

What To Do After A Patient With IBD Develops A Spondyloarthropathy? Dr. Sherry Rohekar, MD, FRCPC

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Ontario Association of Gastroenterology (OAG) 17th Annual International Symposium on Liver and IBD Review

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Conflict of Interest Disclosure

(over the past 24 months)

Commercial or Non-Profit Interest	Relationship
 Spondyloarthritis Research Consortium of Canada International Psoriasis and Arthritis Research Team Group for Assessment and Assessment of Psoriasis and Psoriatic Arthritis Spondyloarthritis Research and Treatment Network 	 Executive Committee Member Member Member Member
Abbvie, Amgen, BioJAMP, BMS, Celgene, Celltrion, Eli-Lilly, Fresenius Kabi, Gilead, Janssen, Merck, Novartis, Organon, Pfizer, Roche, Sandoz, UCB, Viatris	Advisory boards, consultant
Abbvie, Celltrion, Eli-Lilly, Fresnius Kabi, Janssen, Novardis, Pfizer, Sandoz, UCB	Speaker
UCB	Research support

CanMEDS Roles Covered

X	Medical Expert (as <i>Medical Experts</i> , physicians integrate all of the CanMEDS Roles, applying medical knowledge, clinical skills, and professional values in their provision of high-quality and safe patient-centered care. <i>Medical Expert</i> is the central physician Role in the CanMEDS Framework and defines the physician's clinical scope of practice.)
X	Communicator (as <i>Communicators</i> , physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.)
X	Collaborator (as <i>Collaborators</i> , physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.)
X	Leader (as <i>Leaders</i> , physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars, or teachers.)
X	Health Advocate (as <i>Health Advocates</i> , physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.)
X	Scholar (as <i>Scholars</i> , physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.)
X	Professional (as <i>Professionals,</i> physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of
	behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.)



Objectives

Recognize	Recognize the rheumatological manifestations of IBD
Know	Know when a referral to rheumatology is needed (and what you need to tell us!)
Review	Review treatment options

