

abbvie



Breakfast Session

Dr Sarah Jordan

Rheumatology
Clinical Lecturer
Dunedin

Ankylosing Spondylitis, Psoriatic Arthritis and the other Spondyloarthropathies:
What to look for, how to treat and when to refer - AbbVie Breakfast

Saturday, 17 August 2013

Start 7:30am

Duration: 30mins

Plenary



South GP CME 2013

General Practice Conference & Medical Exhibition

15-18 August | Edgar Centre | Dunedin

Ankylosing spondylitis, Psoriatic Arthritis ... And the others

The Spondyloarthropathies (SpA)

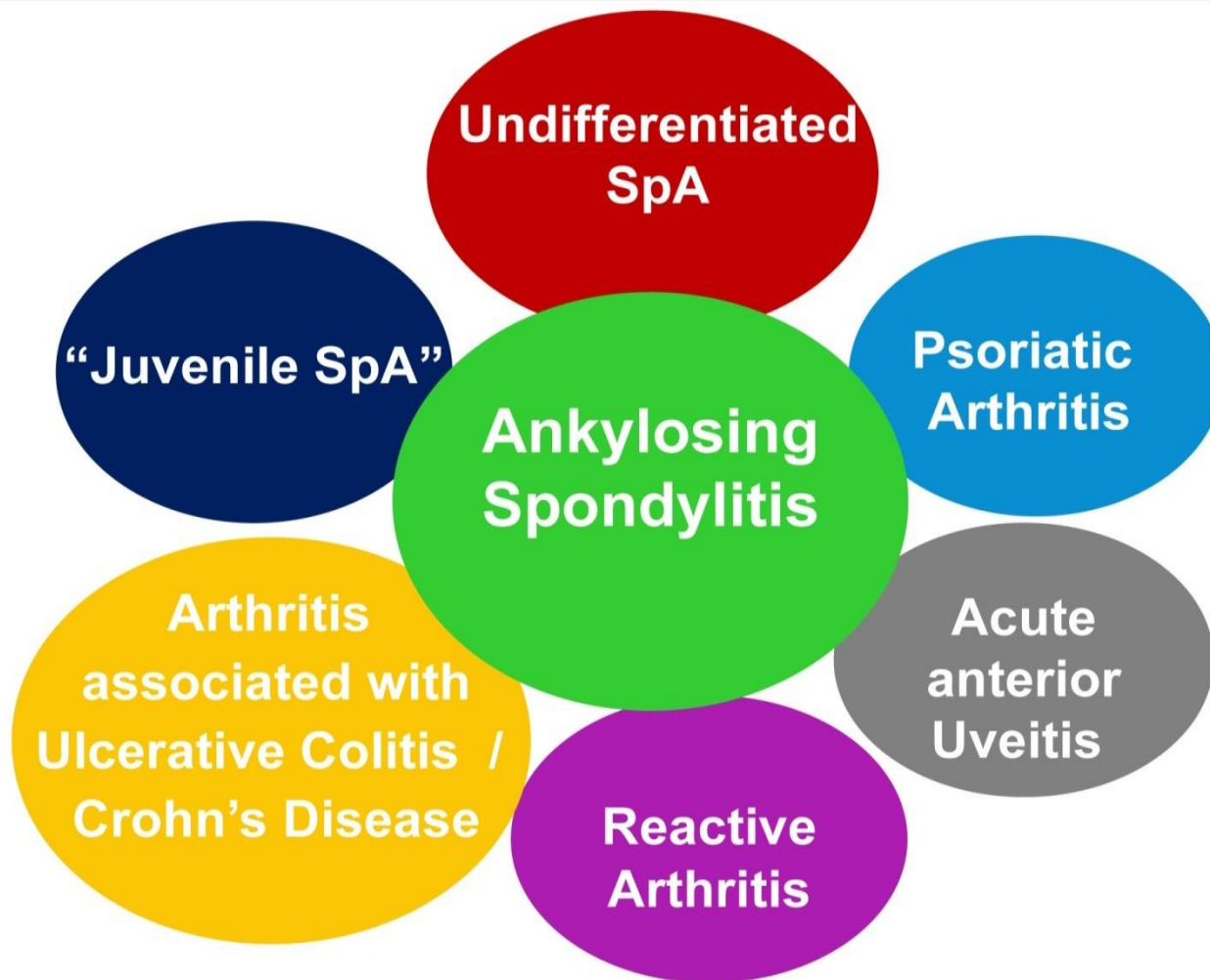
Sarah Jordan

Rheumatologist

Spondyloarthropathies

- Ankylosing spondylitis
- Psoriatic arthritis
- Reactive arthritis
- Arthritis associated with IBD
- Undifferentiated spondyloarthritis

Concept of Spondyloarthritis (SpA)



Characteristics of Patients with Spondyloarthritis

- Axial (spinal) disease
- Peripheral arthritis
 - Most commonly 2–4 joints (oligoarthritis)
 - Generally asymmetrical presentation
- Enthesitis
 - Inflammation at the sites where tendons or ligaments insert into bone
- Dactylitis
 - Sausage-like finger or toe
- Extra-articular features
 - Acute anterior uveitis
 - Psoriasis
 - Inflammatory bowel disease

Axial (spinal) disease → IBP

- Age at onset <40
- Insidious onset
- Improvement with exercise
- No improvement with rest
- Night pain (with improvement upon getting up)

