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Massachusetts  
June 18–June 21

# LUtaret - Limit Unique Coracoid Osteotomy suture button Latarjet procedure (Based on suture button fixation Latarjet concept)

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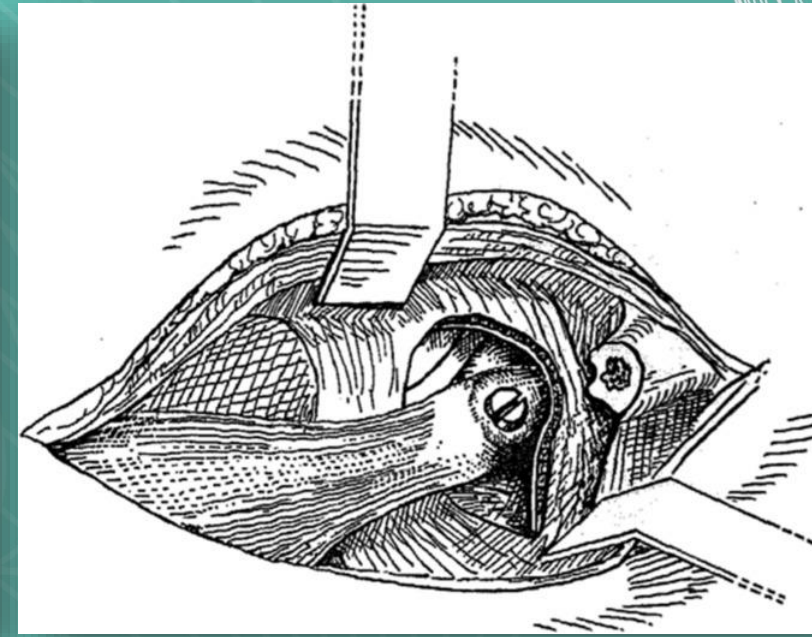
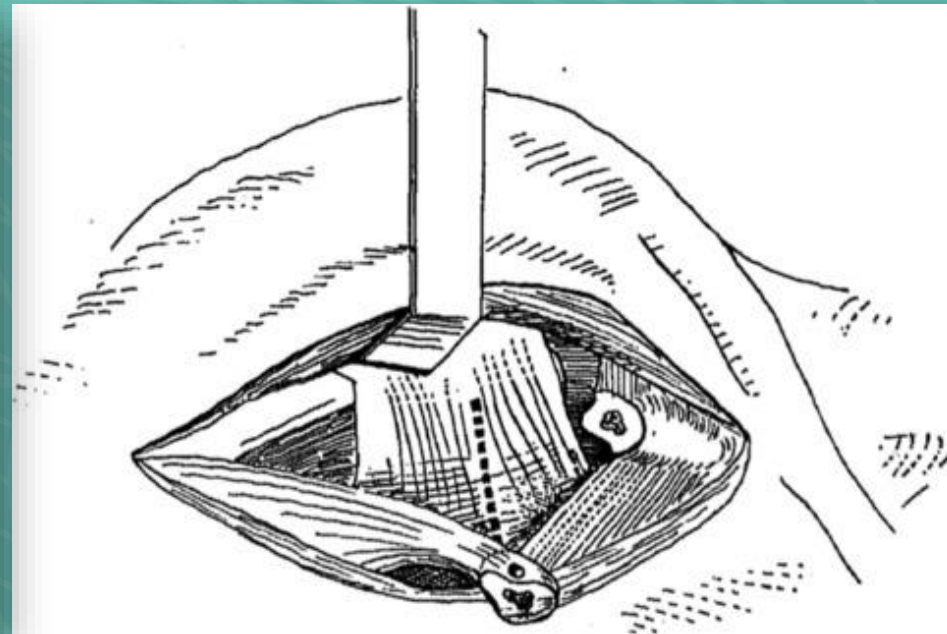
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# Disclosures:

# No conflict of interest



Latarjet procedure enables most patients with shoulder dislocation to return to contact sports, which is by far the most reliable treatment for shoulder dislocation



