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Comparison Of Inlay Dynamic Anterior Stabilization (DAS) With Biceps Long Head Plus Remplissage Vs. Bankart Repair Plus Remplissage For Patients With Subcritical Glenoid Bone Loss And On-Tract Hill-Sachs Lesions: One-Year Clinical Results

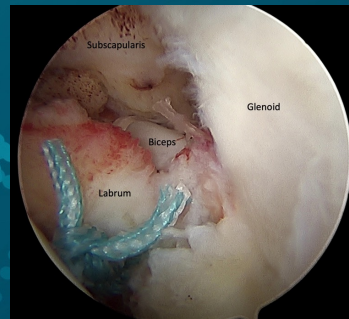
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Faculty Disclosure Information

- Nothing to disclosure

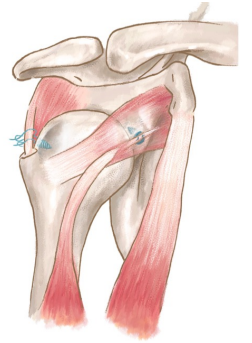


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Aim of study



Evaluate outcomes of arthroscopic DAS + Remplissage in patients with subcritical glenoid bone loss and on-tract Hill-Sachs lesion





Inclusion criteria

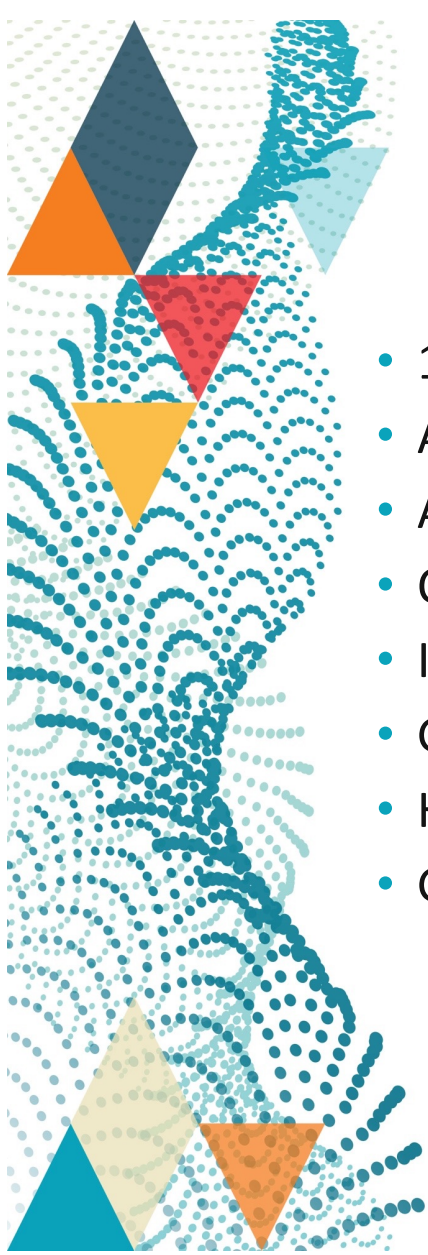
- Retrospective, 2022~2023, average 1yr f/u
- Patients were diagnosed
 - Anteroinferior glenohumeral instability
 - Subcritical glenoid bone loss (around 13.5% to 20%)
 - On-tract Hill-Sachs lesion
- → DAS + Remplissage
- ISIS score, Rowe score, WOSI score, ROM



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Patient characteristic demographic and Results

- 18 (12M, 6F) patients
- Age: 22.5 ± 3.8
- Average follow-up of 13.3 ± 3.1 months
- Contact and overhead sports: 66.7%
- ISIS score: 7.3 ± 2.0
- Glenoid bone size: 28.8 ± 11.7 mm
- Hill-Sachs lesion: 12.3 ± 5.0 mm
- Glenoid defect ratio: $14.7 \pm 4.8\%$

- Post OP ROM (all $P > .05$)

- Forward elevation:

- $166.7 \pm 10 \rightarrow 166.7 \pm 8.2$

- External rotation 1:

- $68.1 \pm 10 \rightarrow 66.7 \pm 8.2$

- Internal rotation:

- $10 \pm 2 \rightarrow 9 \pm 2$



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Post-OP PROMs

- SSV: $40 \pm 8.4 \rightarrow 84.7 \pm 10.4$ ($P < .001$)
- ROWE Stability: 50
 - Motion: 18.3 ± 2.6
 - Function: 28.3 ± 2.6
 - Total: $39 \pm 11.9 \rightarrow 91.7 \pm 3.8$ ($P < .001$)
- WOSI: $714 \pm 151.9 \rightarrow 114.2 \pm 61$ ($P < .001$)
- No postoperative Popeye deformity, biceps cramping, or other complications



