



# **2024 EULAR recommendations in PsA**

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# Conflicts of interest

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- ▶ Honoraria/Speaker fees
  - ◆ Sandoz, Abbvie, Aenorasis, Pfizer, Novartis, UCB, Janssen, Lilly, Amgen, Boehringer-Ingelheim



## EULAR recommendations for the management of psoriatic arthritis with pharmacological therapies: 2023 update

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Josef S Smolen<sup>3</sup>

# EULAR recommendations for the management of psoriatic arthritis with pharmacological therapies: 2023 update

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- Task Force
- Steering group and 23 other experts
  - ◆ 19 different countries (of which 15 were EULAR countries)
  - ◆ 27 rheumatologists, 2 dermatologists, 1 infectious disease specialist, 2 PsA patients, 2 HPRs and 3 rheumatology/epidemiology fellows/trainees
- Updated recommendations from 2019
  - ◆ 7 OAPs (vs 6 in 2019)
  - ◆ 11 recommendations (vs 12 in 2019, due to merges)
    - ✿ only 4 are unchanged compared with 2019

# The 7 Overarching Principles (OAP)

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A. *Psoriatic arthritis is a heterogeneous and potentially severe disease, which may require multidisciplinary treatment (unchanged).*

B. *Treatment of psoriatic arthritis patients should aim at the best care and must be based on a shared decision between the patient and the rheumatologist, considering efficacy, safety, patient preferences and costs.*

C. *Rheumatologists are the specialists who should primarily care for the musculoskeletal manifestations of patients with psoriatic arthritis; in the presence of clinically relevant skin involvement, a rheumatologist and a dermatologist should collaborate in diagnosis and management.*

D. *The primary goal of treating patients with psoriatic arthritis is to maximise health-related quality of life, through control of symptoms, prevention of structural damage, normalisation of function and social participation; abrogation of inflammation is an important component to achieve these goals (unchanged).*

E. *In managing patients with psoriatic arthritis, consideration should be given to each musculoskeletal manifestation and treatment decisions made accordingly (unchanged).*

F. *When managing patients with psoriatic arthritis, non-musculoskeletal manifestations (skin, eye and gastrointestinal tract) should be taken into account; comorbidities such as obesity, metabolic syndrome, cardiovascular disease or depression should also be considered.*

G. *The choice of treatment should take account of safety considerations regarding individual modes of action to optimise the benefit–risk profile (new).*

# Psoriatic arthritis

## ...or psoriatic disease

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- Metabolic component
  - ◆ Diabetes (11-20%)
  - ◆ Obesity (16-60%)
    - ✿ Associates with PsA development and worse prognosis
  - ◆ Hypertension/CVD (28-47%/21-62%)
    - ✿ ↑ CVD risk
      - ✓ Does not fully explained by classic CVD risk factors
  - ◆ Mental disorders
    - ✿ Depression (9-27%)
    - ✿ Anxiety (6-37%)

# PsA

## Data from Greece

MEDITERRANEAN JOURNAL  
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4  
2023

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ORIGINAL PAPER

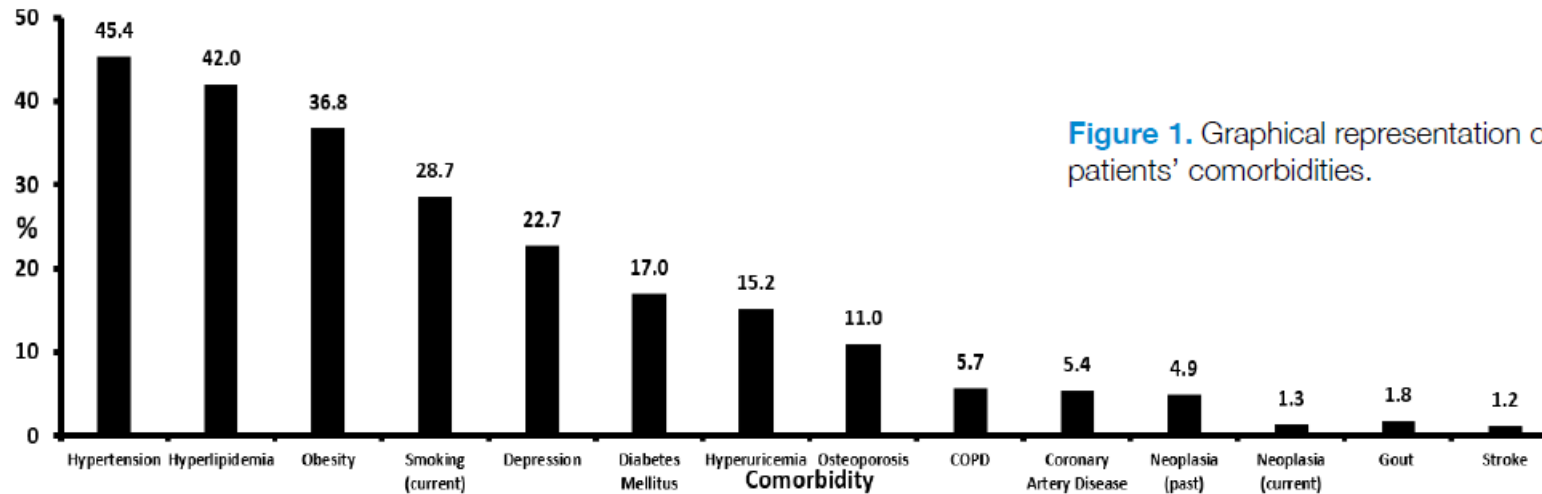
### **Disease Profile and Achievement of Therapeutic Goals in a Modern, Nationwide Cohort of 923 Patients with Psoriatic Arthritis**

**George E. Fragoulis<sup>1\*</sup>, Charalampos Papagoras<sup>2\*</sup>, Sousana Gazi<sup>3</sup>, Evangelia Mole<sup>3</sup>, Michael Krikelis<sup>3</sup>, Paraskevi V. Voulgari<sup>4</sup>, Evripidis Kaltsonoudis<sup>4</sup>, Nikolaos Koletsos<sup>4</sup>, Pelagia Katsimpri<sup>5</sup>, Dimitrios Boumpas<sup>5</sup>, Dimitrios Katsifis<sup>5</sup>, Nikolaos Kougkas<sup>6</sup>, Theodoros Dimitroulas<sup>6</sup>, Petros P. Sfikakis<sup>1</sup>, Maria G. Tektonidou<sup>1</sup>, Chrysoula Gialouri<sup>1</sup>, Dimitrios P. Bogdanos<sup>7</sup>, Theodora Simopoulou<sup>7</sup>, Christos Koutsianas<sup>8</sup>, Eugenia Mavrea<sup>8</sup>, Gkikas Katsifis<sup>9</sup>, Konstantinos Kottas<sup>9</sup>, Maria Konsta<sup>10</sup>, Matthoula Tziafalia<sup>10</sup>, Evangelia Kataxaki<sup>11</sup>, Eleni Kalavri<sup>12</sup>, Kalliopi Klavdianou<sup>12</sup>, Eleftheria P. Grika<sup>13</sup>, Charalampos Sfontouris<sup>13</sup>, Dimitrios Daoussis<sup>14</sup>, George Iliopoulos<sup>14</sup>, Ilias Bournazos<sup>15</sup>, Dimitrios Karokis<sup>15</sup>, Konstantinos Georganas<sup>15</sup>, Dimos Patrikos<sup>15</sup>, Dimitrios Vassilopoulos<sup>8</sup>**

# PsA

## Data from Greece

- 923 patients (55% females)
  - ◆ median (IQR) age of 57 (48-65) years





# PsA

## Obesity – 3 problems...

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- ↑ BMI

- ◆ ↑ risk of PsA Development in patients with Psoriasis Or in healthy individuals
- ◆ ↑ risk of not reaching outcomes
- ◆ ↑ risk of not maintaining favourable outcomes