M Latarjet. Treatment of recurrent dislocation of the shoulder. *Lyon Chir*, 49 (1954), pp. 994-997

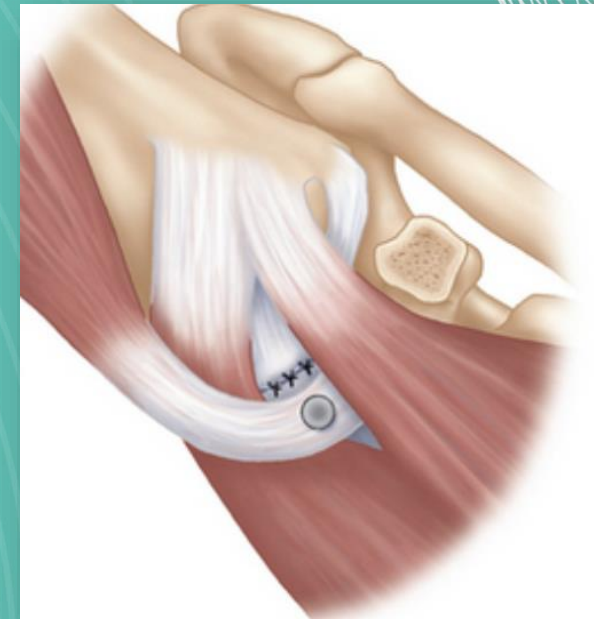
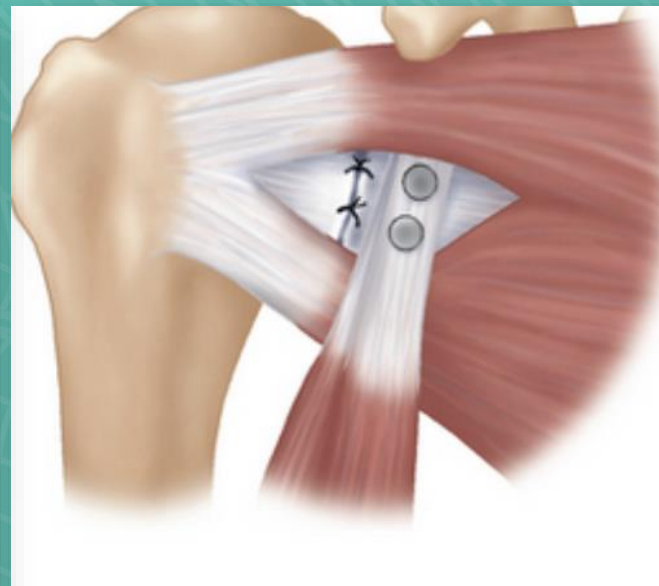


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**G. Walch standardized the Latarjet procedure, established its triple blocking mechanism, and stabilized the clinical outcomes**

