

Managing **PSORIATIC ARTHRITIS** in Specialty Practice:

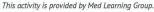
New Therapies, Guidelines and Treatment Targets During the COVID-19 Pandemic



FRIDAY FEBRUARY 26, 2021

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Professor of Rheumatology and Medicine University of California, Los Angeles, CA University of Washington, Seattle, WA University of Florence, Floren<u>ce, Italy</u>



The RELIEF Initiative Managing Psoriatic Arthritis in Specialty Practice: New Therapies, Guidelines and Treatment Targets During the COVID-19 Pandemic

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PROGRAM OVERVIEW

This case-based live virtual activity will cover the treatment and management of patients with psoriatic arthritis.

TARGET AUDIENCE

This activity is intended for rheumatologists and rheumatology advanced practice providers (NPs and PAs) who are involved in the care and treatment of patients with psoriatic arthritis.

Learning Objectives

- Identify the risk of COVID-19-related infections in PsA, along with their impact on therapeutic choice
- Pursue strategies to optimize PsA therapy in the COVID-19 era while minimizing risks and adverse events
- Assess methods for better evaluating and communicating with patients through telemedicine and virtual platforms
- Apply new ways to initiate and manage PsA treatment, monitor PsA disease progression and address adverse events via virtual communication

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Purpose: This program would be beneficial for nurses involved in the care of patients with psoriatic arthritis. **CNE Credits:** 1.0 ANCC Contact Hour.

CNE ACCREDITATION STATEMENT

Ultimate Medical Academy/CCM is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation. Awarded 1.0 contact hour of continuing nursing education of RNs and APNs.

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CME Content Review

The content of this activity was independently peer-reviewed. The reviewer of this activity has nothing to disclose.

CNE Content Review

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- 1. Read the CME/CNE information and faculty disclosures.
- 2. Participate in the live virtual activity.
- 3. Submit the evaluation form to Med Learning Group.

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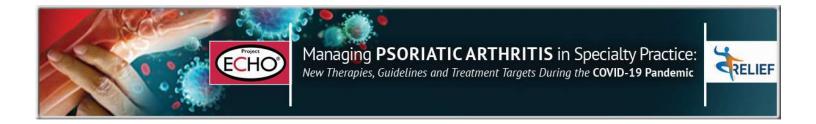
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AGENDA

Introduction/Background

- Epidemiology and pathophysiology
- COVID-19 background
- COVID-19 and rheumatology: implications for assessment and evaluation
- Disease domains and joint manifestations
- Identification and diagnosis

Medical Management of PsA in the COVI-19 Era

- 2019 ACR guidelines and their application to practice
- Therapeutic considerations in COVID-19
- Conventional agents
- Biologics, small molecules:
 - Inhibitors of TNF, IL-12/23, IL-17A, IL-23, phosphodiesterase 4, T cell costimulation, and janus kinases
- Evolving standards of treatment in the COVID-19 era
- Treating-to-target: establishing goals of therapy

Telemedicine and Patient Considerations in the COVID-19 Pandemic

- Early diagnosis and initiation of treatment for long-term success
- Effect of management decisions on patient QoL
- Lowering disease burden (personal, societal, economic) through effective treatment
- Telemedicine: the changing face of rheumatology consults during the pandemic
- Case Study(s)

Conclusions and Q/A

Managing Psoriatic Arthritis in Specialty Practice: New Therapies, Guidelines and Treatment Targets During the COVID-19 Pandemic

Daniel E. Furst, MD

Professor of Rheumatology University of California in Los Angeles University of Washington, Seattle, Washington University of Florence, Florence, Italy

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- During the course of this lecture, Dr Furst will <u>discuss the use of medications for</u> <u>both FDA-approved and non-approved indications</u>

This educational activity is supported by an educational grant from Lilly.

Learning Objectives

- Identify the <u>risk of COVID-19-related infections in psoriatic arthritis (PsA)</u>, along with their impact on therapeutic choice
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COVID-19-associated Hyperinflammation Clinical deterioration in COVID-19 often occurs 7-10 days after CD8+ T cell NK cell symptom onset when viral titres NK cell T cell decline exhaustio exhaustion CD4+ T cell B cell IL-2. TNF-α. IFN-v Pathology likely driven T cell activation Lymphocyte dysfunction Lymphopenia by inflammation rather than direct viral injury Increased production of Abnormalities of Increased antibodies rtes and mo cvtokines • Elevated inflammatory markers in 000 COVID-19 patients are significantly Neutrophil Monocyte associated with risk of next-day IL-1RA, IL-2, IL-6, IL7 IL-8, IL-9, IL-10, IL-17, TNF-α, escalation of respiratory support IFN-y, G-CSF, GM-CSF, IP10, MCP1, MIP1a, etc. Eosinophil Basophil lgG Total antibodie or death (HR, 2.24) Manson JJ, et al. Lancet Rheumatol. 2020;2:e594-e602. Yang L, et al. Signal Transduct Target Ther. 2020;5:128. 5

Concerns During the COVID-19 Pandemic

- Patients with PsA are not at increased risk of death, invasive ventilation, ICU admission, or serious complications from COVID-19
 - Impact of PsA therapies on COVID-19 disease severity is unknown
- Risk of poor outcomes from COVID-19 appears to be related primarily to general risk factors such as age and comorbidities

Mortality in an Observational Study of COVID-19 Cases in China (n = 72,314)		
Characteristics	Deaths (%)	
All confirmed cases	2.3	
Critical cases	49.0	
 ≥80 years of age 	14.8	
Cardiovascular disease	10.5	
• 70-79 years of age	8.0	
Diabetes	9.2	
 Chronic respiratory disease 	8.0	
Hypertension	6.0	
Cancer	7.6	

Conclusion: Increased % with age>=70 yrs, lung disease,CV/HBP, Diabetes, cancer

Mikuls TR, et al. Arthritis Rheumatol. 2020;72:1241-1251. Pablos JL, et al. Ann Rheum Dis. 2020;79:1544-1549. Wu Z, et al. JAMA. 2020;323:1239-1242. Wollina U, et al. Dermatol Ther. 2020;33:e13743.

