

Latarjet Procedure for Anterior Instability: When and How?

J Sanchez-Sotelo MD PhD

Consultant and Professor of Orthopedic Surgery
Director, Shoulder and Elbow Surgery
Mayo Clinic
Rochester MN
www.shoulderelbow.org



Disclosure

Relevant financial relationships

- Stryker design team
Shoulder implants / products
- Exactech
Fracture fixation
- Acumed – Paid speaker
- Institutional research support
- Associate editor JSES
- Associate editor JSEA

Off-label usage: none



Arthroscopic repair of the anterior labrum
and capsule:
Until recently, gold standard for first time
and recurrent anterior shoulder instability



Benefits

- Subscapularis sparing
- Address other pathology
- Relatively easy procedure
- Less pain early on
- Does not limit ER
- Easy to revise
- Pretty good outcome



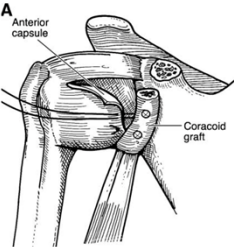
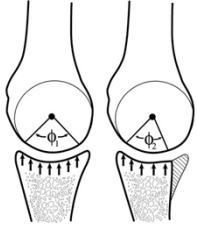
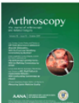
A Brief History of Recent Times



Original Article With Video Illustration

Traumatic Glenohumeral Bone Defects and Their Relationship to Failure of Arthroscopic Bankart Repairs: Significance of the Inverted-Pear Glenoid and the Humeral Engaging Hill-Sachs Lesion

Stephen S. Burkhart, M.D., and Joe F. De Beer, M.D.



Normal glenoid Bone-deficient glenoid

A Anterior capsule
Coracoid graft

FIGURE 8. Glenoid bone loss shortens the "safe arc" through which the glenoid can resist axial forces. ϕ_1 (bone-deficient condition) is less than ϕ_2 (normal glenoid).

Latarjet-Patte Procedure
By Gilles WALCH



12:41 - 16:33

VUMEDI

Orthopaedics & Traumatology: Surgery & Research

ELSEVIER Volume 96, Issue 8, Supplement, December 2010, Pages S77-S83

Original article

Can we improve the indication for Bankart arthroscopic repair? A preliminary clinical study using the ISIS score

H. Thomazeau^{a,*,} O. Courage^{b,} J. Barth^{c,} C. Pélégri^{d,} C. Charoussat^{e,} F. Lespagnol^{f,} G. Nourissat^{g,} S. Audebert^{h,} S. Guillo^{i,} B. Toussaint^{j,} L. Lafosse^{j,} J. Bradel^{k,} D. Veillard^{l,} P. Boileau^{d,} the French Arthroscopy Society

1954

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Long-Term Restoration of Anterior Shoulder Stability: A Retrospective Analysis of Arthroscopic Bankart Repair Versus Open Latarjet Procedure

Stefan M. Zimmermann, MD, Max J. Scheyerer, MD, Mazda Farshad, MD, MPH, Sabrina Catanzaro, RN, Stefan Rahm, MD, and Christian Gerber, MD, FRCGS

Investigation performed at the Balgrist University Hospital, Zürich, Switzerland

In conclusion, the arthroscopic Bankart repair for the treatment of recurrent anterior glenohumeral joint instability is inferior to an open Latarjet procedure in our hands. It does not restore stability, patient satisfaction, or the SSV to the same level as that after an open Latarjet procedure. Failures following the osseous reconstruction procedure are rare and typically occur early in the postoperative course. The effectiveness of an arthroscopic Bankart repair decreases over the postoperative course and leads to a substantial number of late failures, with approximately 1 out of 5 first-time recurrences of instability occurring no earlier than 5 years postoperatively. **Therefore, we do not recommend an arthroscopic Bankart procedure to our patients who have recurrent anterior dislocation.**

Orthopaedics & Traumatology: Surgery & Research 102 (2016) S277-S279

Available online at ScienceDirect www.sciencedirect.com

Elsevier Masson France EM|consulte www.em-consulte.com/en

Original article

Functional outcomes after open versus arthroscopic Latarjet procedure: A prospective comparative study

G. Nourissat^{a,*}, L. Neyton^b, P. Metais^c, P. Clavert^d, B. Villain^e, D. Haeni^f, G. Walch^g, L. Lafosse^h, the French Arthroscopic Society

