> Hip osteoarthritis > Vascular insufficiency > Diabetic neuropathy > Sacroiliac joint dysfunction > Abdominal aortic aneurism > Visceral disease

Clinical condition	Symptoms	Investigations	Management	Referral
Hip osteoarthritis	 Subjective assessment Most commonly: patient >40 yrs with main c/o gradual onset anterior hip or groin pain Agg by WB activity, relieved by rest. Eventually becomes more constant and may experience night pain C/o hip stiffness, particularly in am (<30mins) or after inactivity Objective examination Decreased WB tolerance and altered gait Reduced hip mobility with associated pain 	 Plain XR +/- CBE (including ESR) to exclude systemic arthritis or infection 	Consider: > paracetamol protocol > NSAIDs (short course) > weight loss > hydrotherapy, general exercise > physiotherapy guidance with ROM and strengthening exercises > gait aid > chondroitin sulphate > glucosamine > high dose omega 3.	Refer to Hip Arthroplasty Clinic if symptoms are severe enough to consider surgical intervention. Referral to rheumatology if positive inflammatory markers.
Vascular insufficiency	 Subjective assessment Can present with buttock, hip, thigh, calf or foot pain; separately or in combination Most commonly: calf claudication. c/o cramping pain consistently reproduced with exercise and relieved with rest Severe cases can cause ischaemic rest pain which typically occurs at night in digits or forefoot. This pain may be relieved by hanging the leg or by walking 	 Measurement of the resting ankle-brachial systolic pressure index (ABI) <!-- = 0.90</li--> Ultrasonography, CT, MRI Arteriography 	 Medical treatment Reducing risk factors, exercise training, medication Surgical revascularisation procedures 	Referral to Vascular Surgery Outpatient Department.
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Clinical condition	Symptoms	Investigations	Management	Referral
	 Objective examination > Diminished or absent pulses below the level of stenosis > Evidence of poor wound healing, unilateral cool extremity, prolonged venous filling time, shiny or atrophied skin, nail changes > Lower extremity bruits and positive Buerger test 			
 Diabetic polyneuropathy Other less common forms of diabetic neuropathy include: autonomic neuropathy radiculopathies mononeuropathies. 	 Subjective assessment Characterised by progressive, symmetrical loss of distal sensation, typically in a 'stocking-glove' distribution May present with pain, paraesthesia or dysaesthesia of the feet May progress to involve motor weakness Objective examination Loss of vibratory sensation and altered proprioception through involved area Impaired pain, light touch and temperature Decreased or absent AJ reflexes occur early in the disease. More widespread reflex loss and motor weakness are late findings Severe cases may involve the formation of foot ulcers, claw-toe deformity, and arthropathic changes 	 At least annually: check for history of neuropathic symptoms careful clinical examination of the feet including observation, sensory evaluation (eg pin-prick, temperature, vibration, pressure sensation) and reflex testing early detection is important. Therapeutic interventions to consider include: patient education, regular foot surveillance, improved glycaemic control 	 Early detection is important. Therapeutic interventions to consider include: patient education regular foot surveillance improved glycaemic control adequate control of pain (if present). 	Referral to Outpatient Diabetes Service if required. Consider podiatry referral (if indicated).
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Clinical condition	Symptoms	Investigations	Management	Referral
Sacroiliac joint dysfunction	 Subjective assessment C/o pain in lower back or posterior hip region. May also be present in groin and thighs. Usually unilateral but may be bilateral Aggravated by standing, walking, stairs Objective examination Palpable tenderness over the joint line Commonly used tests to identify dysfunction include the Gillet test, standing/seated flexion tests and various provocation tests. (The reliability of individual tests shown to be low) 	 Consider: XR, CT, MRI, bone scan/SPECT scan Consider CBE (including ESR) to exclude systemic inflammatory condition 	Conservative management strategies may include: > NSAIDs > physiotherapy > SIJ belt > strengthening and stabilising exercises. Local cortisone injection could be considered.	Referral to Orthopaedic Outpatient Department if conservative management approach is unsuccessful.
Abdominal aortic aneurism	 Subjective assessment Recent onset of abdominal or back pain may suggest aneurism expansion A clear mechanical cause of back pain is not reported Pain is constant and unrelated to spinal movement Objective examination Pulsatile, expansile mass at or above the umbilicus Auscultation of the abdomen may reveal bruit or machinery murmur Hypotensive 	 > An asymptomatic AAA may be discovered incidentally on abdominal US, CT or MRI for other purposes > Further investigation with US is the preferred modality for screening and monitoring 	 > Appropriate patient selection and timing for aneurism repair is based on identifying individuals at greatest risk of rupture > Attention to risk factor reduction is important, including smoking cessation > Once rupture occurs emergency repair is indicated but mortality is extremely high 	Referral to Vascular Outpatient Department if AAA detected. AAA rupture is a medical emergency.
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Clinical condition	Symptoms	Investigations	Management	Referral
 Visceral disease > Disease of pelvic organs (prostatitis, endometriosis, PID) > Renal disease > Gastrointestinal disease (pancreatitis, cholecystitis, penetrating ulcer, inflammatory bowel disease) > Visceral carcinoma 	<section-header><section-header><list-item><list-item></list-item></list-item></section-header></section-header>	 > Investigation of visceral disease as indicated by clinical presentation > If LBP does not improve in association with improvement in medical condition; consider further investigations after 12 weeks > Investigations (eg imaging, CBE) to exclude visceral carcinoma if indicated 	Improvement/resolution of LBP is expected in association with treatment/ improvement in visceral disease	Referral for specialist opinion as appropriate.
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For more information Web: www.sahealth.sa.gov.au/lumbardisorders Document updated: September 2021

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