



Ρευματοειδής αρθρίτιδα και σπονδυλοαρθροπάθειες Κλινική έρευνα

Εαρινές Ημέρες Ρευματολογίας
Καλαμάτα, Ιούνιος 2019

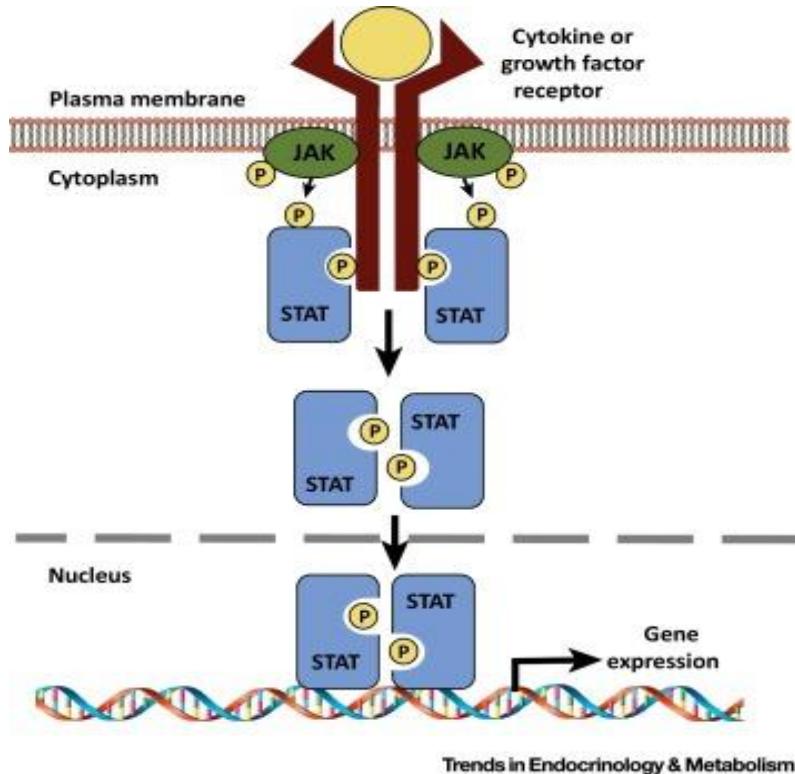


Δαούσης Δημήτρης
Αναπλ. καθηγητής Παθολογίας/Ρευματολογίας
Ιατρική Σχολή Πανεπιστημίου Πατρών

Μεθοδολογία

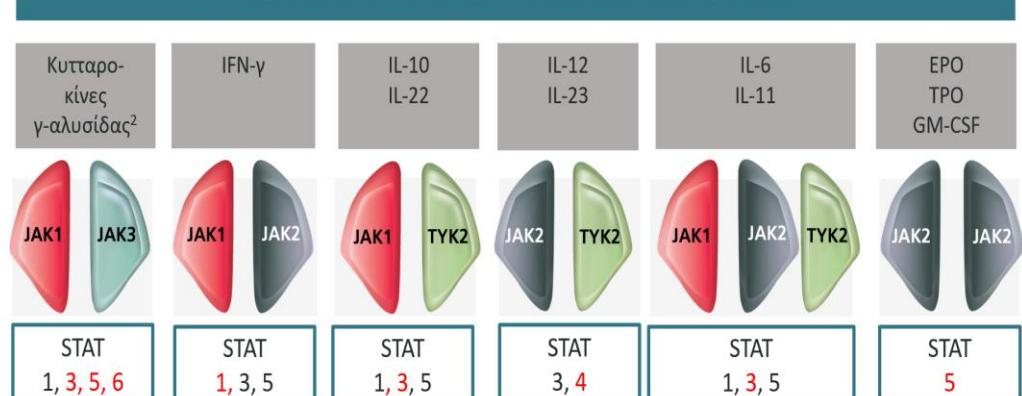
- PubMed
 - Rheumatoid arthritis
 - Clinical trials
 - 3/2018-2019
 - 108 results
- Spondyloarthritis
 - 30 results