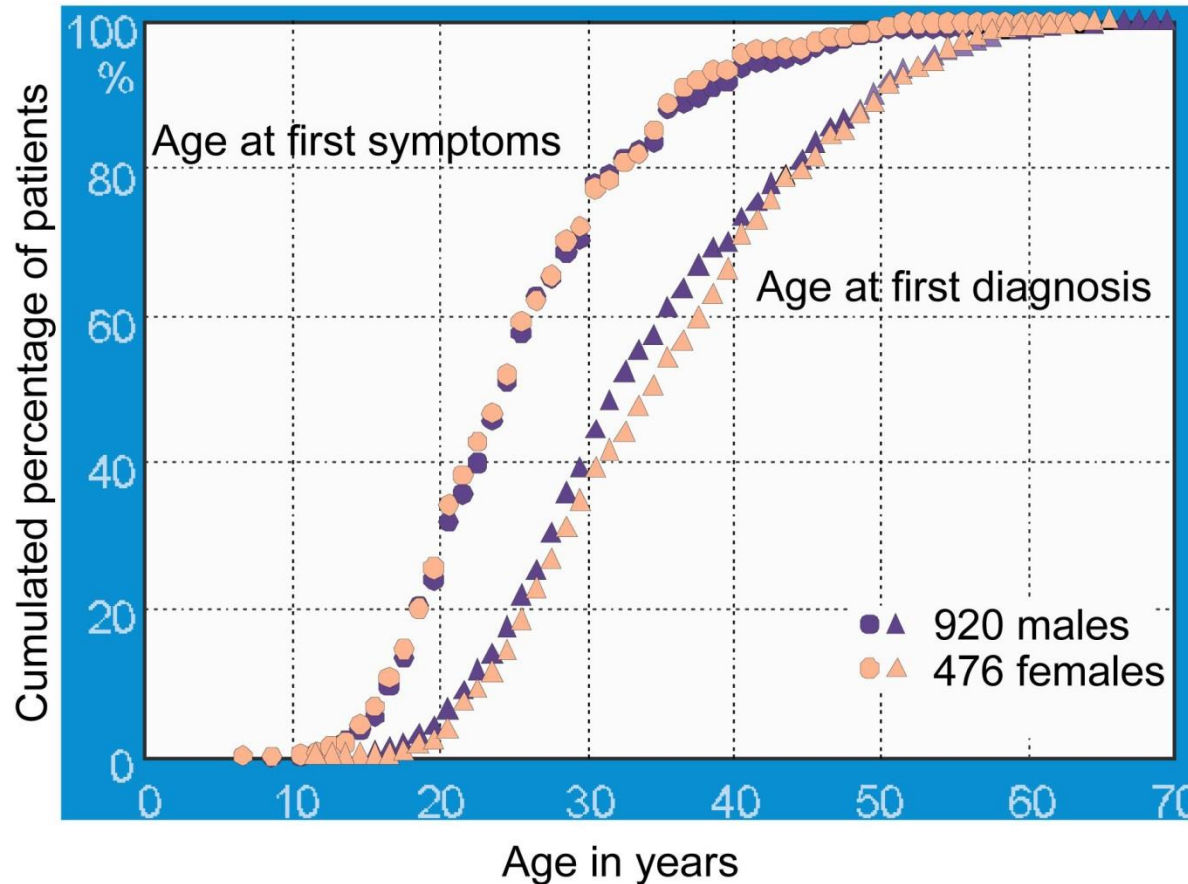
Association with HLA-B27

Disease	Prevalence of HLA-B27 (%)
Ankylosing spondylitis	90
Psoriatic arthritis	25 - 35
Reactive arthritis	40-80
Arthritis associated with IBD	35-75
Undifferentiated spondyloarthropathy	70

Ankylosing Spondylitis

- Prevalence 0.2-1.4%
- M:F 2:1
- 90-95% HLA-B27 positive
- Onset 2nd to 3rd decade
- Back pain, arthritis, enthesitis, extra-articular features – uveitis in up to 40%
- Mean delays in diagnosis 9 yrs

Age at First Symptoms and at First Diagnosis in Ankylosing Spondylitis Patients



Average delay in diagnosis: 9 years

Severe Disease Outcome

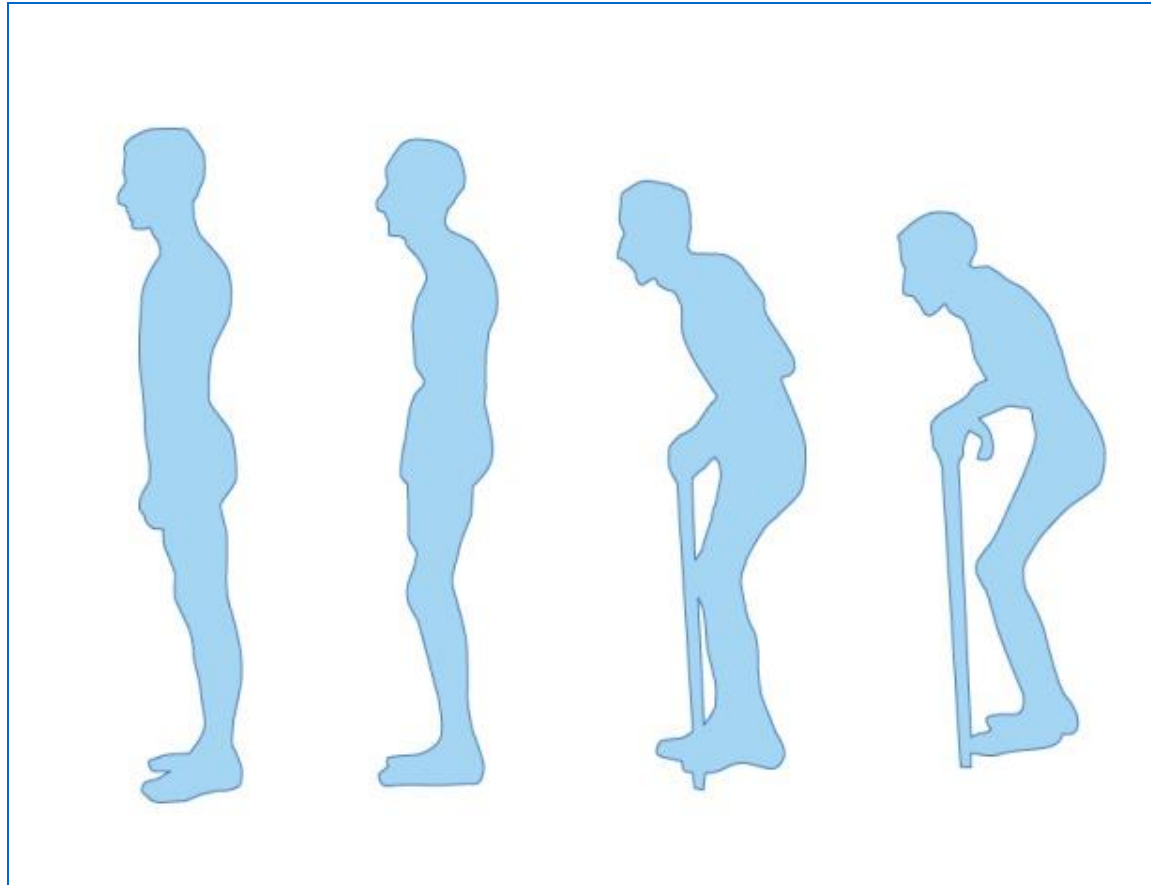
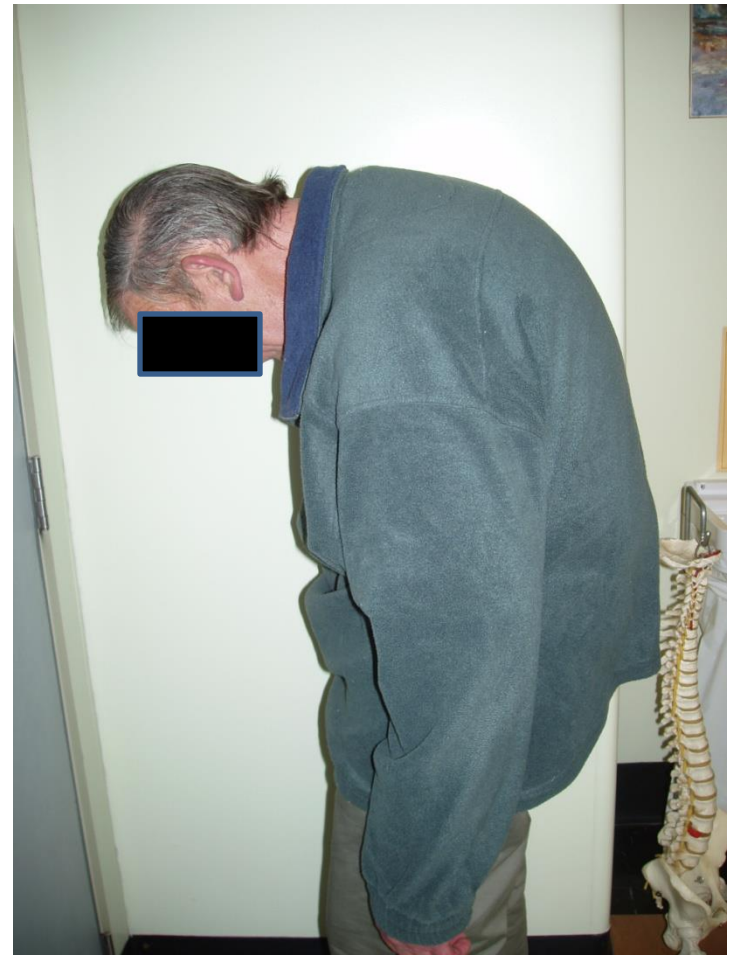
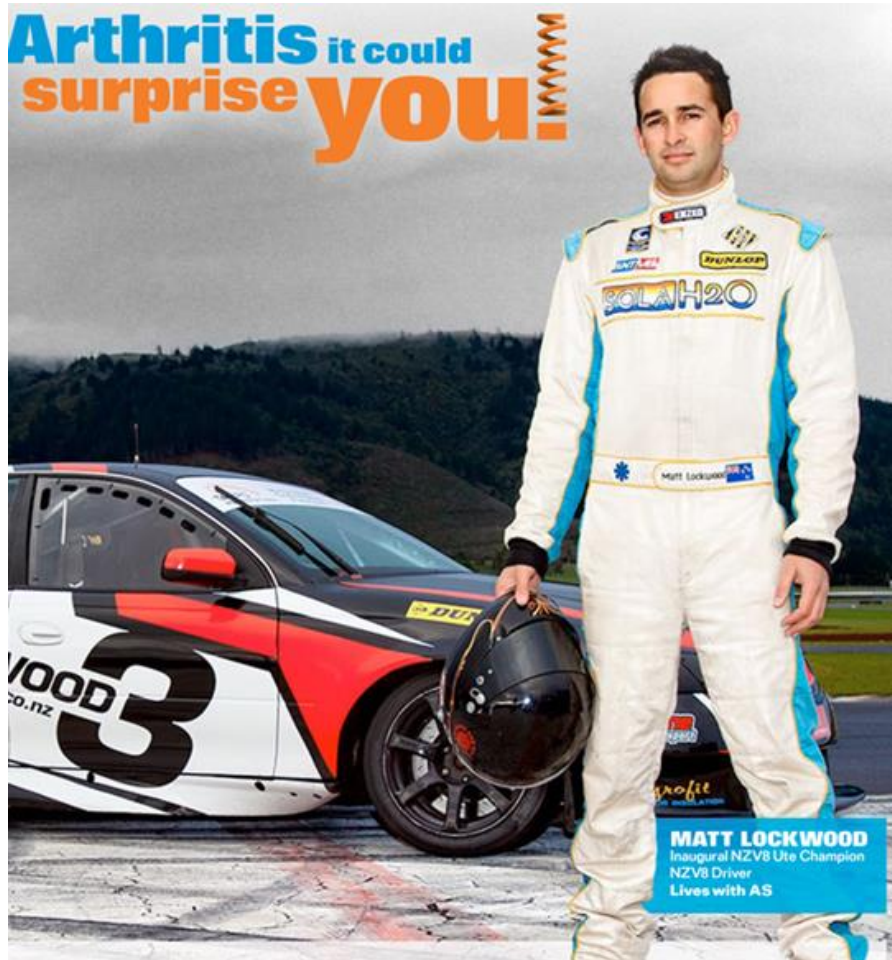


