

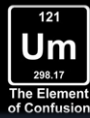


OBJECTIVES

- ENHANCE UNDERSTANDING OF SHOULDER INSTABILITY
- COMPREHEND SPECIFIC SHOULDER ACRONYMS
- UNDERSTAND EVOLVING TECHNIQUES FOR SHOULDER STABILIZATION

PERSPECTIVE

- JUST WHEN YOU THINK YOU UNDERSTAND SOMETHING...



...YOU DON'T

CURIOSITY

- WE WANT TO KNOW...



*...VEXING WHEN YOU DON'T
KNOW THE ANSWER*

MOTIVATION

- DESIRE TO UNDERSTAND A CONCEPT IN ORDER TO ENACT A POSITIVE CHANGE...



...STAYING ONE STEP AHEAD

“UNDERSTANDING”

- EVOLUTION OF A COMPILED KNOWLEDGE BASE PIONEERED BY THOSE WHO ESTABLISHED THE FOUNDATION
- PROGRESS IS MARKED BY THOSE PUSHING THE CONCEPTUAL TEMPLATES TO THE NEXT LEVEL
- SUCCESS IS MEASURED BY ACTUAL PROOF, TEMPERED BY TANGIBLE FAILURE

THE SHOULDER

- DELICATE BALANCE BETWEEN *STABILITY AND MOBILITY*



THE SHOULDER

| | |
|---|---|
| <p>SIMPLE</p> <ul style="list-style-type: none">▪ HUMERAL HEAD▪ GLENOID▪ ACROMIAL ARCH▪ ACROMIO-CLAVICULAR ARCHITECTURE | <p>COMPLEX</p> <ul style="list-style-type: none">▪ STATIC RESTRAINTS<ul style="list-style-type: none">▫ LABRUM▫ LIGAMENT<ul style="list-style-type: none">▪ SGHL, MGHL, IGHL▪ DYNAMIC RESTRAINTS<ul style="list-style-type: none">▫ ROTATOR CUFF▪ CONCAVITY-COMPRESSION CONCEPT▪ MOTION LINK<ul style="list-style-type: none">▫ GH 60%, ST 40% |
|---|---|


WHEN THINGS GO RIGHT

- COORDINATED INTERACTION OF MECHANICAL COMPONENTS WITH SUBTLE BUT PRECISE NEUROMUSCULAR FUNCTION



WHEN THINGS GO WRONG

- DISRUPTION OF THE CHAIN LEADING TO DYSFUNCTION AND COMPROMISE
 - ACUTE TRAUMATIC
 - CHRONIC REPETITION



PERSPECTIVE

- LEARN FROM THE PIONEERS BY STANDING ON THEIR "SHOULDERS"



EXPERIENCE IS SOMETHING YOU GET JUST AFTER YOU NEED IT...

HISTORICAL PERSPECTIVE

- EDWIN SMITH PAPYRUS
 - ANCIENT EGYPT c. 1600 BC
 - OLDEST SURGICAL DOCUMENT
 - ANATOMIC OBSERVATIONS AND EXAMINATION, DIAGNOSIS, TREATMENT AND PROGNOSIS OF 48 TYPES OF MEDICAL PROBLEMS
 - POSSIBLY TRANSCRIBED FROM EARLIER WORK BY *IMHOTEP* c. 3000 BC



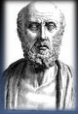
HISTORICAL PERSPECTIVE

- EBERS PAPYRUS
 - OLDEST KNOWN ANATOMIC DOCUMENT c. 1550 BC
- CONFUCIANISM
 - CHINESE PHILOSOPHER *CONFUCIUS* 551-479 BCE
- HINDU ANATOMISTS
 - *SUSHRUTA* AND *ATREYA* 6TH CENTURY BCE



HISTORICAL PERSPECTIVE

- *HIPPOCRATES* (c. 460 BC - c. 370 BC)
- FATHER OF MODERN MEDICINE
- BELIEF THAT DISEASES WERE CAUSED NATURALLY AND NOT BY SUPERSTITION OR THE GODS



*"It is thus with regard divine not more sacred than other diseases, but has a natural cause, from the originates like other affections. Men regard its nature and cause as divine from ignorance and wonder."
—Hippocrates, On the Sacred Disease*

HISTORICAL PERSPECTIVE

- METHOD FOR REDUCING SHOULDER DISLOCATION

Arms of Hippocrates



HISTORICAL PERSPECTIVE

- SURGICAL METHOD FOR TREATMENT OF RECURRENT DISLOCATION: CAUTERY
- RED-HOT OBLONG IRON INSERTED THROUGH THE AXILLA IN ORDER TO CREATE ESCHARS IN THE INFERIOR MARGIN OF THE JOINT

"For this more especially will cauterization take place, and the wide space into which the humerus used to escape will become contracted."