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Impact of PsA Comorbidities on COVID-19 Outcomes

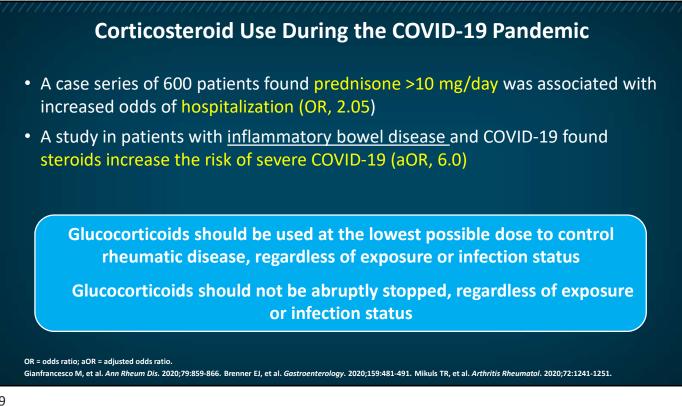
- PsA is associated with a higher incidence of CV disease, metabolic syndrome, obesity, diabetes, dyslipidemia, and inflammatory bowel disease
- Risk of poor outcomes for COVID-19 appears to be related to general risk factors such as older age, male sex, and comorbidities (obesity, diabetes, hypertension, CV or lung disease)

Variable	Relative risk from COVID-19 (95%CI)	P value
Age over 60 years	1.99 3.70 6.93 2.30 4.04 7.08	0.841
Male sex	1.39 2.16 3.35 1.09 (1.58 2.29	0.286
Obesity	0.72 (1.22 = 2.06 1.10 (1.62 = 2.36	0.393
Diabetes	0.53 0.95 1.70 1.34 (1.93 2.79	0.038
Hypertension	1.07 (1.64) 2.53 1.49 (2.27) 3.46	0.290
CV disease	0.90 (1.44 2 .33 2.04 2 .92 4 .17	0.020
Lung disease	1.00 (1.57) 2.46 1.19 (1.74) 2.55	0.723
	0 2 4 6 8	

CV = cardiovascular; IBD = inflammatory bowel disease Pablos JL, et al. *Ann Rheum Dis*. 2020;79:1544-1549.

Treatment of Rheumatic Disease in the Absence of COVID-19 Infection or Exposure		• All recommendations <u>based on very low</u>
HCQ/CQ, SSZ, MTX, LEF, immunosuppressants (tacrolimus, CSA, MMF, AZA), biologics, JAK inhibitors, NSAIDs	Continue therapy	quality of evidence and moderate to high consensus
Low-dose corticosteroids	May be started if clinically indicated (<10 mg prednisone equivalent/day)	 Recommendations are for rheumatic disease in general and are not subdivided
Following SA	RS-CoV-2 Exposure	by patient disease. There are no specific
HCQ/CQ, SSZ, NSAIDs	May be continued	recommendations for PsA.
Immunosuppressants (tacrolimus, CSA, MMF, AZA), non-IL-6 biologics, JAK inhibitors	Stop therapy temporarily, pending a negative COVID-19 test or 2 weeks of symptom-free observation	 May reinitiate therapy <u>within 7-14 days of</u> <u>symptom resolution</u> for those with mild COV
IL-6 inhibitors	May be continued in select circumstances	19
Documented or	presumptive COVID-19	
HCQ/CQ	May be continued	 Consider reinitiating therapy in <u>10-17 days a</u>
SSZ, MTX, LEF, non-IL-6 biologics, immunosuppressants, and JAK inhibitors	Withhold or stop therapy	 <u>positive PCR results if asymptomatic</u>COVID-: Timing of reinitiating therapy after severe
NSAIDs	Should be stopped in patients with severe respiratory symptoms	COVID-19 should be made on case-by-case basis

mofetil; MTX = methotrexate; NSAID = nonsteroidal anti-inflammatory drug; SSZ = sulfasalazine Mikuls TR, et al. Arthritis Rheumatol. 2020;72:1241-1251.



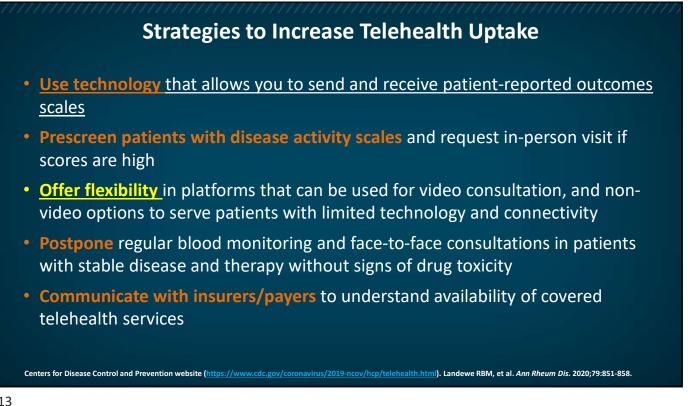
ACR COVID-19 Vaccination Guidance for Rheumatic Patients

Medication	Timing Considerations for Immunomodulatory Therapy and Vaccination
Hydroxychloroquine; IVIG; glucocorticoids, prednisone-equivalent dose <20mg/day	No modifications to either immunomodulatory therapy or vaccination timing
SSZ; LEF; MMF; AZA; Cyclophosphamide (oral); TNFi; IL-6R; IL-1; IL-17; IL-12/23; IL- 23; Belimumab; oral calcineurin inhibitors; Glucocorticoids, prednisone-equivalent dose ≥20mg/day	No modifications to either immunomodulatory therapy or vaccination timing
Methotrexate	Hold MTX 1 week after each vaccine dose, for those with well-controlled disease; no modifications to vaccination timing
JAKi	Hold JAKi for 1 week after each vaccine dose; no modification to vaccination timing
Abatacept SQ	Hold SQ abatacept both one week prior to and one week after the <u>first</u> COVID-19 vaccine dose (only); no interruption around the second vaccine dose
Abatacept IV	Time vaccine administration so that the first vaccination will occur four weeks after abatacept infusion (i.e., the entire dosing interval), and postpone the subsequent abatacept infusion by one week (i.e., a 5-week gap in total); no medication adjustment for the second vaccine dose
Cyclophosphamide IV	Time CYC administration so that it will occur ~1 week after each vaccine dose, when feasible
Rituximab	Assuming that patient's COVID-19 risk is low or is able to be mitigated by preventive health measures (e.g., self-isolation), schedule vaccination so that the vaccine series is initiated approximately 4 weeks prior to next scheduled rituximab cycle; after vaccination, delay RTX 2-4 weeks after 2nd vaccine dose, if disease activity allows
ACR COVID-19 Vaccine Clinical Guidance Summary. Avai Summary.pdf.	lable at: https://www.rheumatology.org/Portals/0/Files/COVID-19-Vaccine-Clinical-Guidance-Rheumatic-Diseases-

