Internal Rotation Contracture of The Shoulder In Obstetric Brachial Plexus Palsy

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The most common sequelae

- 30% in delayed recovery
- 65% in incomplete recovery
Classification

1. Medial rotation contracture
2. Post. Subluxation (simple)
3. Post. Dislocation (simple)
4. Post. Subluxation or dislocation (complex)
Classification
Gilbert (1993)

Stage 0: flail shoulder
Stage 1: abd. 45°, no Ext. Rot.
Stage 2: abd. < 90°, no Ext. Rot.
Stage 3: abd. = 90°, weak Ext. Rot.
Stage 4: abd. < 120°, incomplete Ext. Rot.
Stage 5: abd. > 120°, active Ext. Rot.
Stage 6: normal

Evaluation of external rotation
Negative: - 45°
Insufficient: -30°, -20°
Fair: 0°
Good: +20, +30°
Excellent: +45°
Indication of Surgery

- Less than 30 degrees of passive external rotation
  - Progressive deformity
  - Irreversible changes of the glenohumeral joint

(sequelae of untreated contracture rather than a sequelae of BPP)
Surgical Treatment

- Soft tissue release
  - Anterior (Sever’s)
  - Subscapularis sliding
- Tendon transfer
- Derotation ost.
Surgical Treatment

- Subscapularis sliding
- Latissimus dorsi and teres major transfer to rotator cuff
THANK YOU