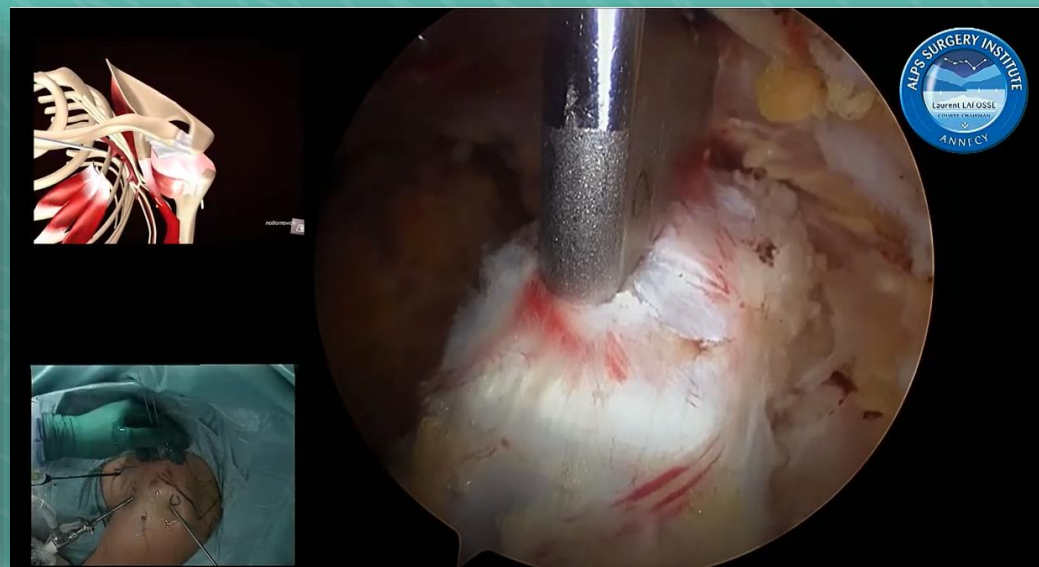


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# L.Laffosse actively guided and improved the arthroscopic Latarjet technique which makes the intra-articular structures be better evaluated and correctly handled



# From 2012 Arthroscopic Suture-Button Latarjet

## Arthroscopic Latarjet

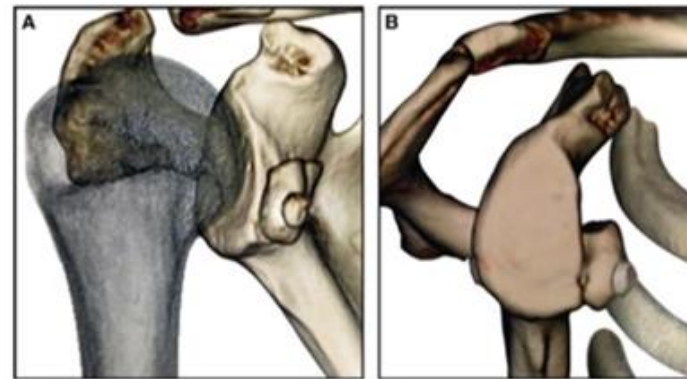
Suture-Button Fixation Is a Safe & Reliable Alternative to Screw Fixation



Pascal Boileau, MD



Pascal Boileau, MD  
France



J Shoulder Elbow Surg (2016) 25, 76-81



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A guided surgical approach and novel fixation method for arthroscopic Latarjet

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## Suture button fixation

### Latarjet resulted in:

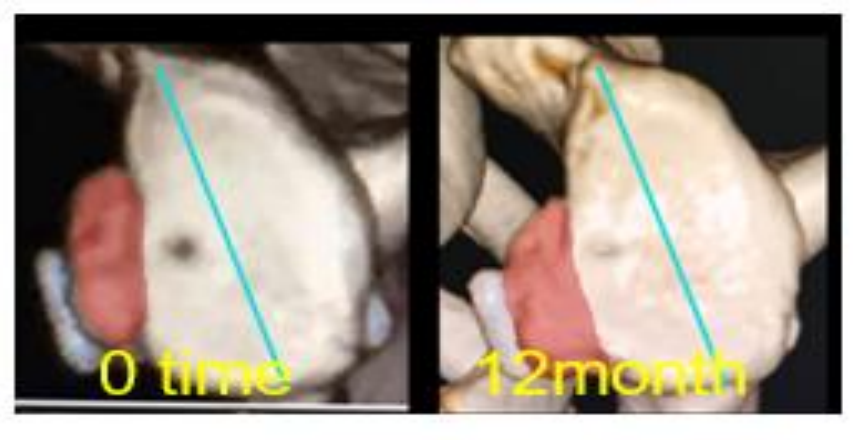
1. Graft more accurate
2. No screw complications
3. High healing rate



