

Does Latarjet restore glenoid track and results in a lower recurrence rate in off-track shoulders?

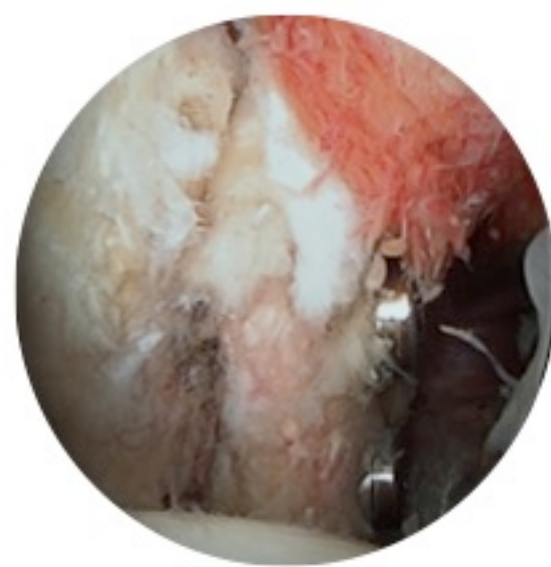
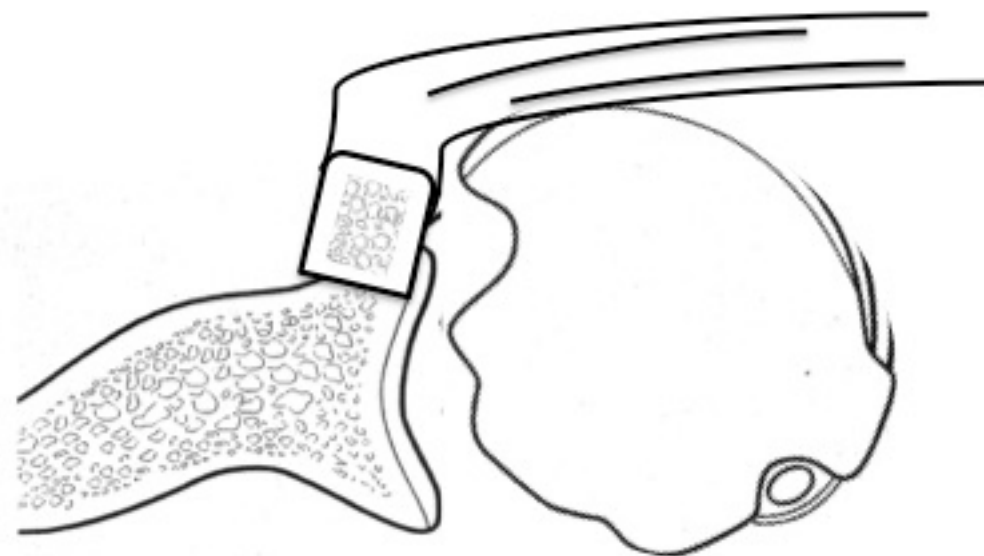
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How glenoid track should be restored ?

Objective

- Hypothesis: Latarjet restores glenoid track
- Purpose: To evaluate if Latarjet restores glenoid track and results in superior postoperative stability over Bankart repair in “off-track” unstable shoulders

