



Rib Osteochondral Autograft Harvesting by Orthopaedic Surgeon: New Experience in Hospital Lahad Datu, Sabah.

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INTRODUCTION:

Rib osteochondral autograft is widely used in Maxillofacial surgery for reconstruction of various defects of craniomaxillofacial skeleton. The harvested hyaline cartilage is cardinal for maxillofacial surgery. A combined effort of Orthopaedic Department and Oral Maxillofacial Surgery (OMFS) Department, Hospital Lahad Datu was made in treating a young male with Micrognathia of mandible and left temporomandibular joint (TMJ) Ankylosis.

CASE REPORT:

Surgery was initiated by OMFS team with gap arthroplasty of left temporomandibular joint and coronoidectomy via extended submandibular incision. Subsequently anterior chest wall was prepped for rib harvest. Local anesthesia with adrenaline was given over the sixth rib in a subcutaneous fashion. A sharp 8cm skin incision was made over the superior aspect of the rib down to periosteum directly overlying the rib. Periosteal elevator is used to develop the plane between rib's periosteum – perichondrium and thin parietal pleura. Subperiosteal dissection is carried out medially until costochondral junction. At the costochondral junction, a supra perichondrial dissection was made. A guillotine rib cutter was used next to transect the lateral portion of the rib bone.



Fig 1: Skin incision over sixth rib.



Fig 1: Subperiosteal dissection.



Fig 2: Harvested rib bone.

CONCLUSION:

As rib osteochondral harvest by Orthopaedic Surgeon is a new experience and historical moment here, with good collaboration and meticulous preoperative planning, it is possible to be carried out. This established technique with good outcome can pave the way for future treatment in Orthopaedics Lahad Datu.

REFERENCES:

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