Jakinibs-Μια καινούργια θεραπευτική κατηγορία με ταχεία εξέλιξη



- Υπάρχουν τέσσερα μέλη της οικογένειας JAK: JAK1, JAK2, JAK3, και TYK2

Παράδειγμα κυτταροκινών που σηματοδοτούν μέσω συνδυασμών JAK/STAT¹⁻³

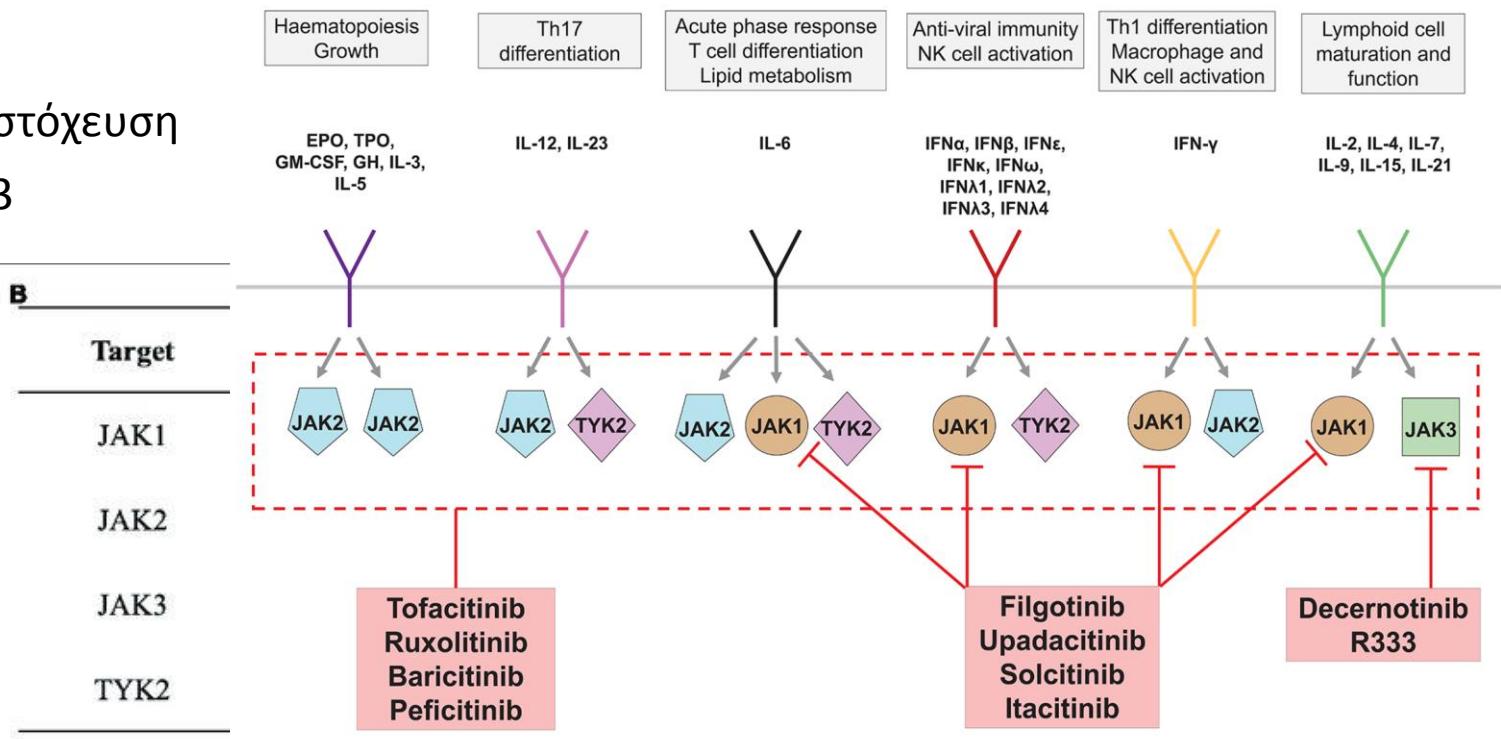
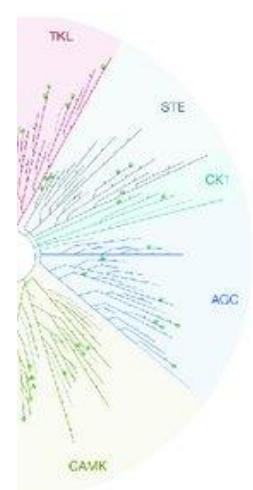


Κόκκινο = επικρατέστερες STAT

Η μελλοντική έρευνα μπορεί να βοηθήσει στην πρόβλεψη επιδράσεων της αναστολής JAK σε διαφορετικούς ασθενείς και να επιτρέψει στους γιατρούς να λαμβάνουν τεκμηριωμένες αποφάσεις σχετικά με το ποιο ζεύγος JAK πρέπει να στοχεύουν σε κάθε ασθενή⁴

Next generation jakinibs

- Εκλεκτική στόχευση
Jak1 ή Jak3



Selective vs non-selective jakinibs

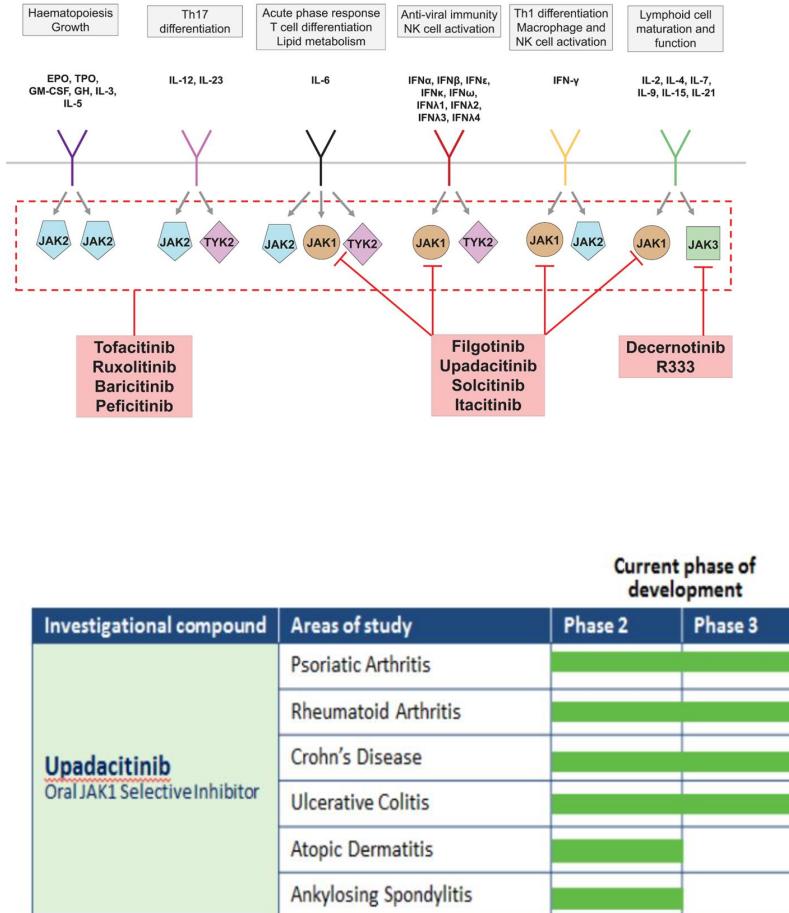


Figure. Upadacitinib Clinical Trials

Source: ClinicalTrials.gov.

