Rheumatology

Knee Examination



Position: lying down.			
Exposure : both knees and thighs are fully exposed.			
Look			
Inspect for mobility aids & adaptations – walking stick / wheelchair & gait			
Skin:	Atrophy and tightness.		
	Erythema and di	scoloration.	
	• Scars.		
	• Rashes.		
Muscle:	Wasting (Quadriceps wasting)		
Joint: • Swelling: Backer's cyst (a swelling behind the knee) in the popliteal fossa, while the knee in complete extension. (can do it when patient standing up)		Baker's cyst	
• Deformity: • Bone:		Valgus: deviation away from the midline: RA. Varus: toward the midline: OA. Genu valgum Normal Genu varum Genu Recurvatum	
		RecurvatumSubluxation.	

Feel			
Skin:	Temperature.		
Joint: Palpate the following with the knee flexed at 90°: Effusion:	 Patella – palpate the borders for tenderness / effusion Tibial tuberosity – tenderness may suggest Osgood Schlatter disease Head of the fibula – irregularities / tenderness Tibial & Femoral joint lines – irregularities / tenderness Collateral ligaments – both the medial and lateral Popliteal fossa – feel for any obvious collection of fluid (e.g. a Baker's cyst) 		
https://www.youtube.com/watch?v=Ca7cL6ZPTH4 https://www.youtube.com/watch?v=WwricgKz5FA			
Patellar tap test: Moderate to large effusion: Milking: Mild effusion:	 Empty the suprapatellar pouch by sliding your left hand down the thigh to the patella. Keep your left hand in position and use your right hand to press downwards on the patella with your fingertips. If fluid is present you will feel a distinct tap as the patella bumps against the femur. Gently stroke upwards along the medial aspect of the patella, pushing fluid towards the top and lateral aspects of the joint. Gently push on the lateral aspect of the joint. If there's a small effusion, the fluid which was milked to the lateral aspect will be pushed back towards the medial area of the joint, causing the 		
medial skin to bulge out slightly . Move			
Passive movement.: This involves the patient relaxing and allowing you to move the joint freely	* Examination of crepitus - clicking of the joint with motion * Knee flexion & extension * Hyperextension – elevate both legs by the heels – note any hyperextension		
Active movement (E & F), note any: This involves the patient performing the movement.	* Limitation. * Instability.		

Measure Measure and compare quadriceps bulk (20 cm above tibial tuberosity) Range of movement. **Strength of knee ligaments:** o Anterior drawer sign Anterior drawer sign - tests the anterior cruciate ligament (ACL) Posterior anterior drawer sign Posterior drawer sign - tests the posterior cruciate ligament Valgus Stress - tests the Medial collateral Varus stress: Rupture of lateral Valgus stress: Rupture ligament of medial collateral collateral ligament. This is rare but can ligament. This shifts the forces to the lateral occur when a condyles and leads to a motorcycle fall on the medial side of the torn lateral meniscus and torn ACL_{Edit} d impaction of the lateral femoral condyle or Varus Stress- tests the Lateral wedge fracture of the lateral tibial plateau. collateral ligament

Special Tests:

Patellar apprehension test:

- Done when recurrent dislocation or subluxation of patella is suspected.
- Push the patella firmly to the lateral side while slowly flexing the knee.

Look at the patient's face for any anxious expression that may suggest impending dislocation.

https://www.youtube.com/watch?v=xXmjYVDkmVg

Apley's grinding test.: with patient prone, apply axial load to knee while flexed to 90 degree and rotate foot

https://www.youtube.com/watch?v=w57I1cYXICA

Distraction test.

https://www.youtube.com/watch?v=A_Lk20eiqxM

McMurray's test.

https://www.youtube.com/watch?v=Irg3Cb4JaE8 https://www.youtube.com/watch?v=tzuEFk3CmAo

To complet

Neurovascular examination of both lower limbs ankle & hip Examination of the joint above and below Further imaging if indicated – X-ray / MRI

videos:

https://www.youtube.com/watch?v=fNUGyNYVhqE

 $\underline{https://www.youtube.com/watch?v=wOplC9qMfrU}$

 $\underline{https://www.youtube.com/watch?v=pT1ZHVbpsuw}$

https://www.youtube.com/watch?v=wlLfNls75RY

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