

## **A CASE OF SUPERIOR CAPSULAR RECONSTRUCTION WITH PECTORALIS MAJOR AND LATISSIMUS DORSI TRANSFER IN PATIENT WITH MASSIVE IRREPARABLE ROTATOR CUFF TEARS.**

Loo Wen Chern<sup>1</sup>, Che Wan Mohd Shaiful Nizam Che Wan Nik<sup>2</sup>, Siva Thangaraju<sup>2</sup>, Siti Hawa Tahir<sup>2</sup>, Faris Indra Prahasta Didi Indra<sup>1</sup>

<sup>1</sup>University Malaysia Sarawak, <sup>2</sup>Hospital Kuala Lumpur

**Introduction:** A massive rotator cuff tear is defined as a tear involving more than 2 of the 4 tendons or retracted tendon away from the attachment site of more than 5 cm. Managing a massive irreparable rotator cuff tear will depend on several factors namely the chronicity (chronicity reflects increasing tendon attenuation and retraction along with muscle fatty infiltration), tear pattern, degree of acromiohumeral narrowing or proximal humeral migration and articular cartilage damage. Superior capsule reconstruction (SCR) gained popularity for young and active patients with massive and irreparable rotator cuff tears without glenohumeral arthritis.

**Discussion:** A 43 years old right-handed male presented with 4 months duration of left shoulder pain after an alleged motor vehicle accident. The pain was persistent with aggravation upon overhead activities and not relieved by oral analgesia and physiotherapy. On examination, there was global restricted range of motion with demonstrable drop arm sign. Xray left shoulder showed superior migration of humeral head with 3mm of acromiohumeral distance without glenohumeral arthritic changes. MRI showed full thickness supraspinatous and subscapularis tendon tear with muscle retraction, long head biceps tendon intra-articular dislocation and anterior labroligamentous periosteal sleeve avulsion. He underwent left shoulder arthroscopic superior capsular reconstruction (SCR) and latissimus dorsi and pectoralis major transfer and biceps tenodesis. Postoperatively, he achieved excellent pain relief with improvement of acromiohumeral interval from 3mm to 7mm.

**Conclusion:** Superior capsular reconstruction has proven to provide reliable short term clinical outcome especially in alleviating pain symptoms for patients with massive irreparable rotator cuff tears. Up till date, there is still lacking of long term outcome data in evaluation of the efficacy of superior capsular reconstruction.