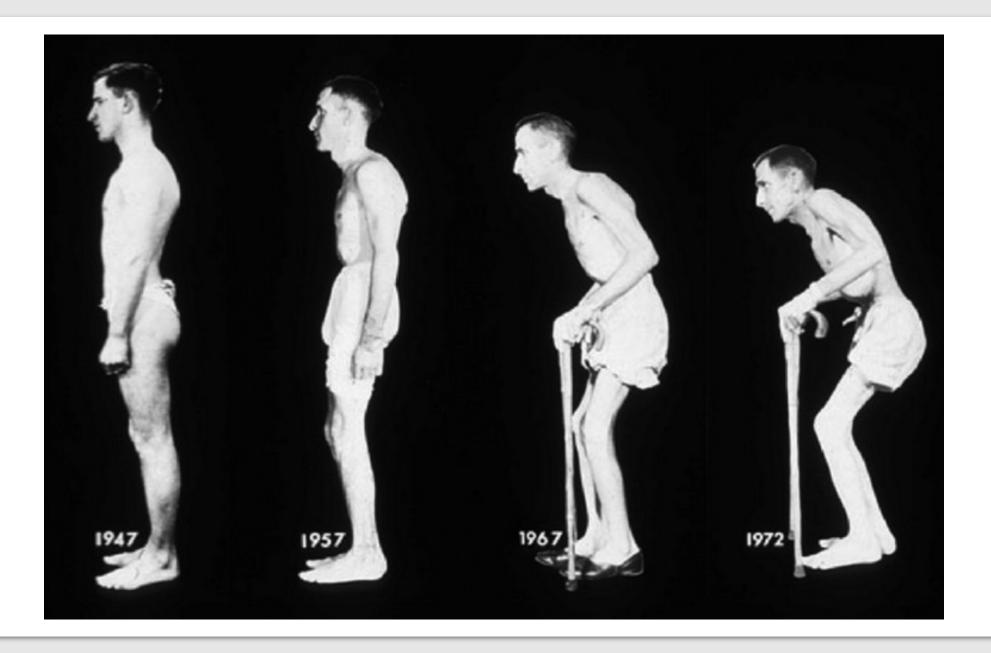
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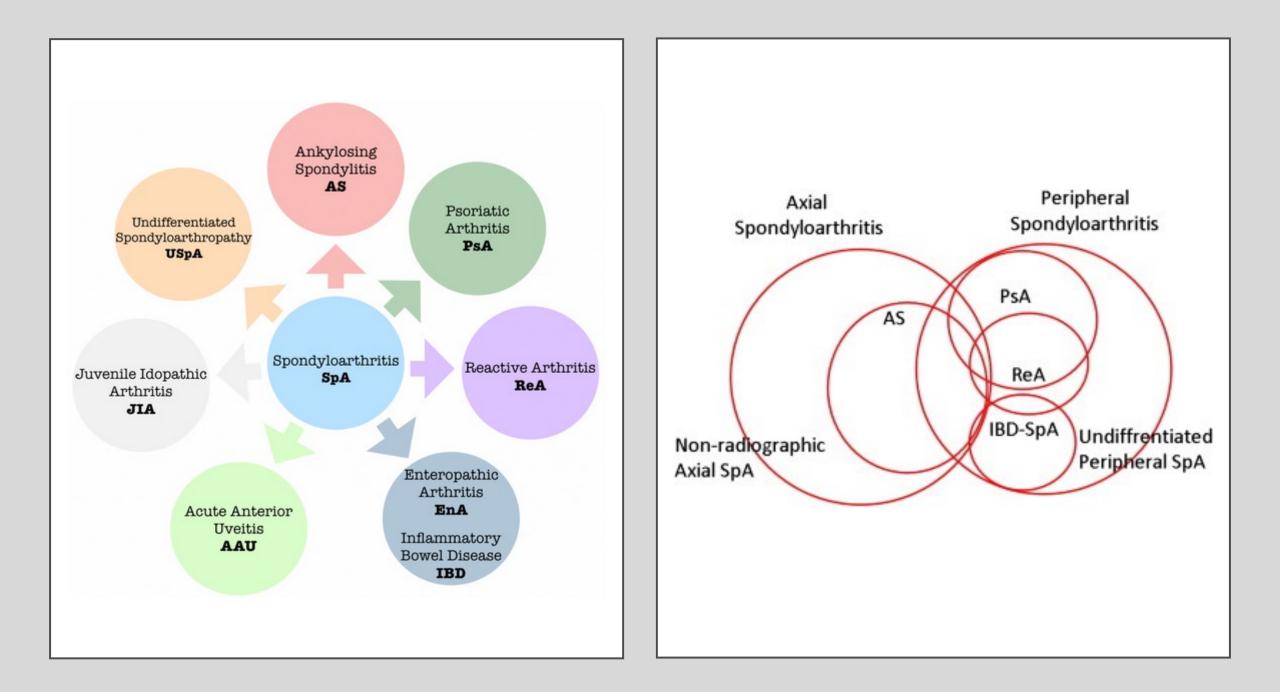
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Spondyloarthritis (SpA)

- Refers to inflammatory changes involving the spine and the spinal joints