Incorporating Telehealth into Your Practice

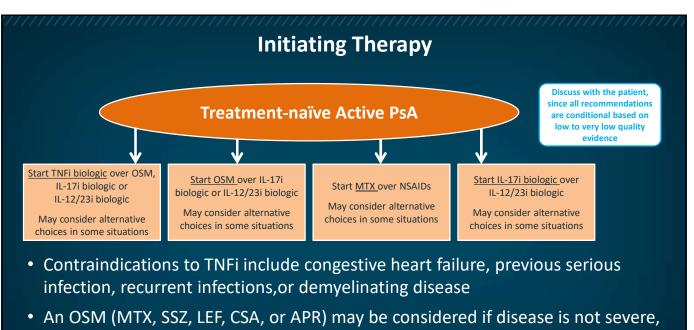
- <u>Schedule enough time</u>. Telehealth consults often take longer than expected to find the required information
- Train staff in triaging symptom burden. Identify patients with unstable symptoms who require an in-person appointment
- Educate on self-management. Patients may not come in for a follow-up appointment for weeks or months.
 - Teach about warning signs that require prompt evaluation
 - Educate about how to manage symptoms remotely
 - Ensure patients have enough medication
- Clarify expectations of what can or cannot be done remotely
 - Recognize patients who require in-person evaluation

Centers for Disease Control and Prevention website (https://www.cdc.gov/coronavirus/2019-ncov/hcp/telehealth.html). Landewe RBM, et al. Ann Rheum Dis. 2020;79:851-858.



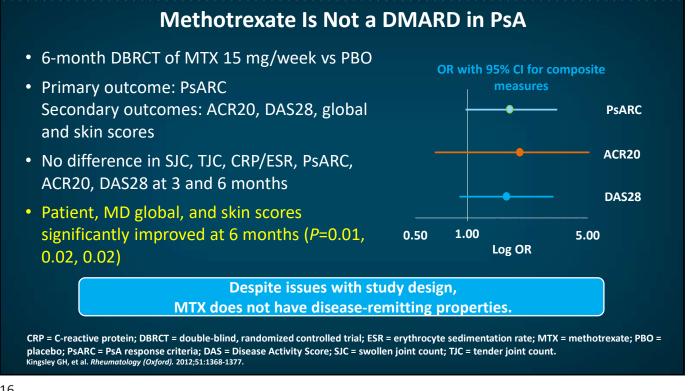






oral therapy is preferred, or patient does not want to start a biologic

APR = apremilast; CSA = cyclosporine; IL = interleukin; LEF = leflunomide; MTX = methotrexate; NSAID = nonsteroidal anti-inflammatory drug; OSM = oral small molecule; SSZ = sulfasalazine; TNFi = tumor necrosis factor-alpha inhibitor. Singh JA, et al. Arthritis Rheumatol. 2019;71:5-32.



CSA in Psoriasis and PsA

- CSA 2.5-5 mg/kg/day yielded <u>PASI75 response in 28% to 97% of</u> <u>patients</u>
- Remission could be maintained at CSA dose of at least 3mg/kg/day
- More than 50% of patients treated with CSA may have an <u>increase in</u> <u>serum creatinine value >30</u>% of baseline if treatment is prolonged for 2 years

24 Week Randomized Open NSAID* Controlled Study of Cyclosporin A in PsA (N=99)

	P-value	Significance CSA vs NSAID*
ACR50	0.02	+
ACR70	0.05	+
Swollen Joint Count	0.05	+
Tender Joint Count	0.01	+
Pain	0.002	+
Patient Global improved ≥1 point	0.04	+
MD Global improved ≥1 point	0.01	+

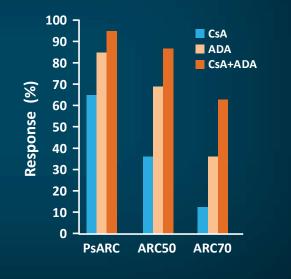
*NSAID +/- prednisone 5 mg daily +/- analgesics

Salvanarani C, et al. J Rheum. 2001;28:2274-2282. Maza J-H, et al. JEADV. 2011;25(2):19-27.

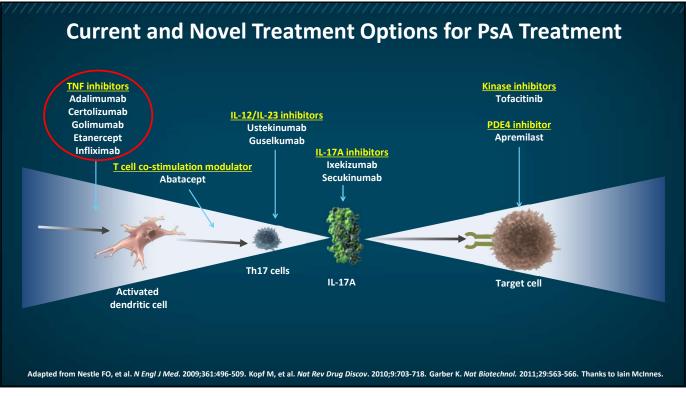
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Adalimumab Or Cyclosporine as Monotherapy or Combination For Severe PsA: A Prospective, 12-month, Observational Study

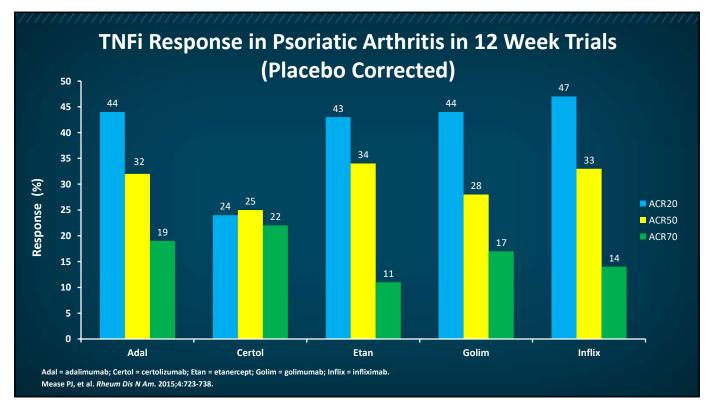
- A 12-month, observational study of 170 TNFiand cyclosporine-naïve patients
- Patients who received adalimumab (40mg Q2W) (n=57), cyclosporine (2.5-3.75 mg/kg/day) (n=58), or their combination (n=55)
- MTX-IR (25 mg weekly or less, for a minimum of 6 months)
- Assessments: 0.5, 1, 2, 3, 4, 5, 6, 8, 10, and 12 months
- Combination therapy improved PASI50 response rates but NOT beyond the effect of cyclosporine monotherapy (not shown)

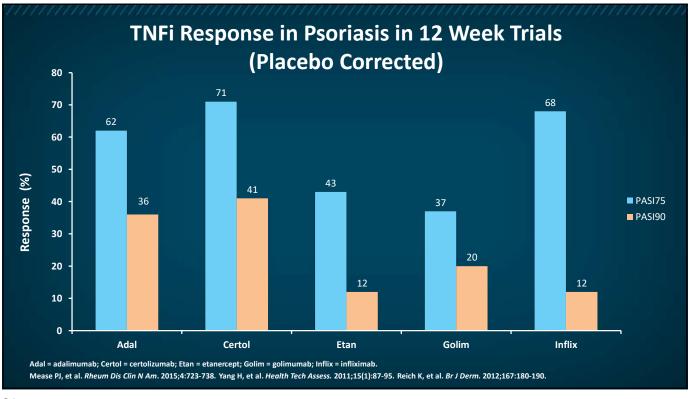


MTX-IR = methotrexate inadequate response Karanikolas GN, et al. *J Rheumatol*. 2011;38:2466-2474.