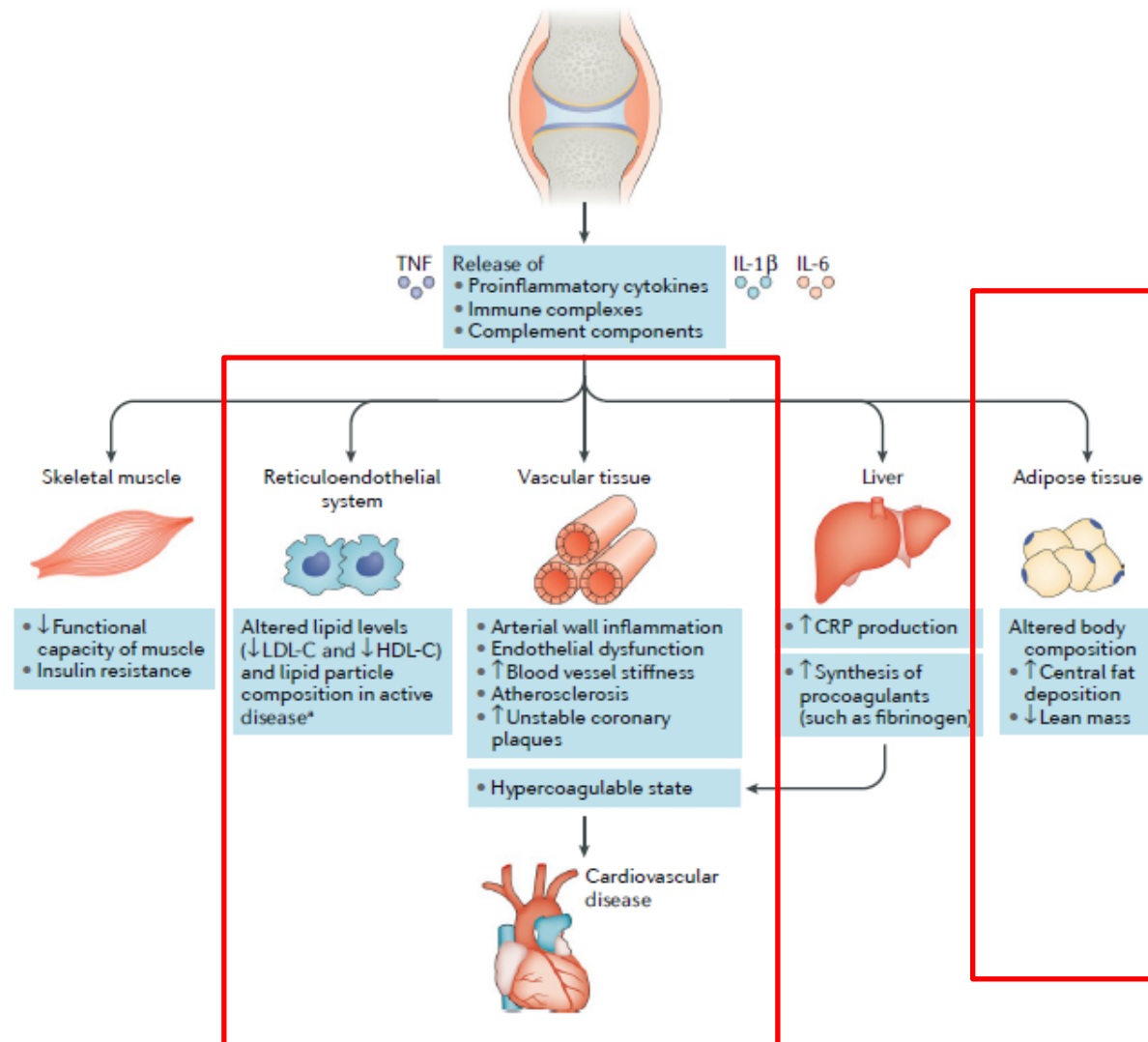
# Different effects of the various b-tsDMARDs

- Unfavourable effects of weight in the outcomes of index disease
  - ◆ are more pronounced for TNF-inhibitors Vs newer drug categories
- On the other hand....
  - ◆ The dose of some regimes is weight adjusted...

Drug category	RA	PsA	SpA
Abatacept	Green	Green with dots	White
JAK inhibitors	Yellow	Yellow	Yellow
IL-17 inhibitors	White	Green	Yellow
IL-23 inhibitors	White	Green	White
IL-6R inhibitors	Green	White	White
Rituximab	Yellow	White	White
TNF inhibitors	Red	Red	Red

# Cytokines and Comorbidities

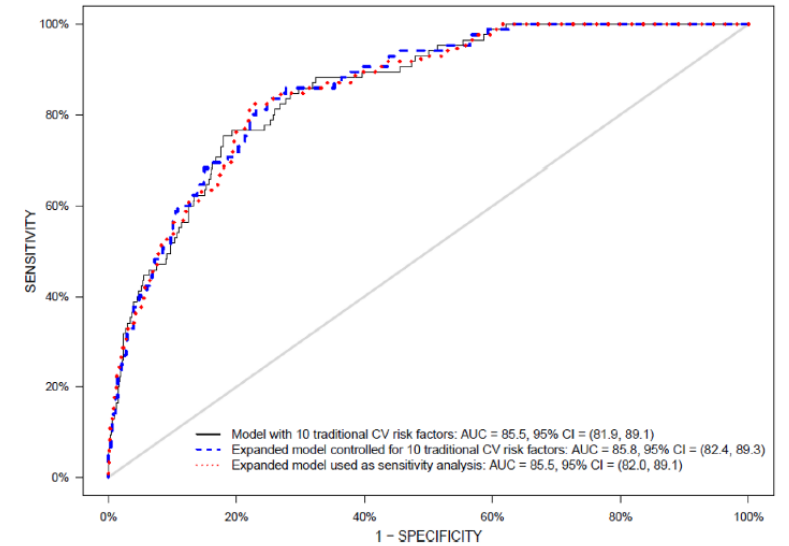
## Cardiovascular risk – the big picture



# PsA & CVD

## Importance of controlling traditional risk factors

- Patients with psoriatic disease without CVD history
- Independent variables: CVD factors and PsD features
- Outcome: CVE
- 1992 and 2020, 85 of 1,336 (about 6%) participants developed CVE
- Model using traditional risk factors (e.g hypertension, obesity etc)
  - ◆ (AUC) of 85.5 (95% confidence interval [CI] 81.9–89.1)
  - ◆ Was not improved after including PsD features



## Recommendation 1

*Treatment should be aimed at reaching the target of remission or, alternatively, low disease activity, by regular disease activity assessment and appropriate adjustment of therapy.*

**Table 1** Composite indices for PsA

	Synovitis TJC, SJC	Axial involvement	Enthesitis	Dactylitis	Skin	Pain	CRP	PtGA	PGA	Function/QoL
Disease activity										
DAPSA	+					+	+	+		
CPDAI	+	+	+	+	+					+
PASDAS	+		+	+			+	+	+	+
GRACE/AMDF	+				+	+		+		+
PsARC	+							+	+	
PsAJAI	+					+	+	+	+	+
MDA/VLDA	+		+		+	+		+		+

PsA, psoriatic arthritis; TJC, Tender Joint Count; SJC, Swollen Joint Count; CRP, C-reactive protein; PtGA, Patient Global Assessment; PGA, Physician Global Assessment; QoL, quality of life; DAPSA, Disease Activity for Psoriatic Arthritis; PsARC, Psoriatic Arthritis Response Criteria; PsAJAI, Psoriatic Arthritis Joint Activity Index; GRACE, Group for Research and Assessment of Psoriasis and Psoriatic Arthritis Composite Exercise; AMDF, Arithmetic Mean of Desirability Function; PASDAS, Psoriatic Arthritis Disease Activity Score; CPDAI, Composite Psoriatic Disease Activity Index; MDA, minimal disease activity; VLDA, very low disease activity

## MDA

**Results:**

- Tender joint count  $\leq 1$  ✓
- Swollen joint count  $\leq 1$  ✓
- Psoriasis Activity and Severity Index  $\leq 1$  or body surface area  $\leq 3\%$  ✓
- HAQ  $\leq 0.5$  ✓
- Patient pain VAS  $\leq 15$  ✗
- Patient global disease activity VAS  $\leq 20$  ✓
- Tender enthesal points  $\leq 1$  ✓

**Score: 6 MDA Achieved**

<5: MDA not achieved (red) | 6-7: MDA achieved (yellow) | 7: VLDA achieved (green)

Finish

## DAPSA

<b>68TJC + 66SJC + CRP + Patient-Global + Patient-Pain</b>	
Disease activity	Score
Remission	0-4
Low	5-14
Moderate	15-28
High	>28

## Recommendation 2

*Non-steroidal anti-inflammatory drugs may be used to relieve musculoskeletal signs and symptoms; local injections of glucocorticoids may be considered as adjunctive therapy.*