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Limitations

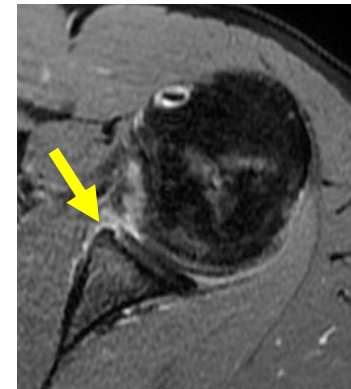
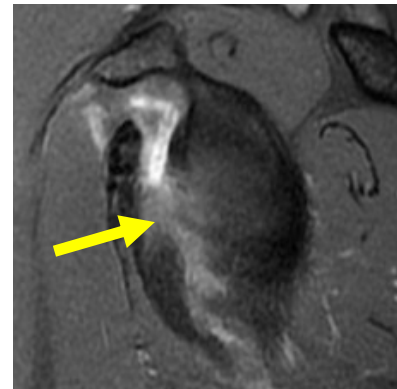
- Dislocators vs. sublaxators
- Peripheral-Track and Central-Track Hill-Sachs Lesions?
- Limited numbers (18 DAS+R)



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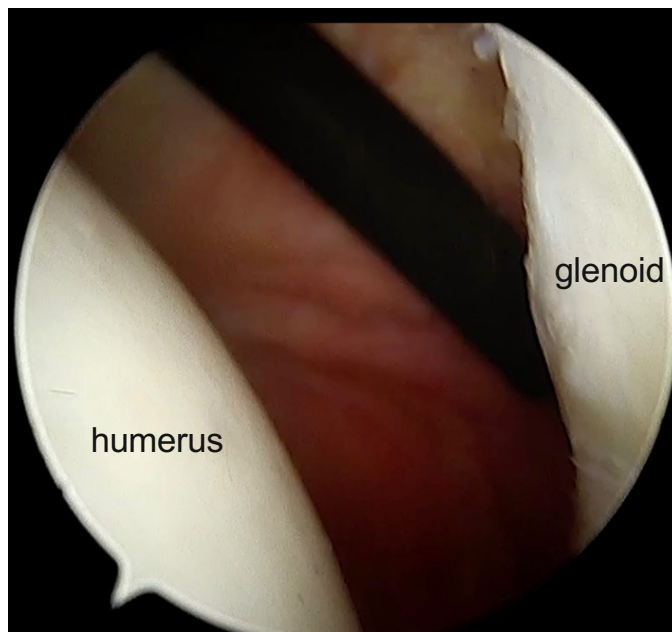
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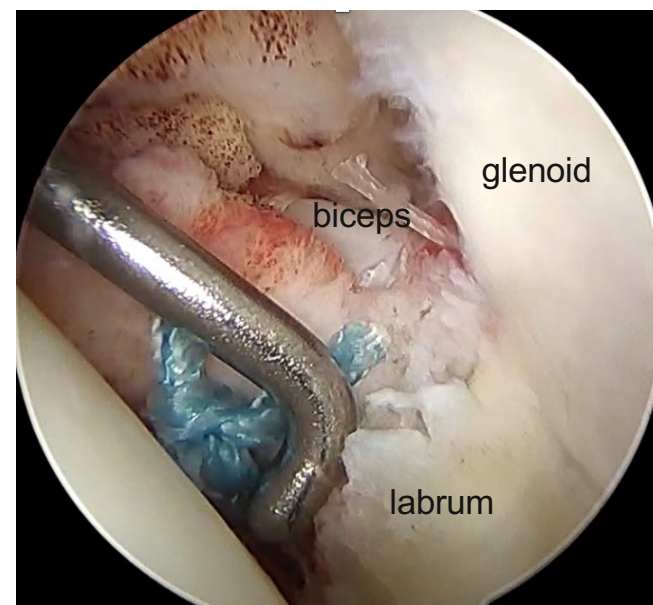
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PreOP



PostOP



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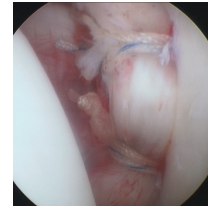


Glenoid Bone loss

0%

13.5%

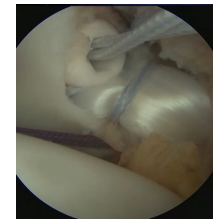
20%



subjective instability: 62%

revision surgery: 32%

Bankart $\pm$ Remplissage



Dynamic anterior stabilization



Latarjet



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Conclusion

- DAS + Remplissage provides an alternative surgical treatments for anteroinferior glenohumeral instability with subcritical glenoid bone loss and on-track Hill-Sachs lesions.
- Subcritical glenoid bone loss and off-track Hill-Sachs lesion?



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References

- <https://doi.org/10.1016/j.eats.2024.103256>
- <https://doi.org/10.1016/j.eats.2017.08.049>
- <https://doi.org/10.1016/j.arthro.2021.11.043>



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