EULAR UPDATE 2017

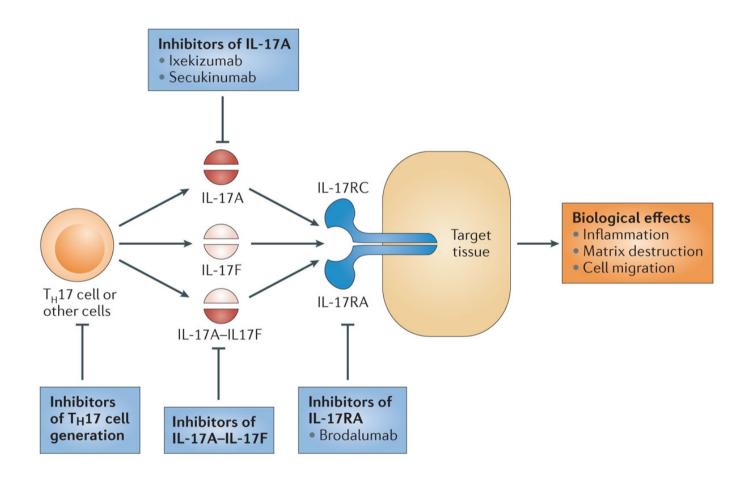
BY
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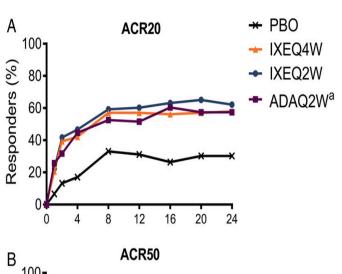
PSORIATIC ARTHRITIS

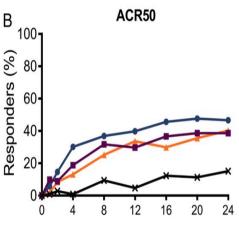
WHAT IS NEW?

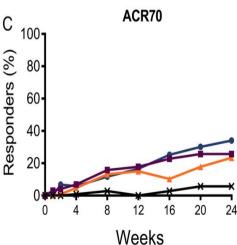
TREATMENT

IXEKIZUMAB: an anti-IL 17A antibody





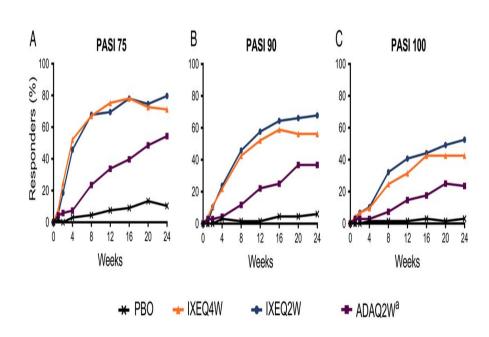




EXTENDED REPORT

Ixekizumab, an interleukin-17A specific monoclonal antibody, for the treatment of biologic-naive patients with active psoriatic arthritis: results from the 24-week randomised, double-blind, placebocontrolled and active (adalimumab)-controlled period of the phase III trial SPIRIT-P1

Philip J Mease, ¹ Désirée van der Heijde, ² Christopher T Ritchlin, ³ Masato Okada, ⁴ Raquel S Cuchacovich, ^{5,6} Catherine L Shuler, ⁵ Chen-Yen Lin, ⁵ Daniel K Braun, ⁵ Chin H Lee, ⁵ Dafna D Gladman, ⁷ on behalf of the SPIRIT-P1 Study Group



Philip J Mease et al. Ann Rheum Dis 2017;76:79-87

Ixekizumab for the treatment of patients with active psoriatic arthritis and an inadequate response to tumour necrosis factor inhibitors: results from the 24-week randomised, double-blind, placebo-controlled period of the SPIRIT-P2 phase 3 trial

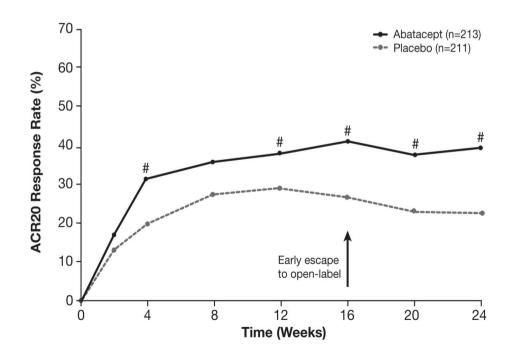
Prof Peter Nash, Prof Bruce Kirkham, Masato Okada, Prof Proton Rahman, Prof Benard Combe, Prof Gerd-Ruediger Burmester, David H Adams, Lisa Kerr, Chin Lee, Catherine L Shuler, Prof Mark Genovese, on behalf of the SPIRIT-P2 Study Group

At week 24, a higher proportion of patients attained ACR-20 with ixekizumab every 4 weeks (65 [53%] patients; effect size *vs* placebo 33·8% [95% CI 22·4 45·2]; p<0·0001) and ixekizumab every 2 weeks (59[48%] patients; 28.5% [17·1–39.8]; p<0·0001) than did patients with placebo (23 [20%] patients).

