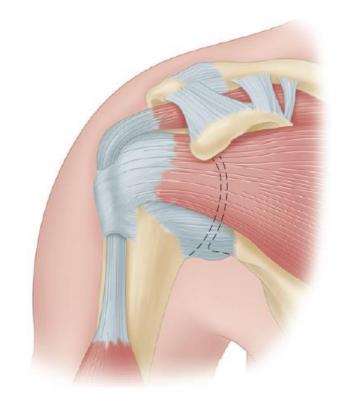
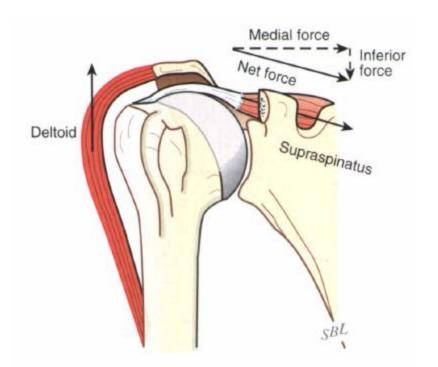
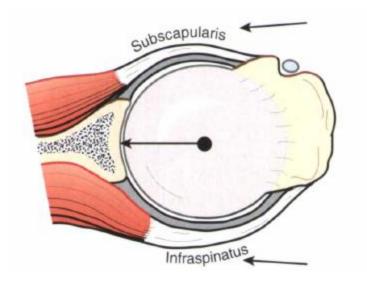


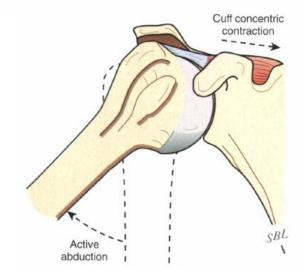
Impingement syndrome

M.N. Naderi, MD Fellowship in shoulder surgery



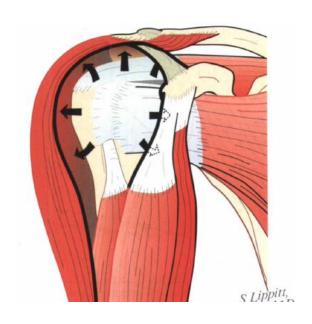






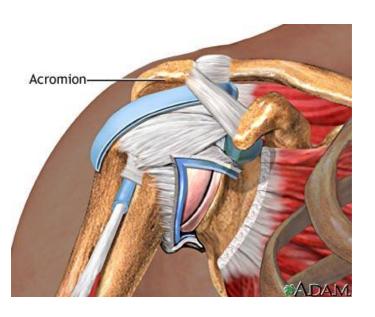
Subtypes of impingement syndrome

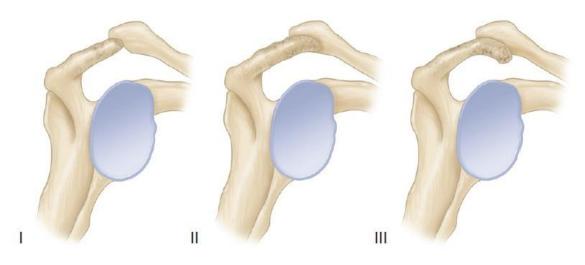
- I. primary impingement
 - a. intrinsic
 - b. extrinsic
- II. secondary impingement
- III. subcoracoid impingement
- IV. internal impingement



primary impingement, the classic version

- a. intrinsic -> structures passing beneath the coracoacromial arch enlarged
- b. extrinsic types → space available for the rotator cuff is diminished;
 subacromial spurring, acromial fracture or pathological os acrominale





BOX 46-1

Developmental Stages of Impingement Syndrome

Stage 1: Edema and Hemorrhage

Typical age of patient: <25 years old

Differential diagnosis: subluxation, acromioclavicular joint

arthritis

Clinical course: reversible Treatment: conservative

Stage 2: Fibrosis and Tendinitis

Typical age of patient: 25 to 40 years old

Differential diagnosis: frozen shoulder, calcium deposits

Clinical course: recurrent pain with activity

Treatment: consider bursectomy or division of coracoacro-

mial ligament

Stage 3: Bone Spurs and Tendon Rupture

Typical age of patient: >40 years old

Differential diagnosis: cervical radiculitis, neoplasm

Clinical course: progressive disability

Treatment: anterior or acromioplasty, rotator cuff repair

Modified from Neer CS II: Impingement lesions, *Clin Orthop Relat Res* 173: 70, 1983.