NOTE BENE: THERMAL CAPSULORHAPHY

FAST FORWARD

LITANY OF CHALLENGING SHOULDER CONDITIONS

- **SUBLIME**
 - ROTATOR CUFF
 - IMPINGEMENT
 - INTRINSIC, EXTRINSIC, INTERNAL....
 - TEAR
 - PARTIAL, COMPLETE
 - INSTABILITY
 - TUBS, AMBRI
 - NEUROGENIC
 - NEUROLOGIC
 - CAPSULAR
 - ADHESIVE
 - ARTHRITIC
 - GH, AC, SC JOINTS
- **(ALMOST) RIDICULOUS**
 - SARL
 - SHOULDER
 - ACRONYMS
 - REVIEW OF THE
 - LITERATURE

SHOULDER ACRONYMS

GHL: Glenohumeral ligaments
 SGHL: Superior glenohumeral ligament
 MGHL: Middle glenohumeral ligament
 IGH: Inferior glenohumeral ligament
 aIGH: Anterior band of IGH
 pIGH: Posterior band of IGH
 SSC: Superior shoulder suspensory complex
 GIRD: Glenohumeral internal rotation deficit
 SICK scapula: Scapular malposition, inferior medial border prominence, coracoid pain and malposition, and dyskinesis of scapular movement
 PASTA: Partial articular supraspinatus tendon avulsion
 PABAST (bony PASTA): Partial articular side-bony avulsion of supraspinatus tendon
 PAINT: Partial articular tears with infratendinous extension
 TUBS: Traumatic unidirectional Bankart treated with surgery
 AMBRI: Atraumatic multidirectional bilateral treated with rehabilitation or inferior capsular shift with rotator interval repair
 ABER: Abduction with external rotation
 HAGL: Humeral avulsion of inferior glenohumeral ligament
 AHAGL: Anterior humeral avulsion of glenohumeral ligament
 ABHAGL: Anterior bony humeral avulsion of glenohumeral ligament
 aIGH: Anterior inferior glenohumeral ligament
 PHAGL (reverse HAGL): Posterior humeral avulsion of glenohumeral ligament
 pBHG: Posterior bony HAGL
 Floating PIGH: Posterior inferior glenohumeral ligament

SHOULDER ACRONYMS

ALPSA: Anterior labroligamentous periosteal sleeve avulsion
 POLPSA: Posterior labrocapsular periosteal sleeve avulsion
 GLAD: Glenolabral articular disruption
 SLAP: Superior labrum anterior posterior
 GLEN: Ganglion cyst arising from superior labrum with entrapment of inferior branch of suprascapular nerve
 GLOW: Glenoid labrum ovoid mass
 PAGCL: Postarthroscopic glenohumeral chondrolysis
 OTS: Temporary outside traction suture
 PITT: Percutaneous intra-articular transtendon technique
 DASH: Disabilities of the Arm, Shoulder and Hand
 SPAD: Shoulder Pain and Disability Index
 WOSI: Western Ontario Shoulder Instability Index
 WOODS: Western Ontario Osteoarthritis of the Shoulder Index
 WORC: Western Ontario Rotator Cuff Index
 RC-COQ: Rotator Cuff Quality of Life Measure
 WUSPI: Wheelchair User's Shoulder Pain Index

SARL: SHOULDER ACRONYMS: A REVIEW OF THE LITERATURE
 MICHAEL KHAZZAM, M.D., MARTIN J. JORDANOV, M.D., CHARLES L. COX, M.D., WARREN R. DUNN, M.D., M.P.H., AND JOHN E. KUHN, M.D.
 ARTHROSCOPY: THE JOURNAL OF ARTHROSCOPIC AND RELATED SURGERY 27(4):542-55 - DECEMBER 2010

CLEAR AS MUD

FOCUS ON A TOPIC

- OSTEOARTHRITIS ?
- ADHESIVE CAPSULITIS ?
- ROTATOR CUFF IMPINGEMENT ?
- CUFF TEAR ARTHROPATHY ?
- ROTATOR CUFF TEAR ?
- INSTABILITY ?