Extended report

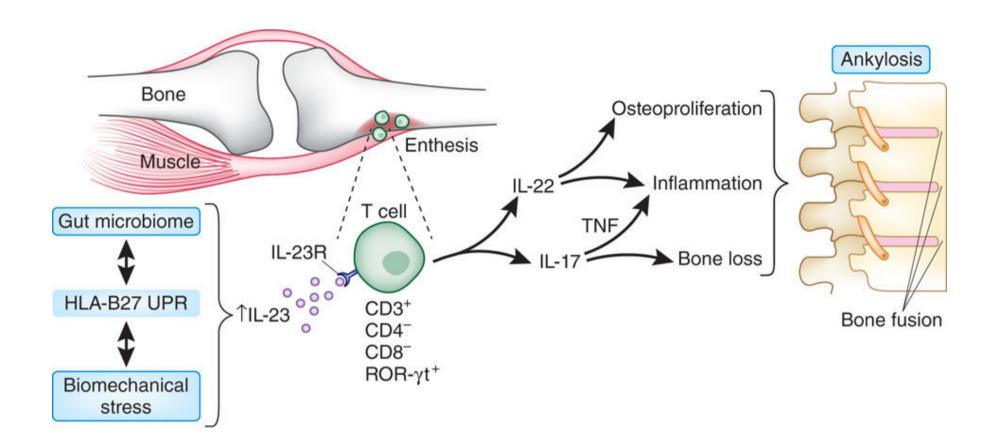
Efficacy and safety of abatacept, a T-cell modulator, in a randomised, double-blind, placebo-controlled, phase III study in psoriatic arthritis

Philip J Mease, Alice B Gottlieb, Désirée van der Heijde, Oliver FitzGerald, Alyssa Johnsen, Marleen Nys, Subhashis Banerjee, Dafna D Gladman



Philip J Mease et al. Ann Rheum Dis 2017;76:1550-1558

BASIC IMMUNOLOGY



Various pathways may lead to elevated IL-23 expression, and Sherlock *et al.*⁷ now show that IL-23 can activate resident T cells within the enthesis, the region in which tendons and ligaments insert into bone. These activated T cells can then promote local inflammation and bone remodeling through a variety of effector mediators, including IL-17 and IL-22. The net result of these actions is the typical ankylosed appearance of the spine. TNF, tumor necrosis factor; UPR, unfolded protein response.

IL-17 is produced by other cells and not just by T cells

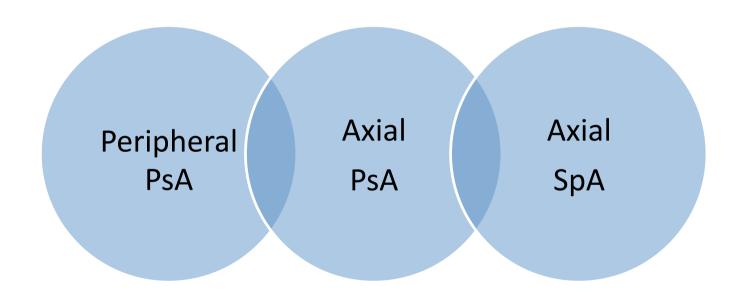
- Υδ
- NK
- Neutrophil
- CD8

STRATEGY

EXTENDED REPORT

Axial Disease in Psoriatic Arthritis study: defining the clinical and radiographic phenotype of psoriatic spondyloarthritis

Deepak R Jadon,1,2 Raj Sengupta,1 Alison Nightingale,3 Mark Lindsay,3 Eleanor Korendowych,1 Graham Robinson,1 Amelia Jobling,4 Gavin Shaddick,4 Jing Bi,5 Robert Winchester,5 Jon T Giles,5 Neil J McHugh1,3



Less HLA B27

Less sacroiliitis
More silent disease

more radiographic damage

Jadon DR, et al. Ann Rheum Dis 2017;76:701–707

Definition of Remission

Minimal Disease Activity

5/7 of the following criteria:

- Tender joint count ≤1
- Swollen joint count ≤1
- PASI ≤1 or BSA ≤3%
- Patient pain VAS ≤15
- Patient global activity VAS ≤20
- HAQ ≤0.5
- Tender entheseal points ≤1

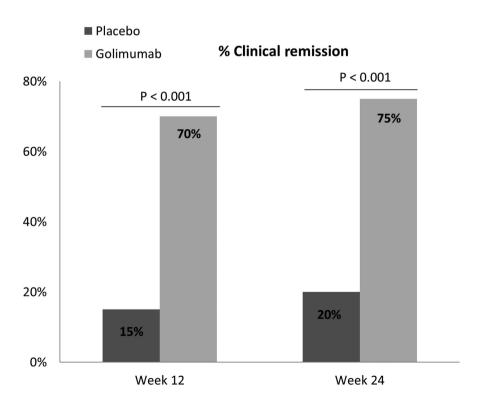
Ideas and questions post-TICOPA

- Better outcome at week 48 but also more side effects
- No detectable difference in radiographic disease progression
- No difference between the subforms but underpowered
- One strategy for all to be further defined
- Currently little evidence for cost effectiveness

EXTENDED REPORT

Anti-TNF-induced remission in very early peripheral spondyloarthritis: the CRESPA study

Philippe Carron,1 Gaëlle Varkas,1,2 Heleen Cypers,1,2 Liesbet Van Praet,1 Dirk Elewaut,1,2 Filip Van den Bosch,1 on behalf of the CRESPA investigator group



Primary outcome: percentage of patients in clinical remission after 12 and 24 weeks in the placebo and golimumab group, respectively.

Philippe Carron et al. Ann Rheum Dis 2017;76:1389-1395

Residual disease activity in psoriatic arthritis: discordance between the rheumatologist's opinion and minimal disease activity measurement

- cross-sectional study included 250 PsA patients
- Rheumatologists to refer those patients whom they considered sufficiently treated
- One-third of the PsA patients with acceptable disease state according to the treating rheumatologist did not fulfil the MDA criteria
- Had residual disease activity on both subjective and objective disease activity measurements

The Development of Psoriatic Arthritis in Patients With Psoriasis Is Preceded by a Period of Nonspecific Musculoskeletal Symptoms A Prospective Cohort Study

Lihi Eder,1 Ari Polachek,2 Cheryl F. Rosen,3 Vinod Chandran,3 Richard Cook,4 and Dafna D. Gladman3

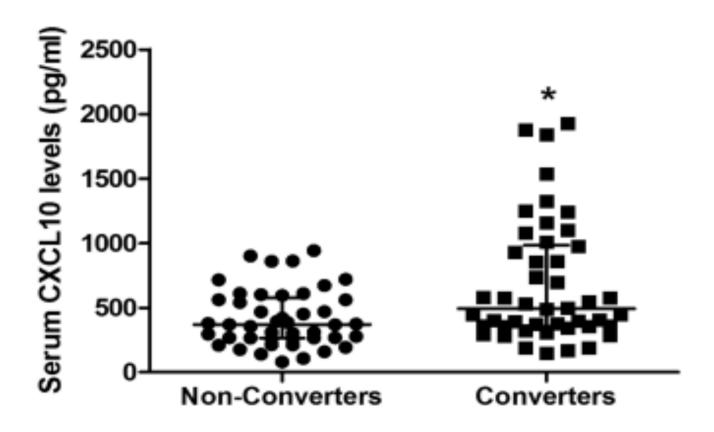
- 57/410 developed PsA over 8 years
- Baseline
- 1. Arthralgia
- 2. Heel pain
- 3. High fatigue
- 4. High stiffness
- Intercurrent
- 1. Increase in pain
- 2. Increase in stiffness
- 3. Increase in fatigue

Performance of screening tools for PsA: a cross-sectional study in primary care

- Psoriasis Epidemiology Screening Tool (PEST), Psoriatic Arthritis Screening and Evaluation (PASE) and Early Arthritis for Psoriatic Patients (EARP) questionnaires
- PEST most favourable trade-off between sensitivity and specificity
- Prevalence of psoriasis and PsA low in primary care
- Screening only psoriasis patients with musculoskeletal complaints may be a better allocation of resources

CXCL10 Is a Possible Biomarker for the Development of Psoriatic Arthritis Among Patients With Psoriasis