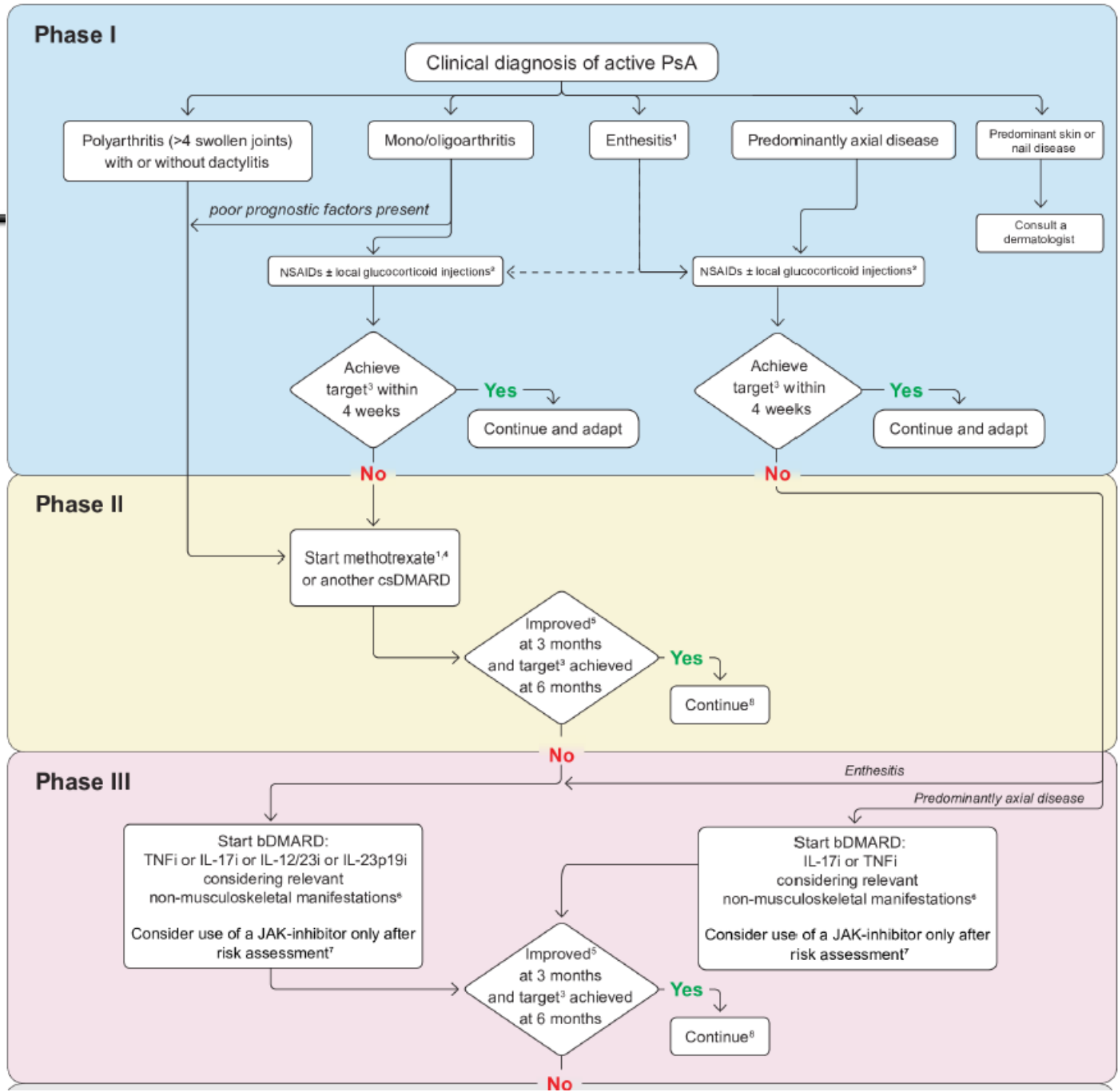
- Systemic steroids have been removed as an option
- But recognized that they can be used as bridging therapy and/or in polyarticular forms



### Disease Profile and Achievement of Therapeutic Goals in a Modern, Nationwide Cohort of 923 Patients with Psoriatic Arthritis

George E. Fragoulis<sup>1\*</sup>, Charalampos Papagoras<sup>2\*</sup>, Sousana Gazi<sup>3</sup>, Evangelia Mole<sup>3</sup>, Michael Krikelis<sup>3</sup>, Paraskevi V. Voulgari<sup>4</sup>, Evripidis Kaltsonoudis<sup>4</sup>, Nikolaos Koletsos<sup>4</sup>, Pelagia Katsimpri<sup>5</sup>, Dimitrios Boumpas<sup>5</sup>, Dimitrios Katsifis<sup>5</sup>, Nikolaos Kougkas<sup>6</sup>, Theodoros Dimitroulas<sup>6</sup>, Petros P. Sfikakis<sup>1</sup>, Maria G. Tektonidou<sup>1</sup>, Chrysoula Gialouri<sup>1</sup>, Dimitrios P. Bogdanos<sup>7</sup>, Theodora Simopoulou<sup>7</sup>, Christos Koutsianas<sup>8</sup>, Eugenia Mavrea<sup>9</sup>, Gkikas Katsifis<sup>9</sup>, Konstantinos Kottas<sup>9</sup>, Maria Konsta<sup>10</sup>, Matthoula Tziafalia<sup>10</sup>, Evangelia Kataxaki<sup>11</sup>, Eleni Kalavri<sup>12</sup>, Kalliopi Klavdianou<sup>12</sup>, Eleftheria P. Grika<sup>13</sup>, Charalampos Sfountouris<sup>13</sup>, Dimitrios Daoussis<sup>14</sup>, George Iliopoulos<sup>14</sup>, Ilias Bournazos<sup>15</sup>, Dimitrios Karokis<sup>15</sup>, Konstantinos Georganas<sup>15</sup>, Dimos Patrikos<sup>15</sup>, Dimitrios Vassilopoulos<sup>8</sup>

- 10% are receiving steroids at a regular basis



### Recommendation 3

*In patients with polyarthritis or those with monoarthritis/oligoarthritis and poor prognostic factors (eg, structural damage, elevated acute phase reactants, dactylitis or nail involvement), a csDMARD should be initiated rapidly, with methotrexate preferred in those with clinically relevant skin involvement.*

- Patients with oligoarticular disease and lack of poor prognostic factors should also receive a csDMARD, but there is less urgency for these patients given the more favourable long-term prognosis. The latter may receive csDMARDs after a longer delay, and potentially a period of symptomatic treatment alone.
  - ◆ Here comes the Difficult-to-Treat concept?
- Start with csDMARD
  - ◆ Usually MTX
    - ✿  $\geq 15\text{mg/week}$  (20-25mg in EULAR recommendations)
  - ◆ Leflunomide and Sulfasalazine are also valid options



# MTX in PsA

## TICOPA study

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- ↘ 188 patients received MTX in the first 12 weeks
  - ◆ >50% received  $\geq 15$  mg/week
  - ◆ 86 patients reaching 25 mg/week at 12 weeks.
  - ◆ ACR20 40.8%, ACR50 18.8%, and ACR70 8.6%
  - ◆ 22.4% MDA, PASI75 27.2%
    - ✱ Trend for MDA in those  $\geq 15$  mg/week
  - ◆ Leeds dactylitis instrument (LDI) scores decreased significantly
    - ✱ 62.7% decrease in patients with dactylitis, median change LDI -59.7, -157.4 to -26.4,  $p = 0.033$

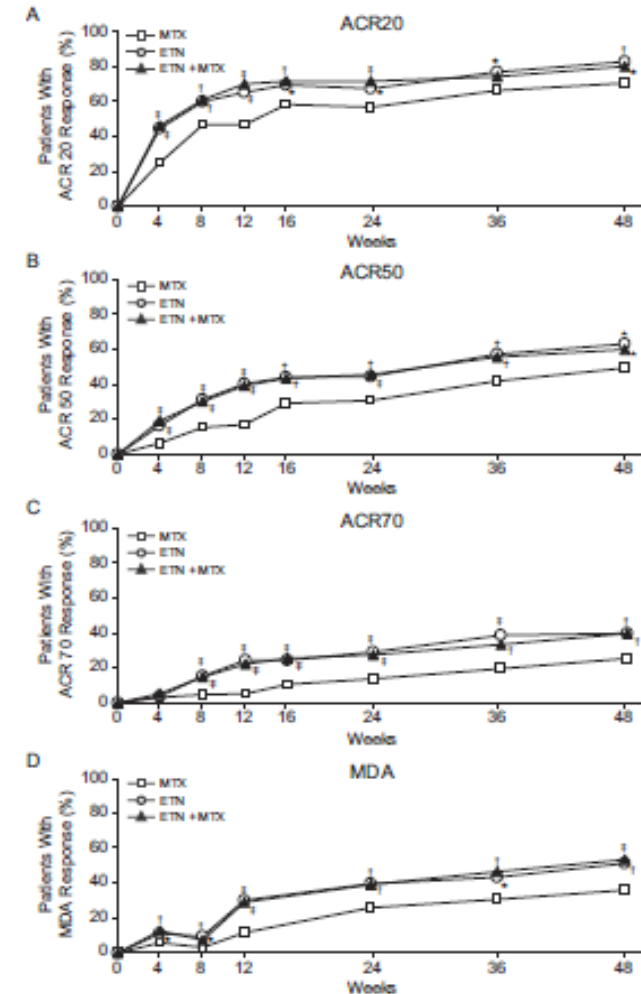
# SEAM-PsA

## ➔ SEAM-PsA

### ◆ MTX Vs ETN Vs MTX+ETN

✿ MTX-monotherapy (median dose of 20mg/week)

- ✓ ACR20 50.7%
- ✓ MDA 22.9%
- ✓ enthesitis resolution in 43.1%
- ✓ psoriasis was clear or almost clear in 66.3% at 24 weeks.
- ✓ No placebo arm however...