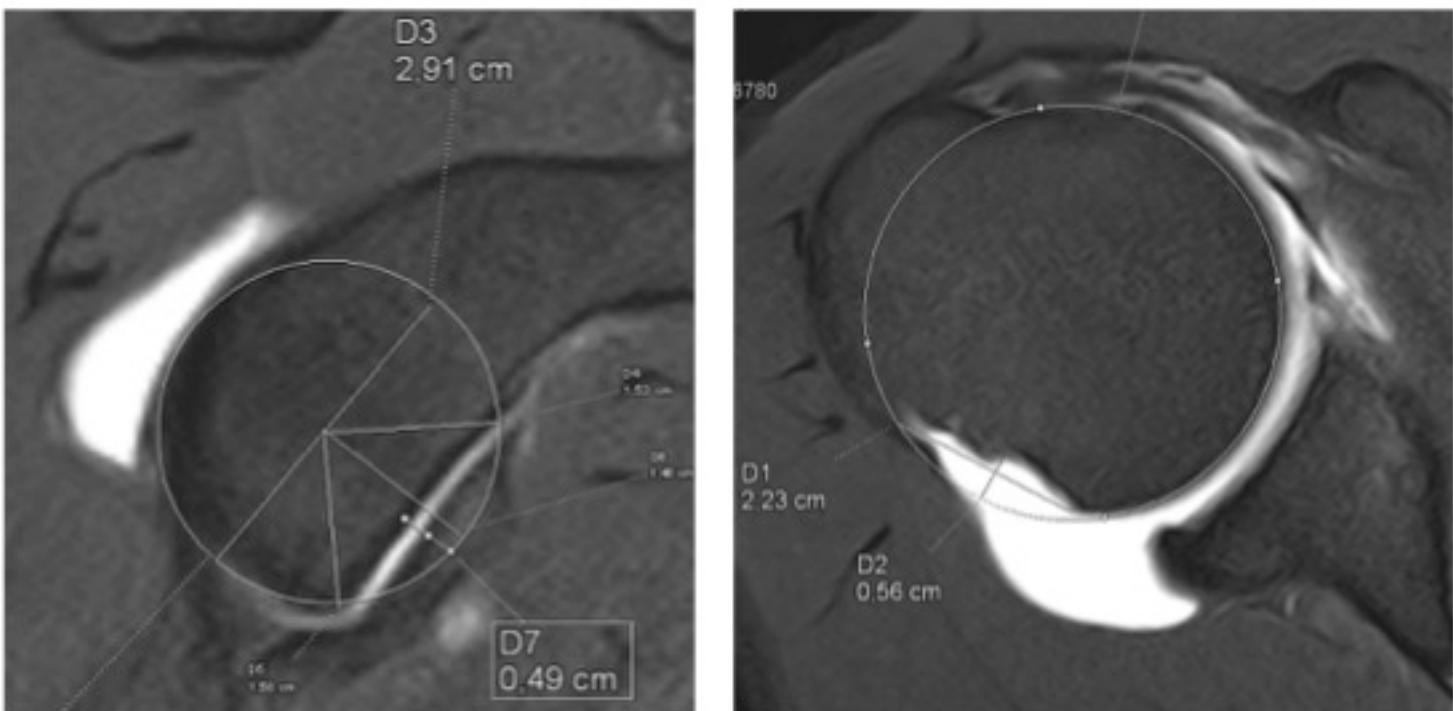


Patients and methods

- Single-center, retrospective, IIS-FJD IRB approved study
- 56 patients (mean age 29,6 yrs) with “off-track” bony lesions operated for anterior shoulder instability from 2010 to 2015 using either Bankart repair or Latarjet coracoid transfer techniques.
- Excluded:
 - “On-track” bony lesions
 - Patients operated with other techniques, including remplissage
 - Posterior and multidirectional instability
 - Revision instability surgery
 - Instability associated to rotator cuff tear

Glenoid track evaluation

- Glenoid track calculated on pre- and postoperative MRI or CT scan using specific software by measuring Hill-Sachs Index (HSI) and/or bony Bankart (BB)



GT = 0,83 (D-d)
HSI = HS + BB
Yamamoto N et al, JSES 2007
di Giacomo G et al, Arthroscopy 2013

Clinical evaluation

- Type of recurrence: Dislocation and/or subluxation
- F-up >2 yr
- Scores: Rowe, WOSI and SSV
- Level of athletic activity: 1-5*