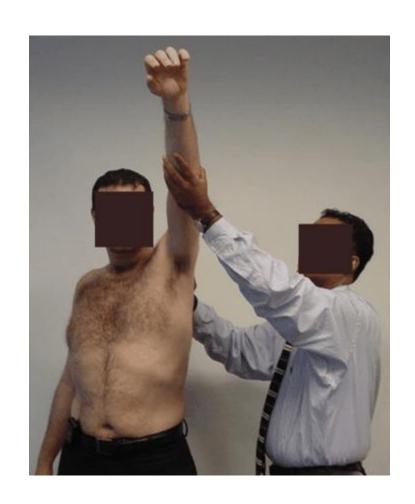
Clinical test

- Hawkin's test
- Neer's sign & test
- Copeland Impingement Test



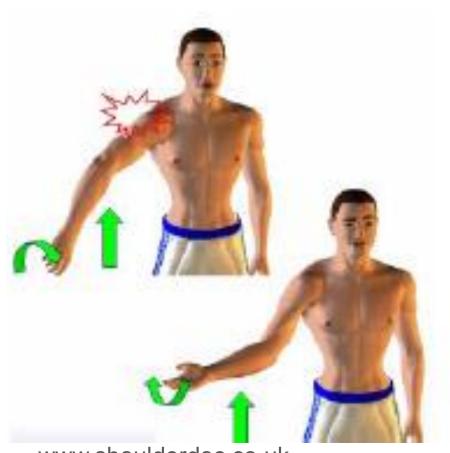
Clinical test

- Hawkin's test
- Neer's sign & test
- Copeland Impingement Test



Clinical test

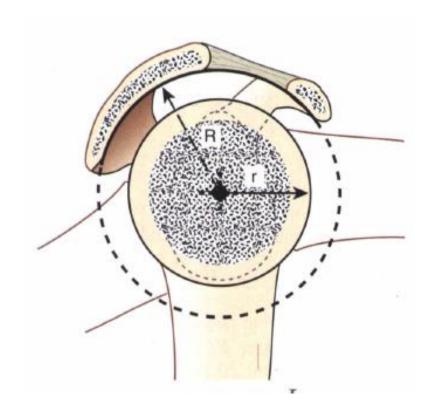
- Hawkin's test
- Neer's sign & test
- Copeland Impingement Test

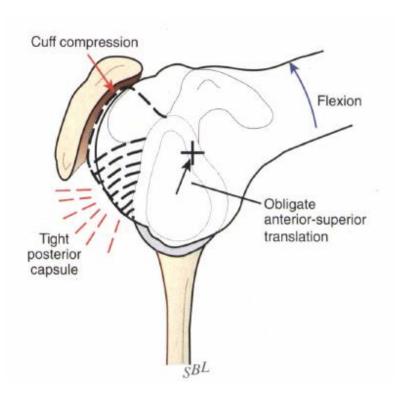


www.shoulderdoc.co.uk

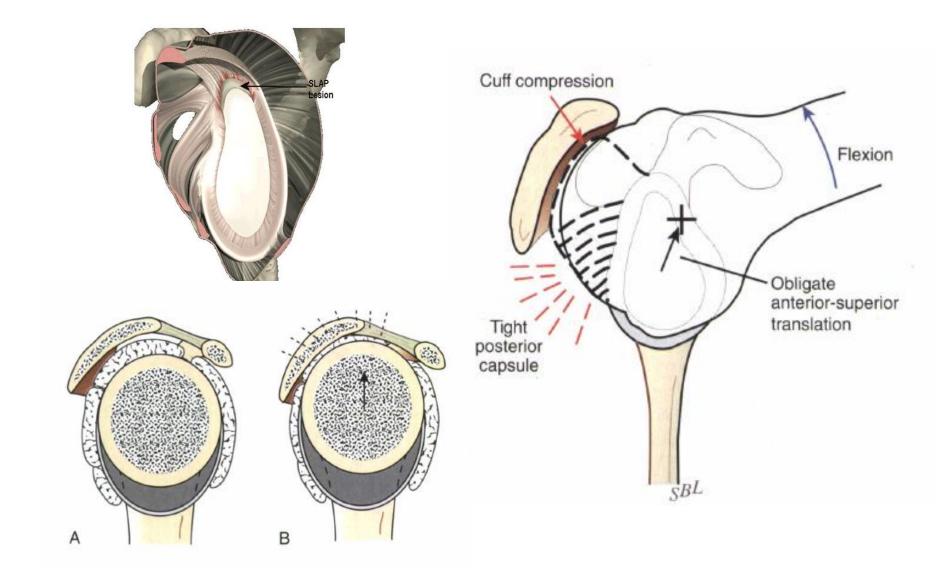
secondary impingement

instability of the GH → translation of the humeral head, typically anteriorly, resulting in contact of the rotator cuff against the coracoacromial arch