#### Recommendation 4

*In patients with peripheral arthritis and an inadequate response to at least one csDMARD, therapy with a bDMARD should be commenced.*

#### Recommendation 5

*In patients with peripheral arthritis and an inadequate response to at least one bDMARD, or when a bDMARD is not appropriate, a JAKi may be considered, taking safety considerations into account.*

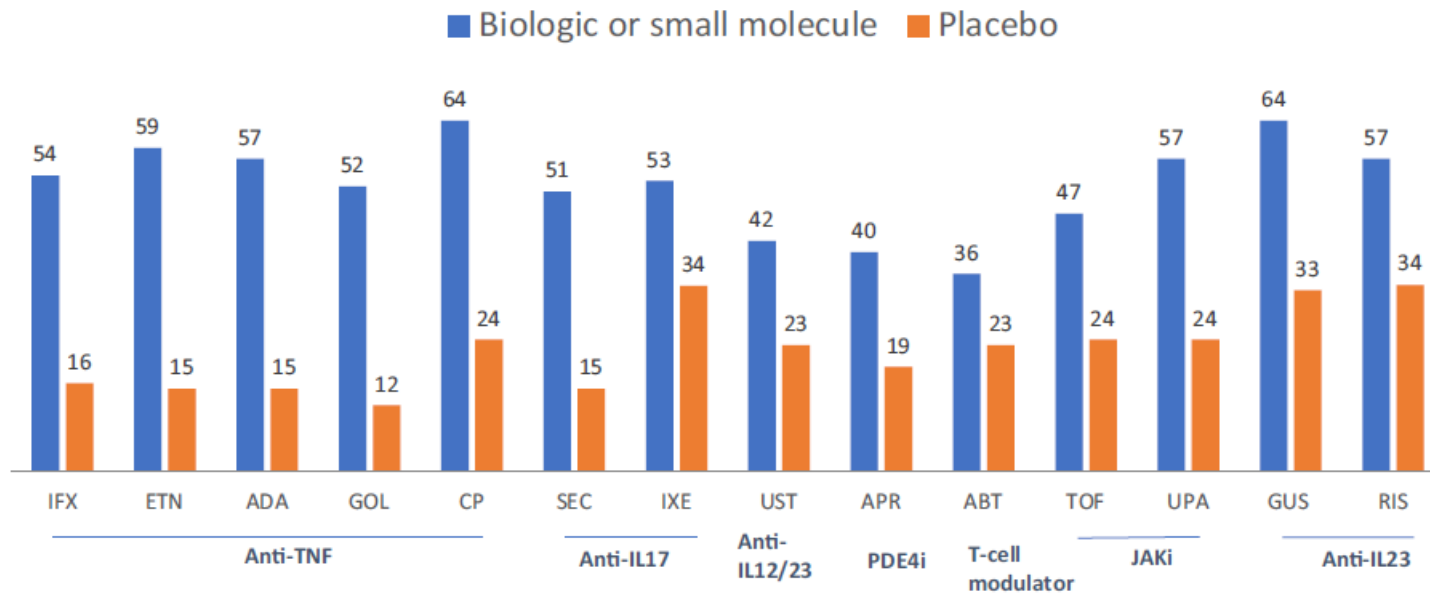
### ➤ After csDMARDs

#### ◆ bDMARD

- ✿ At this stage bDMARDs > JAKi (safety/efficacy ratio, cost, experience)
- ✿ Joints: TNFi=IL-17i
- ✿ Skin: IL-17>IL-17i

## Biologic and Small-molecule Therapies for PsA: Efficacy Data from Registration Trials

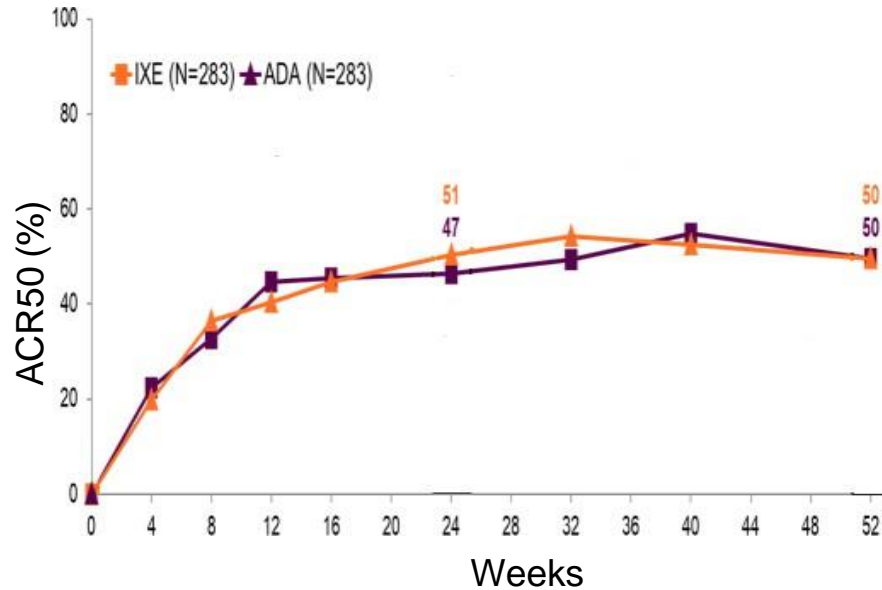
Patients achieving ACR20% Response in Phase 3 PsA Trials



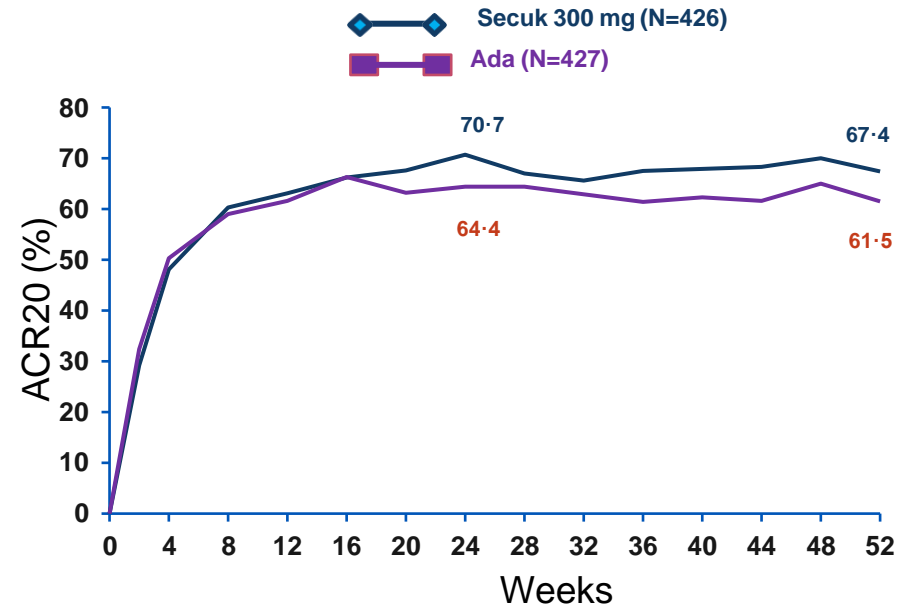
Note: Data are only presented for illustrative purposes and not for direct comparison.