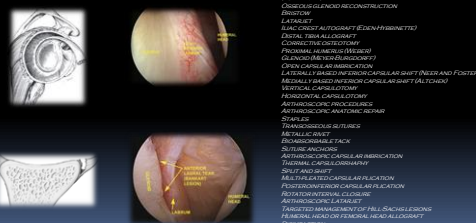
MECHANICS OF INSTABILITY

- DELICATE BALANCE OF *MOBILITY* AND *STABILITY*
- COORDINATED INTERACTION OF MUSCULAR CONTRACTION INTERACTING WITH ANATOMIC STRUCTURES RESULTING IN PURPOSEFUL ACTION



MODERN PERSPECTIVE

- **BANKART LESION**
= "ESSENTIAL LESION"




OPEN PROCEDURES
OPEN ANTERIOR
SLITS (BANKART)
SLITS
SOFT TISSUE RECONSTRUCTION
FASCIAL FLAP AUTOGRAFT (FLEGG)
MUSCULAR TRANSPOSITION OF SUBSCAPULARS
MUSCULOSPINOUS
RECONSTRUCTION OF SUBSCAPULARS AND ANTERIOR CAPSULE (PUTZ-FLAY)
RECONSTRUCTION AND REINFORCEMENT
BRYSON
BANKART
BANK CARTZ AUTOGRAFT (ZDENFIBINETZ)
DISTAL TENDON (BANKART)
CORACOHUMERAL DISTORTION
PROXIMAL HUMERAL RESECTION
GLENOID METAL (BANKART)
OPEN CAPSULAR RESECTION
LATERALLY PLACED INTERIOR CAPSULAR BUILT (NEER AND FORTNER)
VERTICAL CAPSULOTOMY
PERICAPSULAR CAPSULOTOMY
ARTHROSCOPIC PROCEDURES
ARTHROSCOPIC ANTERIOR BOND
SLITS
TRANSOSCULOUS SUTURES
ARTIFICIAL BOND
BANKART BOND
BANKART BOND
ARTHROSCOPIC CAPSULAR RESECTION
TENDON CAPSULOTOMY
SLIT AND BUILT
MULTI PLACED CAPSULAR PULCRATION
POSTERIOR ZENON CAPSULAR PULCRATION
POSTERIOR ZENON CAPSULAR PULCRATION
ARTHROSCOPIC LATERAL
TRANSFER OF ANTERIOR FEMORAL HEAD LESION
FEMORAL HEAD ON FEMORAL HEAD AUTOGRAFT
CORACOHUMERAL
FEMORAL HEAD ON FEMORAL HEAD AUTOGRAFT
ARTHROSCOPIC RECONSTRUCTION

Bankart ASB. Recurrent or habitual dislocation of the shoulder-joint. *Br Med J* 1923

INSTABILITY


DISRUPTION IN THE MECHANICAL CHAIN THAT BALANCES STABILITY

- LABRUM
 - FIBROCARTILAGINOUS RIM CIRCUMFERENTIALLY ATTACHED TO LEADING EDGE OF GLENOID PERIPHERY
 - BICEPS (LONG HEAD) CONFLUENT AT SUPERIOR ("12 O'CLOCK") POSITION



INSTABILITY


| | |
|---|--|
| <ul style="list-style-type: none">▪ ACUTE<ul style="list-style-type: none">▫ TRAUMATIC<ul style="list-style-type: none">▪ DISLOCATION▪ SUBLUXATION | <ul style="list-style-type: none">▪ CHRONIC<ul style="list-style-type: none">▫ REPETITIVE OVERLOAD▫ ? MDI |
|---|--|



INSTABILITY DISORDERS & ACRONYMS

SUBLIME TO THE RIDICULOUS

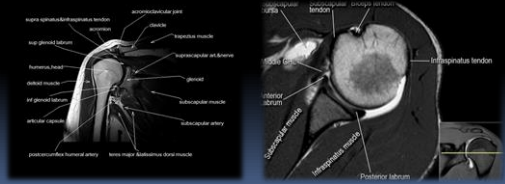
- BANKART (*EPONYM*)
 - STANDARD, REVERSE, BONY
- SLAP
- PASTA
- HAGL
- ALPSA
- POLPSA
- GLAD




ANATOMIC TEMPLATE

IT'S ALL ABOUT THE ANATOMY


- ANTERIOR POSTERIOR
- CROSS-SECTIONAL




READY...