secondary impingement

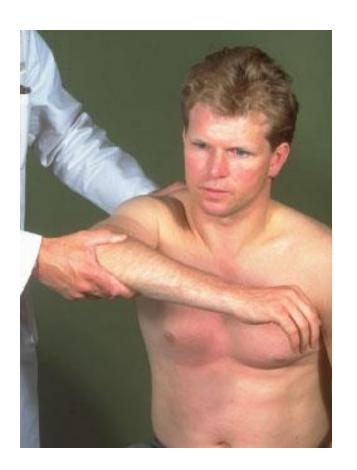


secondary impingement

Stability Test

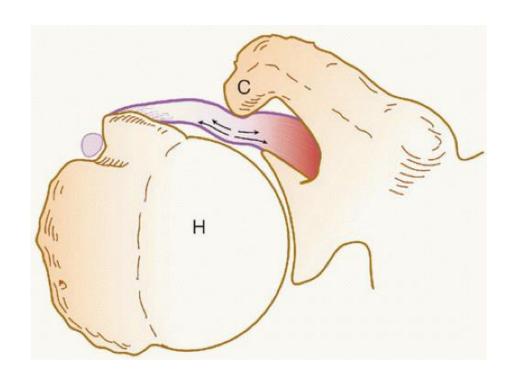
Relocation test (Jobe)





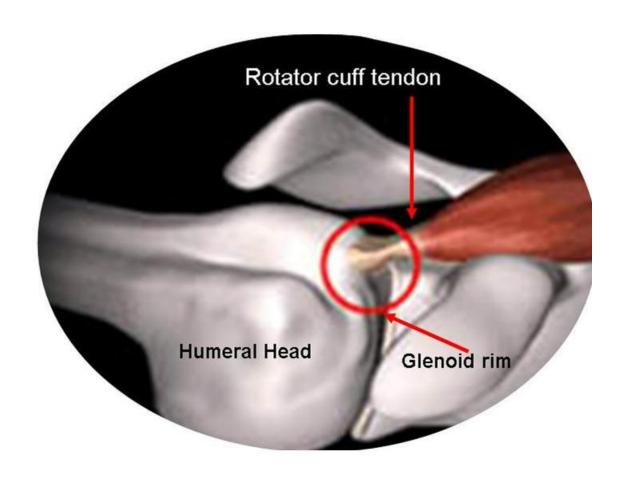
subcoracoid impingement

contact between the rotator cuff and the coracoid process



☐ Internal Impingement

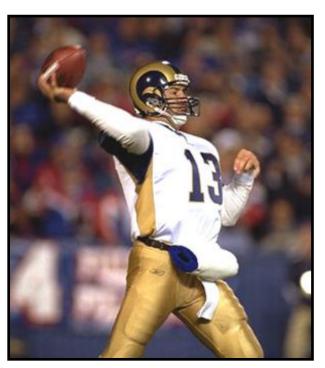
 Impingement of postero-superior cuff on the postero-superior labrum



☐ Internal Impingement

Overhead Athlete







☐ Internal Impingement

Diagnosis

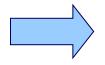
- Anterior Laxity without frank instability
- Posterior Capsular Tightness (GIRD)
- Hyperabduction reproduction pain
- Scapula Dyskinesis
- Impingement Tests



Physiotherapy

Injection (subacromial)





Surgery

+ Physiotherapy



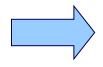




- Stretching Exercise
- Stabiliziation Exercise

Injection (subacromial)

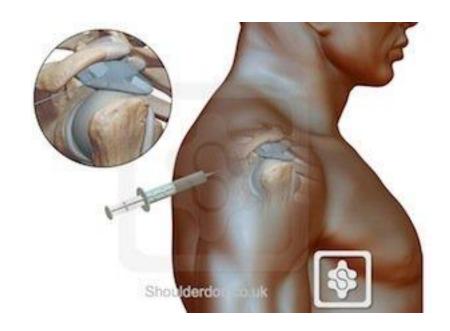


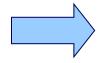


Surgery+ Physiotherapy

Physiotherapy

Injection (subacromial)



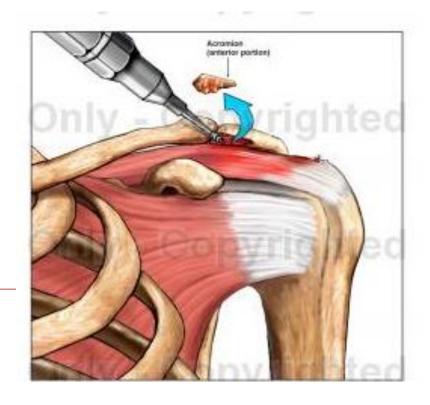


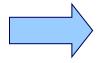
Surgery

+ Physiotherapy

Physiotherapy

Injection (subacromial)





Surgery + Physiotherapy