Image adapted from Little, H. et al. *Am J Med.* 1976; 60:279–285.

Real life



Psoriatic arthritis

- Prevalence 0.3 - 1% c.f. skin Psoriasis 2%
- Occurs in >10% pts with psoriasis
- M:F 1:1
- peak 20-24yrs
- Usually RF negative, 17.5% CCP positive
- 5 subtypes

Patterns in PsA

Pattern	Features	Rate
Oligoarticular	<ul style="list-style-type: none"> • Usually involves small joints, less frequently involves large joints • Normally oligoarthritis (≤ 4 joints) 	~ 47%
Polyarticular	<ul style="list-style-type: none"> • Involves small joints and large joints • May be RF positive (clinically similar to RA) • Arthritis may develop concurrently with psoriasis 	~ 25%
Spondylitis	<ul style="list-style-type: none"> • SIJ and vertebrae affected asymmetrically • More common in men • May coexist with peripheral PsA • Enthesitis prevalent 	~ 23%
DIP synovitis	<ul style="list-style-type: none"> • Restricted to only DIP joints 	
Arthritis mutilans	<ul style="list-style-type: none"> • Joint lysis • Telescoping movement 	

SIJ: sacroiliac joint













Arthritis associated with IBD

- 4-10% AS
- 23% sacroiliitis on x-ray
- 6% peripheral arthritis
- Type I - peripheral pauciarticular
- Type II - peripheral polyarticular
- Type III - sacroiliitis, spondylitis

Reactive arthritis

- Aseptic peripheral arthritis
- 1-4 weeks post infection
- Incidence 30-40 per 100 000 adults
- M:F 1:1
- 25% triggering infection unknown
- No diagnostic criteria
- Generally good prognosis
- 15-36% develop chronic arthritis