...SET...

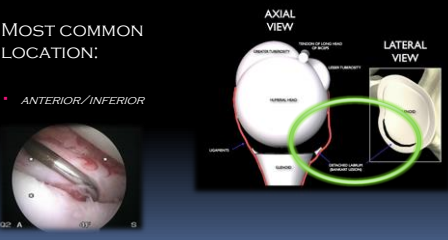


...GO



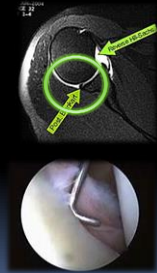
BANKART LESION

- ANTERIOR
 - MOST COMMON LOCATION:
 - ANTERIOR/INFERIOR



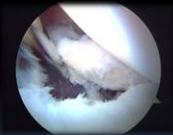
BANKART LESION

- POSTERIOR
 - REVERSE



BANKART LESION

- BONY



BANKART LESION

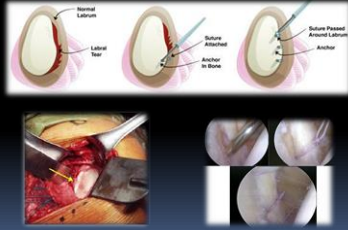
- MECHANISM OF INJURY

- HYPERTENSION AND/OR EXTERNAL ROTATION FORCE



BANKART LESION

▪ SURGERY



Craig, Edward V. (2004). *The shoulder*. Lippincott Williams & Wilkins, pp. 209

SLAP LESION

- SUPERIOR
- LABRUM
- ANTERIOR
- POSTERIOR



▪ ANDREWS

Andrews JR, Carson WG Jr, McLeod WD. Glenoid labrum tears related to the long head of the biceps. *Am J Sports Med.* 1985 Sep-Oct; 13(5):337-41.

▪ SNYDER (SCO)

SLAP lesions of the shoulder
 Snyder J, Snyder M.E. Correspondence information about the author M.D. Stephen J. Snyder, Ronald P. Karzel, M.D., Wilson DelPizzo, M.D., Richard D. Feret, M.D., Marc J. Friedman, M.D.
 Southern California Orthopaedic Institute, Van Nuys, California, U.S.A.

▪ RODOSKY (UPMC)

▪ BICEPS

The Role of the Long Head of the Biceps Muscle and Superior Glenoid Labrum in Anterior Stability of the Shoulder
 Mark W. Rodosky, MD Christopher D. Harner, MD Freddie H. Fu, MD

SLAP LESION

▪ TYPES

- I...
- II...
- ...*TOO MANY*

| Type | Location (clock face) | Description |
|------|-----------------------|---|
| I | 12-3 | Fraying |
| II | 12-3 | Tear with labrum anteriorly associated with repetitive overhead activity similar to Type I. |
| III | 9-12 | Tear with labrum anteriorly associated with all repetitive work |
| IIIc | 9-3 | Tear with labrum anteriorly associated with all repetitive work |
| IIIb | 12-3 | Bankart labral tear with intact biceps |
| IV | 12-3 | Bankart labral tear with biceps tendon |
| V | 12-3 | Bankart lesion with superior extension, or SLAP with anterior extension |
| VI | 12-3 | Anterior or posterior flap tear, with tear of the labrum inside capsule |
| VII | 12-3 | Macrophage-mediated ligament extension |
| VIII | 7-3 | Greater to 120, but acute extension associated with acute anterior dislocation |
| IX | 7-5 | Classically associated anteriorly with joint dysfunction |
| X | 12-3* | Fracture superior extension |