^a Groupe Maastricht, Clinique des Maastricht-Ramsay, Central de Santé, 67, rue de Romainville, 75019 Paris, France
^b Hôpital Privé Jean-Mermoz, Ramsay, Centre Orthopédique Santé, Centrale de Santé, 69008 Lyon, France
^c Clinique de la Châtaigneraie, 63110 Beaumont, France
^d CHRU Strasbourg, Service de chirurgie du membre sup., 10, avenue Achille-Beumann, 67400 Illkirch, France
^e Clinique Générale d'Annecy, 4, chemin de la Tour-de-la-Reine, 74000 Annecy, France

Short-Term Complications of the Latarjet Procedure

Anup A. Shah, MD, R. Bryan Butler, MD, James Romanowski, MD, Danny Goel, MD,
Dimitrios Karadagli, FRCS, and Jon J.P. Warner, MD

Investigation performed at Massachusetts General Hospital/Harvard Medical School, Boston, Massachusetts

Latarjet Procedure

- When
- How



When

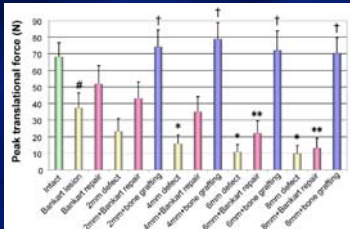
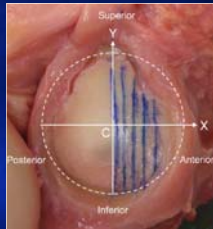
Latarjet: When

- For some,... The unstable shoulder
- Selective indications
 - Bone loss
 - Glenoid
 - Humeral
 - Risk assessment (e.g., ISIS)
 - Revision surgery



Critical Glenoid Defects

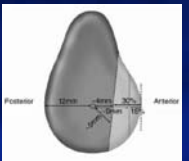
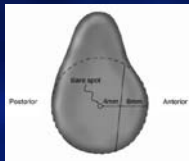
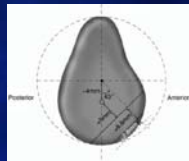
Critical defect – 6 mm / 19%



Yamamoto JBJS Am 2010



Critical Glenoid Defects



- <15% Not critical
- 15-30% Worrysome
- >30% Must be addressed

Plasecki JAAOS Am 2009



CT Scan 3D Reconstruction



Patient Selection: ISIS

Prognostic factors	Points
Age at surgery (yrs)	
≤ 20	2
> 20	0
Degree of sport participation (pre-operative)	
Competitive	2
Recreational or none	0
Type of sport (pre-operative)	
Contact or forced overhead	1
Other	0
Shoulder hyperlaxity	
Shoulder hyperlaxity (anterior or inferior)	1
Normal laxity	0
Hill-Sachs on AP radiograph	
Visible in external rotation	2
Not visible in external rotation	0
Glenoid loss of contour on AP radiograph	
Loss of contour	2
No lesion	0
Total (points)	10

Score	Recurrence
ISIS ≤ 3	5%
ISIS ≤ 6	10%
ISIS ≥ 7	70%

Balg L, Boileau P: The Instability Severity Index Score. *JBJS Br* 2007

How



Latarjet: How?

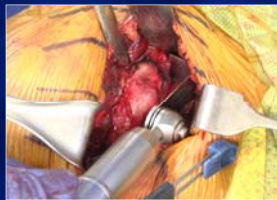
- Open vs arthroscopic
- Latarjet vs Bristow
- Classic vs congruent arc
- Screw vs button fixation



Latarjet: How?



Latarjet: How?

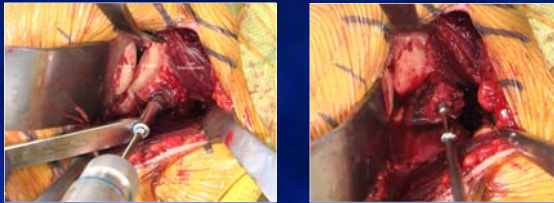


Latarjet: How?



MAYO
CLINIC

Latarjet: How?



MAYO
CLINIC



MAYO
CLINIC

Summary



Latarjet: When

- For some,... The unstable shoulder
- Selective indications
 - Bone loss
 - Glenoid > 15%
 - Humeral
 - Risk assessment (e.g., ISIS)
 - Revision surgery



Latarjet: How?

- Open classic Latarjet
- Subscapularis split
- Screw fixation
- Arthroscopic assistance?