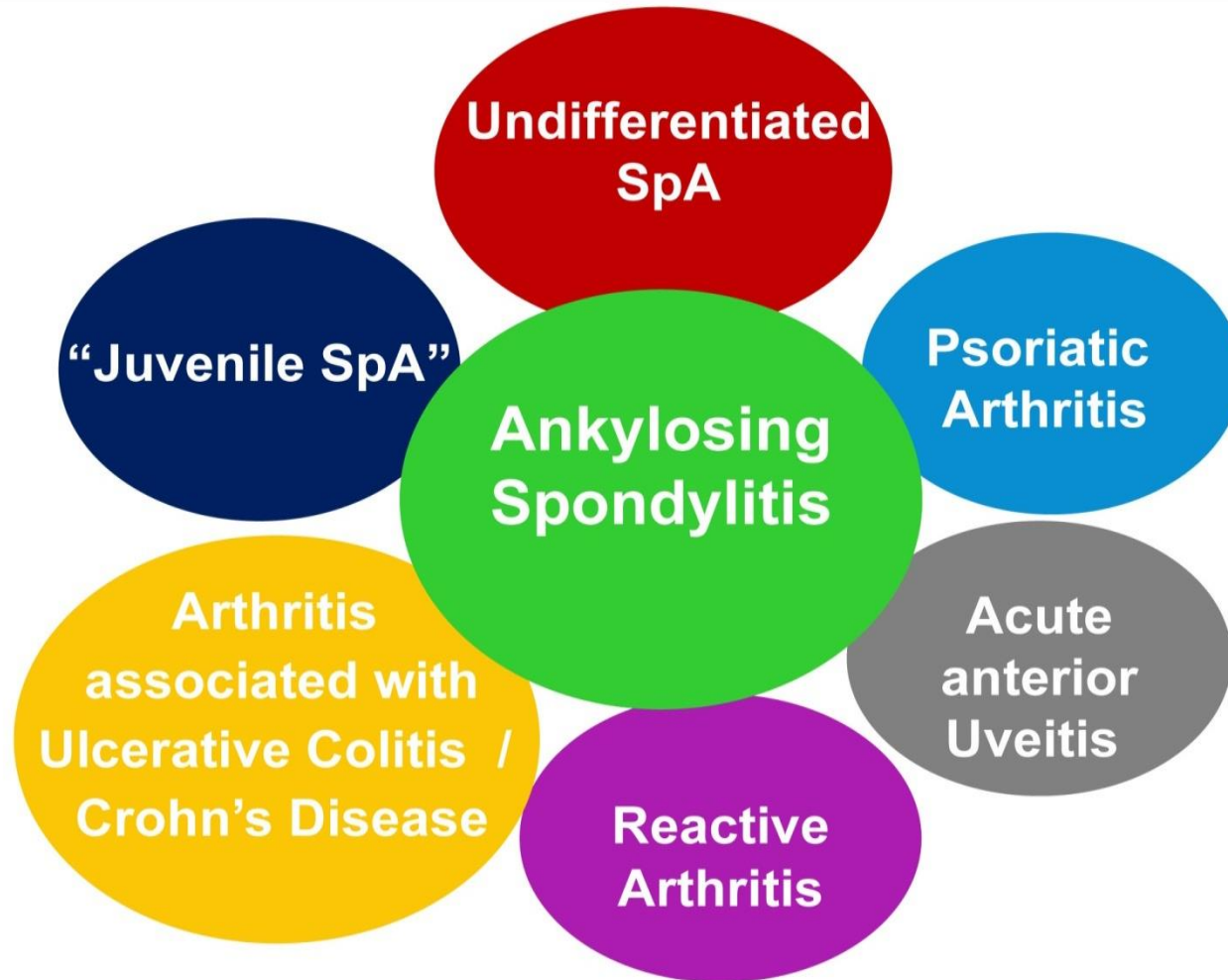
Undifferentiated SpA

- Features of SpA
- AS criteria not met
- No infection, psoriasis or IBD
- 42-68% progress to AS
- Predictors; sacroiliits, uveitis

Clinical assesment

- Inflammatory back pain
- Enthesitis or dactylitis
- Family history of SpA
- Psoriasis
- Inflammatory eye disease
- Bowel symptoms
- Preceding infections

Concept of Spondyloarthritis (SpA)



ASAS Classification Criteria for Axial Spondyloarthritis

In patients with >3 months back pain and age at onset <45

**Sacroiliitis on imaging
Plus
at least 1 SpA feature**

OR

**HLA-B27
Plus
2 or more SpA features**

SpA features:

Inflammatory back pain
Arthritis
Enthesitis (heel)
Uveitis
Dactylitis
Psoriasis
Crohn's/Colitis
Good response to NSAIDs
Family history SpA
HLA-B27
Elevated CRP