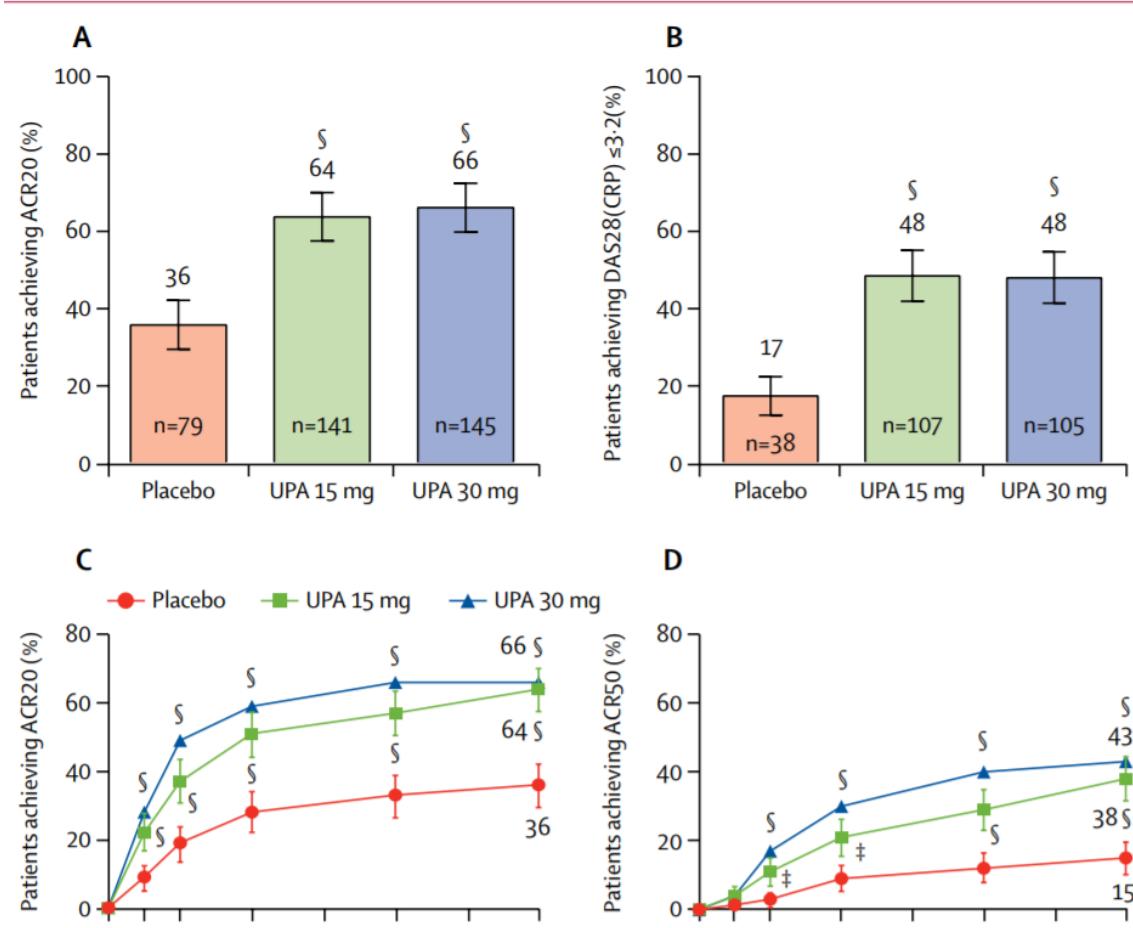
- Θεωρητικά η εκλεκτική στόχευση θα βελτίωνε την ασφάλεια και θα περιόριζε το εύρος ενδείξεων
- Στην πράξη όμως δεν φάνηκε σαφές όφελος όσον αφορά την ασφάλεια
- Μάλλον δεν περιορίζεται ιδιαίτερα το φάσμα ενδείξεων
- Όλα δοκιμάζονται σε όλα!!!

Safety and efficacy of upadacitinib in patients with rheumatoid arthritis and inadequate response to conventional synthetic disease-modifying anti-rheumatic drugs (SELECT-NEXT): a randomised, double-blind, placebo-controlled phase 3 trial



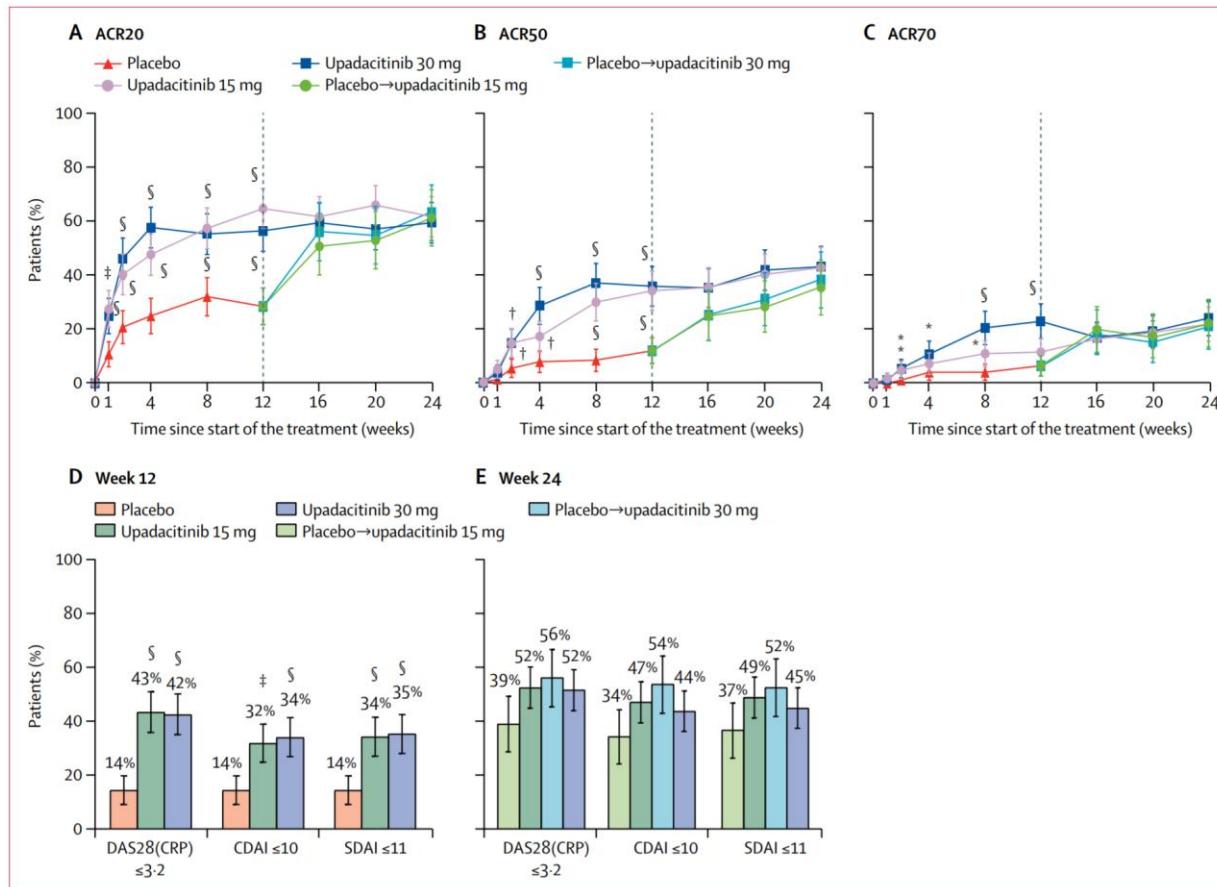
Gerd R Burmester, Joel M Kremer, Filip Van den Bosch, Alan Kivitz, Louis Bessette, Yihan Li, Yijie Zhou, Ahmed A Othman, Aileen L Pangan, Heidi S Camp