SLAP LESION

- MECHANISM OF INJURY

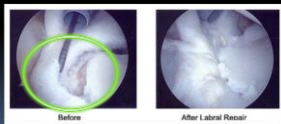
- FORCEFUL TRANSLATION OF HUMERAL HEAD ON GLENOID
 - SUBLUXATION
 - DISLOCATION



SLAP LESION

- SURGICAL TREATMENT

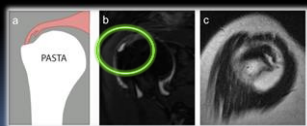
- ARTHROSCOPIC SUTURE/ANCHOR REPAIR



Hull G, Hyun YS, Garbis NG, McFarland EG (2014). "Treatment of superior labrum anterior posterior lesions: a literature review". Acta Orthop Traumatol Turc. 48 (3): 390-7

PASTA LESION

- PARTIAL
- ARTICULAR
- SUPRASPINATUS
- TENDON
- AVULSION



PASTA LESION

- MECHANISM OF INJURY

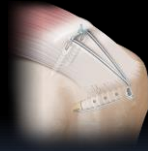
- TRACTION ON EXTENDED ARM
- FORCEFUL RETRACTION OF SHOULDER JOINT
- RESULTANT SHEAR OF ROTATOR CUFF OFF GREATER TUBEROSITY



PASTA LESION

- SURGICAL TREATMENT

- SUTURE-BRIDGE TECHNIQUE
 - SPAN AND CLOSE/ADVANCE MUSCULOTENDINOUS GAP



Snyder, S.J. Arthroscopic repair of partial articular supraspinatus tendon avulsions: PASTA lesions of the rotator cuff tendon. in: S.J. Snyder (Ed) Shoulder arthroscopy. Lippincott Williams & Wilkins, Philadelphia, PA, 2003:219-229.

HAGL LESION

- HUMERAL
- AVULSION
- GLENOHUMERAL
- LIGAMENT



HAGL LESION

- MECHANISM OF INJURY

- FORCED TRANSLATION OF HUMERAL HEAD ON GLENOID WITH RESULTANT AVULSION OF LIGAMENT ATTACHMENT OFF HUMERUS



HAGL LESION

- SURGICAL TREATMENT



- ARTHROSCOPIC SUTURE ANCHOR REPAIR

The HAGL lesion: An arthroscopic technique for repair of humeral avulsion of the glenohumeral ligaments
Jeffrey F. Spang, M.D., Spero G. Karas, M.D., *Arthroscopy*, April 2002, Vol 21, Issue 4, pg 498-502.

Arthroscopic treatment of anterior shoulder instability associated with a HAGL lesion—a case series
Matthias Flury, MD Correspondence information about the author MD Matthias Flury, Dominik Rickenbacher, MSc, Laurent Aegerli, PhD, *ISOS*, December 2016, Vol 29, Issue 11, pg 1979-1986.

ALPSA LESION

- ANTERIOR
- LABRUM
- PERIOSTEAL
- SLEEVE
- AVULSION



ALPSA LESION

- MECHANISM OF INJURY

- ANTERIOR TRANSLATION ON GLENOID AVULSING TISSUE PLANE OFF ANTERIOR GLENOID NECK



ALPSA LESION

- SURGICAL TREATMENT

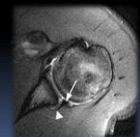
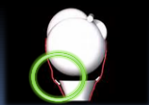
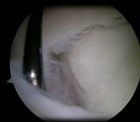
- ADVANCE PERIOSTEAL AVULSION WITH SUTURE ANCHOR REPAIR



Results of arthroscopic capsulolabral repair: Bankart lesion versus anterior labroligamentous periosteal sleeve avulsion lesion. Ochoyador MA, Elhassan B, Diller D, Massimini D, Higgins LD, Warner JJ. Arthroscopy, 2008, Nov;24(11): 1277-83.

POLPSA LESION

- POSTERIOR
- LABROCAPSULAR
- PERIOSTEAL
- SLEEVE
- AVULSION



POLPSA LESION

- MECHANISM OF INJURY

- FORCED TRANSLATION OF HUMERAL HEAD POSTERIORLY WITH AVULSION OF CAPSULOLABRAL TISSUE



POLPSA LESION

- SURGICAL TREATMENT

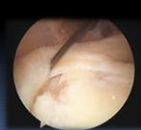
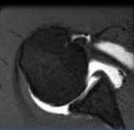
- ADVANCE AND REATTACH POSTERIOR CAPSULOLABRAL COMPLEX
 - NB: THIN VEIL OF TISSUE