ASAS classification criteria for peripheral spondyloarthritis

Arthritis or enthesitis or dactylitis

plus

≥ 1 SpA feature

Uveitis

Psoriasis

Crohn's/colitis

Preceding infection

HLA-B27

Sacroiliitis on imaging

OR

≥ 2 other SpA features

Arthritis

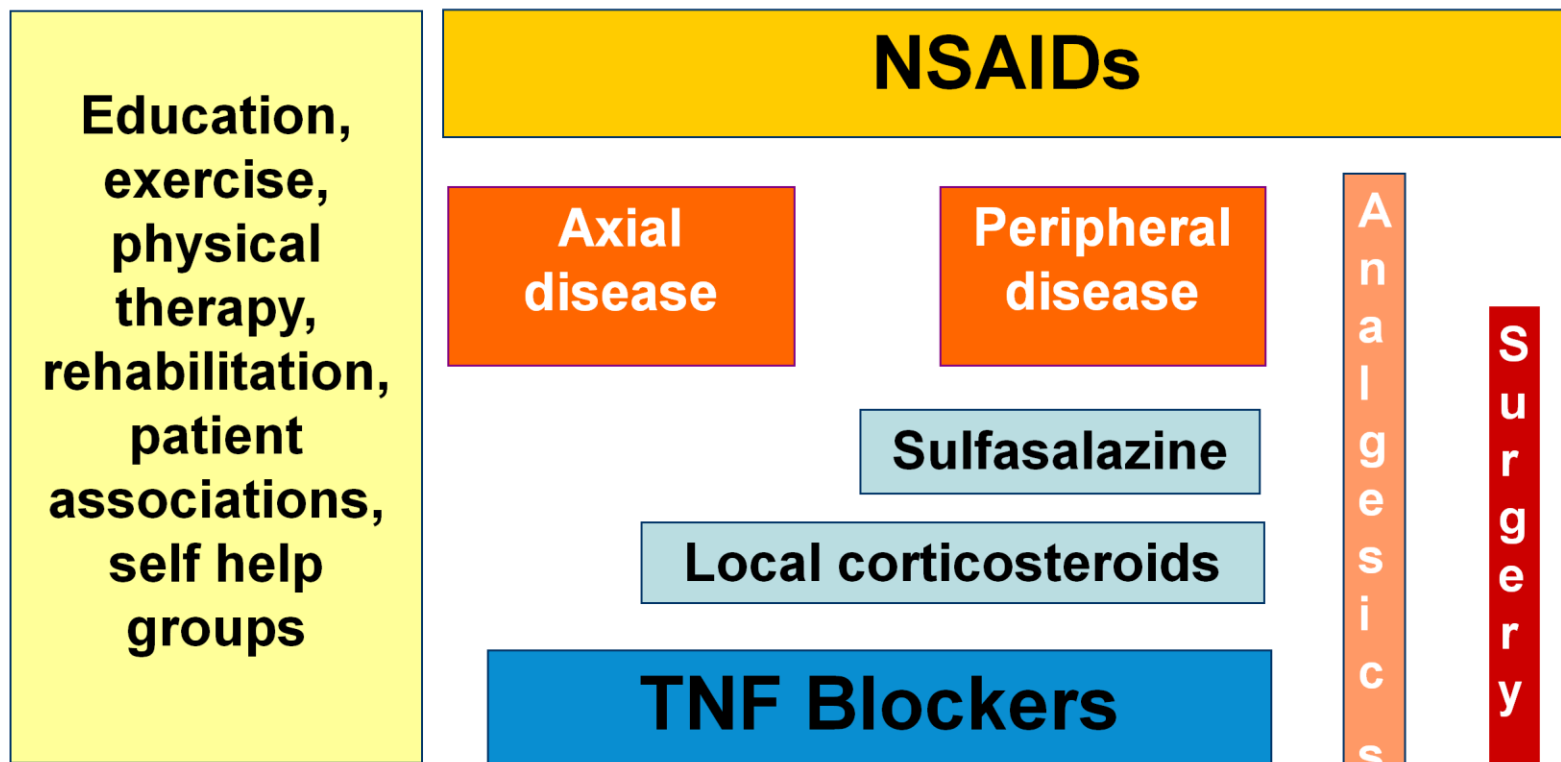
Enthesitis

Dactylitis

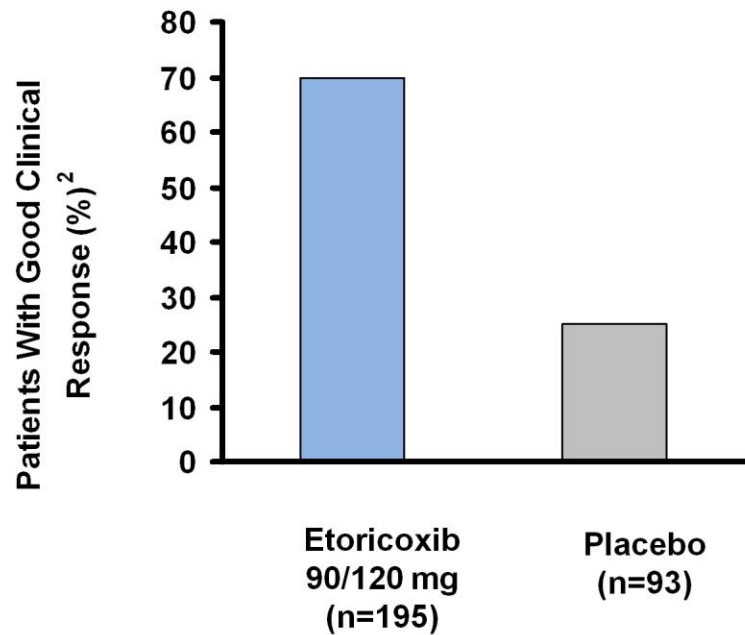
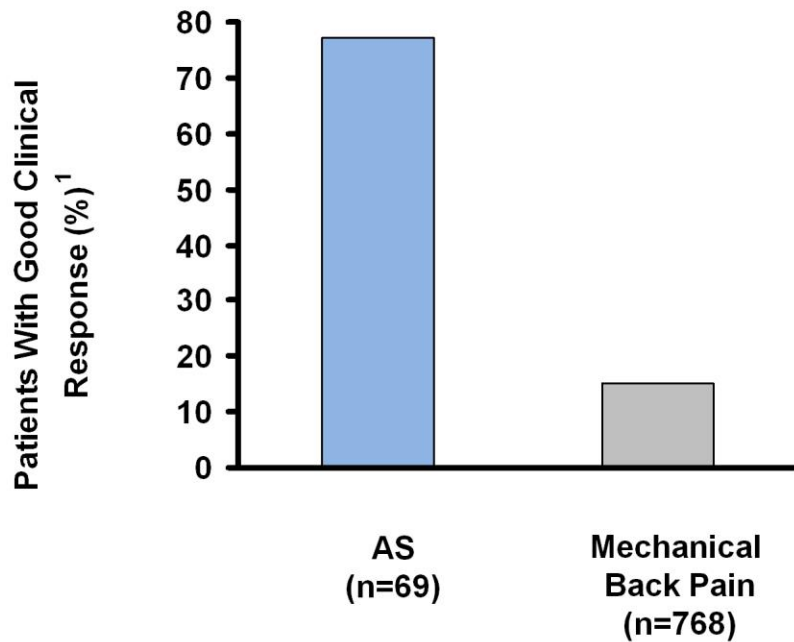
Inflammatory back pain (ever)