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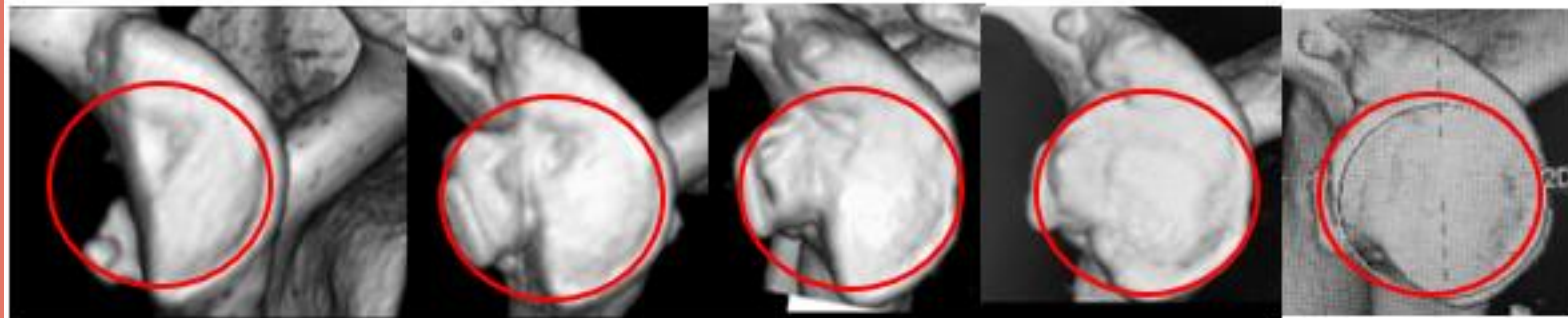
Expanding remodeling 2y/FU



The changes in bone volume  
(The shaded part is the enlarged bone comparing to 0 time graft volume)

Our research has proved three characteristics of graft healing in suture button fixation

- 1、 Less bone resorption
- 2、 Expanding remodel
- 3、 OFC restoration

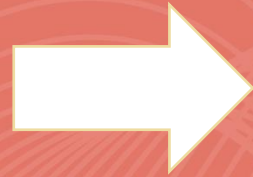


Case with 35% defect 6y remodeling into outer fitting circle

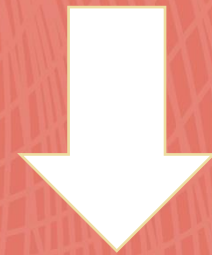
XJ, WL, et al. Modified Arthroscopic Latarjet Procedure: Suture-Button Fixation Achieves Excellent Remodeling at 3-Year Follow-up. AJSM. 2020

Suture button Latarjet result in:

- 1、 Less bone resorption
- 2、 Expanding remodel
- 3、 OFC restoration



Using the suture button, it is not necessary to perform complete coracoid osteotomy, but partial osteotomy, so as to preserve the CA ligament and pectoralis-minor



LUtarjet technique

---- Limit Unique Coracoid Osteotomy Suture Button Latarjet with Coracoacromial Ligament and Pectoralis Minor Preservation



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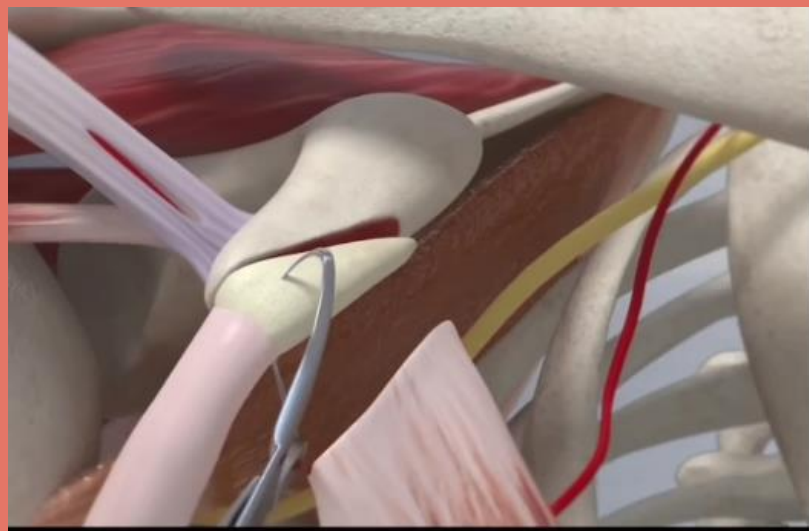
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# Lutarjet procedure

