# RAP-eL

## Practice summary sheet

# Module 4: Extra-articular features of rheumatoid arthritis (RA) and comorbid conditions

- Morbidity and mortality associated with **cardiovascular disease** is one of the most common extra-articular manifestations related to RA. *Monitor cardiovascular status closely* and address risk factors for cardiovascular disease. If in doubt, on-refer.
- On-refer early to a GP for further investigation if you notice changes in a patient's cardiopulmonary capacity and exercise tolerance.
- On-refer to a GP if you suspect skin cancers

#### Extra-articular features of RA

Body system	Manifestation	What to look for
Clain	Modulos	Cingle/ multiple subsutaneous nadules - Emm diameter
Skin	Nodules click to see image in Module 4	Single/ multiple subcutaneous nodules >5mm diameter. Usually painless and on extensor surfaces.
	Raynaud's Sign	Colour change (paleness) of fingers/toes in response to cold or stress
	Major cutaneous vasculitis*	Red/purple skin spotting which doesn't blanch with pressure. Leg ulcers and peripheral gangrene
Pulmonary	Bronchiolitis obliterans organizing pneumonia (BOOP)	Dry cough, dyspnoea, wheezing, crackles on auscultation
	Pleuritis* and pleural effusion	Sharp chest pain with deep breathing, coughing, sneezing, laughing
	Interstitial lung disease*	Dyspnoea, cough
Cardiovascular	Pericarditis*	Chest pain, dyspnea, palpitations.
	Vasculitis	Signs of ischaemia/necrosis in affected organs/ tissues.
	Ischaemic Heart Disease	Reduced cardiac capacity
Neurological	Mono neuritis multiplex* or peripheral neuropathy	Acute sensory and/or motor neuropathy in one or more nerve trunks secondary to vasculitis, compression or diabetes
Visual	Sjögren's syndrome	Dry eyes and mouth +/- skin, nose and vaginal dryness
	Episcleritis or scleritis* click to see image	'Red eye' - redness of the white part (sclera) of the eye, eye pain with possible radiation to the jaw, photophobia, decreased visual acuity
Haematological	Felty's syndrome*†	High rate of bacterial infections, fever, weight loss, fatigue.
Skeletal body System	Osteoporosis	Minimal trauma fracture, height loss. Be vigilant about bone fragility

<sup>\*</sup> severe manifestations † defined as chronic polyarthritis, neutropenia and splenomegaly. SOURCE: Briggs et al 2013



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#### Co-morbid conditions and complications

Body system	Co-morbidities/ Complications	What to look for
Neurological	Cervical myelopathy*	Neck pain, upper limb pain, sensory and motor changes in upper limbs, gait disturbances.  Be vigilant about possible cervical spine instability (C1/2 specifically). Avoid strong manual therapy techniques in the upper cervical spine. On-refer if in doubt
Metabolic / Endocrine	Osteoporosis Steroid-induced diabetes	Minimal trauma fracture, height loss. Be vigilant about bone fragility (consider exercise type, intensity and avoid use of strong manual therapy techniques if severe osteoporosis).  Painful peripheral neuropathy

<sup>\*</sup> occurs as a consequence of subluxation of cervical spine joints. SOURCE: Briggs et al 2013

#### **Management Considerations:**

- Extra-articular features can cause considerable disability and MUST be considered and monitored when formulating individualised physiotherapy management plans and goals.
- Work with patients to address modifiable risk factors such as obesity, smoking and alcohol. Use education and exercise based strategies including liaising/referring to other multidisciplinary team members.