Family history of SpA

ASAS/EULAR Recommendations for the Management of Ankylosing Spondylitis



Efficacy of NSAIDs for the Treatment of Patients with Ankylosing Spondylitis

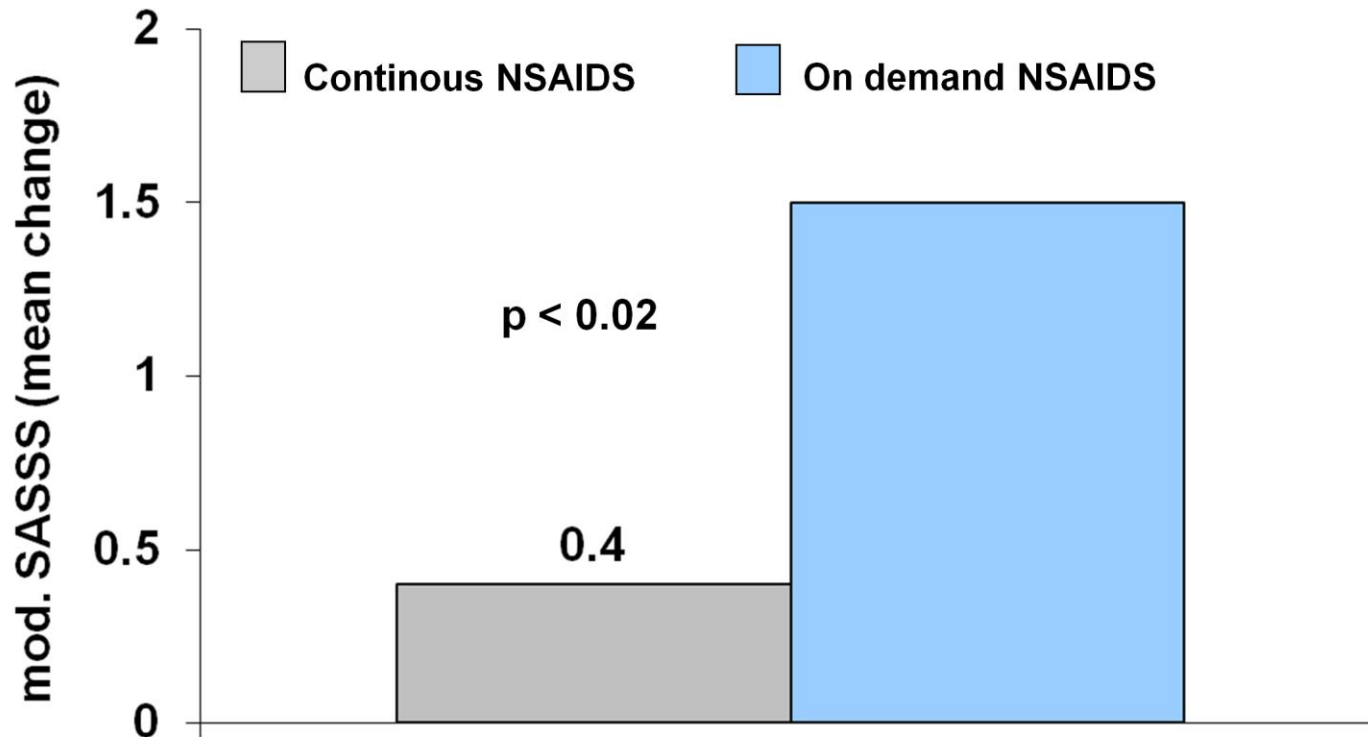


1. Amor B et al. Rev Rheum Engl Ed 1995;62:10-5
2. van der Heijde D et al. Arthritis Rheum 2005;52:1205-15



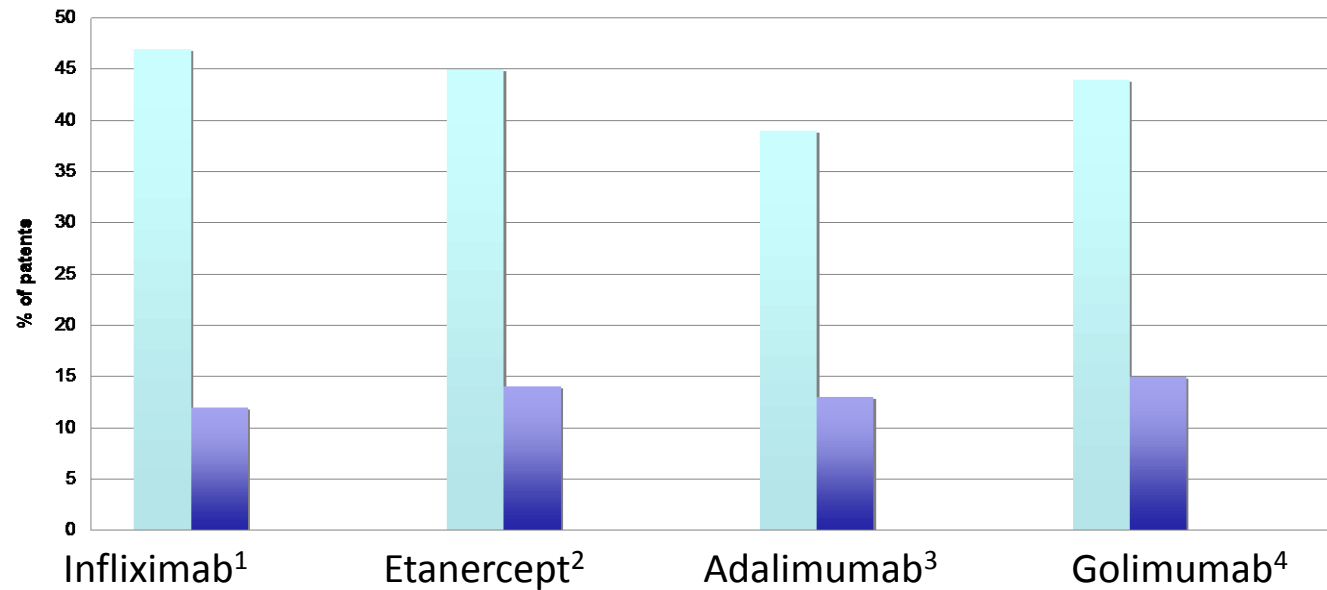
NSAID Therapy in Ankylosing Spondylitis: Radiographic Progression

Less Radiographic Progression (mSASSS*) after 2 Years
of Continuous vs. On Demand Use of NSAIDs (n = 150)



* scored with blinded time sequence

TNF α -Blockers for Ankylosing Spondylitis - ASAS40 response



1. Van der Heijde D et al. *Arthritis Rheum* 2005; 52:582-91
2. Davis JC et al. *Ann Rheum Dis* 2005; 64:1557-62
3. Van der Heijde D et al. *Arthritis Rheum* 2006;54:2136-46
4. Inman RD et al. *Arthritis Rheum* 2008; 58:3402-12

antiTNF funded for AS in NZ

- Adalimumab (Humira) 40mg sc q2/52
- Etanercept (Enbrel) 50mg sc q 1/52
- Infliximab(Remicade) 5mg/kg IV
wks 0,2,6,6/52

- (Golimumab)

Pharmac criteria AS

Patient has a confirmed diagnosis of ankylosing spondylitis for more than six months

and

Patient has low back pain and stiffness that is relieved by exercise but not by rest

and

Patient has bilateral sacroiliitis demonstrated by plain radiographs, CT or MRI scan

and

Patient's ankylosing spondylitis has not responded adequately to treatment with two or more non-steroidal anti-inflammatory drugs (NSAIDs), in combination with anti-ulcer therapy if indicated, while patient was undergoing at least 3 months of an exercise regime supervised by a physiotherapist

and

Patient has limitation of motion of the lumbar spine in the sagittal and the frontal planes as determined by the following Bath Ankylosing Spondylitis Metrology Index (BASMI) measures: a modified Schober's test of less than or equal to 4 cm and lumbar side flexion measurement of less than or equal to 10 cm (mean of left and right)

or

Patient has limitation of chest expansion by at least 2.5 cm below the following average normal values corrected for age and gender (see Notes)

and

A Bath Ankylosing Spondylitis Disease Activity Index (BASDAI) of at least 6 on a 0-10 scale

BASDAI

Bath Ankylosing Spondylitis disease activity index

Please place a mark on each line below to indicate your answer to each question relating to the past week

1. How would you describe the overall level of **fatigue/tiredness** you have experienced?

NONE _____ VERY SEVERE

2. How would you describe the overall level of AS **neck, back or hip pain** you have had?

NONE _____ VERY SEVERE

3. How would you describe the overall level of pain/swelling in joints other than **neck, back, hips** you have had?

NONE _____ VERY SEVERE

4. How would you describe the overall level of **discomfort** you have had from any areas tender to touch or pressure?

NONE _____ VERY SEVERE

5. How would you describe the overall level of **morning stiffness** you have had from the time you wake up?

NONE _____ VERY SEVERE

6. How long does your morning stiffness last from the time you wake up?

0 hrs ½ 1 1½ 2 or more hours

Rx of Axial vs. Peripheral Arthritis

- Axial disease
 - NSAIDS, Physical Rx, antiTNF
- Peripheral Joint Disease
 - NSAIDs,
 - IA Steroids, DMARDs: mtx, SSZ, Lef, CsA
 - antiTNF

