

A Rare Case of Upper Pole Patellar Sleeve Fracture

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INTRODUCTION:

Patella sleeve is a rare entity occurring to patient between 8-12 years old. It is easily missed especially by emergency departments. Diagnosis is made with knee radiographs. We present herein a case of severely displaced patellar sleeve fracture that was treated in our centre.

REPORT:

8 years old boy had alleged fall during visit to emergency department. Parent describe the mechanism as fall and direct hit of the anterior knee to the edge of the drain, post fall patient sustained pain at anterior knee unable to extend the knee and no laceration wound seen patient was diagnosed as having closed patellar sleeve fracture and was planned for open reduction and tension band wiring of left patellar. Intra op findings show that patient is having upper pole patellar sleeve fracture and correlate with clinical findings and x-ray imagination.



Figure 1: x-ray during visit at ed

DISCUSSION:

Patellar sleeve fracture etiology is due to separation of the cartilage sleeve and osseous part of the patellar and usually due to powerful contraction of the quadriceps muscle and most cases reported is inferior pole of patellar. However in this case the injury located at superior pole of patellar and this maybe due to the mechanism of injury which is direct blow to anterior of the knee rather than powerful traction of the muscle



Figure 2: Intra operative picture (The sleeve located at the above detach from the ossification centre below)



Figure 3: Post-operative check x-ray

CONCLUSION:

Patellar sleeve fracture is a rare entity and upper pole of patellar sleeve is even more rare. However the management is all the same early detection and stabilization of the articular sleeve is needed. Any method is useful as long as the fixation is stable and strong enough

REFERENCES:

1. Patellar Sleeve Fracture in an Eight-Year-Old Girl
Mohammad O Boushnak,¹ Mohamad K Moussa,¹ Ahmad A Abed Ali,¹ Zeina H Mohsen,² and Ali Chamseddine³