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Canadian Family Medicine Clinical Card

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Joint Pain 3: Lower Limb

	Hx Clues	Physical Exam	Top DDx
Hip Pain	Lateral-sided hip pain, esp. when lying on side. ♀ > ♂	Pain on palpation of greater trochanter	Trochanteric Bursitis
	Activity-related groin & hip pain. Worse with flexion/sitting	Flexion/adduction/IR = pain Decreased ROM	Femoroacetabular impingement
	Children 4-8y; ♂ > ♀; Insidious onset	± mild limp; ROM - restricted abduction & IR 1 st affected	Legg-Calve-Perthes
	Children <6y	Limp ± refusal to weight bear	Transient Synovitis
	♂ > ♀ ; 10-17y, ↑BMI	Limp; limited ROM; ± weight bear; ± knee pain	Slipped Capital Femoral Epiphysis

	Hx Clues	Physical Exam	Top DDx
Knee Pain	Acute: plant & twist mechanism of injury Degen.: Older patient	Joint line tenderness; ± effusion; ± locking & clicking (+) McMurray's test; (+) Thessaly test	Acute/ Degenerative Meniscal Tear
	Teens/young adults; runner; ↑ pain with prolonged sitting	Tender patella; (+) patellar friction test;	Patellofemoral syndrome
	Valgus force; ext. rot. injury; pop; abrupt swelling; ♀ > ♂	(+) Lachman > (+) Anterior drawer; swollen; may also be findings suggestive of MCL or meniscal involvement	ACL tear
	Pain after → during activity (e.g. jumping)	Superior patellar pole tender (quad) Inferior patella pole tender (patellar)	Patellar/quad tendonitis
	Adolescence; worse after activity	Prominence & tenderness of tibial tuberosity; often bilateral	Osgood-Schlatter's
	Acute/cumulative trauma; ++kneeling	Swelling over extensor aspect No pain on passive ROM (± full flexion)	Prepatellar bursitis
	Medial pain; ♀ > ♂; long distance runners	Severe point tenderness at anserine tendon insertion site	Pes anserine bursitis
	Hx instability; gradual onset	Possible ↑Q-Angle or leg length discrepancy; observed maltracking	Patellar maltracking
Lateral knee pain; runner/cyclist	Tenderness to palpation over iliotibial band	IT Band Syndrome	

	Hx Clues	Physical Exam	Top DDx
Foot Pain	Inferior heel pain; activity with lots of standing; more severe in morning; often recent Δ in activity/footwear	Tender along plantar fascia insertion (bottom medial side of heel)	Plantar fasciitis
	Heel pain in physically active individuals; more severe in morning	Pain, tenderness and swelling at tendon site	Achilles tendonitis

General Management Principles

- ① Rest ② Ice ③ Activity modification ④ PT/strength building/stretching
- ⑤ Analgesics/NSAIDs (if indicated) ⑥ Steroid injection (if refractory & indicated)
- ⑦ Aspirate & assess fluid **when suspicious for septic joint/bursa** ⑧ X-ray may be warranted - **especially in child with limp** ⑨ Surgery - depends on situation

Key References: Solomon DH, et al. The rational clinical examination. Does this patient have a torn meniscus or ligament of the knee? Value of the physical examination. *JAMA*. 2001; 286(13):1610-20. Taunton JE, Wilkinson M. Rheumatology: 14. Diagnosis and management of anterior knee pain. *CMAJ*. 2001;164(11):1595-601. Malleson PN, Beauchamp RD. Rheumatology: 16. Diagnosing musculoskeletal pain in children. *CMAJ*. 2001; 165(2):183-8. Madden CC. Netter's Sports Medicine. (2010). Philadelphia: Saunders/Elsevier.