- May also present with predominantly peripheral arthritis symptoms with no spinal symptoms!
- Often called "seronegative spondyloarthritis" due to absence of rheumatoid factor







Concept of Spondyloarthritis (SpA)



Predominantly axial SpA

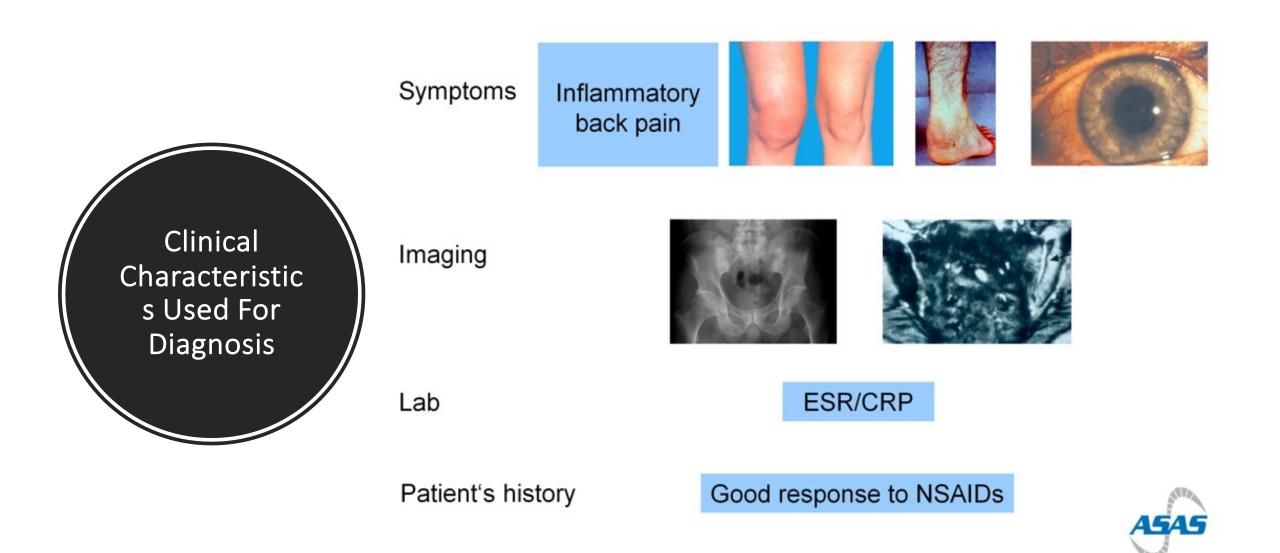
Non-radiographic axial SpA Ankylosing spondylitis