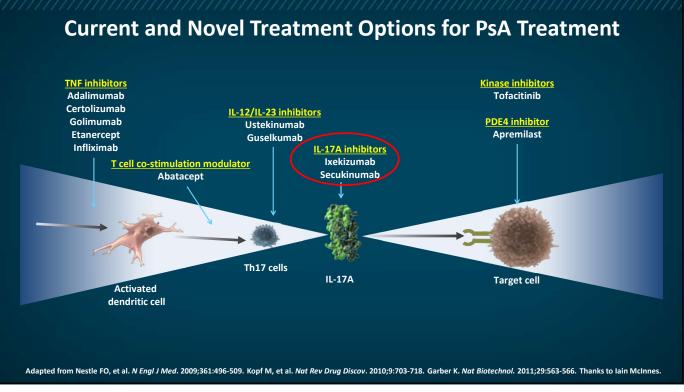




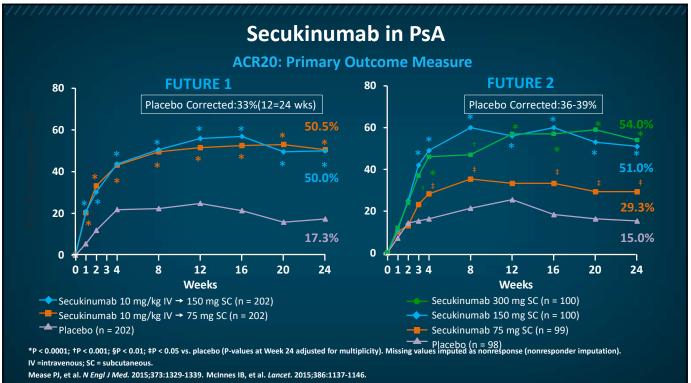


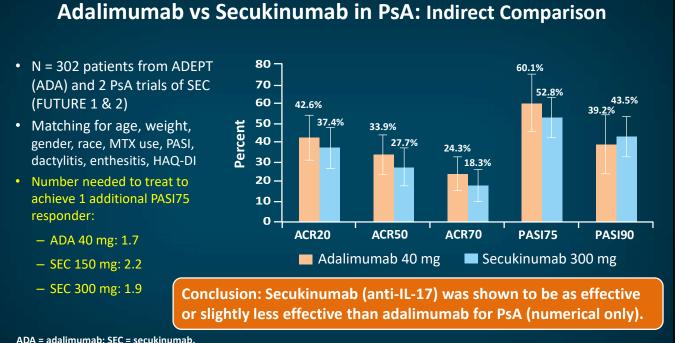


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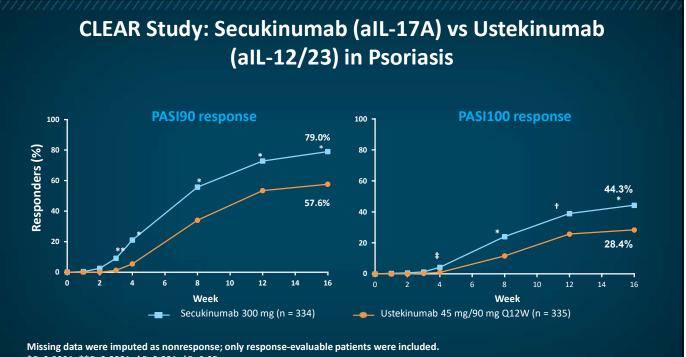






ADA = adalimumab; SEC = secukinumab. Betts KA, et al. Arthritis Rheumatol. 2015;67(10): Abstract 2868. Strand V. Rheumatol Ther. 2017;4:349-362.

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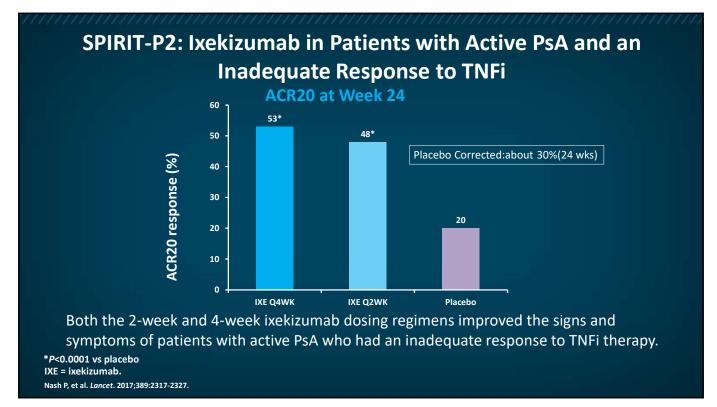


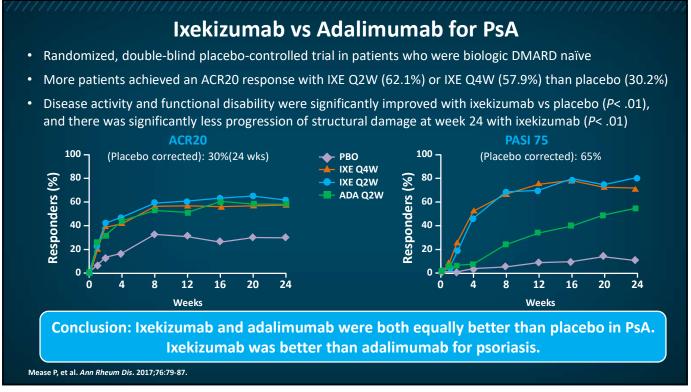
P*<0.0001; *P*=0.0001; †*P*<0.001; ‡P<0.05

Comm	on Adverse	e Events ¹		
	SEC 300 mg	SEC 150 mg	Placebo	Warnings ²
URTI	4 (4%)	8 (8%)	7 (7%)	1. Infection
Nasopharyngitis	6 (6%)	4 (4%)	8 (8%)	2. Tuberculosis
Diarrhea	2 (2%)	2 (2%)	3 (3%)	
Headache	7 (7%)	4 (4%)	4 (4%)	3. Hypersensitivity
Nausea	3 (3%)	4 (4%)	4 (4%)	reactions
Sinusitis	1 (1%)	2 (2%)	1 (1%)	4. New or worsen
Psoriatic arthropathy	0	3 (3%)	2 (2%)	inflammatory
Urinary tract infection	2 (2%)	4 (4%)	4 (4%)	bowel disease
Hematuria	2 (2%)	3 (3%)	1 (1%)	
Vomiting	2 (2%)	2 (2%)	1 (1%)	