## Indications

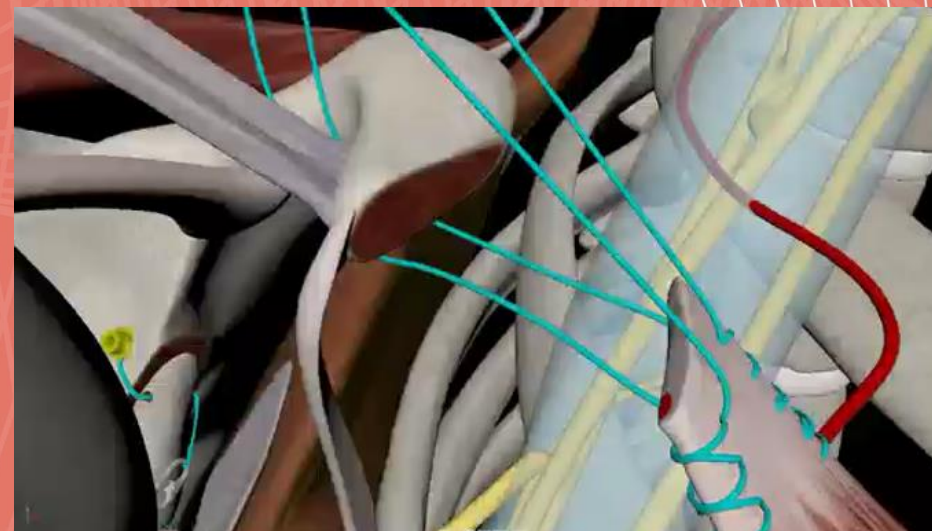
- Recurrent dislocation
- Glenoid bone loss >10%
- High-risk population: <25y, contact sports
- Engaging Hill-Sachs lesion
- HAGL lesion



Partial coracoid osteotomy



Outer fitting circle restore



CAL intact and pect-minor reconstructed



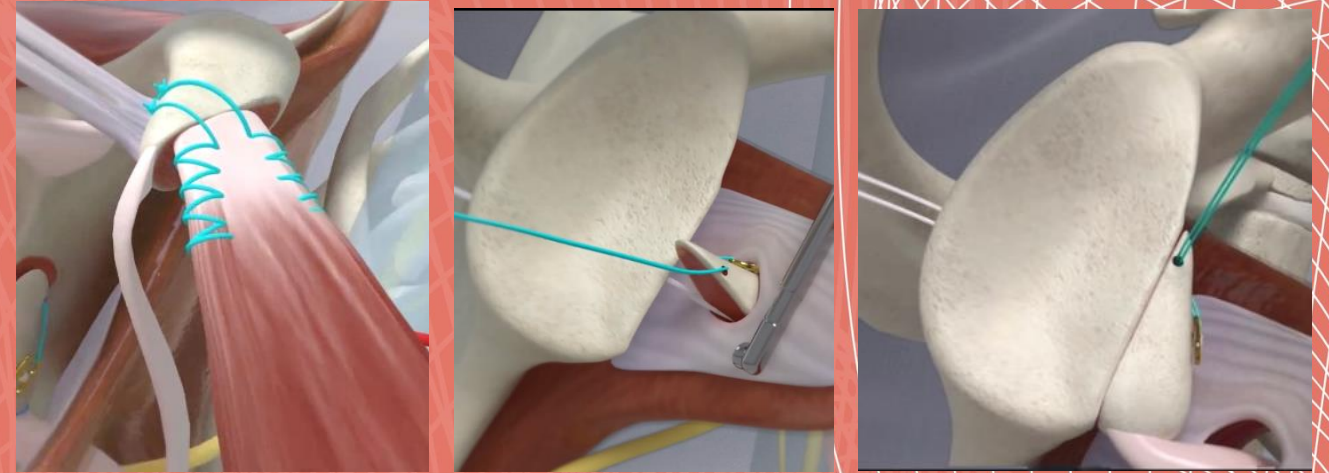
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# The advantages of LUtarjet