## 2 head-to-head trials, IL-17Ai vs adalimumab (PsA): similar efficacy on joints

**SPIRIT H2H: ixekizumab vs adalimumab,  
%ACR50 at 1 year**



**EXCEED: secukinumab vs adalimumab,  
%ACR20 at 1 year**



## Recommendation 5

*In patients with peripheral arthritis and an inadequate response to at least one bDMARD, or when a bDMARD is not appropriate, a JAKi may be considered, taking safety considerations into account.*

- Lack of data for PsA
  - ◆ Lending from RA
  - ◆ Higher frequency of risk factors (e.g obesity)
- \*For JAKis, caution is needed for patients
  - ◆ aged 65 years or above
  - ◆ current or past long-time smokers
  - ◆ Hx of CVD or other cardiovascular risk factors
  - ◆ Other malignancy risk factors
  - ◆ Known risk factors for venous thromboembolism
- Wording is open for interpretation
  - ◆ Consider also patient's preferences

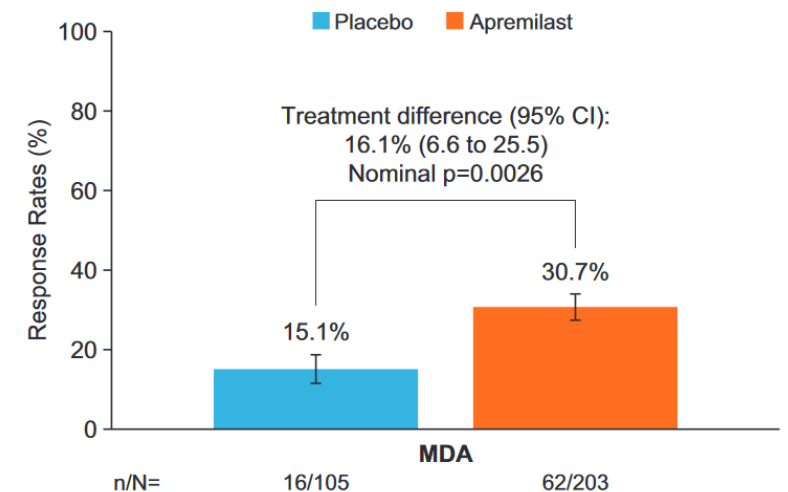
## Recommendation 6

*In patients with mild disease and an inadequate response to at least one csDMARD, in whom neither a bDMARD nor a JAKi is appropriate, a PDE4 inhibitor may be considered.*

- Mild disease
  - ◆ Oligoarticular
  - ◆ Enteseal?
  - ◆ Without significant skin
- No data on inhibition damage progression

## ➤ Foremost trial

- ◆ early (symptom duration  $\leq 5$  years)
- ◆ Oligoarticular PsA: APR Vs PBO for 24w
- ◆ Primary endpoint: % MDA @w16



## Recommendation 7

*In patients with unequivocal enthesitis and an insufficient response to NSAIDs or local glucocorticoid injections, therapy with a bDMARD should be considered.*

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- Careful of overtreatment
- Not enough data for MTX
  - ◆ Although there might be some efficacy
  - ◆ All bDMARDs are equally effective
  - ◆ JAKi are also an option and also effective

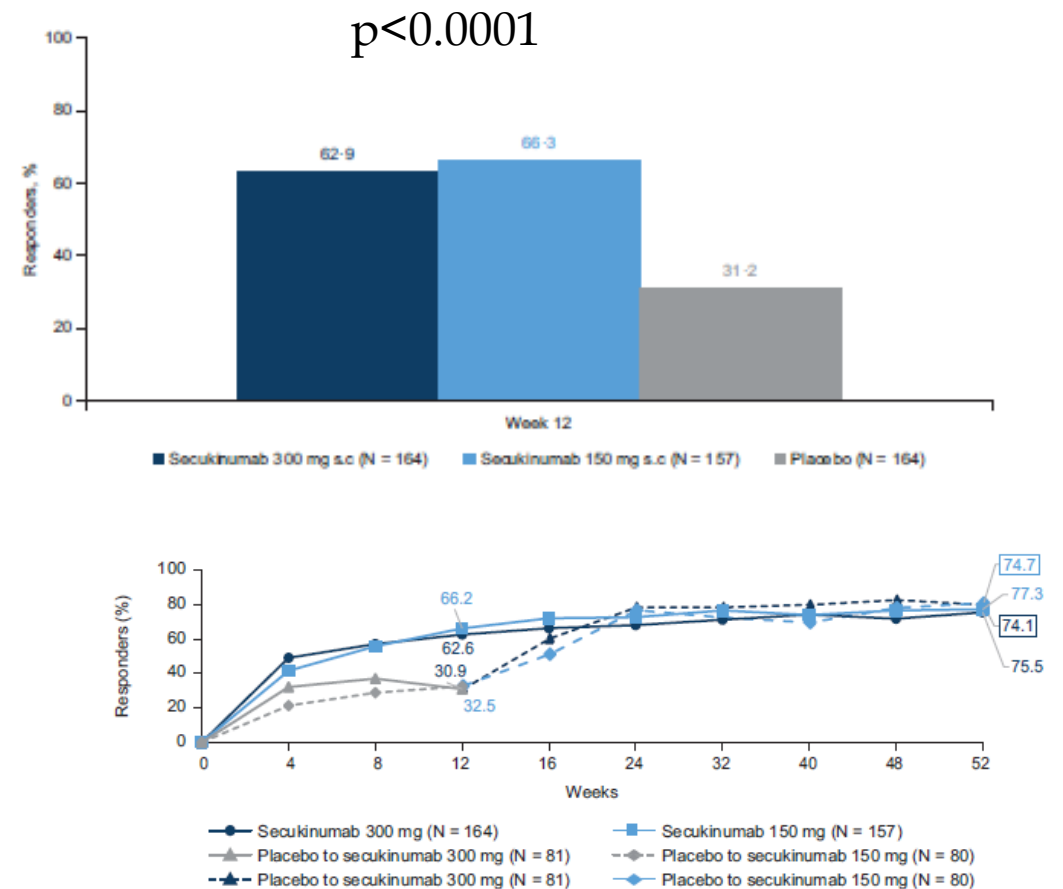


## Recommendation 8

*In patients with clinically relevant axial disease with an insufficient response to NSAIDs, therapy with an IL-17Ai, a TNFi, an IL-17 A/Fi or a JAKi should be considered.*

### ➤ Axial Disease

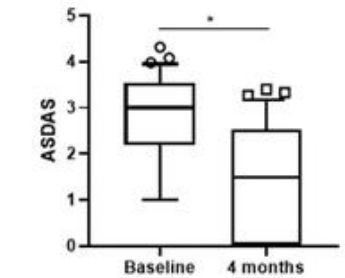
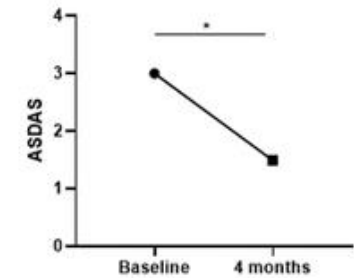
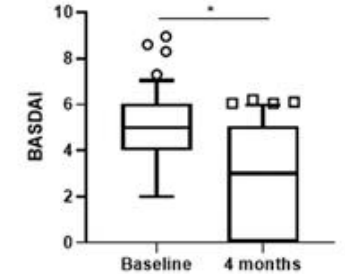
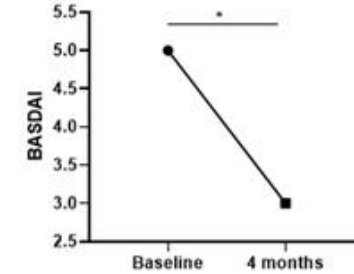
- ◆ 2–5% of PsA patients have ONLY axial disease
- ◆ About 20–30% of PsA patients have axial disease (radiologic + clinical)
- ◆ IL-17i, TNFi, JAKi work well
  - ✳ IL-17 first here...
- ◆ IL-23?
  - ✳ To be seen...