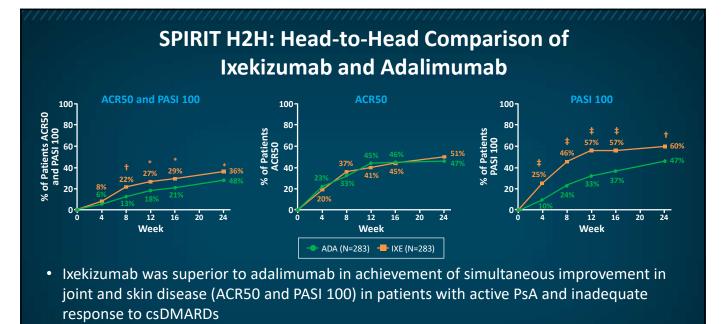
URTI = upper respiratory tract infection.

1. McInnes IB, et al. Lancet. 2015;386:1137-1146. 2. Secukinumab (Cosentyx[®]) PI 2017 (www.pharma.us.novartis.com/sites/www.pharma.us. novartis.com/files/cosentyx.pdf).





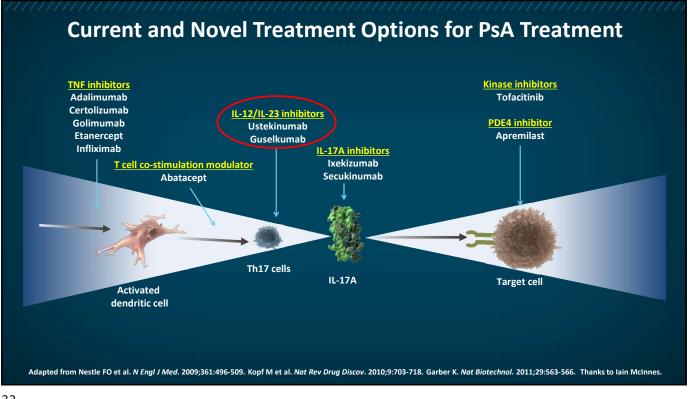
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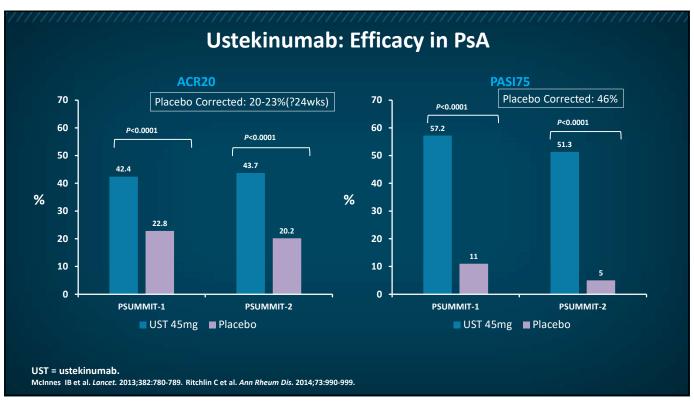


Ixekizumab was non-inferior to adalimumab for ACR50 response (IXE: 51%, ADA: 47%) but superior for PASI 100 response (IXE: 60%, ADA:47%, P= .001)
 Mease PJ, et al. Ann Rheum Dis. 2020;79:123-131.

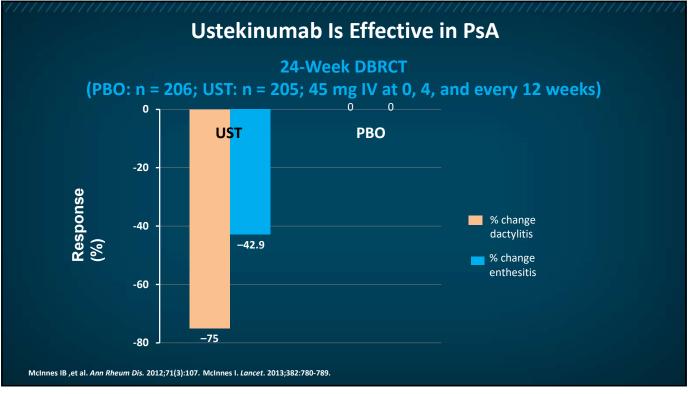
	kekizumab: A		
kokizumo	h Adverse Even	to.	
IXekizuma	b Adverse Even	lS	
	IXE 80 mg (n=1167)	Placebo (n=791)	Warnings 1. Infection 2. Tuberculosis
Injection site reactions	196 (17%)	26 (3%)	3. Hypersensitivity
Upper respiratory tract infections	163 (14%)	101 (13%)	reactions 4. Inflammatory bowel
Nausea	23 (2%)	5 (1%)	disease
Tinea infections	17 (2%)	1 (<1%)	

Ixekizumab (Taltz®) prescribing information (https://pi.lilly.com/us/taltz-uspi.pdf)









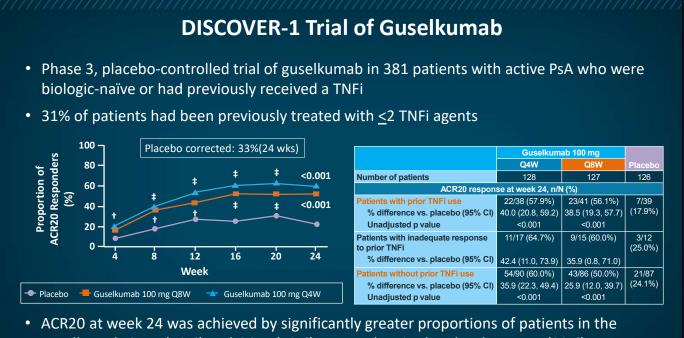
Ustekinumab Adverse Events

- Meta-analysis of 9626 patients in 30 RCT of 16 weeks duration
- AEs and SAEs include infections, cough, headache, upper respiratory tract infection, nausea, injection site reactions, CV event, cancer, and death

Adverse events	UST	Placebo	P value
Infections	1210 (19.7%)	588 (17.1%)	<0.01
Nasopharyngitis	318 (5.2%)	162 (4.7%)	0.31
Cough	21 (2.3%)	25 (4.8%)	0.01
Upper respiratory tract infection	150 (3.2%)	201 (7.1%)	<0.001
Nausea	113 (4.8%)	58 (5.0%)	0.80
Headache	302 (6.1%)	141 (5.1%)	0.06
Infusion/Injection site reaction	149 (3.9%)	44 (2.0%)	<0.001
Malignancy	3 (0.1%)	5 (0.2%)	0.16
Death	5 (0.1%)	1 (0.1%)	0.43
CV	7 (0.2%)	4 (0.2%)	1.00