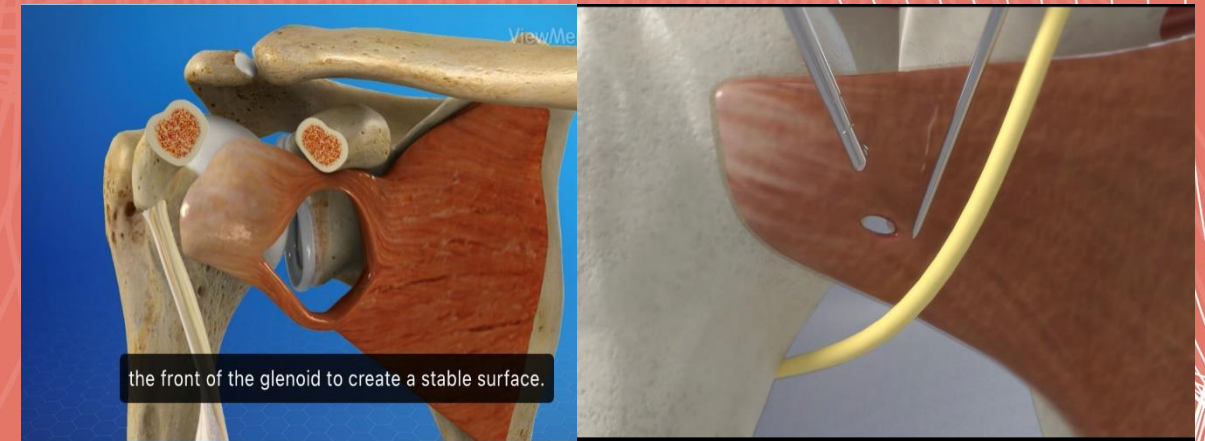
1. Limited unique individualized osteotomy with CAL and pect-minor preserved



Partial coracoid osteotomy, outer fitting circle restoration, and pect-minor reconstruction

2. The healing surface of the graft does not need to be freshened

3. The triangular bone graft can easily pass through the smaller split SSC window



SSC split comparing the traditional Latarjet with LUtarjet



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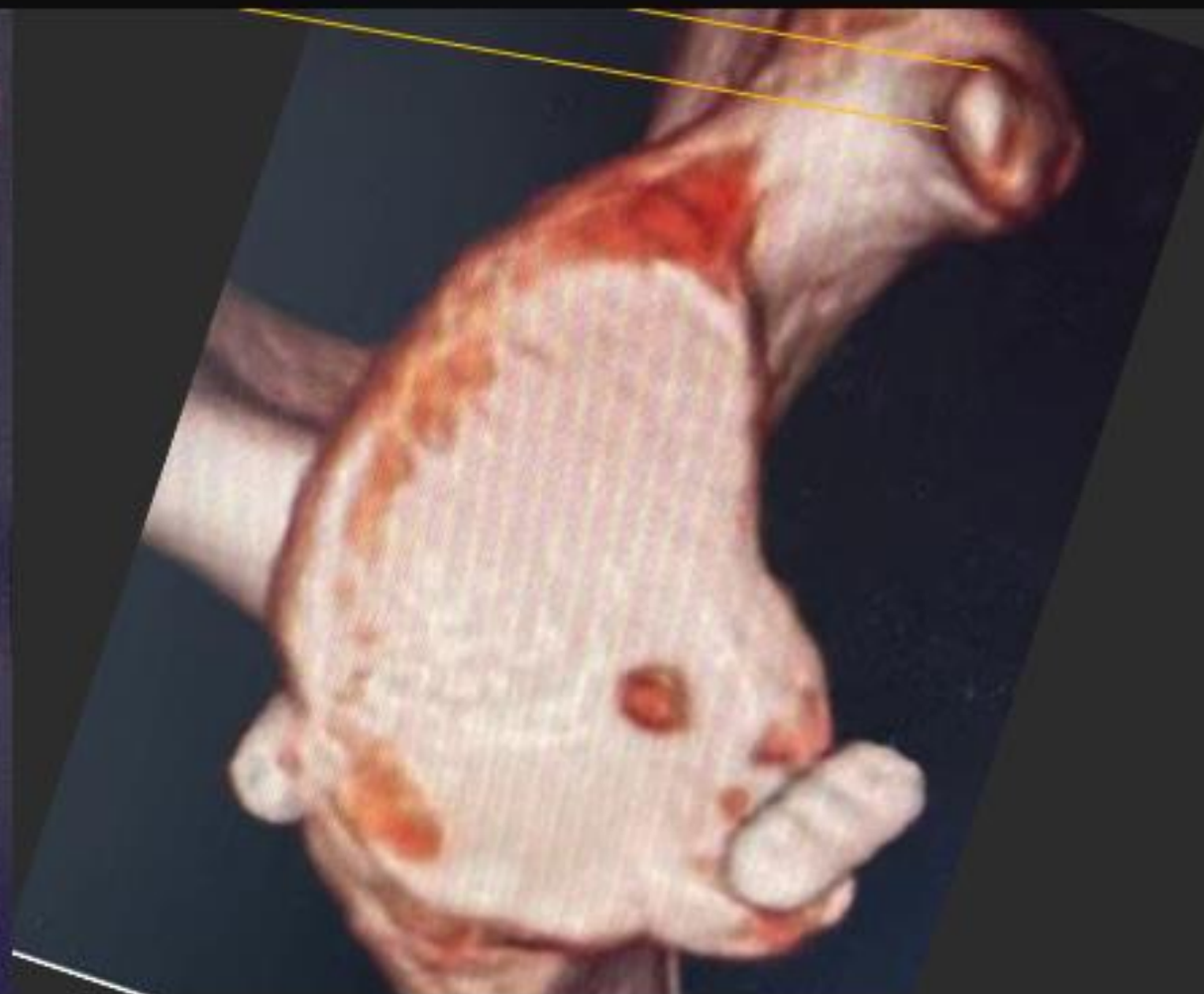