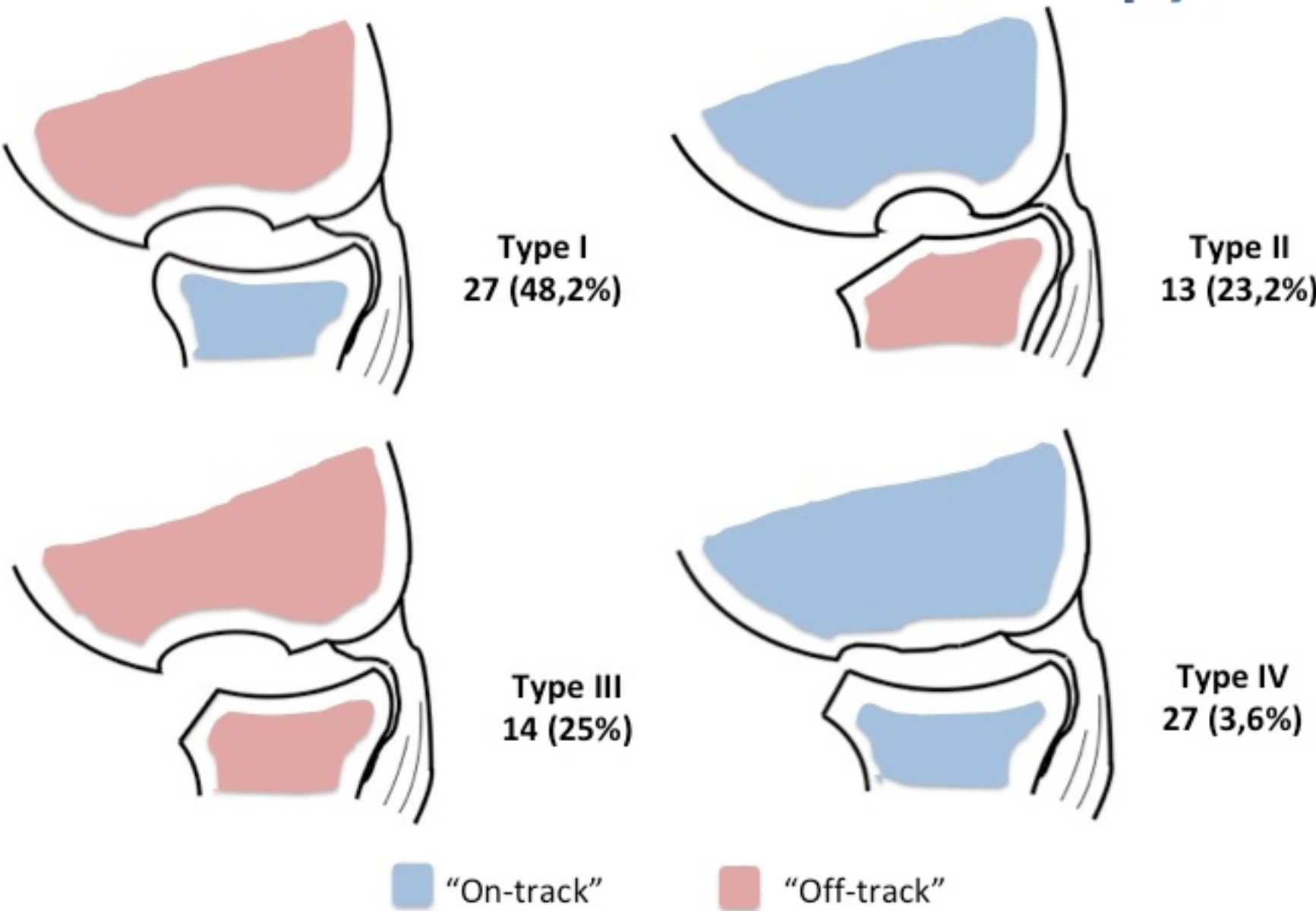
Statistical analysis

- X² to compare mean preoperative and postoperative values for paired data
- Mann-Whitney U test to compare mean values for unpaired data