# IL-23 in PsA

## Real-life data

- ▶ 67 PsA patients with axial involvement (Subjective + XR OR MR)
  - ◆ Received anti-IL-23 for 4 months
  - ◆ In 27 patients
    - \* MRIs before and after
  - ◆ Significant BASDAI and ASDAS improvement
  - ◆ MRI: ↓ > 0.80 score SI was observed in 70.3% of pts
    - \* Paralleled clinical improvement

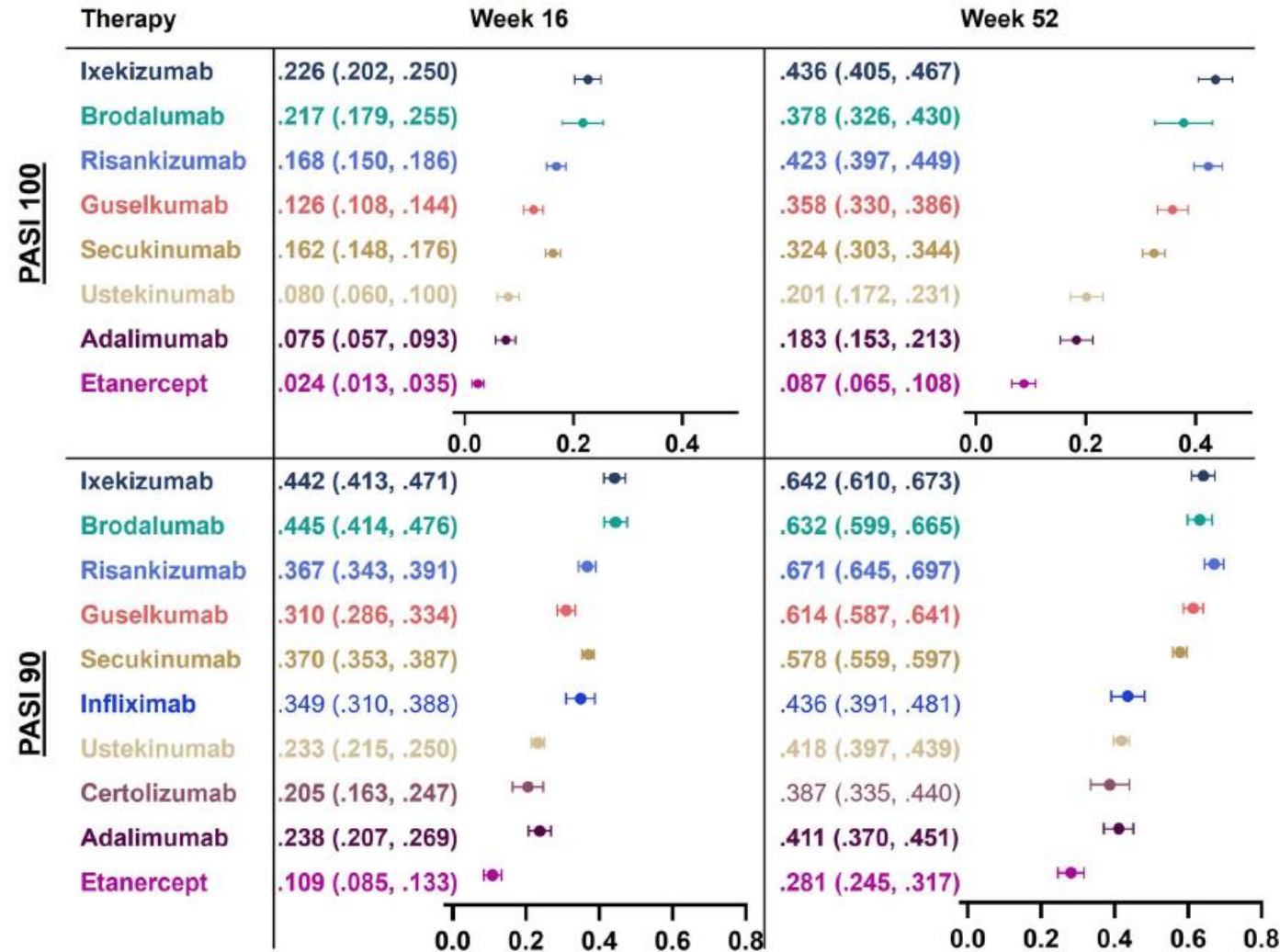


## Recommendation 9

*The choice of the mode of action should reflect non-musculoskeletal manifestations related to PsA; with clinically relevant skin involvement, preference should be given to an IL-17A or IL-17A/F or IL-23 or IL-12/23 inhibitor; with uveitis to an anti-TNF monoclonal antibody; and with IBD to an anti-TNF monoclonal antibody or an IL-23 inhibitor or IL-12/23 inhibitor or a JAKi.*

# Psoriasis

## Network Meta-analysis



# Uveitis

## How often in PsA

### → Not very often

#### ◆ About 4% (also in Greece)

- ✿ Association with axial disease
- ✿ Association with family History of SpA

Rheumatology International (2023) 43:2081–2088  
<https://doi.org/10.1007/s00296-023-05424-0>

Rheumatology  
INTERNATIONAL

OBSERVATIONAL RESEARCH



**Higher frequency but similar recurrence rate of uveitis episodes in axial spondylarthritis compared to psoriatic arthritis. A multicentre retrospective study**

Nikolaos Kougkas<sup>1</sup> · Konstantina Magiour<sup>2</sup> · Chrysoula G. Gialouri<sup>2,3</sup> · Gerasimos Evangelatos<sup>4</sup> · Maria Pappa<sup>2</sup> · Aikaterini Dimouli<sup>5</sup> · Alexios Iliopoulos<sup>3</sup> · Anastasios Karmanakos<sup>5</sup> · Theodoros Dimitroulas<sup>1</sup> · Maria G. Tektonidou<sup>2</sup> · Petros P. Sfikakis<sup>2</sup> · George E. Fragoulis<sup>2</sup>

# Uveitis

## Treatment options - II

- Adalimumab
  - ◆ Approved for uveitis (non-anterior)
- Certolizumab, infliximab, golimumab
  - ◆ Have also good results
- Etanercept, Secukinumab, Ixekizumab
  - ◆ Not-effective
- Tofacitinib, Upadacitinib, Filgotinib, IL-23i
  - ◆ No data yet
- Bimekizumab
  - ◆ Promising??

ORIGINAL ARTICLE

### Adalimumab in Patients with Active Noninfectious Uveitis

Glenn J. Jaffe, M.D., Andrew D. Dick, M.B., B.S., M.D., Antoine P. Brézin, M.D., Ph.D., Quan Dong Nguyen, M.D., Jennifer E. Thorne, M.D., Ph.D., Philippe Kestelyn, M.D., Ph.D., M.P.H., Talin Barisani-Asenbauer, M.D., Ph.D., Pablo Franco, M.D., Arnd Heiligenhaus, M.D., David Scales, M.D., David S. Chu, M.D., Anne Camez, M.D., Nisha V. Kwatra, Ph.D., Alexandra P. Song, M.D., M.P.H., Martina Kron, Ph.D., Samir Tari, M.D., and Eric B. Suhler, M.D., M.P.H.

### Reduction of anterior uveitis flares in patients with axial spondyloarthritis on certolizumab pegol treatment: final 2-year results from the multicenter phase IV C-VIEW study

Irene E. van der Horst-Bruinsma , Rianne E. van Bentum, Frank D. Verbraak, Atul Deodhar, Thomas Rath, Bengt Hoepken, Oscar Irvin-Sellers, Karen Thomas, Lars Bauer and Martin Rudwaleit

### Infliximab for the Treatment of Refractory Noninfectious Uveitis

*A Study of 88 Patients with Long-term Follow-up*

Jonathan N. Kruh, MD,<sup>1,2</sup> Paul Yang, MD, PhD,<sup>1,2</sup> Ana M. Suelves, MD,<sup>1,2</sup> C. Stephen Foster, MD, FACS<sup>1,2,3</sup>

### Reduced Occurrence Rate of Acute Anterior Uveitis in Ankylosing Spondylitis Treated with Golimumab — The GO-EASY Study

Rianne E. van Bentum, Sjoerd C. Heslinga, Michael T. Nurmohamed, Andreas H. Gerards, Ed N. Griep, Charlotte B.J.M. Koehorst, Marc R. Kok, Anna M. Schilder, Marijn Verhoef, and Irene E. van der Horst-Bruinsma

# Psoriatic arthritis

## IBD

- 1.2% of PsO
- ~3% of PsA (mainly CD)
  - ◆ Possibly higher in those with PsA-axial
  - ◆ Few are known for subclinical inflammation
- Inflammatory bowel disease
  - ◆ Risk Ratio
    - ✿ Vs Healthy: 2.96 (1.40 - 6.00)
    - ✿ Vs Psoriasis 3.60 (1.83 - 7.10)

*Charlton R et al Ann Rheum Dis 2018*  
*McDonough E et al J Rheum 2014*  
*Khraishi M et al Clin Rheum 2014*  
*Husted JA et al Arthritis Care and Res 2014*  
*Kimball AB J Am Acad Dermatol. 2008*  
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*Nikiphorou E, Fragoulis GE Ther Adv Musculoskelet Dis. 2018*  
*Fragoulis GE et al Ther Adv Musc Dis 2020*  
*Alinaghi et al J Crohns Colitis 2020*  
*Jadon et al ARD 2017*  
*Fragoulis et al Clin Exp Rheum 2022*

# Psoriatic arthritis

## IBD Treatment

### ➤ Inflammatory bowel disease

#### ◆ Efficacy




- ✿ Infliximab
- ✿ Adalimumab
- ✿ Ustekinumab
- ✿ Certolizumab (CD)
- ✿ Golimumab (UC)
- ✿ Guselkumab (CD, UC; preregistration)
- ✿ Risankizumab (CD: marketed, UC: registered)
- ✿ Tofacitinib (UC, but NOT CD)
- ✿ Upadacitinib