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## 3D-CT scan of LUtarjet technique



0 time postoperatively



6 months postoperatively



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# Lutarjet procedure

- **Preserved the triple block anti-dislocation mechanism of traditional Latarjet procedure**
- **Preserved the advantages of suture button fixation (good bone graft positioning and healing without screw complications)**
- **Preserved coracoacromial arch and pectoralis minor muscle that had to be sacrificed in traditional Latarjet procedure**
- **The interference of subscapular tendon reaches the minimum**
- **May be the best solution in the treatment of recurrent shoulder dislocation**



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# Thank you for your attention

1. Latarjet M. Treatment of recurrent dislocation of the shoulder. *Lyon Chir.* 1954;49:994–7.
2. Walch G, Charret P, Pietro-Paoli H, Dejour H. Anterior recurrent luxation of the shoulder. Postoperative recurrences. *Rev Chir Orthop Reparatrice Appar Mot.* 1986;72:541–55.
3. Lafosse L, Lejeune E, Bouchard A, Kakuda C, Gobezie R, Kochhar T. The arthroscopic Latarjet procedure for the treatment of anterior shoulder instability. *Art Ther.* 2007;23:e1241–5.
4. Boileau P, Gendre P, Baba M, Thélu CÉ, Baring T, Gonzalez JF, et al. A guided surgical approach and novel fixation method for arthroscopic Latarjet. *J Shoulder Elb Surg.* 2016;25:78–89.
5. Xu J, Liu H, Lu W, Zhu W, Peng L, Ouyang K, et al. Clinical outcomes and radiologic assessment of a modified suture button arthroscopic Latarjet procedure. *BMC Musculoskelet Disord.* 2019;20:173. 18.
6. Xu J, Liu H, Lu W, Deng Z, Zhu W, Peng L, et al. Modified arthroscopic Latarjet procedure: suture-button fixation achieves excellent remodeling at 3-year follow-up. *Am J Sports Med.* 2020;48:39–47.
7. Deng Z, Lu W, et al. Latarjet-limit unique coracoid osteotomy Latarjet (With video). *Burns & Trauma*, 2022, 1