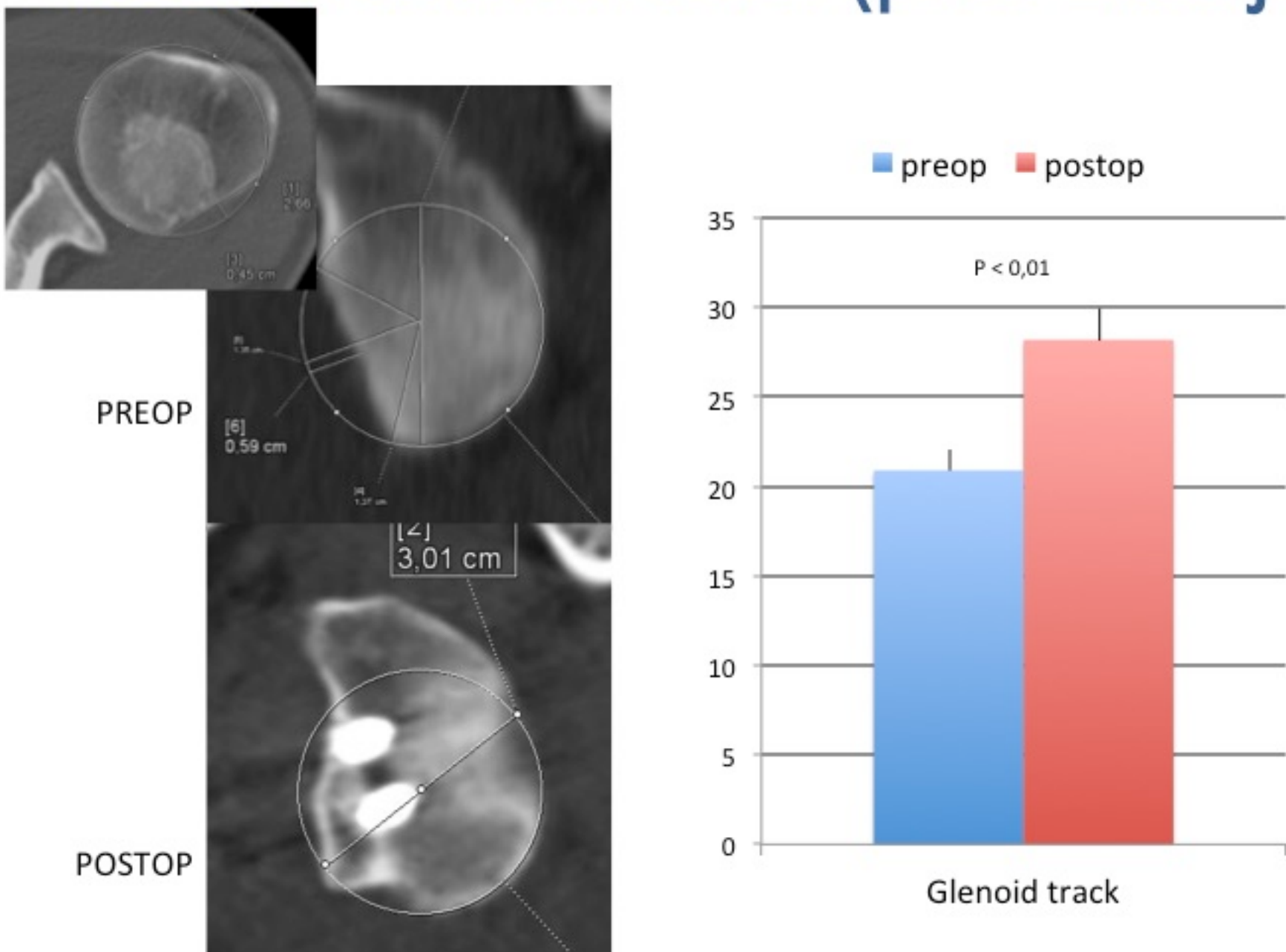
Results: Demographics

	@ Bankart	@ Latarjet	Overall	p
n	16	40	56	
Age	35,1	29,6	31,3	0,03
Gender (F/M)	0/16	5/35	5/51	ns
Activity level (1-5)	1,8	1,3	1,4	ns
Follow-up (mo)	28,8	26,9	27,8	ns