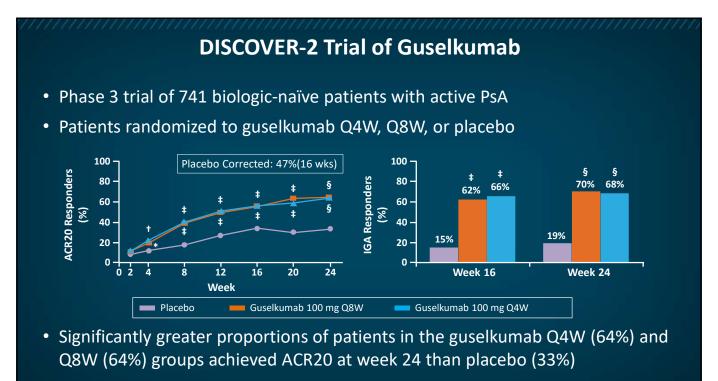
Rolston VS, et al. Dig Dis Sci. 2020. doi:10.1007/s10620-020-06344-w.

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guselkumab Q4W (59%) and Q8W (52%) groups than in the placebo group (22%)

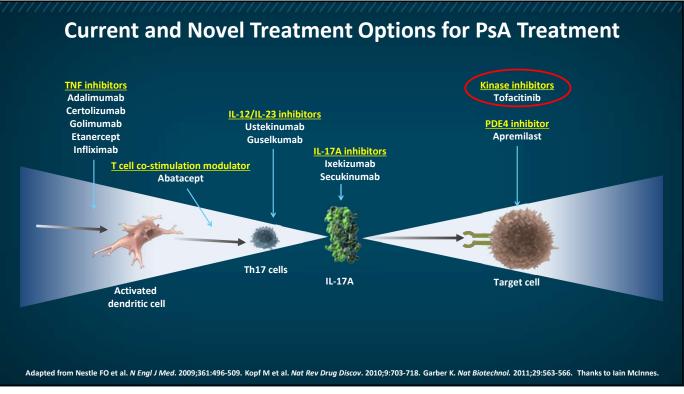
Deodhar A, et al. Lancet. 2020;395:1115-1125.



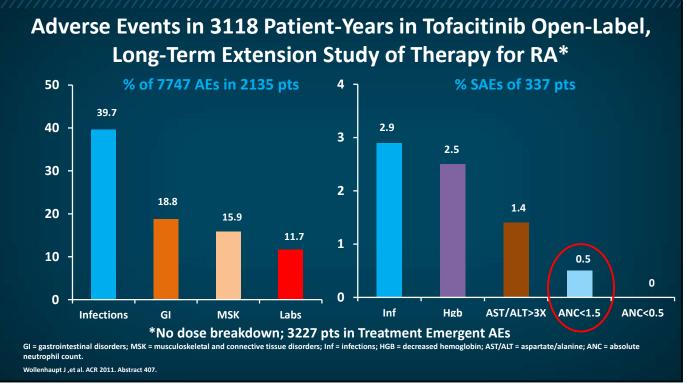
Mease PJ, et al. Lancet. 2020;395:1126-1136.

		GUS	
	РВО	100 mg Q8W	100 mg Q4W
Patients with ≥1 AE (%)	60%	54%	55%
SAE (%)	4%	3%	0%
Discontinuation due to AE (%)	2%	2%	1%
Infections (%)	25%	26%	24%
Alanine aminotransferase increase	2%	6%	4%
Aspartate aminotransferase increase	2%	7%	2%
Nasopharyngitis	6%	13%	5%
Upper respiratory tract infection	6%	6%	9%

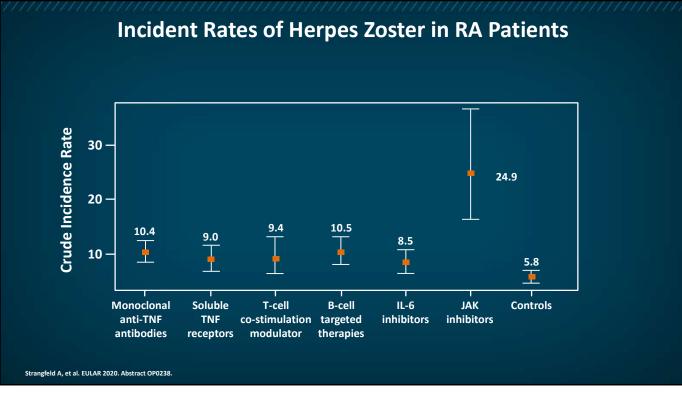
Deodhar A, et al. Lancet. 2020;395:1115-1125.

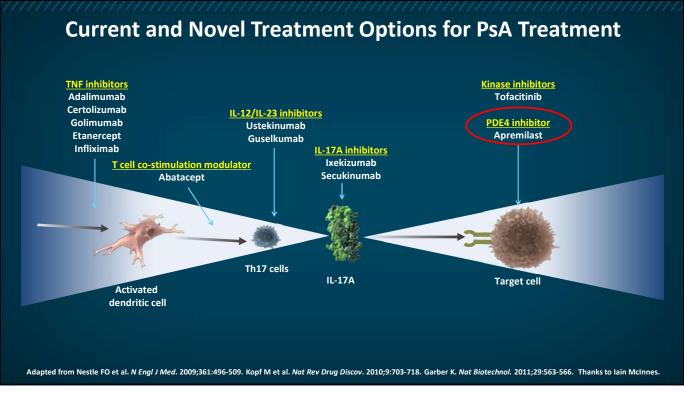


395 patients with active PsA and an		ACR20 Response
inadequate response to TNFi were	⊊ ⁷⁰]	(Placebo corrected): 30% (12 wks)
randomized to:	(1) 60 − 50 − .	I****
– Tofacitinib 5 mg BID	Patients With ACR20 Response (%) - 05 - 09 - 09 - 09 - 09 - 09 - 09 - 09 - 09	*‡
– Tofacitinib 10 mg BID	- 02 Batio	
 Placebo, with a switch to 5 mg or 10 mg tofacitinib BID at 3 months 		ż ż ż ż ż Month
	0.0 -	Change in HAQ-DI Score
No efficacy noted on Leeds Enthesitis Index, Dactylitis Severity Score, FACIT-F total score, and SF-36 physical functioning	Change from Baseline Score - 7:0- - 7:0- - 7:0-	
Conclusion: Tofacitinib has some	-0.5 -	I I I I I I I I I I I I I I I I I I I
efficacy in PsA, but no efficacy noted	-0.6	2 3 4 5 Month
in some symptoms	Placebo	Placebo with switch to tofacitinib 5 mg tofacitinib 10 mg