-



Safety and efficacy of upadacitinib in patients with active rheumatoid arthritis refractory to biologic disease-modifying anti-rheumatic drugs (SELECT-BEYOND): a double-blind, randomised controlled phase 3 trial

Mark C Genovese, Roy Fleischmann, Bernard Combe, Stephen Hall, Andrea Rubbert-Roth, Ying Zhang, Yijie Zhou, Mohamed-Eslam F Mohamed, Sebastian Meerwein, Aileen L Pangan

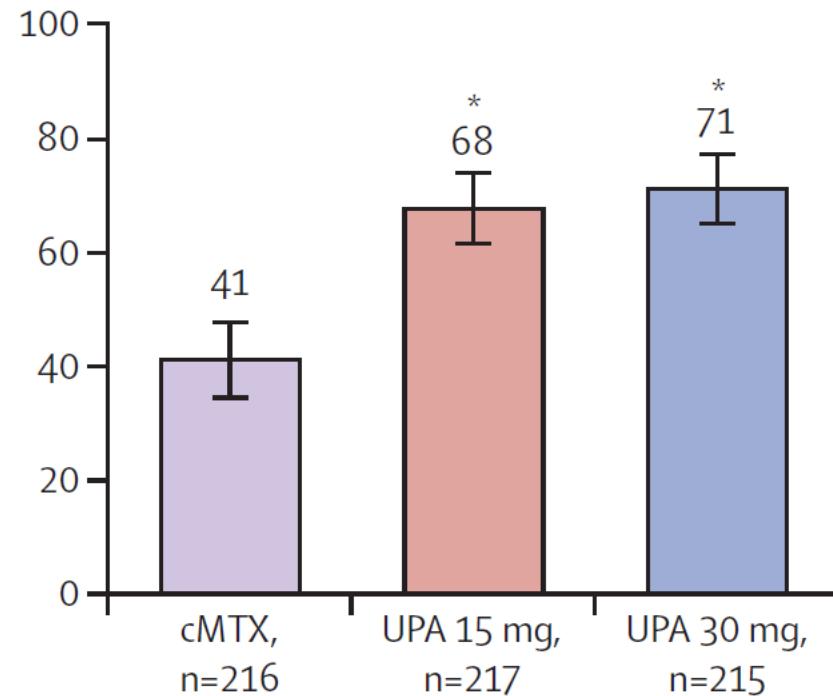


Upadacitinib as monotherapy in patients with active rheumatoid arthritis and inadequate response to methotrexate (SELECT-MONOTHERAPY): a randomised, placebo-controlled, double-blind phase 3 study

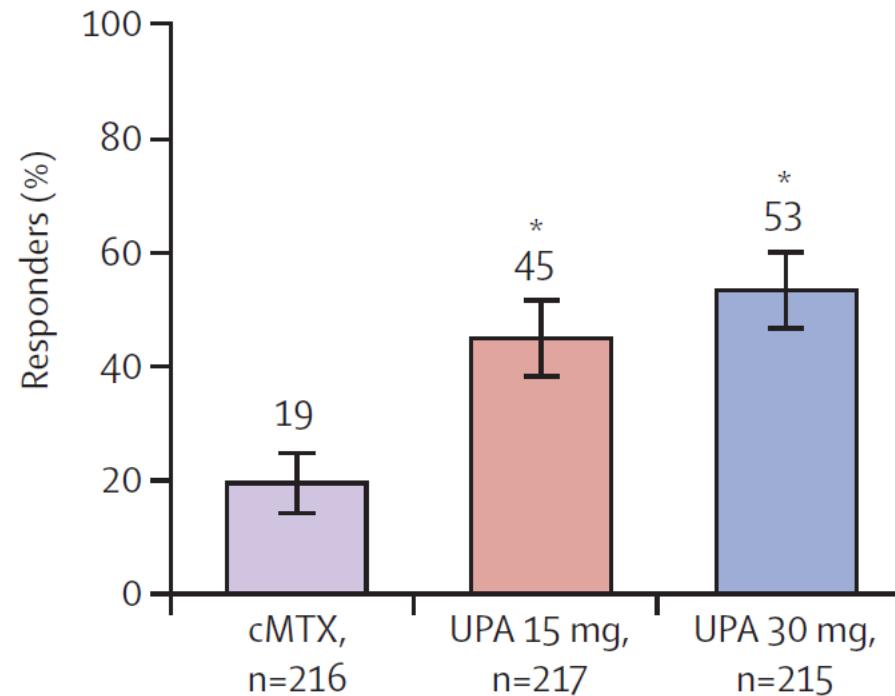


Josef S Smolen, Aileen L Pangan, Paul Emery, William Rigby, Yoshiya Tanaka, Juan Ignacio Vargas, Ying Zhang, Nemanja Damjanov, Alan Friedman, Ahmed A Othman, Heidi S Camp, Stanley Cohen