### THE LANCET

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
Risankizumab as induction therapy for Crohn's disease: results from the phase 3 ADVANCE and MOTIVATE induction trials

Prof Geert D'Haens, MD   • Prof Remo Panaccione, MD  • Filip Baert, MD • Peter Bossuyt, MD • Prof Jean-Frederic Colombel, MD • Prof Silvio Danese, MD • et al. [Show all authors](#) • [Show footnotes](#)

### Gastroenterology ▶ **aga**

ORIGINAL RESEARCH FULL REPORT: CLINICAL—ALIMENTARY TRACT | VOLUME 158, ISSUE 8, P2123-2138.E8, JUNE 2020 [Download Full Issue](#)

Efficacy and Safety of Upadacitinib in a Randomized Trial of Patients With Crohn's Disease

William J. Sandborn • Brian G. Feagan • Edward V. Loftus Jr. • ... Aileen L. Pangan • Ana P. Lacerda • Julian Panes   • [Show all authors](#)

ORIGINAL ARTICLE

### Tofacitinib as Induction and Maintenance Therapy for Ulcerative Colitis

William J. Sandborn, M.D., Chinyu Su, M.D., Bruce E. Sands, M.D., Geert R. D'Haens, M.D., Séverine Vermeire, M.D., Ph.D., Stefan Schreiber, M.D., Silvio Danese, M.D., Brian G. Feagan, M.D., Walter Reinisch, M.D., Wojciech Niezychowski, M.D., Gary Friedman, M.D., Nervin Lawandy, Pharm.D., et al., for the OCTAVE Induction 1, OCTAVE Induction 2, and OCTAVE Sustain Investigators\*

*Whitlock SM et al J Am Acad Derm 2018*

*Feagan BG et al Lancet 2017*

*Sharma S et al Best clin Prac & Res Clin Rheum 2018*



# Table-update

	Anti-TNF	Etanercept	Anti-IL-17	Anti-IL-23	JAKi
Arthritis					
Skin					
Enthesitis					
Dactylitis					
Nail disease					
Axial					
Eye					
Bowel					
Tuberculosis					
Herpes zoster					
VTE/PE					

## Recommendation 10

*In patients with an inadequate response or intolerance to a bDMARD or a JAKi, switching to another bDMARD or JAKi should be considered, including one switch within a class.*

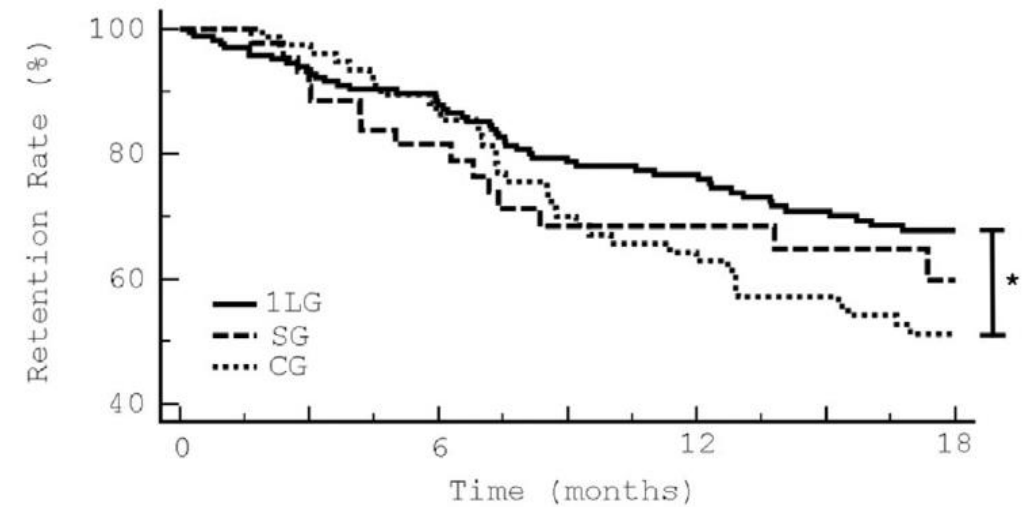
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- Not many data
- Switching/swapping seems to be the same, till now

# EULAR PsA

## ACR PsA

- ◆ Monocentric study
- ◆ PsA patients treated with b-ts DMARDs
- ◆ N=183
  - ◆ 1<sup>st</sup> line
  - ◆ Cycling (same mechanism of action)
  - ◆ Swapping
- ◆ No significant Differences in retention
  - ◆ Between cycling and Swapping



## Ixekizumab therapy following secukinumab inadequate response in psoriatic arthritis:

### Switching in another IL-17i

- ✓ Retrospective study
- ✓ Failed to secukinumab (**SEC-IR**)
- ✓ Treated with ixekizumab (**IXE**)
- ✓ SEC-IR: - 21/24 (88%) *peripheral arthritis*
  - 11/24 (46%) *psoriasis*
  - 10/24 (42%) *axial*

bDMARDs after SEC and prior to IXE	n (%)
None	11 (45.8)
1	9 (37.5)
2	3 (12.5)
3	1 (4.2)

} n= 11, Group **A**

} n= 13, Group **B**

## Results (2)

✓ **DAPSA improvement: 15/24**  
patients

- **64%** (7/11) Group **A**

- **62%** (8/13) Group **B**

✓ **HAQ improvement (p=0.004)**

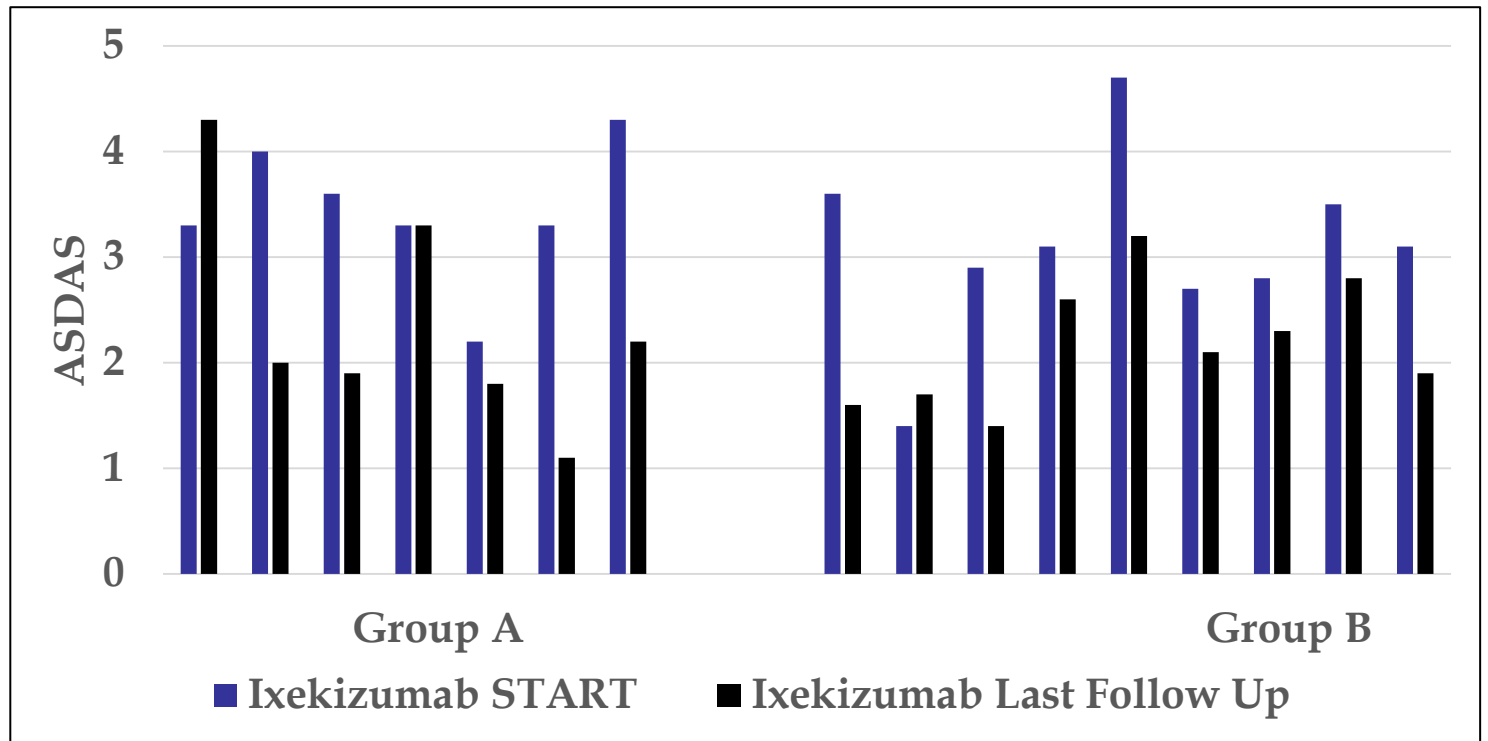
Parameters	Start of IXE	Last Follow Up	P
TJC, median (IQR)	4.5 (7)	2 (4)	0.001
SJC, median (IQR)	3.5 (4)	1 (2)	<0.001
<b>BSA, mean (SD)</b>	<b>8.7 (8.7)</b>	<b>2.4 (3.3)</b>	<b>0.001</b>
Enthesitis, n (%)	6 (25)	1 (4.2)	0.08
Dactylitis, n (%)	5 (20.8)	2 (8.3)	0.06
ESR - mm/h, mean (SD)	30.1 (18.7)	21.6 (13.8)	0.130
CRP - mg/dl, mean (SD)	1.5 (2)	0.7 (0.9)	0.144
<b>DAPSA, mean (SD)</b>	<b>22.8 (8.6)</b>	<b>13.6 (7.8)</b>	<b>&lt;0.001</b>
<b>ASDAS, mean (SD)</b>	<b>3.2 (0.8)</b>	<b>2.3 (0.7)</b>	<b>0.004</b>
<b>BASFI, mean (SD)</b>	<b>5.2 (1.8)</b>	<b>3.6 (1.8)</b>	<b>0.011</b>
<b>HAQ, mean (SD)</b>	<b>0.9 (0.6)</b>	<b>0.4 (0.3)</b>	<b>0.004</b>
Concurrent cDMARDs, n (%)	6 (25)	13 (54.2)	
Concurrent glucocorticoids, n (%)	7 (29.2)	3 (12.5)	
Concurrent NSAIDs, n (%)	2 (8.3)	3 (12.5)	