Predominantly peripheral SpA

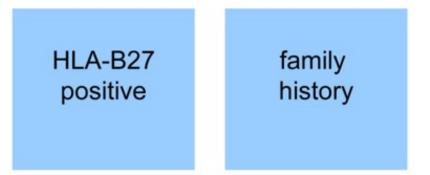
Psoriatic arthritis Reactive arthritis Enteropathic arthritis

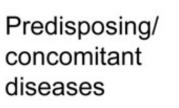
Undifferentiated SpA

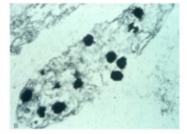




Genetics



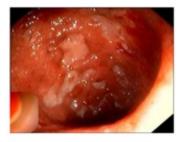




Infection*



psoriasis



Crohn's

*positive staining for Chlamydia in synovial membrane1

ASAS

1. Schumacher HR et al. Arthritis Rheum 1988;31:937-946

You Don't Need Sacroiliitis On X-Rays



Non-radiographic axial SpA (nr-axSpA)

Axial SpA lacking diagnostic SI joint changes on x-ray but having diagnostic MRI findings

More women have nr-axSpA vs. AS



Less abnormal CRP in nr-axSpA vs. AS



Same pain and functional disabilities in both groups

ASAS Inflammatory Back Pain Criteria

Age at onset < 40 years

Insidious onset

Improvement with exercise

No improvement with rest

Pain at night (with improvement upon getting up)

Inflammatory back pain if ≥ 4/5 parameters fulfilled

Sensitivity 79.6% Specificity 72.4%

Epidemiology



Rheumatic manifestations are the most frequent extraintestinal manifestation in IBD

Prevalence 17-39%

Can occur before, simultaneously or after the diagnosis of IBD



Risk factors for enteropathic arthritis:

Active bowel disease

Family history of IBD

Appendectomy

Smoking

Presence of other EIMs such as erythema nodosum or pyoderma gangrenosum

Presentation



Axial

Prevalence 2-16% of IBD patients

Crohn's Disease > Ulcerative Colitis

Male > Female

Sacroiliitis

HLA-B27 +



Peripheral

Prevalence 0.4-34.6% IBD patients Crohn's Disease > Ulcerative Colitis Female > Male Usually affects the lower extremities

Presentation



Type 1

Pauciarticular Asymmetric Acute attacks Coincides with relapse of IBD Strongly associated with other extra-intestinal manifestations



Type 2

Polyarticular Persistent symptoms Erosive Course is independent of IBD Affects both large and small joints Strongly associated with uveitis



Spondylitis

Usually precedes onset of IBD Course is independent of IBD Clinically similar to idiopathic AS Associated with uveitis Strongly associated with HLA-B27

SPaCE Study: Prevalence of Crohn's Disease in Patients with SpA

Design

Prospective cross-sectional study of patients with established SpA

Exclusion: treatment with TNFi, NSAIDs in past month

All patients had video capsule endoscopy (VCE), followed by standard ileo-colonoscopy (IC) with biopsies

63 patients (54% female, mean age 42±13 years) were recruited; 2 patients refused IC and were disqualified.

