ISAKOS CONGRESS 2025
MUNICH GERMANY
June 8–11

Biological augmentation in revision surgery: a pilot study of the effect of a bioinductive collagen patch in patients with rotator cuff retear and a previous arthroscopic rotator cuff repair

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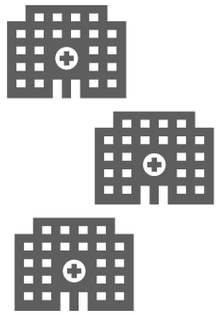
Faculty Disclosure Information

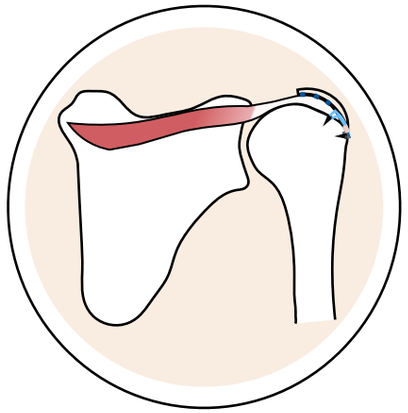
- Nothing to disclosure

Methods



24 patients RC retear

mean follow-up 17.5 months (12-24)



Inclusion criteria

<75 years

RM pre-op + 12 months PO

Exclusion criteria

Irreparable RCT

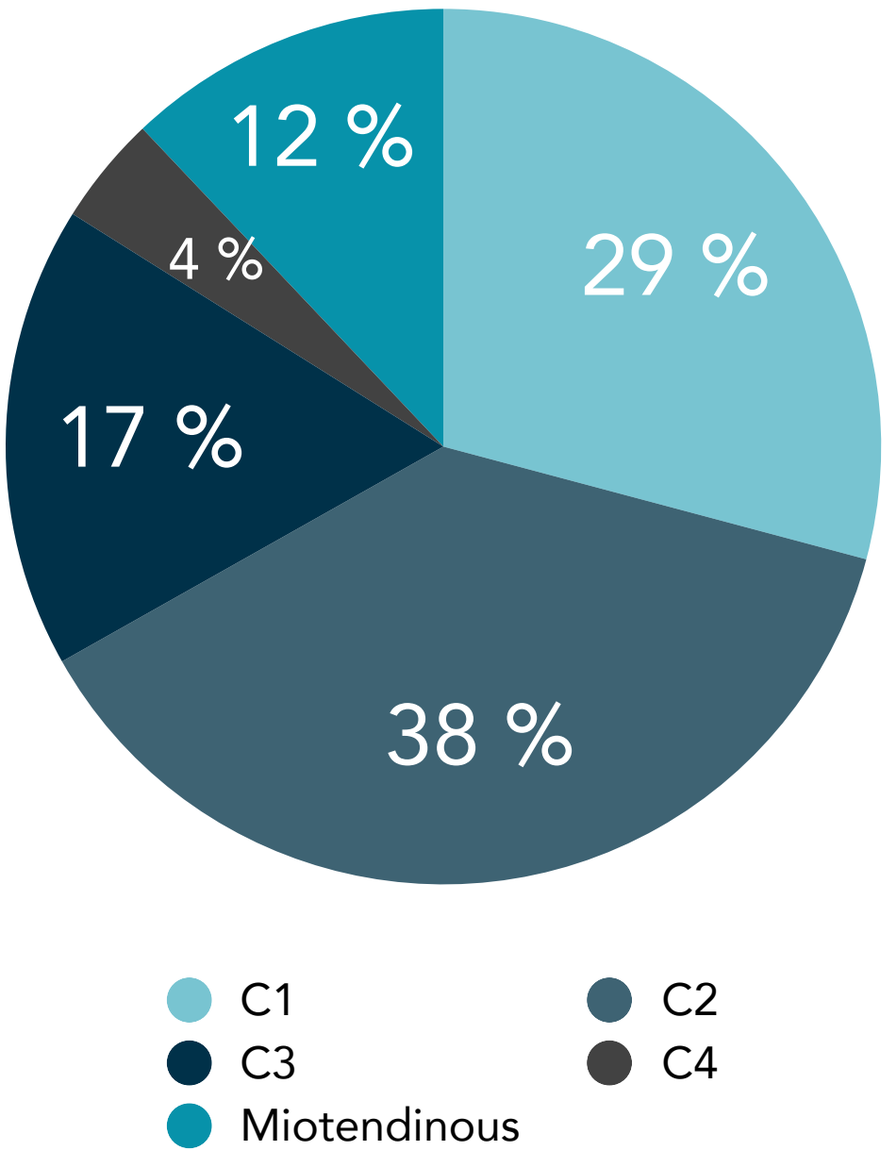
Goutallier>3

Previous surgery ≠ RCR

Results: preoperative data

24 patients

MRI Preop

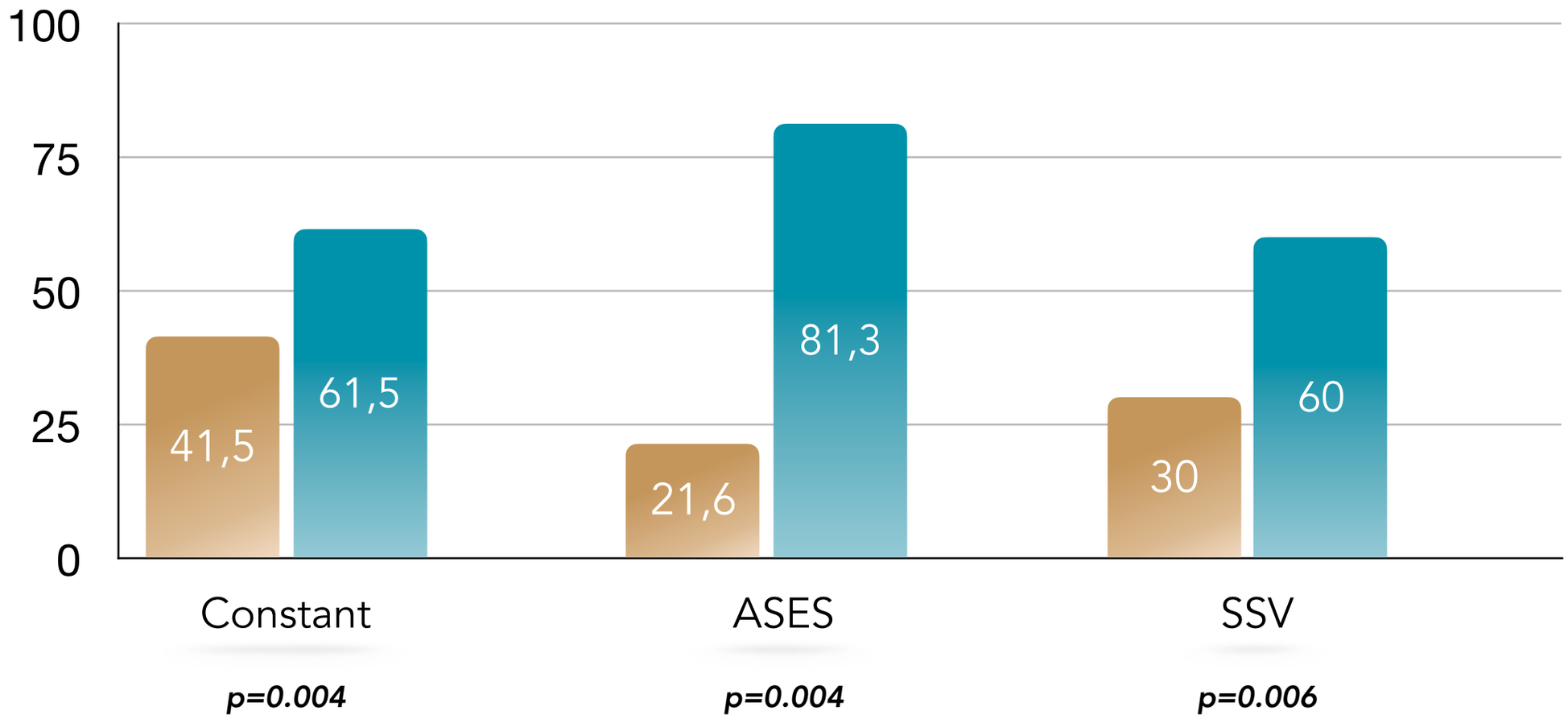


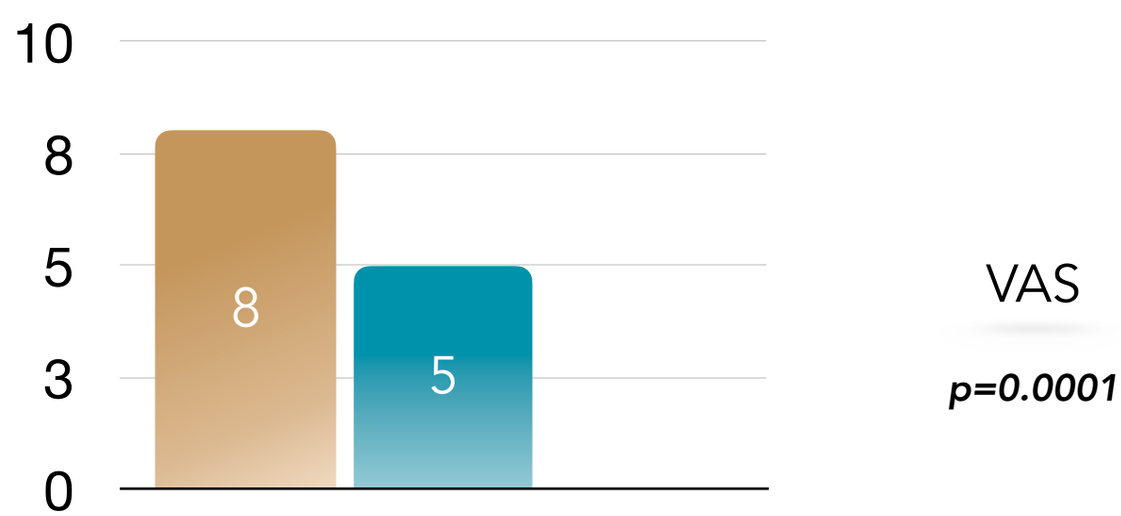
Snyder classification

	Median (range), total (%)
Age	57.6 years (38-67)
Gender	
Male	15 (62.5%)
Female	9 (37.5%)
Side	
Right	15 (62.5%)
Left	9 (37.5%)
Dominant side	
Yes	15 (62.5%)
No	9 (37.5%)
Comorbidities	
Diabetes	3
Dyslipemia	2
Hypothyroidism	1
Steroid injections in the last 6 mo	16
Activity degree	
1	4 (17.4%)
2	4 (17.4%)
3	3 (8.7%)
4	13 (56.5%)
Previous surgery	
1	21 (87.5%)
2	3 (12.5%)