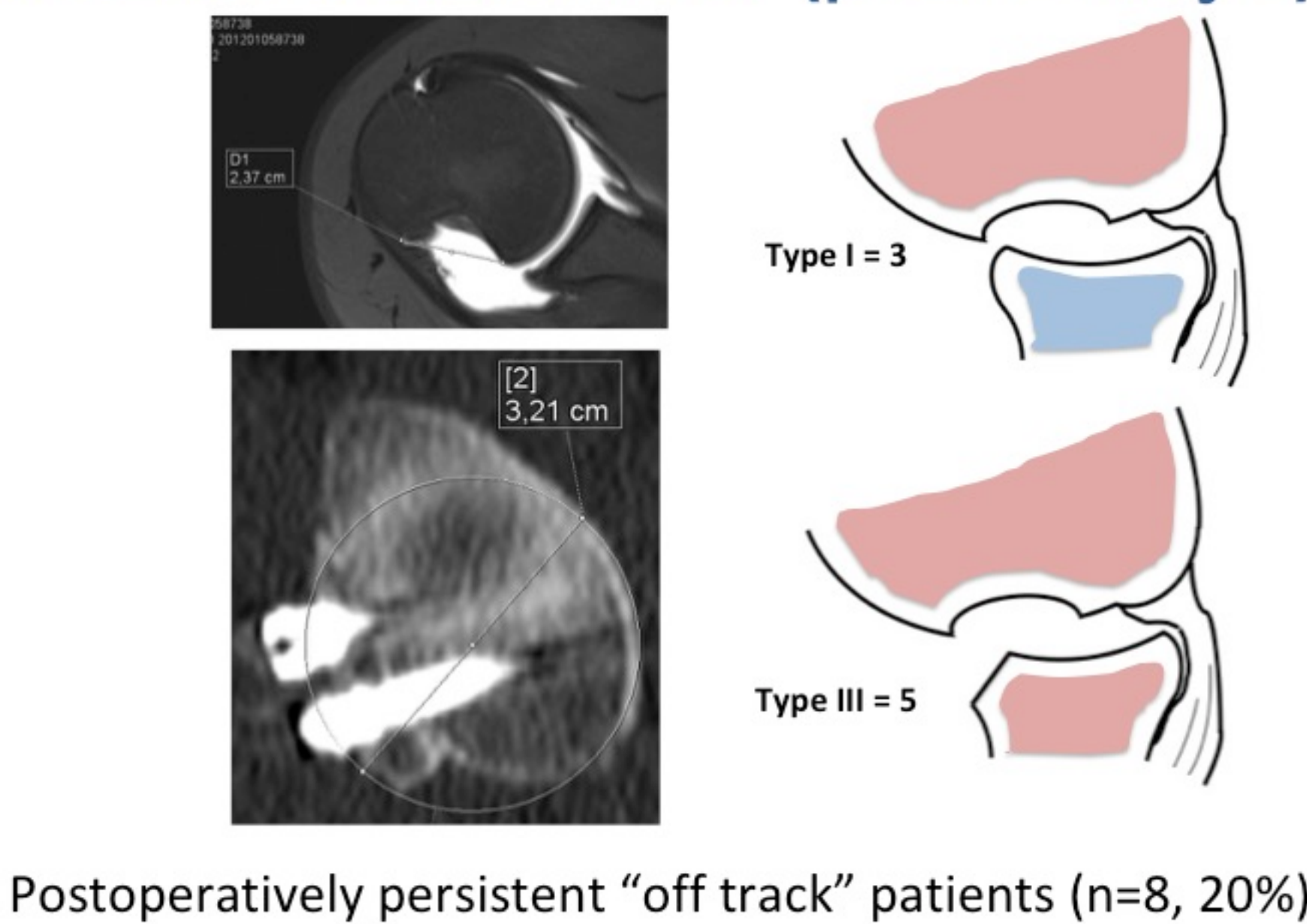
Results: Glenoid track (preop)



Results: Glenoid track (post-Latarjet)



Results: Glenoid track (post-Latarjet)



In summary ...

- 1) Arthroscopic Latarjet restores glenoid track in a majority -but not in all- patients with off-track unstable shoulders
- 2) Persistent off-track is due to large Hill-Sachs lesions
- 3) The recurrence rate in off-track shoulders is lower after arthroscopic Latarjet compared to arthroscopic Bankart

References

Yamamoto N, Itoi E, Abe H, Minagawa H, Seki N, Shimada Y, Okada K. Contact between the glenoid and the humeral head in abduction, external rotation, and horizontal extension: A new concept of glenoid track. J Shoulder Elbow Surg 2007; 16: 649-56.
Locher J, Wilken F, Beitzel K, Buchmann S, Longo UG, Denaro V, Imhoff AB. Hill-Sachs off-track lesions as risk factor for recurrence of instability after arthroscopic Bankart repair. Arthroscopy 2016; 32: 1993-9.
Plath JE, Henderson DHJ, Coquay J, Dück J, Haeni D,* Lafosse L. Does the arthroscopic Latarjet procedure effectively correct “off-track” Hill-Sachs lesions?. Am J Sports Med 2018; 46: 72-8.