The POLPSA lesion: MR imaging findings with arthroscopic correlation in patients with posterior instability. Skeletal Radiol. 2002; 31(7):598-9. Yu JS, Achman CJ, Jones G

GLAD LESION

- GLENO
- LABRAL
- ARTICULAR
- DISRUPTION



GLAD LESION

MECHANISM OF INJURY

- FORCED IMPACTION TO THE SHOULDER WITH ASSOCIATED SHIFT OF HUMERAL HEAD ON GLENOID FACE

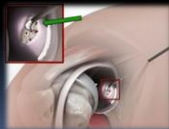


The GLAD lesion: Another cause of anterior shoulder pain
M.D. Thomas J. Neviaser
Arthroscopy: The Journal of Arthroscopic & Related Surgery
Volume 9, Issue 1, February 1993, Pages 22-23

GLAD LESION

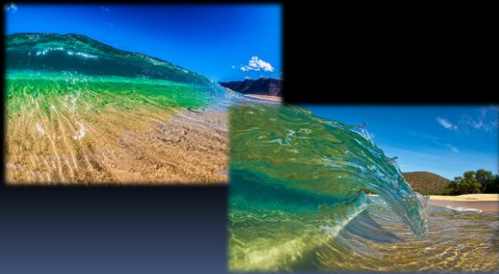
SURGICAL TREATMENT

- COMBINATION
 - LABRAL REPAIR
- CHONDRAL PROCEDURE
 - CHONDROPLASTY
 - MICROFRACTURE

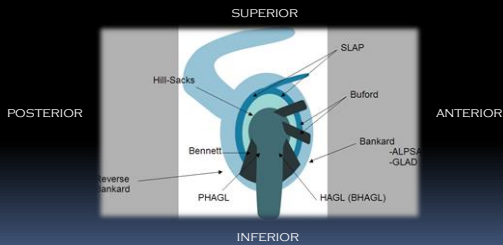


The GLAD lesion: Another cause of anterior shoulder pain, Thomas J. Neviaser MD, Arthroscopy, The Journal of Arthroscopic & Related Surgery, Vol 9, Issue 1, Feb 1993, pg 22-23

CRYSTAL CLEAR



ACRONYM & LOCATION



WHAT'S AROUND THE BEND



EVOLVING TRENDS

- INSTABILITY
 - MANY VARIATIONS ON A THEME
 - CREATIVE SOLUTIONS
 - CORRECT PROCEDURE FOR CORRECT DIAGNOSIS
 - BALANCE OF MOBILITY & STABILITY
- RECURRENT INSTABILITY
 - PRIMARY PROCEDURE
 - REVISION PROCEDURE

SURGICAL TECHNIQUE

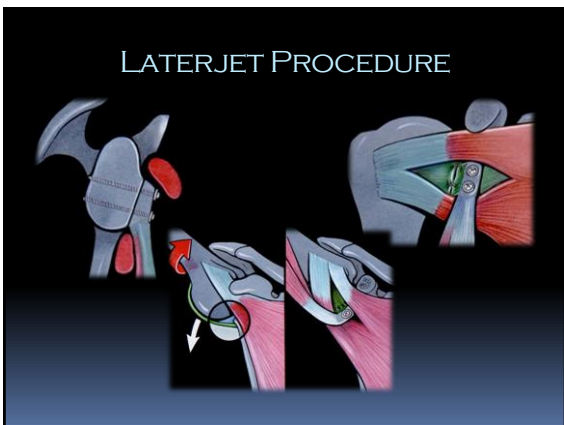
LATERJET PROCEDURE

- "OLD SCHOOL"
 - DR. LATERJET, 1954
 - AKA LATERJET-BRISTOW
 - RECURRENT INSTABILITY WITH GLENOID BONE LOSS
 - CORACOID TRANSFER TO ANTERIOR GLENOID
 - ATTACHED CONJOINT TENDON ACTS AS SLING
- "NEXT GENERATION"
 - STATE OF THE ART
 - MODIFIED LATERJET TO INCORPORATE STABILITY THROUGH DYNAMIC RANGE OF MOTION
 - OPEN TECHNIQUE
 - ARTHROSCOPIC TECHNIQUE