A ACR20



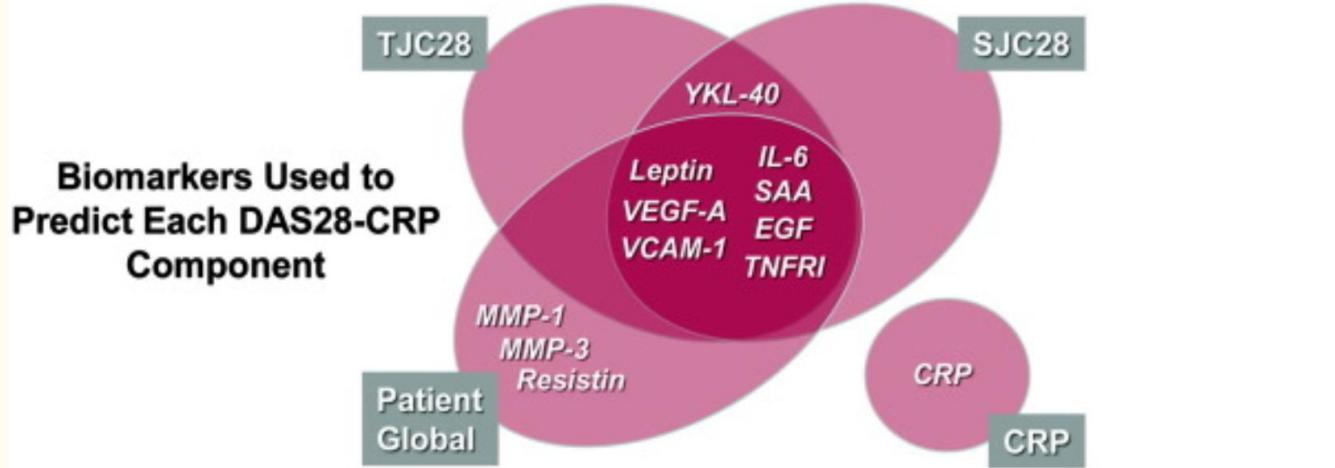
B DAS28-(CRP) ≤ 3.2



Predictive value of a multi-biomarker disease activity score for clinical remission and radiographic progression in patients with early rheumatoid arthritis: a post-hoc study of the OPERA trial

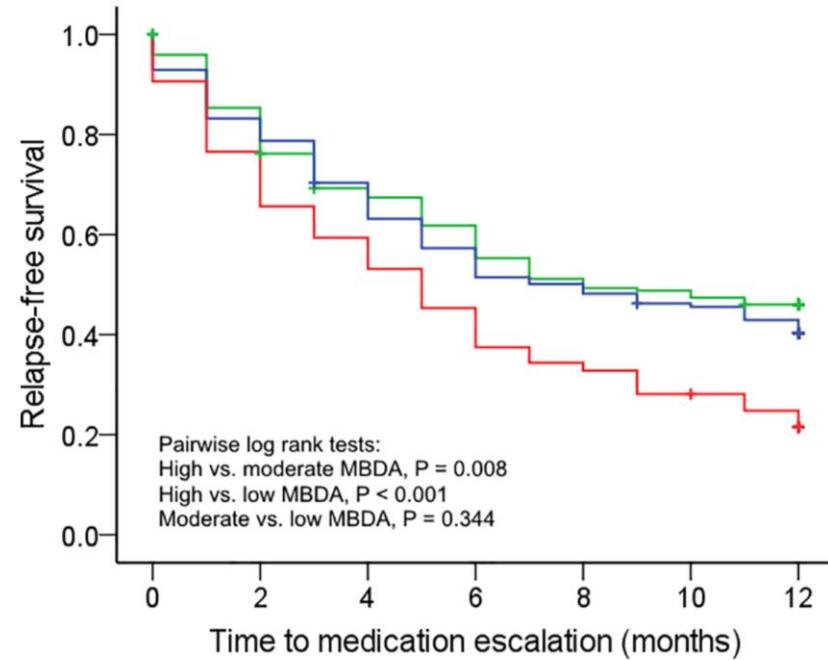
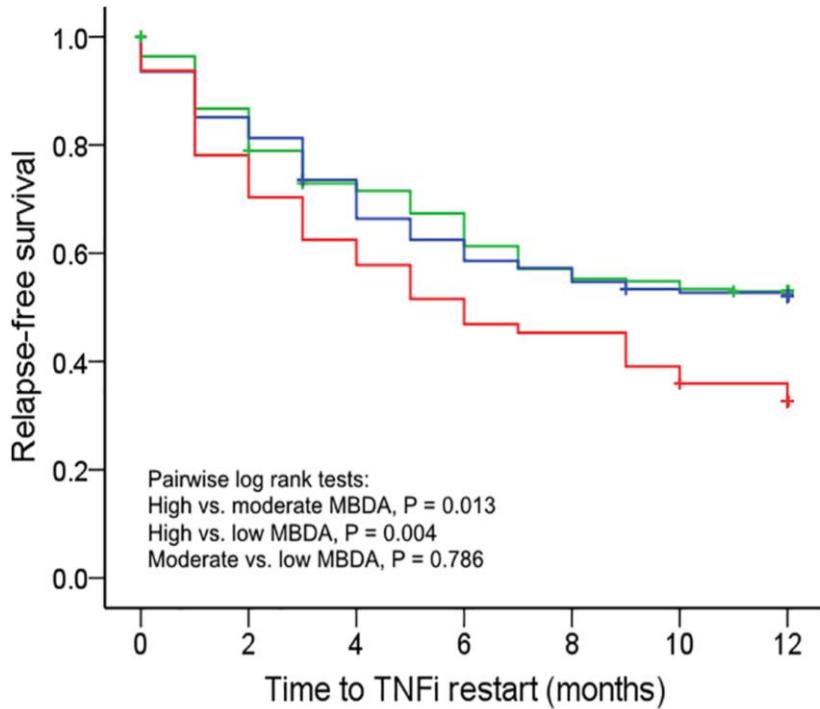
$$\text{DAS28-CRP} = 0.56\sqrt{\text{TJC}} + 0.28\sqrt{\text{SJC}} + 0.14\text{PG} + 0.36\log(\text{CRP} + 1) + 0.96$$

$$\text{MBDA Score} = (0.56\sqrt{\text{PTJC}} + 0.28\sqrt{\text{PSJC}} + 0.14\text{PPG} + 0.36\log[\text{CRP} + 1] + 0.96) \times 10.53 + 1$$



RESEARCH ARTICLE

Multi-biomarker disease activity score as a predictor of disease relapse in patients with rheumatoid arthritis stopping TNF inhibitor treatment





This Issue

Views 3,633

Citations 1

Altmetric 68



Original Investigation

February 5, 2019

More ▾

Effect of Magnetic Resonance Imaging vs Conventional Treat-to-Target Strategies on Disease Activity Remission and Radiographic Progression in Rheumatoid Arthritis