Pharmac criteria PsA

Patient has had severe active psoriatic arthritis for six months duration or longer

and

Patient has tried and not responded to at least three months of oral or parenteral methotrexate at a dose of at least 20 mg weekly or a maximum tolerated dose

and

Patient has tried and not responded to at least three months of sulphasalazine at a dose of at least 2 g per day or leflunomide at a dose of up to 20 mg daily (or maximum tolerated doses)

and

Patient has persistent symptoms of poorly controlled and active disease in at least 15 swollen, tender joints

or

Patient has persistent symptoms of poorly controlled and active disease in at least four joints from the following: wrist, elbow, knee, ankle, and either shoulder or hip

and

Patient has a C-reactive protein level greater than 15 mg/L measured no more than one month prior to the date of this application

or

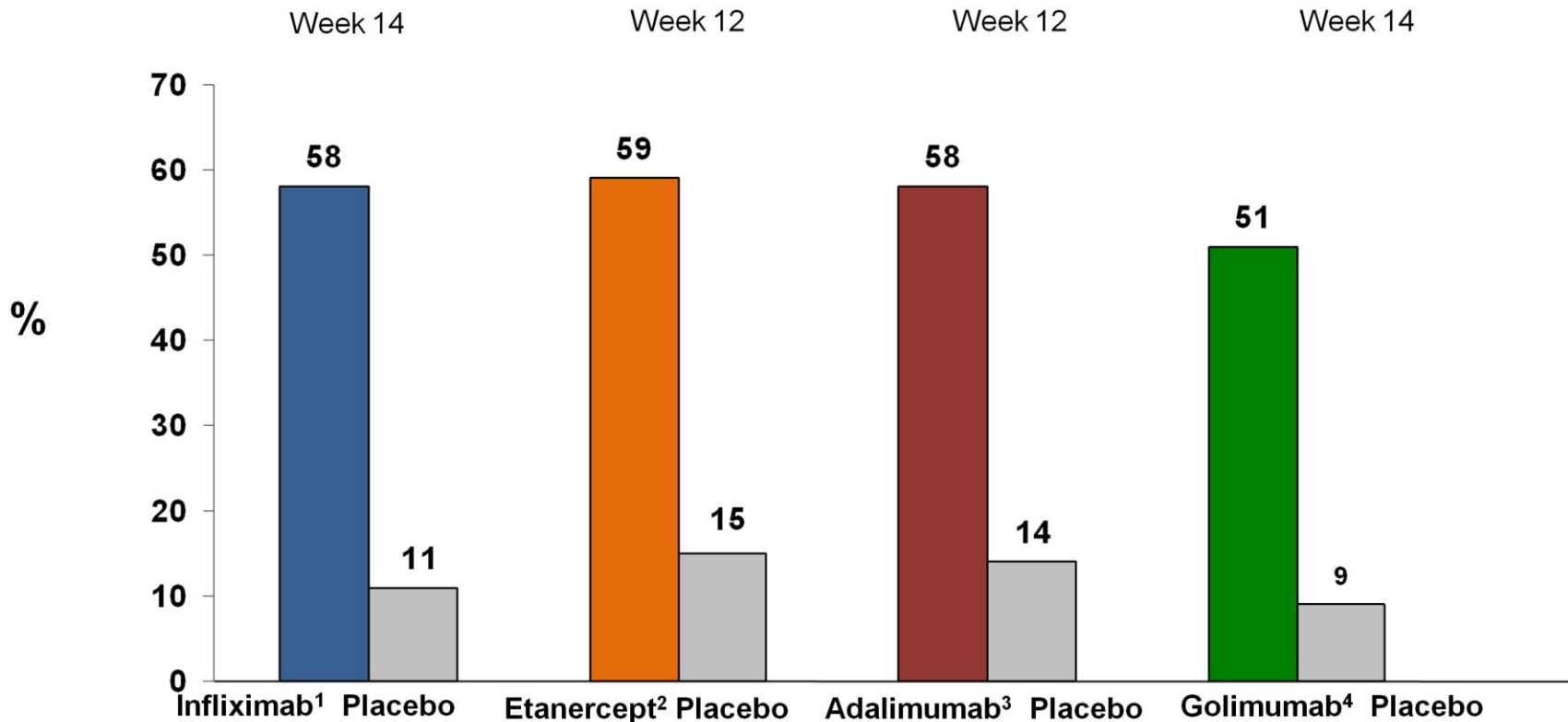
Patient has an elevated erythrocyte sedimentation rate (ESR) greater than 25 mm per hour

or

ESR and CRP not measured as patient is currently receiving prednisone therapy at a dose of greater than 5 mg per day and has done so for more than three months

ACR 20-Response in Patients with Psoriatic Arthritis Treated with TNF α -Blockers*