How many patients with AS had subclinical bowel inflammation on VCE?

a. <10% b. 20% c. 30% d. >40%





Rohekar - Game Code:

SNOWCAT

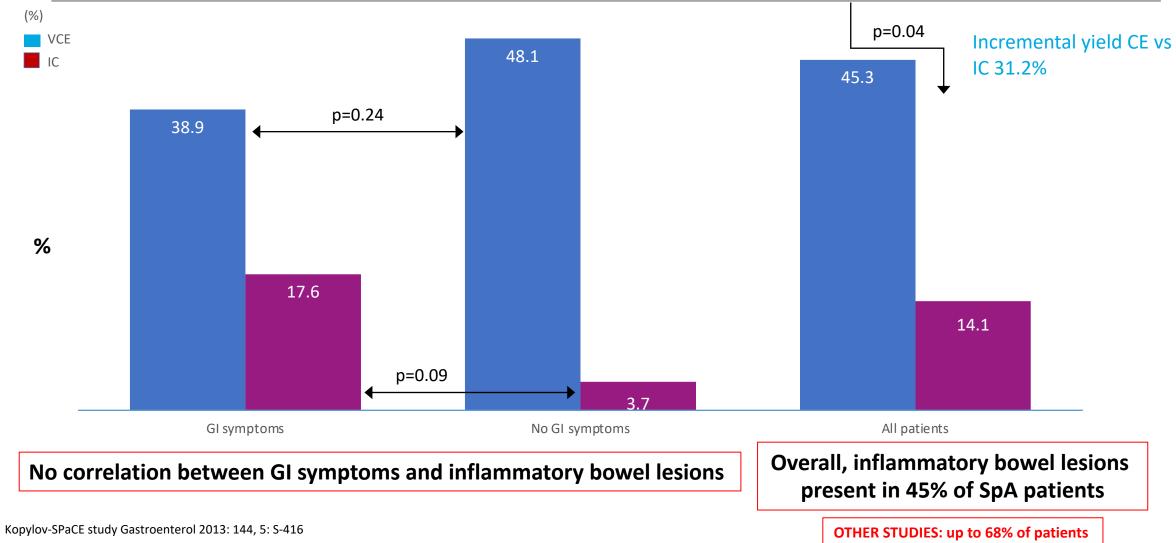
How many patients with AS had subclinical bowel inflammation on VCE?





d. >40%

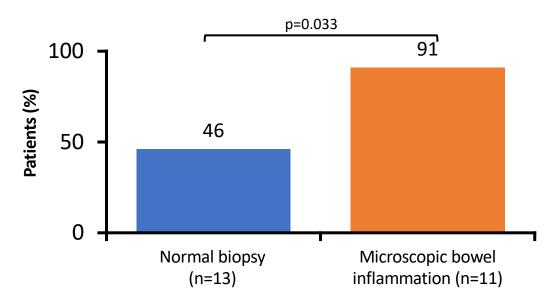
SPaCE Study: Inflammatory Lesions on VCE vs **Ileo-Colonoscopy in SpA**



have microscopic gut inflammation

Microscopic Bowel Inflammation in AS Predicts Response to TNFi

- GIANT cohort
- Presence of gut inflammation positively correlated to TNFi use (p<0.01)
- Presence of microscopic bowel inflammation associated with increased ASDAS response



Clinically important ASDAS improvement after 3 months of TNFi

Patients with axSpA who had microscopic bowel inflammation at baseline responded better to TNFi therapy than those with normal bowel histology

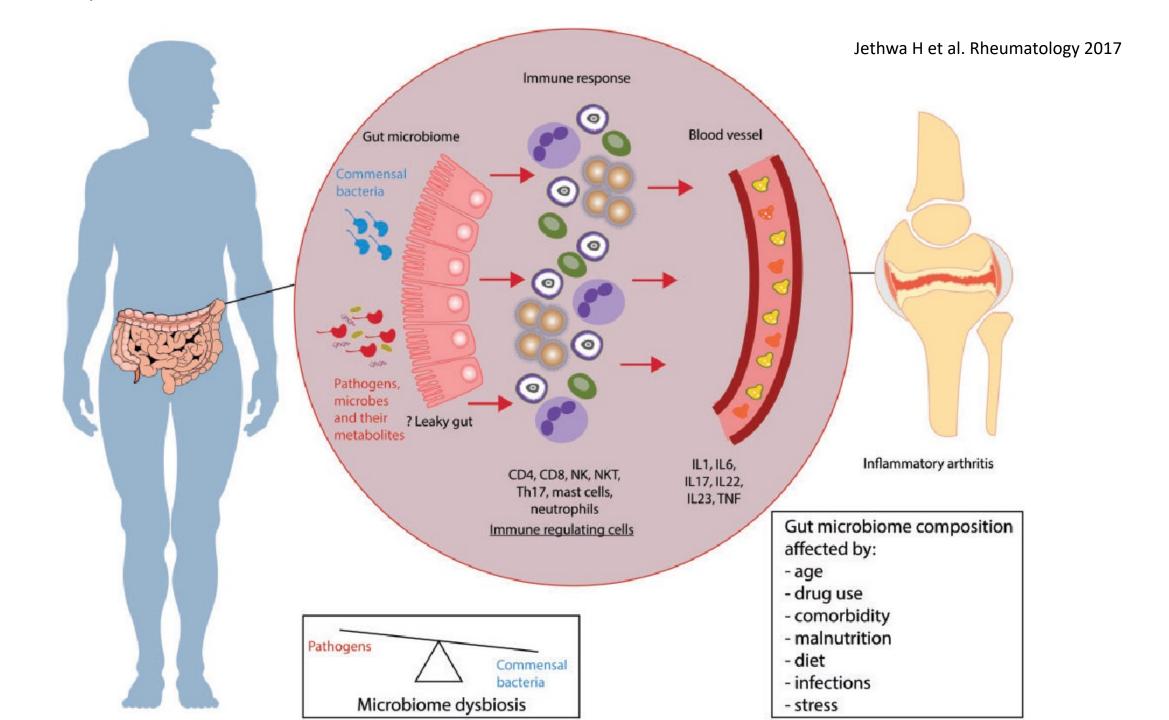
Theories Regarding the Relationship Between the Gut and the Synovium