### Results (3)

✓ ASDAS improvement ( $\Delta$ ASDAS  $\geq$  1.1) : 8/16 patients

- 57% (4/7) Group A

- 44% (4/9) Group B



# Recommendation 11

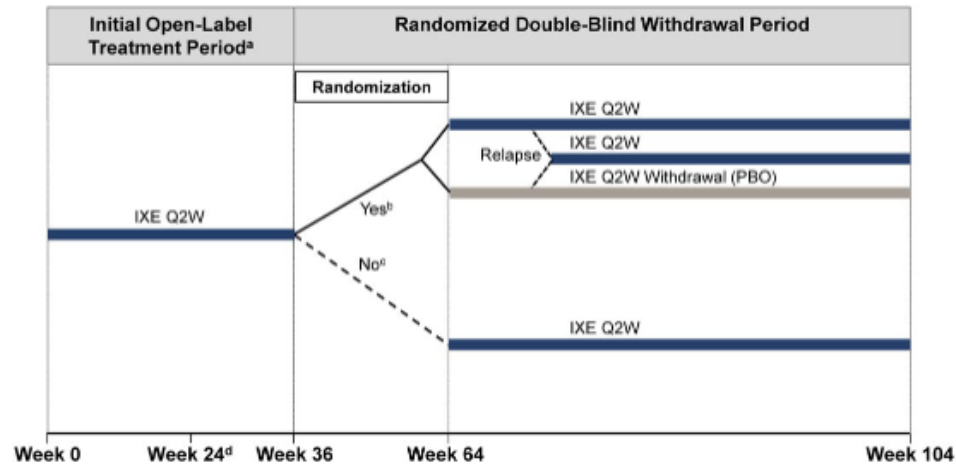
*In patients in sustained remission, tapering of DMARDs may be considered.*

Table 2 Summary of TNFi tapering studies in PsA

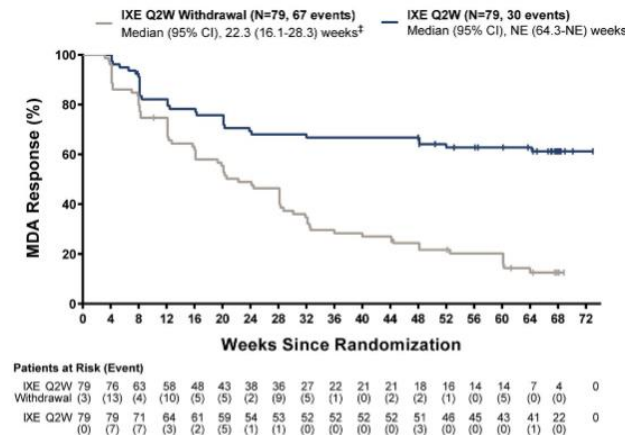
Study	Study design	Population size	Population type	Regimen	Key results	Predictors of success
Cantini et al. [16]	Prospective case-control, Italy	76 patients (53 in tapered group; 23 in non-tapered group)	Patients with PsA with a disease duration < 24 months who required TNFi attending clinic from January 2008 – December 2010. Required to be in clinical remission for $\geq 6$ months and not taking additional drugs including NSAIDs and steroids for 2 consecutive visits	Adalimumab dose tapered by increasing the interval from 40 mg every 2 weeks to 40 mg every month	47/53 patients in the tapered group maintained remission over mean follow up period of > 28 months	–
Janta et al. [13]	Cross-sectional, Spain	102 patients (28 in tapered group; 74 in non-tapered group)	Patients with PsA attending clinic from January – March 2014. Required MDA or maintained remission	TNFi dose tapered by increasing the interval between doses or reducing the absolute dose	23/28 patients in the tapered group were successfully maintained on a tapered TNFi dose for > 1 year	–
Lorenzin et al. [12]	Retrospective, Italy	141 patients (65 in tapered group; 76 in non-tapered group)	Patients with axial and/or peripheral PsA with limited skin involvement attending clinic over a 4-year period. Required to be in remission/MDA for $\geq 6$ months	TNFi dose tapered by increasing interval between doses	Dose interval could be extended in 26/74 patients on adalimumab and 39/67 patients on etanercept	–
J et al. [abstract] [18]	Retrospective observational, Spain	37 patients (all tapered)	Patients with PsA with $\geq 1$ year of clinical remission	Unclear	Patients (37 PsA in addition to 75 rheumatoid arthritis and 32 ankylosing spondylitis) were able to maintain remission on a tapered etanercept dose for approximately 2 and a half years, and on a tapered adalimumab dose for nearly 2 years	–
Fong et al. [14]	Retrospective, UK	83 patients (15 in tapered group; 68 in non-tapered group)	Patients with severe PsA ( $\geq 3$ tender and swollen joints + active arthritis despite adequate trials of $\geq 2$ DMARDs). Required DAS28-ESR $\leq 3.2$ for $\geq 6$ months and not taking regular NSAIDs or steroids	TNFi dose tapered by a third, either by extending dose-interval or reducing the absolute dose	9/15 patients in the tapered group were successfully maintained on a tapered TNFi dose for a mean of 1 year	Lower disease activity prior to TNFi tapering

# Recommendation 11

*In patients in sustained remission, tapering of DMARDs may be considered.*



- 158 patients
- Primary outcome: loss of MDA
- Disease relapse occurred more rapidly with treatment withdrawal (median 22.3 weeks compared to those who continued treatment with ixekizumab (P < 0.0001))
- Median time to achieving MDA again with retreatment was 4.1 weeks





## Recommendation 11

*In patients in sustained remission, tapering of DMARDs may be considered.*

- 60 patients with RA, PsA, or AS with sustained minimal disease activity (MDA)
  - ◆ 18-month, open-label, RCT
  - ◆ **Intervention**: doubled the dosing interval at baseline and discontinued etanercept 6 months later
  - ◆ **Control**: continued the standard dose for 6 months and doubled the dosing-interval thereafter.
  - ◆ Primary outcome: % maintaining MDA at 6 month follow-up
  - ◆ 6 months, MDA status was maintained in 47 patients (63%) in the intervention group and 56 (74%) in the control group ( $p = 0.15$ )
    - ✱ Results similar across diseases

# Take home messages

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- Tailored approach as per
  - ◆ MSK manifestations (e.g axial)
  - ◆ Non-MSK (e.g eye, bowel)
  - ◆ Comorbidities (e.g obesity)
- More data needed for switching Vs Swapping
- Tapering is a valid option

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# 2ο Πανελλήνιο Συμπόσιο για τις Σπονδυλαρθρίτιδες

20-23 Φεβρουαρίου 2025, Divani Caravel