The IMAGINE-RA Randomized Clinical Trial

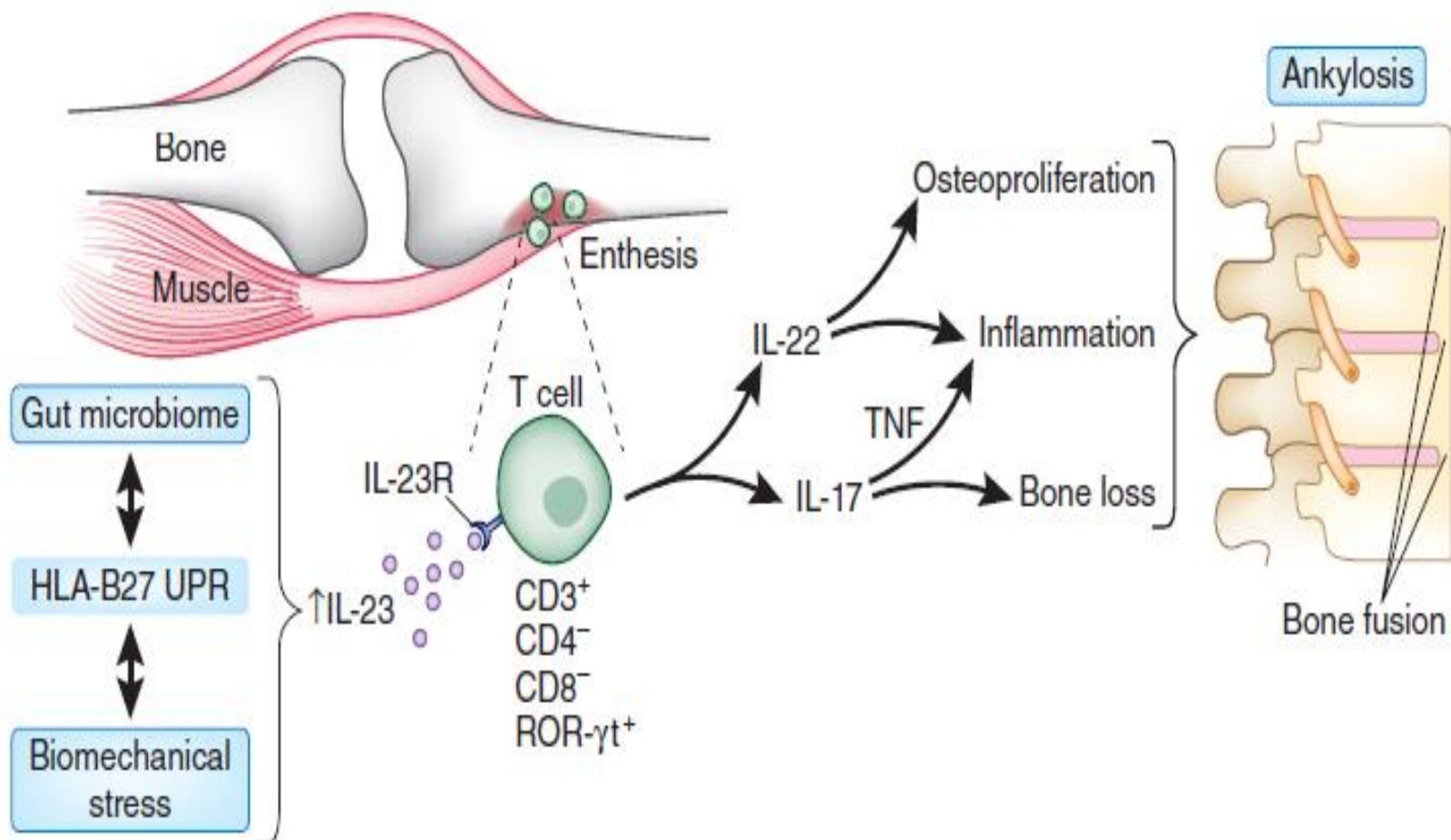
Signe Møller-Bisgaard, MD, PhD^{1,2}; Kim Hørslev-Petersen, MD, DMSc³; Bo Ejbjerg, MD, PhD^{1,4}; *et al*

[» Author Affiliations](#)

JAMA. 2019;321(5):461-472. doi:10.1001/jama.2018.21362

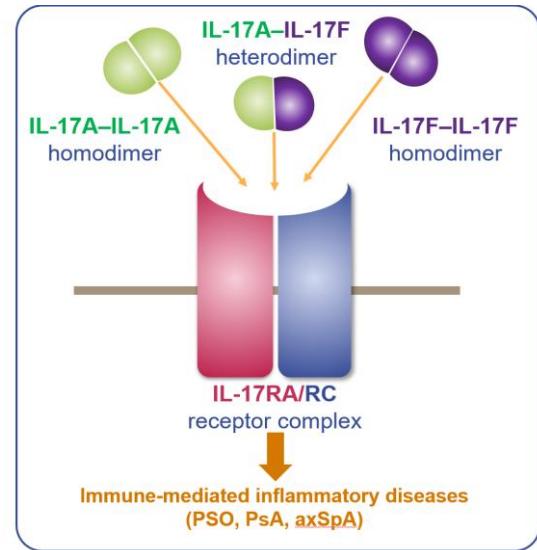
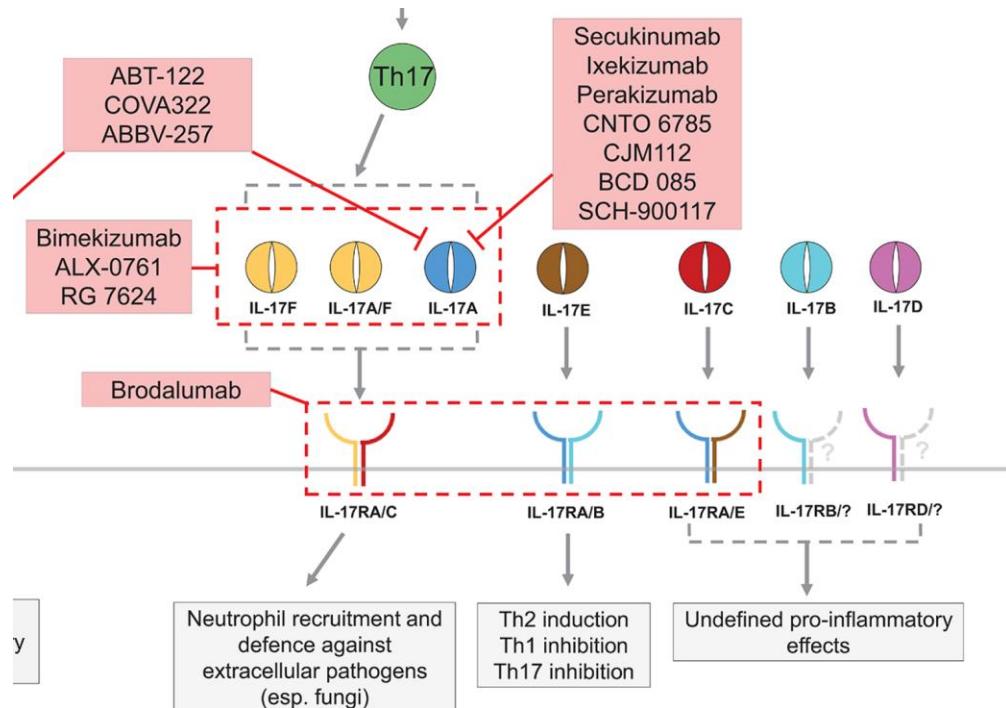
Conclusions and Relevance Among patients with RA in clinical remission, an MRI-guided treat-to-target strategy compared with a conventional treat-to-target strategy did not result in improved disease activity remission rates or reduce radiographic progression. These findings do not support the use of an MRI-guided strategy for treating patients with RA.