Results: postoperative outcomes

Clinical outcomes

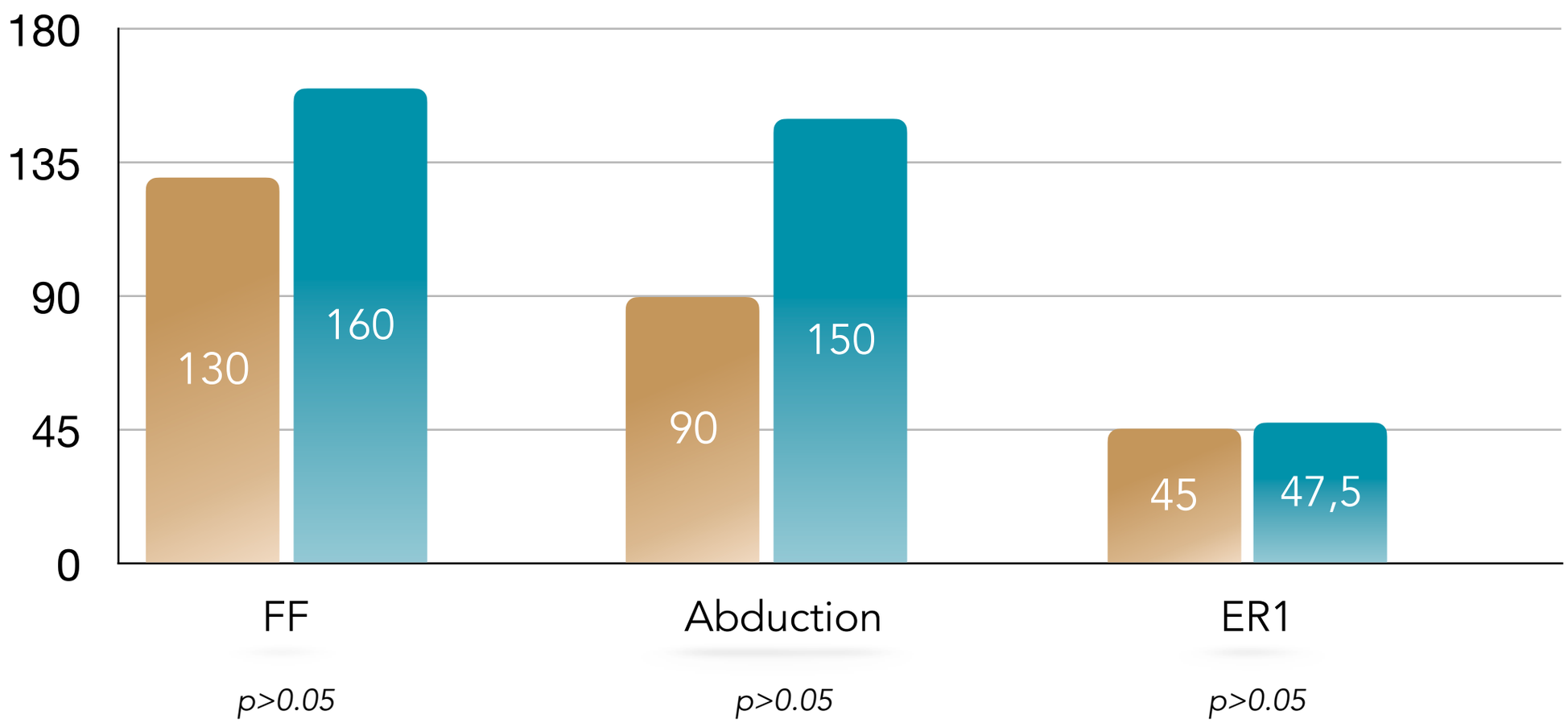




Preop Postop

Results: postoperative outcomes

Range of movement



Preop Postop