LATERJET PROCEDURE

TECHNICALLY DEMANDING

- OPEN
 - SOFT TISSUE DISSECTION THROUGH OPEN INCISION
 - FIXATION THROUGH DYNAMIC RANGE OF MOTION
 - "BLOCK" UNSTABLE POSITION
 - COMPLICATION RISK/ SCAR TISSUE POTENTIAL
- ARTHROSCOPIC
 - MINIMALLY INVASIVE
 - MULTIPLE SURGICAL "WORKING" PORTALS
 - HIGHLY SKILLED ARTHROSCOPIC TECHNIQUE
 - COMPLICATION RISK



LATERJET PROCEDURE

- STUDIES:
 - IMPROVED RESULTS WHEN USED FOR INSTABILITY WITH BONE LOSS

Burkhart, SS, De Beer JJ, Barth JF, Crosswell T, Roberts C, Richards DP (2007). "Results of modified Latarjet reconstruction in patients with anteroinferior instability and significant bone loss." *Arthroscopy* 23 (6): 803-811

- TECHNICAL VARIATIONS IN OPEN AND ARTHROSCOPIC TECHNIQUES

Lafosse, L, Bayle S (2008). "Arthroscopic Latarjet procedure." *J Shoulder Elbow Surg* 19 (5 suppl): 3-12.
Jump up: Wang, AA, Mass R, Balthasar J, Walch G (March 2013). "Open Latarjet procedure for management of bone loss in anterior instability of the glenohumeral joint." *Journal of Shoulder and Elbow Surgery* 24 (2 Suppl): S64-9.
Jump up: Burkhart, SS, De Beer JJ, Barth JF, Crosswell T, Roberts C, Richards DP (2007). "Results of modified Latarjet reconstruction in patients with anteroinferior instability and significant bone loss." *Arthroscopy* 23 (6): 803-811.

LATERJET PROCEDURE

- STUDIES:
 - EXPECTED TO PREVENT RECURRENT ANTERIOR INSTABILITY IN 94-99%
 - APPROPRIATE PATIENT SELECTION

Allain, J, Goutallier D, Glisson C (1998). "Long-term results of the Latarjet procedure for the treatment of anterior instability of the shoulder." *J Bone Joint Surg Am* 80 (6): 842-53.
Burkhart, SS, De Beer JJ, Barth JF, Crosswell T, Roberts C, Richards DP (2007). "Results of modified Latarjet reconstruction in patients with anteroinferior instability and significant bone loss." *Arthroscopy* 23 (6): 803-811.
Howeius, D, Akerman C, Adrethsson B, Berg E, Ekman L, Lindberg B, Wretenberg T (2013). "Bristow Latarjet procedure for recurrent anterior dislocation of the shoulder. A 2-year follow-up study on the results of 112 cases." *Acta Orthop Scand* 82 (1): 28-36.
Howeius, L, Sandström B, Sandgren K, Svan M (2004). "One hundred eighteen Bristow-Latarjet repairs for recurrent anterior dislocation of the shoulder prospectively followed for fifteen years: study of clinical results." *J Shoulder Elbow Surg* 15 (5): 599-616.
Walch, G, Bolkow P (2000). "Latarjet-Bristow procedure for recurrent anterior instability." *Tech Shoulder Elbow Surg* 1: 256-61.

LATERJET PROCEDURE

- RESULTS:
 - SUCCESSFUL IN CONTACT ATHLETES

Joshi, M, Young AA, Balestro J, C, Walch G (2013). "The Latarjet-Platz Procedure for Recurrent Anterior Shoulder Instability in Contact Athletes." *Clinics in Sports Medicine* 31 (4): 739-9.
Neylon, L, Young A, Dawlati B, Visonà E, Heger JP, Fournier Y, Walch G (2012). "Surgical treatment of anterior instability in rugby union players: clinical and radiographic results of the Latarjet-Platz procedure with minimum 5-year follow-up." *J Shoulder Elbow Surg* 21 (12): 1721-7.

- MAY NOW BE THE "GO TO" PROCEDURE IN SPECIFIC PATIENT POPULATION

Hackett, T, (2017) USSA Team Physician, Steadman Clinic, Vail, CO, personal communication.

COMPLEXITY



SIMPLICITY

- IDENTIFY A CONCEPT
- DEFINE ITS COMPONENTS
- WORK THROUGH THE PROCESS
- CHALLENGE YOUR COMPREHENSION
- *UNDERSTAND YOUR LIMITS*

TYFYT