Differential diagnoses – other spinal conditions

> Spinal tumour/neoplasia > Infection > Inflammatory arthritis > Scheuermann's kyphosis > Paget's disease of bone

Clinical condition	Symptoms	Investigations	Management	Referral
 Spinal tumour/neoplasia May include: multiple myeloma metastatic carcinoma lymphoma leukaemia spinal cord tumours primary vertebral tumours. 	 Subjective assessment Unremitting night pain; axial or radiating Neurologic dysfunction eg sensory dysaesthesia, muscular weakness – may begin unilaterally, progress to bilateral Progressive difficulty in ambulation or gait ataxia Bladder and /or bowel dysfunction Objective examination Spinal movements variably limited. Careful neurological assessment is indicated 	 X-ray, CT scan or MRI (preferred modality) CT myelography useful in selected patients WBBS CBP 	Emergency Department evaluation required.	Immediate referral to Emergency Department Or contact Spinal Fellow or Registrar via Switchboard Tel: 7074 0000.
 Infection May include: > osteomyelitis > septic discitis > paraspinal or epidural abscess > shingles. 	 Subjective assessment C/o spinal pain (insidious onset, gradual worsening) Pain often worse at night (but may be relieved by bed rest) Fever is an inconsistent finding Objective examination Local tenderness Reduced spinal mobility. Protective muscle spasm Careful neurological assessment is indicated 	 > CBE > MRI (preferred imaging technique) 	Emergency Department evaluation required.	Immediate referral to Emergency Department Or contact Spinal Fellow or Registrar via Switchboard Tel: 7074 0000.

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Clinical condition	Clinical condition Symptoms	Clinical condition Symptoms Investigations	Clinical condition Symptoms Investigations Management
Scheuermann's kyphosis	 Scheuermann's kyphosis Subjective assessment Parotacic or thoraco-lumbar pain typically occurring during early adolescence Pain is subacted with no clear history of trauma Aggravated by activity, worse end of day and relieved by rest Difective examination A rigid kyphosis with sharp angulation on forward bending may be observed. the curvature does not flatten with extension or lying supine Ariable ROM deficits depending on disease severity. Neurological deficits are uncommon 	 Thoracic or thoraco-lumbar pain typically occurring during early adolescence Pain is subacute with no clear history of trauma Aggravated by activity, worse end of day and relieved by rest Objective examination A rigid kyphosis with sharp angulation on forward bending may be observed. The curvature does not flatten with extension or lying supine Variable ROM deficits depending on disease severity. Neurological deficits 	 Thoracic or thoraco-lumbar pain typically occurring during early adolescence Pain is subacute with no clear history of trauma Aggravated by activity, worse end of day and relieved by rest A rigid kyphosis with sharp angulation on forward bending may be observed. The curvature does not flatten with extension or lying supine Variable ROM deficits depending on disease severity. Neurological deficits



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> Spinal tumour/neoplasia > Infection > Inflammatory arthritis > Scheuermann's kyphosis > Paget's disease of bone

Clinical condition	Symptoms	Investigations	Management	Referral
Paget's disease of bone	 Subjective assessment Most commonly affects the pelvis, spine, skull and long bones Manifests as pain and deformity in the affected areas Pain is often worse with weight bearing and may increase at night Neurologic complications caused by nerve compression are associated with enlargement or deformity of adjacent bone Objective examination Careful physical examination of the involved region is required Neurological assessment may be indicated 	 > CBE (elevated serum alkaline phosphatase and calcium concentration) > WBBS 	 Pharmacologic treatment is aimed at easing pain and reducing the rate of bone remodelling (towards normal) Individuals may also require Physiotherapy assessment, walking aids and attention to psychosocial issues 	Referral to the Orthopaedic Department

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