ΣΠΑ. Στοχεύοντας τον άξονα IL-23/IL-17



Katie Vicari

Νεότεροι αναστολείς IL-17 Η IL-17 δεν είναι ένα μόριο....



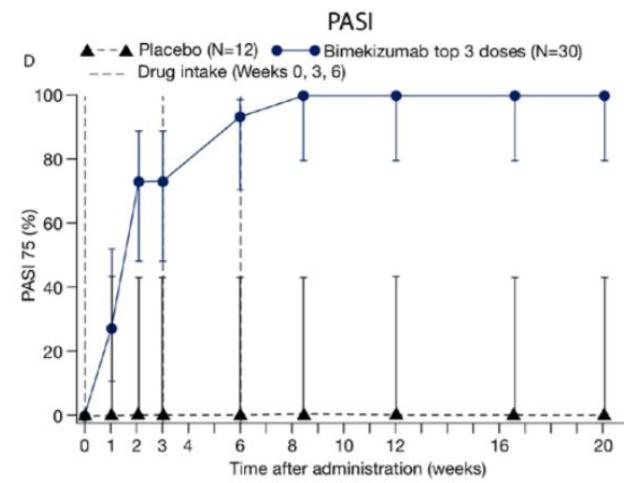
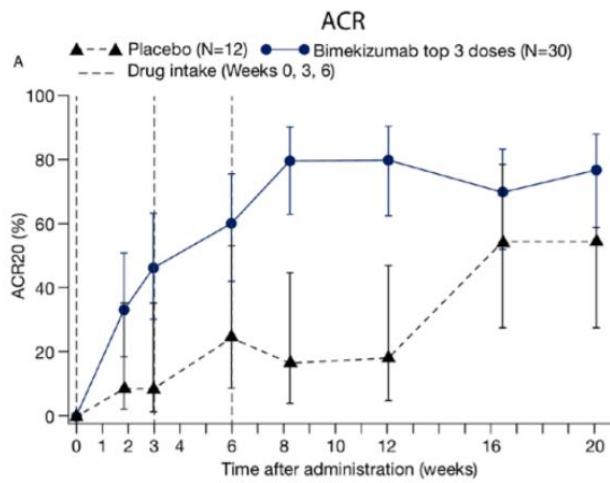
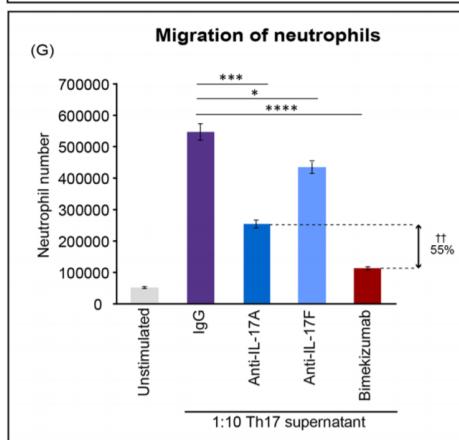
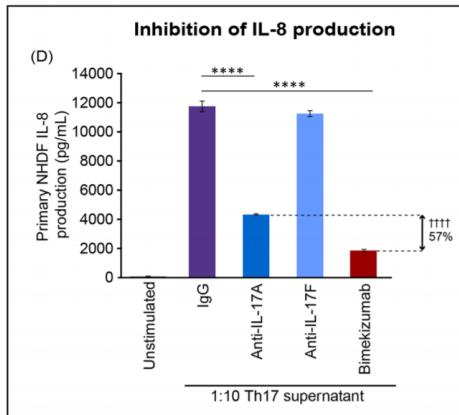
Bimekizumab
Inhibitor of IL-17A/F
Αποτελεσματικό σε όλο το φάσμα ΣΠΑ



OPEN ACCESS

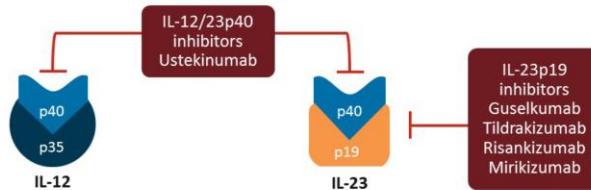
EXTENDED REPORT

Dual IL-17A and IL-17F neutralisation by bimekizumab in psoriatic arthritis: evidence from preclinical experiments and a randomised placebo-controlled clinical trial that IL-17F contributes to human chronic tissue inflammation



Επικεντρώνοντας στην IL-23....