Fatima Abji,1 Remy A. Pollock,1 Kun Liang,2 Vinod Chandran,3 and Dafna D. Gladman3



CONCERNS

Suicidal ideation

- Warning for apremilast
- Development of brodalumab halted
- Overall mortality and cause-specific mortality risk were not elevated among patients with PsA except for suicide deaths

Ogdie et al. Rhematology 2017;56(6):907-911

 The risk of depression, but not suicidal ideation or suicide atempt, was significantly increased in patients with psoriasis, PsA and AS

Wu et al. J Eur Acd Dermatol Venereol 2017 E-pub

Cardiovascular risk

 Overall mortality and cause-specific mortality risk were not elevated among patients with PsA except for suicide deaths

Ogdie et al. Rhematology 2017;56(6):907-911

 Increased prevalence of coronary plaque in patients with psoriatic arthritis without prior diagnosis of coronary artery disease

Shen et al. ARD 2017 E-pub

 Patients with PsA had a small but significant increase in death due to diseases of the circulatory system compared with the general population

Juneblad et al. J Rheumatology 2016;43(12):2155-2161

Interventions

- Gastric bypass was associated with a significantly reduced risk and improved prognosis of psoriasis and PsA, whereas gastric banding was not
- This finding may be caused by the postoperative differences in nutrient intake and/or weight loss as well as differences in the secretion of hormones that potentially modulate inflammation

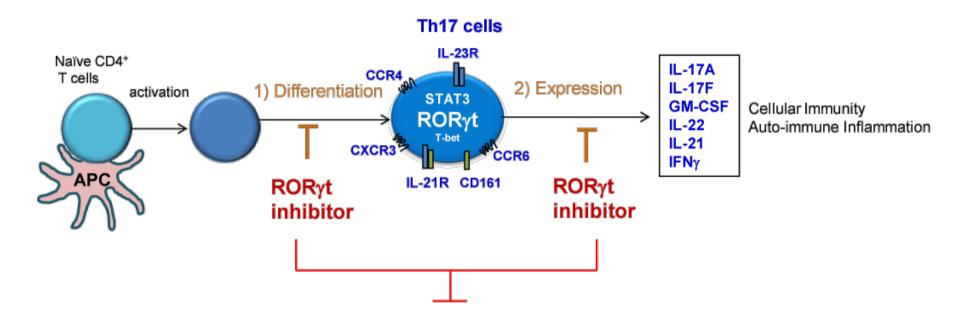
Enberg et al. JAMA Surgery 2017;152(4):344-349

 Obesity associated with higher disease activity and seemed to diminish response and adherence to TNFIs in PsA (DANBIO & ICEBIO) Cancer risk in patients with spondyloarthritis treated with TNF inhibitors: a collaborative study from the ARTIS and DANBIO registers

- 8703 (ARTIS=5448, DANBIO=3255) patients with SpA initiating a first TNFi 2001-2011 a TNFi-naive SpA cohort (n=28,164) and a Swedish age-matched and sex-matches general population comparator cohort (n=131687)
- 1188 cancers among the TNFi-naive patients with SpA
- RR of cancer overall was 1.1 (95% CI 0.7 to 1.0)
- Based on 157 cancers among TNFi with SpA, RR versus TNFinaïve was 0.8 (95% Cl 0.7 to 1.0)
- Results were similar for AS and PsA when analysed separately

FUTURE

New Attractive Targets

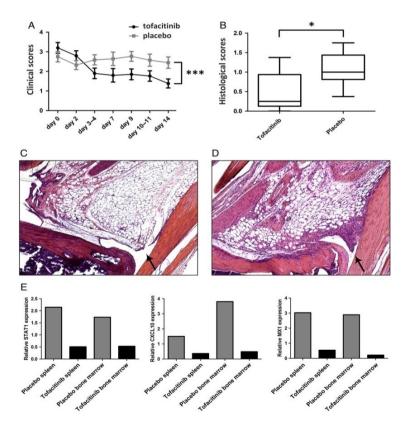


- Psoriasis
- Rheumatoid Arthritis
- Psoriatic Arthritis
- Multiple Sclerosis
- IBD
- Ankylosing spondylitis
- COPD

- Glomerulonephritis
- Autoimmune Myocarditis
- Hashimoto Thyroiditis
- Dry Eye
- Uveitis
- Behcet's disease
- Certain types of cancers
- Sjögren's syndrome

A20 inhibition of STAT1 expression in myeloid cells: a novel endogenous regulatory mechanism preventing development of enthesitis

Katelijne De Wilde, Anne Martens et al



Thank you