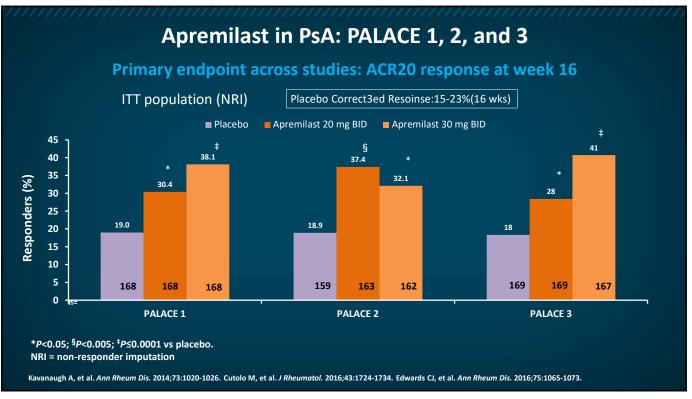


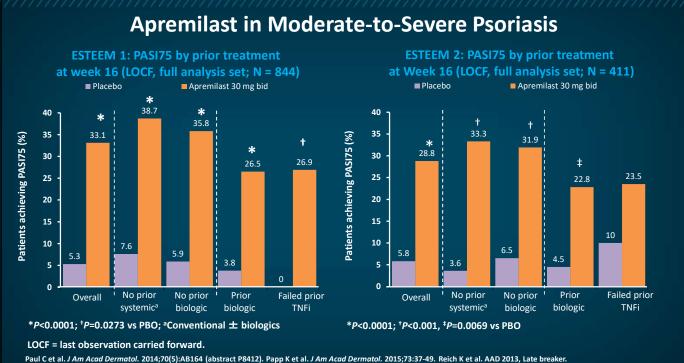






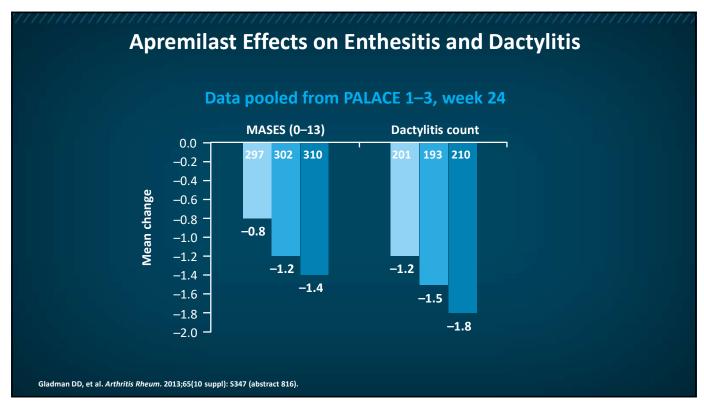






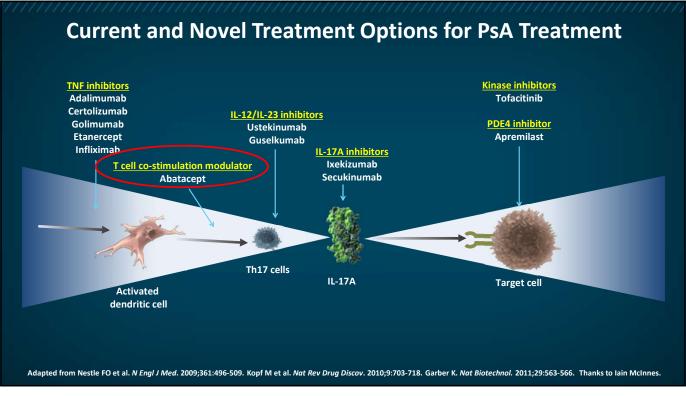
Paul C et al. Br J Dermatol. 2015;173:1387-1399.

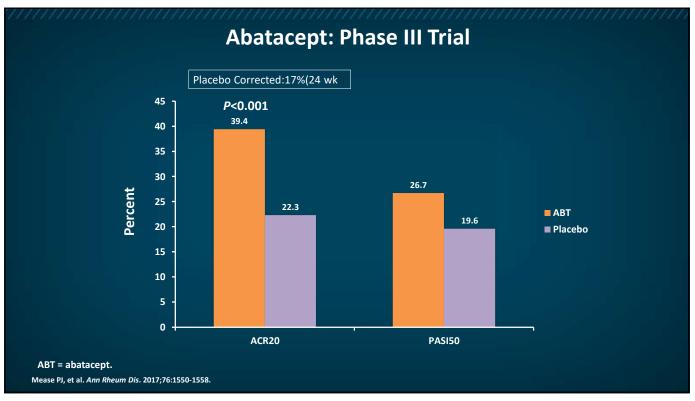


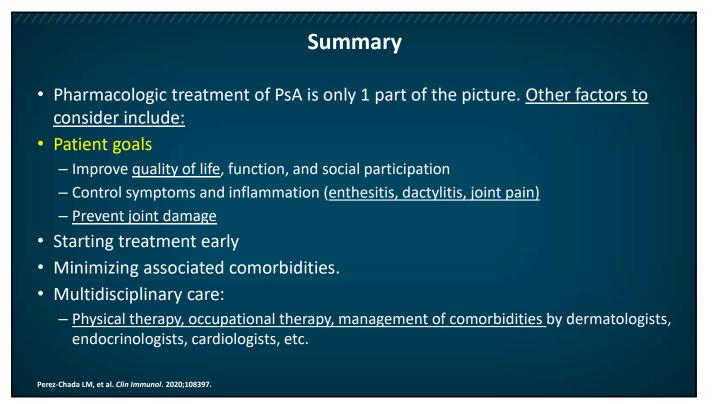


Adverse Events	Placebo (N = 159)	APR 30 BID (24 weeks) (N = 162)	APR 30 BID (52 weeks) (N = 234)
Diarrhea	8 (5.0)	24 (14.8)	32 (13.7)
lausea	3 (1.9)	26 (16.0)	32 (13.7)
leadache	7 (4.4)	19 (11.7)	23 (9.8)
JRTI	6 (3.8)	11 (6.8)	22 (9.4)
lasopharyngitis	6 (3.8)	8 (4.9)	10 (4.3)
lypertension	7 (4.4)	5 (3.1)	13 (5.6)
aboratory values			
ALT >150 u/L	1/158 (0.6)	2/160 (1.3)	3/230 (1.3)
Creatinine elevation	0/158 (0.0)	1/160 (0.6)	2/230 (0.9)
1. Depressio 2. Weight lo	Warnings on and suicidal be		

