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شبكة المعلومات الجامعية

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Ain Shams University
Faculty of Medicine
Orthopedic Department

Essay Submitted for Partial Fulfillment of the Requirements For
Master Degree of Orthopedic Surgery

PATELLAR COMPLICATION AFTER TOTAL KNEE ARTHROPLASTY

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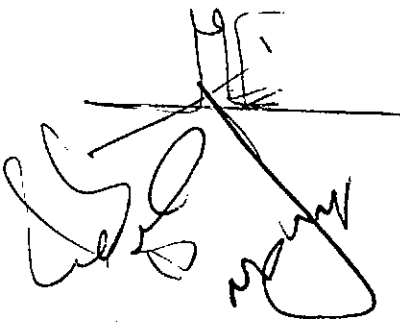
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**Anatomy
of the Patello-femoral
joint**

ANATOMY OF THE

PATELLO-FEMORAL JOINT

The largest sesamoid bone in the body, the triangular shaped patella, lies anterior to tibiofemoral joint. The patella is attached to the joint capsule and embedded in the quadriceps by quadriceps tendon superiorly. The posterior surface of the patella is covered by articular cartilage and is divided into five regions,: superior, inferior, medial, lateral and odd. A central vertical ridge separates the medial region from the lateral region. The femoral articulating surface consists of the patellar surface on the anterior aspect of the distal femur. A central groove corresponding to the vertical ridge on the patella divides the patellar surface into a lateral and a medial portion: (*Norkin and Levangie, 1983*).

THE PATELLA

The patella is described as possessing an anterior surface, posterior surface, base, and an apex:

1. Anterior Surface:

Slightly convex in all direction and is divided into three parts. The rough superior third, the base of the triangle, receives the insertion of the quadriceps tendon. The middle third reveals numerous vascular orifices and crossed by numerous vertical striations. The inferior third terminates in a V shaped point, which is enveloped by the patellar tendon.

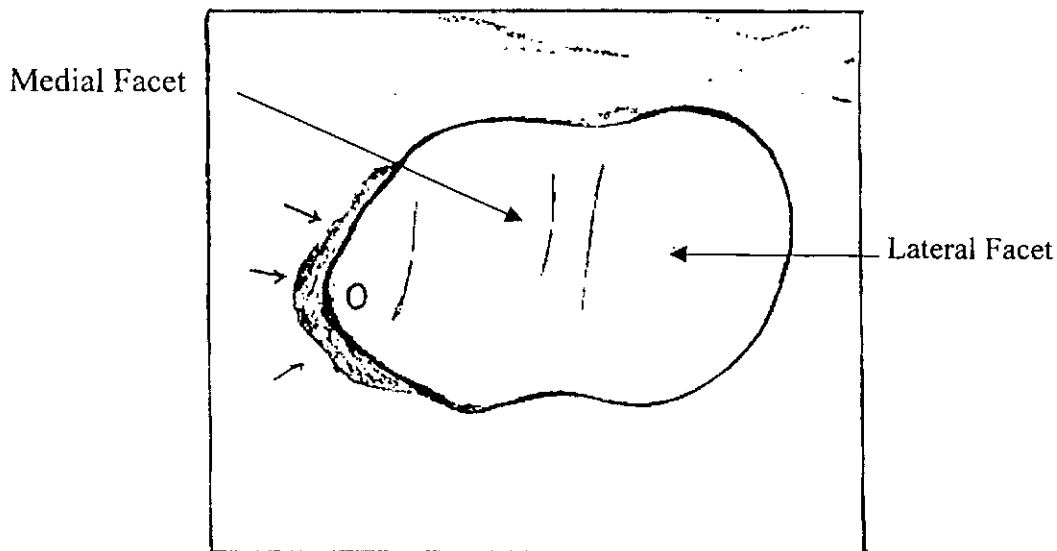


Fig (1) The articular surface of the patella shows not only the surface contour but particularly the odd facet (o) . the extra-articular portion of the patella is completely covered with soft tissue. The cuff of synovium surrounding the articular surface is also shown (arrows) *Ficet and hungerford 1977*