Results: postoperative MRI

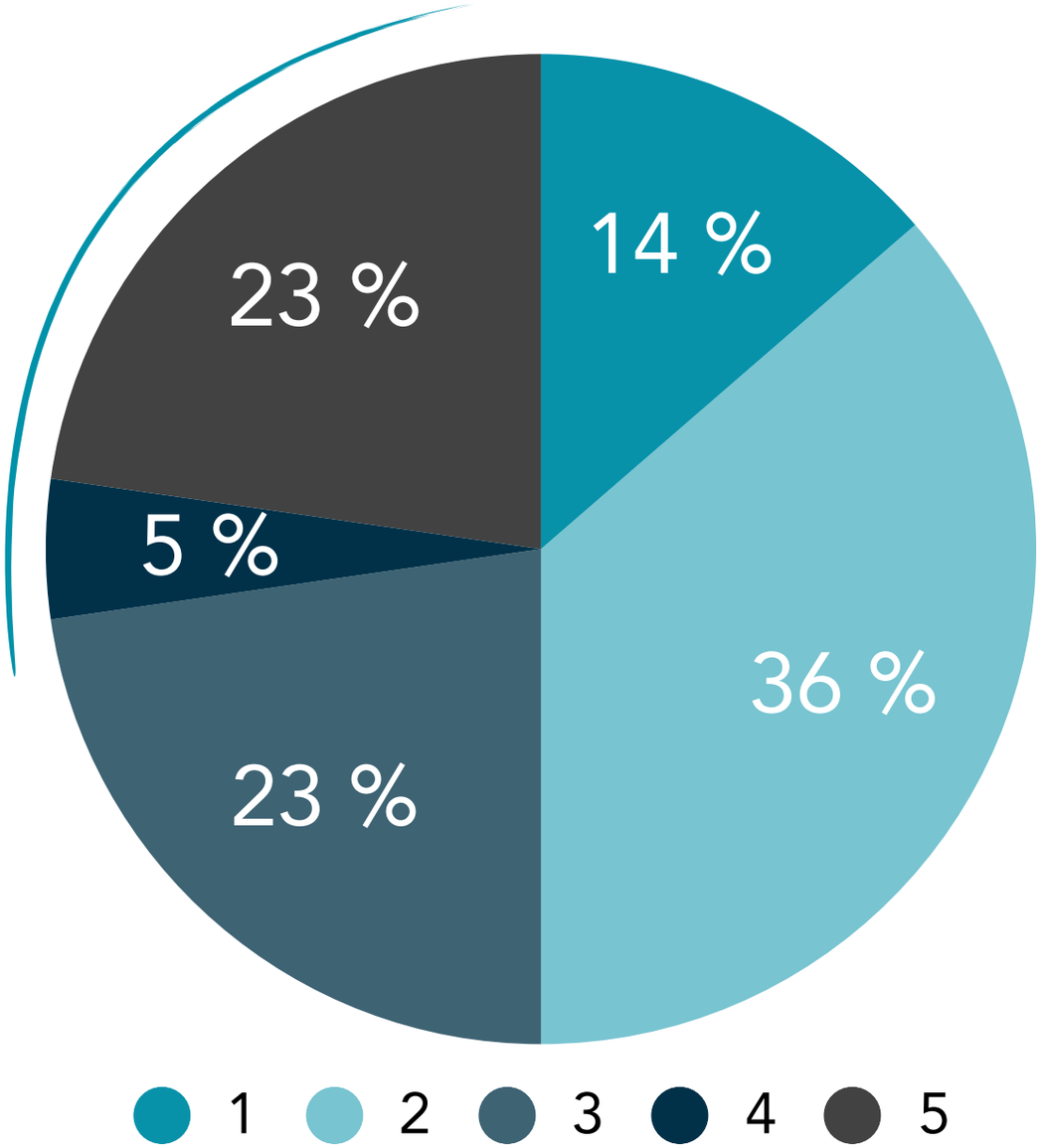
Tear size ↓ 4/7 patients

Tear location ≠ Preop 1/7 patients

Revision surgery 1/7 patients

Retear 29% (7/24)