Spreading of infectious microorganisms Transportation of antigenic determinants

Antigenic crossreactivity

Trafficking of monocytes and lymphocytes in the gut

Hemodynamic aspects of circulation



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Who To Refer

- Chronic back pain, duration ≥ 3 months, back pain onset before 45 years of age and at least one of:
 - Inflammatory back pain
 - HLA-B27 +
 - Sacroiliitis on imaging
 - Peripheral manifestations (arthritis, enthesitis, dactylitis)
 - Extramusculoskeletal manifestations (psoriasis, IBD, uveitis)
 - Positive family history of SpA
 - Good response to NSAIDs
 - Elevated acute phase reactants

Referrals: What Rheumatologists Want to Know



Does the patient have inflammatory back pain?



Are there any Where? **Dactylitis? Enthesitis?**



inflammatory markers up?

Does the patient have psoriasis (including nail changes only)?



Does the patient have uveitis?

What treatment are you using?

Greater response to biologics

Scalp and nail involvement \rightarrow greater incidence of axial SpA

Can the treatment be modified? Can NSAIDs be used?

Referrals: What Rheumatologists Would Appreciate You Ordered





No need for specific SI joint views



If symptoms of axial arthritis, x-rays C-, T-, and L-spine

If symptoms of peripheral arthritis, x-rays hands/wrists and feet/ankles



HLA-B27

Referral to ophthalmology as needed



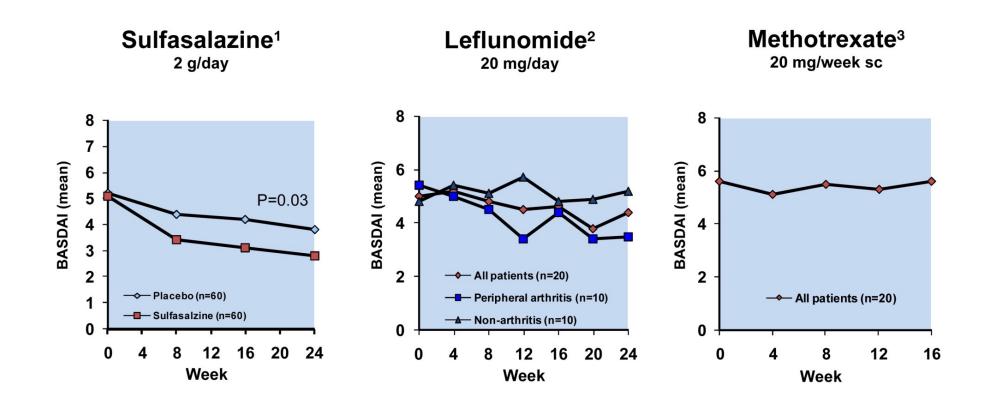
Psoriasis

Hidradenitis suppurativa

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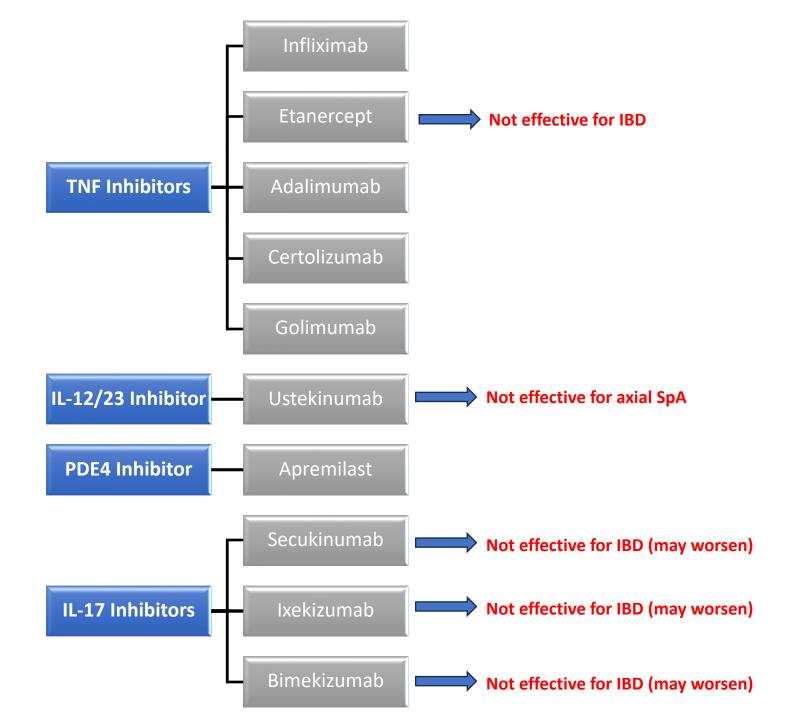
Conventional DMARDs Are Largely Not Effective for the Treatment of Patients with AS



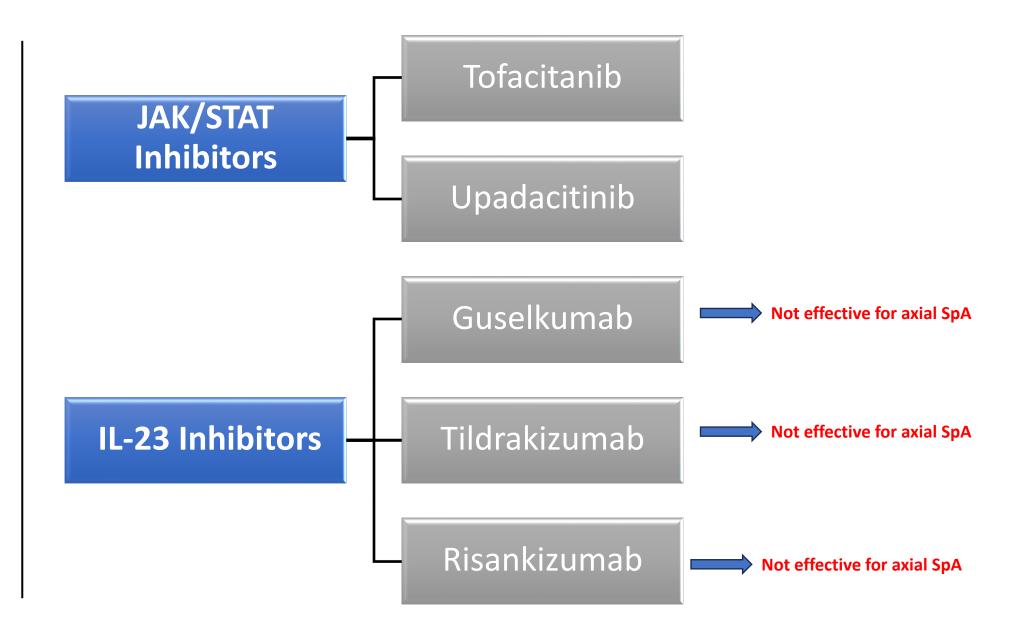
Braun J et al. Ann Rheum Dis 2006;65:1147-53
 Haibel H et al. Ann Rheum Dis 2005;64:296-8
 Haibel H et al. Arthritis Rheum 2006;54:678-81



Ч× SpA Advanced



Ч× SpA Advanced



Treatment Notes

Patients with axial disease are often the hardest to treat due to limited options	Combining vedolizumab with another biologic	Beware of paradoxical psoriasis
Increased use of IL-17 inhibitors in rheumatology; may worsen or unmask IBD	Combining systemically immunosuppressive biologics?	Partnering with a rheumatologist is key!

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Thank you.

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