

## Supplementary Data

### Australian Consensus Statements for the assessment and management of Non-Radiographic Axial Spondyloarthritis

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## **S1. MEDLINE Search terms based on 2014 Consensus Statements**

**The patient's views, preferences and goals are central and care should be a partnership between the clinical team and the patient**

("axial spondylo\*" AND (patient-centered OR (patient centered) OR preferences OR goals) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter])) AND ("2013/09/01"[Date - Publication] : "2020/11/01"[Date - Publication]))

**Patient education is a key part of the management of nr-axSpA**

("axial spondylo\*" AND ((patient education) OR education OR understanding OR knowledge OR "shared decision making" OR perception OR beliefs) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter])) AND ("2013/09/01"[Date - Publication] : "2020/11/01"[Date - Publication]))

**A comprehensive history and physical examination should be carried out for the assessment of suspected nr-axSpA**

("axial spondylo\*" AND (history OR examination OR "clinical assessment" OR "clinical diagnosis" OR "clinical features" OR diagnos\*[TI]) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter])) AND ("2013/09/01"[Date - Publication] : "2020/11/01"[Date - Publication]))

**CRP should be measured when considering the diagnosis of nr-axSpA; high sensitivity CRP does not add value to normal CRP**

("axial spondylo\*" AND ((ESR OR "erythrocyte sedimentation rate" OR C-reactive protein OR CRP OR "inflammatory marker" OR "inflammatory biomarker") AND diagnos\*[TIAB]) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter])) AND ("2013/09/01"[Date - Publication] : "2020/11/01"[Date - Publication]))

**HLA-B27 status should be determined when considering the diagnosis of nr-axSpA**

("axial spondylo\*" AND ((HLA-B27 OR B27) AND diagnos\*[TIAB]) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter])) AND ("2013/09/01"[Date - Publication] : "2020/11/01"[Date - Publication]))

**Plain pelvic radiographs may be useful to distinguish non-inflammatory and inflammatory causes of back pain; a normal radiograph does not exclude nr-axSpA**

("axial spondylo\*" OR "inflammatory back pain" ) AND (x-ray or radiograph\*) AND diagnos\* NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter]) AND (("2013/09/01"[Date - Publication] : "2020/11/01"[Date - Publication]))

**Sacroiliac joint MRI should be used in those with clinical suspicion of nr-axSpA.**

**T1 and STIR without gadolinium is the recommended protocol**

("axial spondylo\*" OR "inflammatory back pain" ) AND (MRI or "Magnetic Resonance Imaging") NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter])

**Computed tomography is not recommended for the investigation of suspected nr-axSpA**

("axial spondylo\*" OR "inflammatory back pain" ) AND (CT or "Computer Tomography") NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter]) AND (("2013/09/01"[Date - Publication] : "2020/11/01"[Date - Publication]))

**Classification criteria have value in the diagnosis of nr-axSpA, but classification criteria sets should not be used to include or exclude this diagnosis in individual patients**

("axial spondylo\*" ) AND ("classification criteria" OR "diagnostic criteria") NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter]) AND (("2013/09/01"[Date - Publication] : "2020/11/01"[Date - Publication]))

(axial spondylo\*) AND classification AND (diagnos\*)

### **Physiotherapy may be useful in the management of nr-axSpA**

("axial spondylo\*" ) AND (physiotherapy OR "physical therapy") NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter]) AND ("2013/09/01"[Date - Publication] : "2020/11/01"[Date - Publication]))

### **There is no role for DMARDs in the management of axial manifestations in nr-axSpA. Sulphasalazine can be considered for those with peripheral manifestations in nr-axSpA**

("axial spondylo\*" ) AND (Sulfasalazine OR DMARD OR "Disease Modifying Anti-Rheumatic Drugs") NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter]) AND ("2013/09/01"[Date - Publication] : "2020/11/01"[Date - Publication]))

### **Non-steroidal anti-inflammatories are recommended as first-line pharmacological treatment for the management of nr-axSpA**

("axial spondylo\*" ) AND (NSAID or "Non-steroidal anti-inflammatories" OR "Non-steroidal anti-inflammatory" OR NSAIDs ) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter]) AND ("2013/09/01"[Date - Publication] : "2020/11/01"[Date - Publication]))

### **TNF inhibitors are useful in the management of nr-axSpA**

("axial spondylo\*" ) AND ( (TNF inhibitor) OR (Tumor Necrosis Factor inhibitor) OR (Tumor Necrosis Factor alpha inhibitor) OR adalimumab OR certolizumab OR infliximab OR etanercept OR golimumab ) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter])

## **Glucocorticoids may have a limited role in NSAID-refractory nr-axSpA.**

("axial spondylo\*" ) AND ( Glucocorticoid OR corticosteroid OR steroid OR prednisone or hydrocortisone OR dexamethasone or methylprednisone ) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter]) AND (("2013/09/01"[Date - Publication] : "2020/11/01"[Date - Publication]))

## **S2. MEDLINE search terms for new topics**

**What is the range of /typical level of impairment?**

**What is the impact of nr-Ax SpA on mental health, working, social, domestic and sexual function?**

**What are the predictors of function/QoL in nr-Ax SpA?**

("axial spondylo\*" [All Fields]) AND (ASDAS OR BASDAI OR "quality of life" [MeSH Terms] OR "Mental Health" [MeSH Terms] OR "sexual health" [MeSH Terms] OR "burden of disease" [TIAB] OR "disability" [TIAB] OR "impair\*" [TIAB] OR "function\*" [TIAB] OR "work" OR "sick leave" [TIAB] OR "social" [TIAB] OR "physician global assessment" [TIAB] OR "patient global assessment" [TIAB]) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter])

[no date filter]

**How well do people with a mixture of nr-SpA and NSBP symptoms respond to established treatments? *In patients with co-morbid nr-AxSpa and NSBP, how well do patients respond to standard treatments?***

("axial spondylo\*" [All Fields]) AND ("back pain" [TIAB]) AND ("treatment" [TIAB] OR "response" [TIAB] ) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter])

[no date filter]

("axial spondylo\*" [All Fields]) AND ("back pain" [TIAB]) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter])

**What are the predictors of response to treatment? eg CRP, MRI, BASDAI, ASDAS**

("axial spondylo\*" [All Fields]) AND ("predict\*" [TIAB] OR "determin\*" [TIAB]) AND ("response\*" [TIAB] OR "outcome\*" [TIAB]) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter])

[no date filter]

**Is the one biologic or biologic class recommended over others? Eg TNF vs IL-17**

("axial spondylo\*" ) AND ( secukinumab OR ixekizumab or IL-17) NOT (animals [mh] NOT humans [mh]) NOT review[pt] AND (english[Filter])

[no date filter]