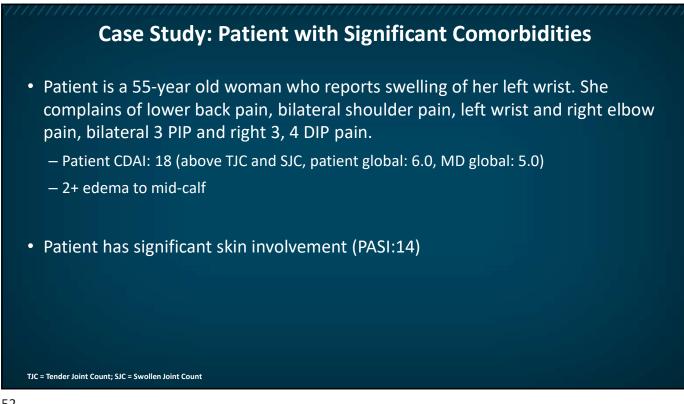












Lab and Imaging Results

• Lab results:

- Hemoglobin: 10.0 g/dL (normal: 12-16)
- WBC: 5.2 x 10⁹/L (normal: 4.0-11.0)
- Platelets: 285 x 10⁹/L (normal: 150-400)
- ESR: 32 mm/hr (normal: 0-29 mm/hr)
- Remainder of CBC and CMP are normal.
- Imaging results:
 - Radiographs of the knees shows osteoarthritis on the right.
 - Chest film shows cardiomegaly.

	Past Medical History
 Congestive hear 	t failure
• Obesity (BMI: 32	2)
• Hypertension (1	60/95 mmHg)
• History of MI th	ree years ago
• Family history p	ositive for MI
	How would you manage this patient?

Current Visit

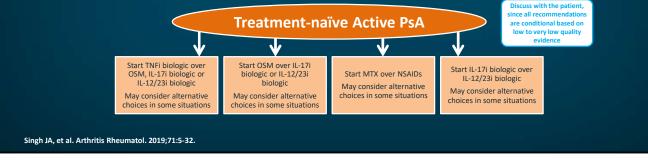
- The patient begins taking ixekizumab to control her PsA.
- Two months after starting her therapy, she experiences dyspnea, loss of smell, and a cough for 3 days.
- Her nasal PCR test for COVID-19 is positive.

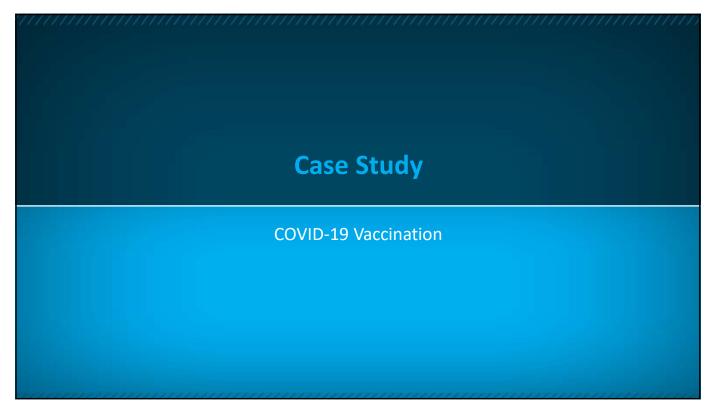
How would you manage this patient's PsA given her COVID-19 diagnosis?

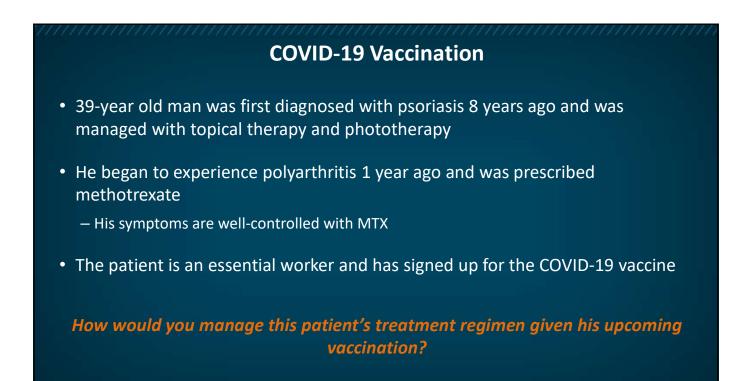
Treatment of Rheumatic Disea	se During the COVID-19 Pandemic ⁸	 All recommendations are based on very low quality o
	Treatment of Rheumatic Disease in the Absence of COVID-19 Infection or Exposure evidence and moderate to	
HCQ/CQ, SSZ, MTX, LEF, immunosuppressants (tacrolimus, CSA, MMF, AZA), biologics, JAK inhibitors, NSAIDs	Continue therapy	high consensus.The recommendations are f rheumatic disease patients
Low-dose corticosteroids	May be started if clinically indicated (<10 mg prednisone equivalent/day)	general and are not
Following SA	Following SARS-CoV-2 Exposure	
HCQ/CQ, SSZ, NSAIDs	May be continued	disease. There are no specif recommendations for PsA.
Immunosuppressants (tacrolimus, CSA, MMF, AZA), non-IL-6 biologics, JAK inhibitors	Stop therapy temporarily, pending a negative COVID-19 test or 2 weeks of symptom-free observation	Mild COVID-19 symptoms reinitiate therapy in 7-14
IL-6 inhibitors	May be continued in select circumstances	days
Documented or	presumptive COVID-19	• • Asymptomatic COVID-19:
HCQ/CQ	May be continued	reinitiate therapy in 10-17
SSZ, MTX, LEF, immunosuppressants, non-IL-6 biologics, and JAK inhibitors	Withhold or stop therapy	days
NSAIDs	Should be stopped in patients with severe respiratory symptoms	 • Severe COVID-19: reinitiating therapy is

Conclusions A TNFi is recommended as a first-line option in treatment-naïve patients. Contraindications to TNFi therapy include congestive heart failure, previous serious infections, recurrent infections, or demyelinating disease. IL-17i or IL-12/23i biologics may be used in patients with severe psoriasis or contraindications to TNFi agents. An IL-17i is recommended over an IL-12/23i, unless the patient has concomitant IBD or prefers less frequent dosing.

• An OSM may be used in patients without severe PsA or severe psoriasis









Lab Results			
Lab	Results	Normal Range	
Hemoglobin	14 g/dL	12.0-15.5 g/dL	
WBC	7200 cells/μL	4500-11,000 cells/μl	
ESR	35 mm/hr	0-22 mm/hr	
CRP	9 mg/L	<10 mg/L	
ССР	10 u/mL	0-20 u/mL	
AST	20 u/L	10-40 u/L	
ALT	41	7-56 u/L	

How would you manage this patient?





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