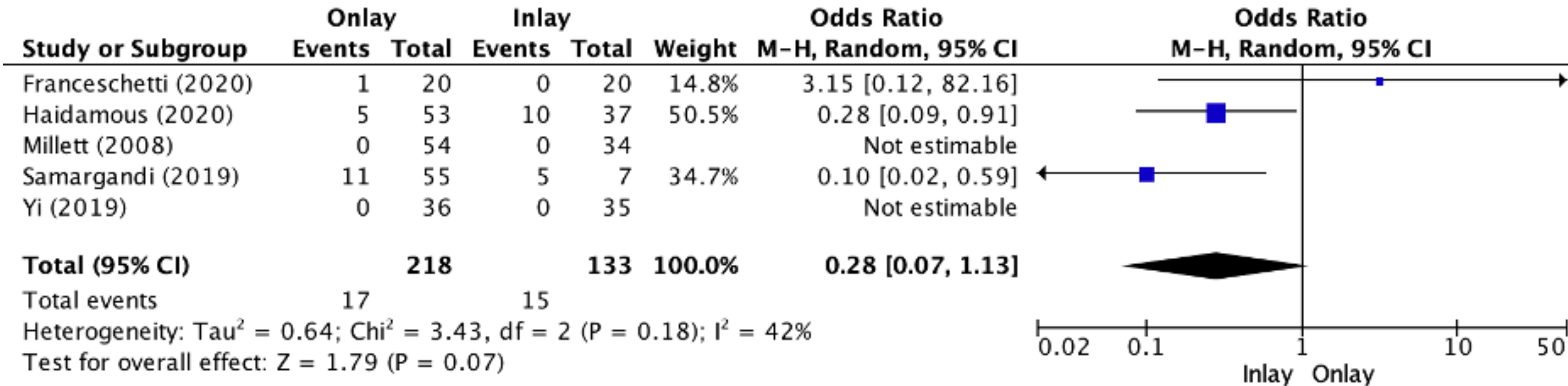
Study or Subgroup	Onlay			Inlay			Weight	Mean Difference IV, Random, 95% CI
	Mean	SD	Total	Mean	SD	Total		
Franceschetti (2020)	5.5	2.1	20	5.8	2.3	20	7.1%	-0.30 [-1.66, 1.06]
Haidamous (2020)	1.8	2.1	53	1.9	2.7	37	12.3%	-0.10 [-1.14, 0.94]
Millett (2008)	2.6	0	54	2.5	0	34		Not estimable
Samargandi (2019)	1.74	0	55	2.14	0	7		Not estimable
Yi (2019)	2.13	0.91	36	2.04	0.83	35	80.6%	0.09 [-0.31, 0.49]
Total (95% CI)			218			133	100.0%	0.04 [-0.32, 0.40]

Heterogeneity: $\tau^2 = 0.00$; $\chi^2 = 0.37$, $df = 2$ ($P = 0.83$); $I^2 = 0\%$
 Test for overall effect: $Z = 0.21$ ($P = 0.83$)

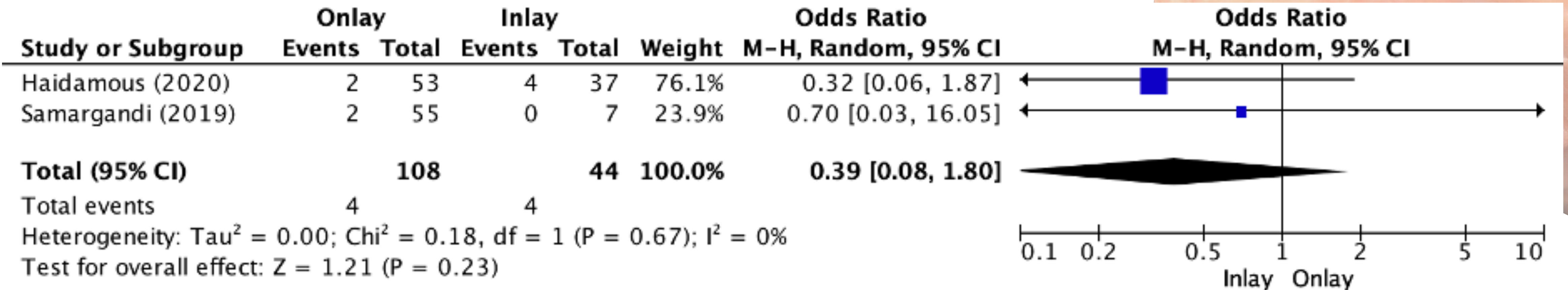


COMPLICATIONS

POPEYE DEFORMITY



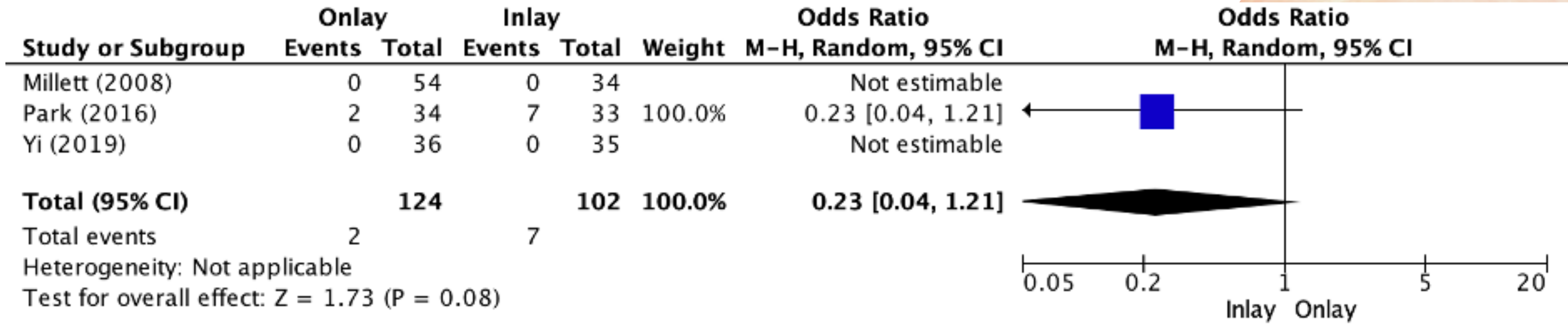
CRAMPING



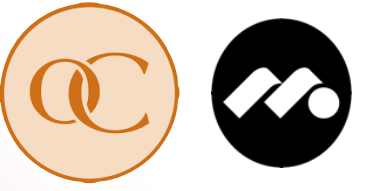
COMPLICATIONS



FAILURE



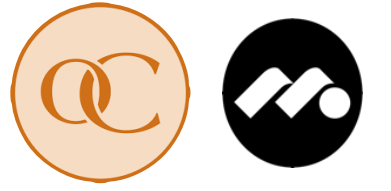
CONCLUSIONS



**Both result in improved clinical outcomes
and are low risk for “Popeye” deformities**



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