MRI Postop Sugaya

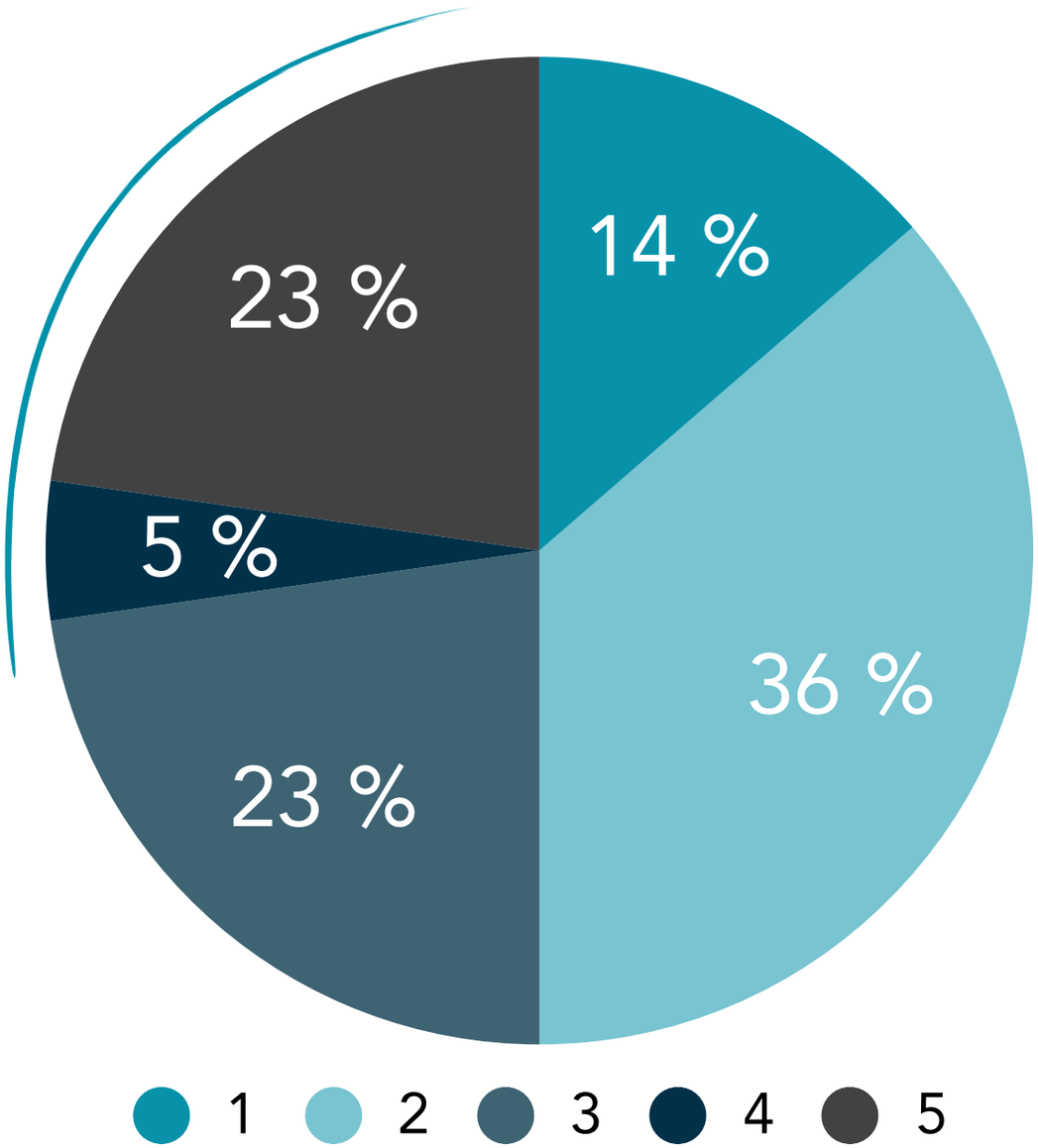


Results: postoperative MRI

	Healed tendon	Retear	p value
VAS	4 (0-8)	7 (4-8)	**p=0.049**
Constant	67 (20-98)	35 (24-69)	p=0.085
ASES	59.4 (15-100)	32.4 (13.4-61.7)	p=0.101
SSV	60 (5-100)	30 (0-70)	**p=0.033**

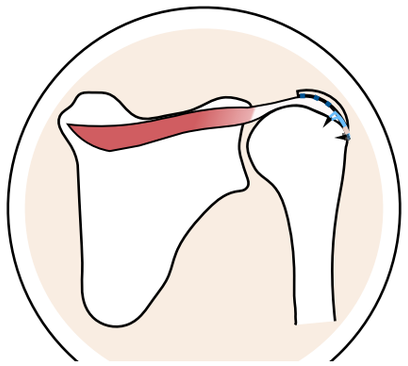
Retear 29% (7/24)

MRI Postop Sugaya



Conclusion

24 patients



Revision rotator cuff tear with bioinductive implant

Retear

29%

(7/24)

Tear size

Preoperative to Postoperative

4/7

patients

Constant

ASES

SSV

VAS

References

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Thank you

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