*Different studies, no head to head comparison

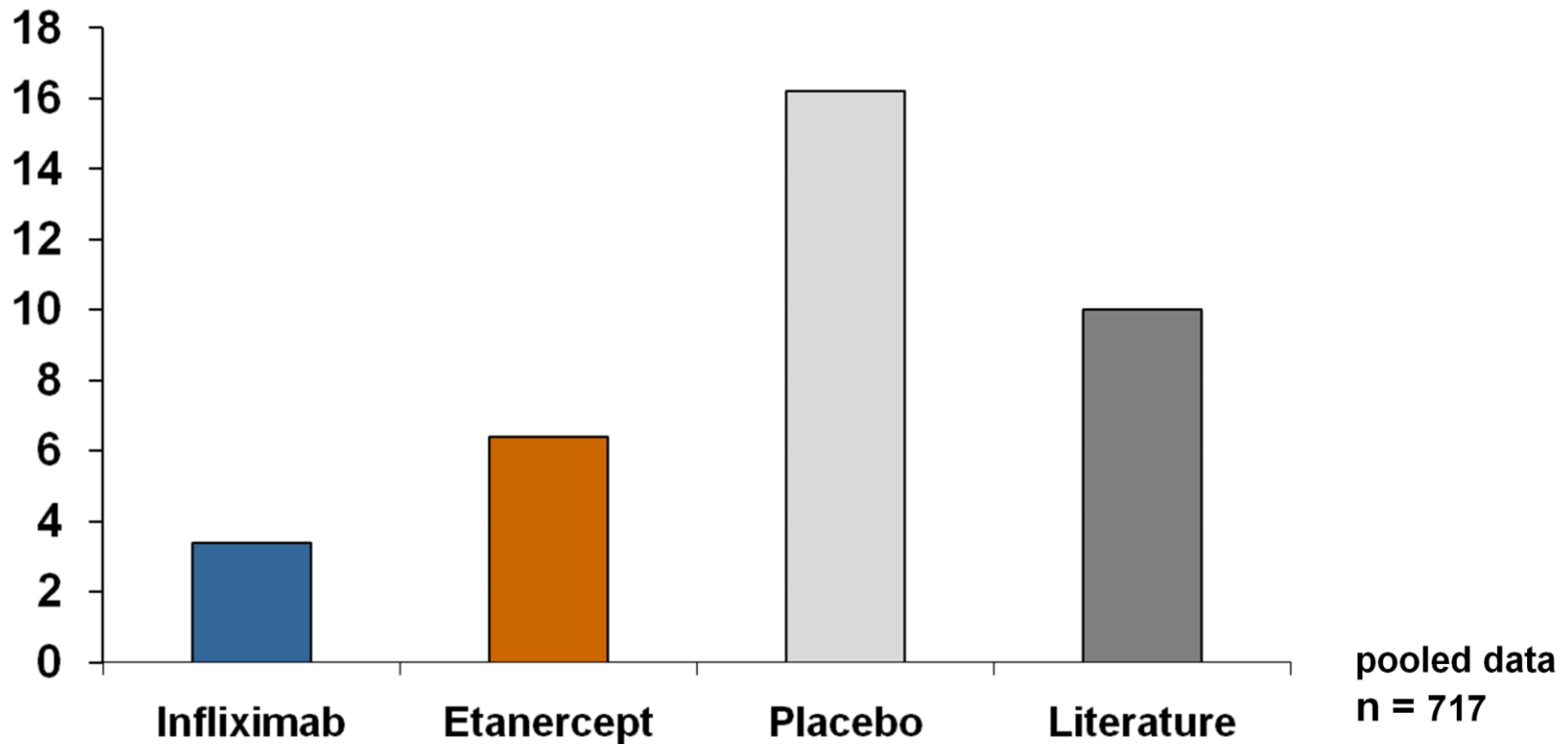


1. Antoni C et al. Ann Rheum Dis 2005;64:1150-57
2. Mease P et al. Arthritis Rheum 2004;50:2264-72
3. Mease P et al. Arthritis Rheum 2005;52:3279-89
4. Kavanaugh A et al. Arthritis Rheum 2009;60:976-86.

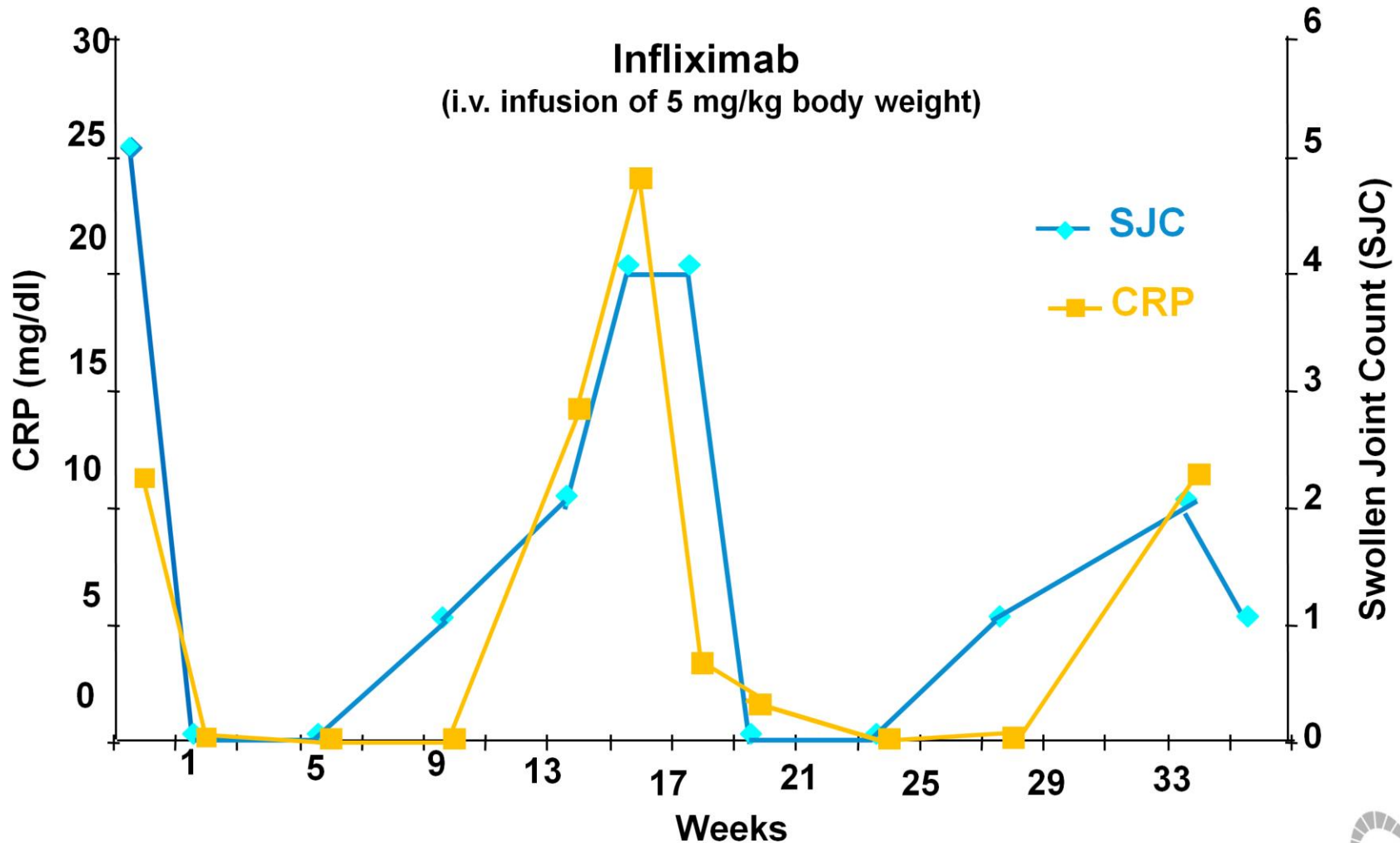


Decreased Incidence of Acute Anterior Uveitis (AAU) in Patients on Anti-TNF α -Therapy

Incidence of AAU/100 patient years



Effect of Anti-TNF α -Therapy on Articular Symptoms in Crohn's Disease



Who and When to Refer AxSpA

- Inflammatory back pain
 - Age at onset <40
 - Insidious onset
 - Improvement with exercise
 - No improvement with rest
 - Night pain (with improvement upon getting up)
 - HLAB27,CRP,FBC,Baseline pelvic XRAY
- Awaiting Appt:
 - trial of regular NSAIDs (+/-PPI), Physiotherapy

Who and when to refer pSpA

- Inflammatory arthritis +/-IBP
 - Uveitis
 - Dactylitis
 - Skin Psoriasis
 - Enthesitis(heel)
 - IBD
 - FamHx SpA

 - Good response to NSAIDs
 - Elevated CRP or low Hb, HLAB27 +

Summary

- SpA group of inflammatory arthropathies with a number of shared features
- Move away from traditional classification criteria with a focus on likely Rx responses
- Effective treatments available in primary care: NSAIDS should be trialled
- Effective treatments in secondary care: early referral may save unnecessary pain and disability via access to DMARDs and antiTNF