Difference Between Ustekinumab (IL-12/
IL-23p40 Inhibitor) and IL-23p19 Inhibitors



Machado A, et al. *Psoriasis (Auckl)*. 2018;8:83-92.



Η αναστολή της IL-12
δεν φαίνεται να
προσφέρει κάτι

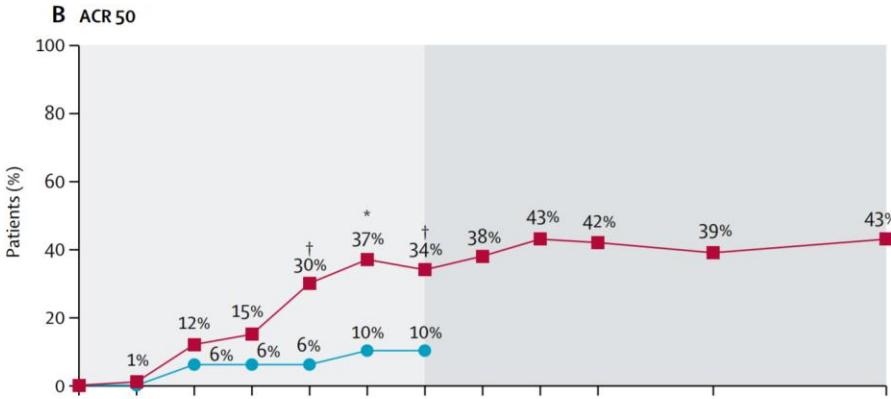
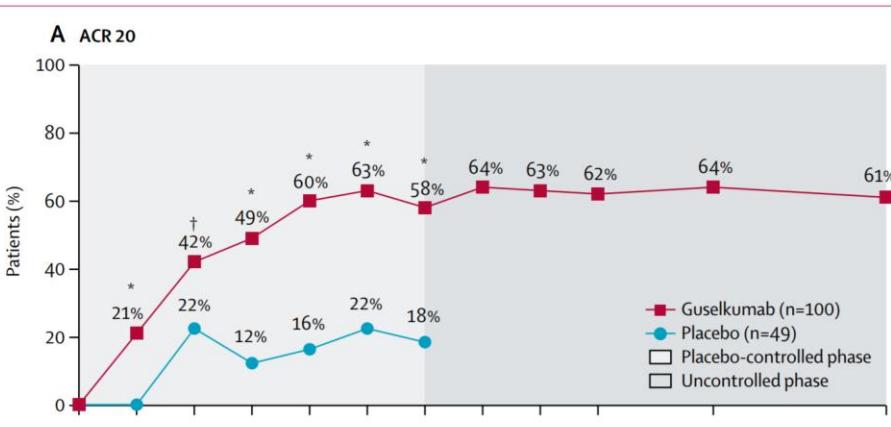
IL-23 Inhibitors in Moderate-to-Severe Psoriasis -- Approved and in Latest Development Stages

Agent ^[a]	Mode of action	Dosing ^[b]	EMA approval
Ustekinumab	IL-12/IL-23p40 inhibitor	45/90 mg (weight ≤ 100 kg/> 100 kg) at W0, W4, and then every 12 weeks	Yes
Guselkumab	IL-23p19 inhibitor	100 mg at W0, W4, and then every 8 weeks	Yes
Tildrakizumab	IL-23p19 inhibitor	100 and 200 mg (weight ≤ 90 kg and > 90 kg) at W0, W4, and then every 12 weeks	Yes
Risankizumab	IL-23p19 inhibitor	90/180 mg at W0, W4, and then every 12 weeks	Pre-approval
Mirikizumab ^[b]	IL-23p19 inhibitor	30/100/300 mg at W0 and W8 ^[c]	Phase 3

Efficacy and safety of guselkumab in patients with active psoriatic arthritis: a randomised, double-blind, placebo-controlled, phase 2 study



Atul Deodhar*, Alice B Gottlieb*, Wolf-Henning Boehncke, Bin Dong, Yuhua Wang, Yanli Zhuang, William Barchuk, Xie L Xu, Elizabeth C Hsia, on behalf of the CNT01959PSA2001 Study Group



PASI75	6/48 (13%)	77/98 (79%)
PASI50	14/48 (29%)	85/98 (87%)
PASI90	3/48 (6%)	65/98 (66%)
PASI100	3/48 (6%)	39/98 (40%)

Οι εκλεκτικοί αναστολείς της IL-23 δεν δουλεύουν στην αξονική ΣΠΑ

 Article Text

 Article info

 Citation Tools

Clinical and epidemiological research



Risankizumab, an IL-23 inhibitor, for ankylosing spondylitis: results of a randomised, double-blind, placebo-controlled, proof-of-concept, dose-finding phase 2 study 

Dominique Baeten¹, Mikkel Østergaard^{2, 3}, James Cheng-Chung Wei^{4, 5}, Joachim Sieper⁶, Pentti Järvinen⁷, Lai-Shan Tam⁸, Carlo Salvarani^{9, 10}, Tae-Hwan Kim¹¹, Alan Solinger¹², Yakov Datsenko¹³, Chandrasena Pamulapati¹², Sudha Visvanathan¹², David B Hall¹², Stella Aslanyan¹², Paul Scholl¹², Steven J Padula¹⁴

Διαφορές μεταξύ φαρμάκων που δρουν στον ίδιο άξονα

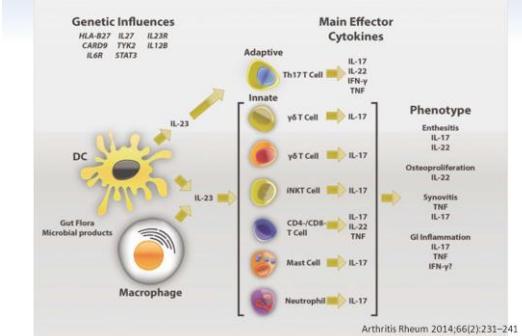
IL12/23 and IL-23 inhibitors

- Psoriasis
- PsA-Peripheral SpA
- AS, Axial SpA
- IBD
- uveitis

IL-17 inhibitors

- Psoriasis
- PsA-Peripheral SpA
- AS, Axial SpA
- IBD
- uveitis

The IL-23/IL-17 axis in SpA



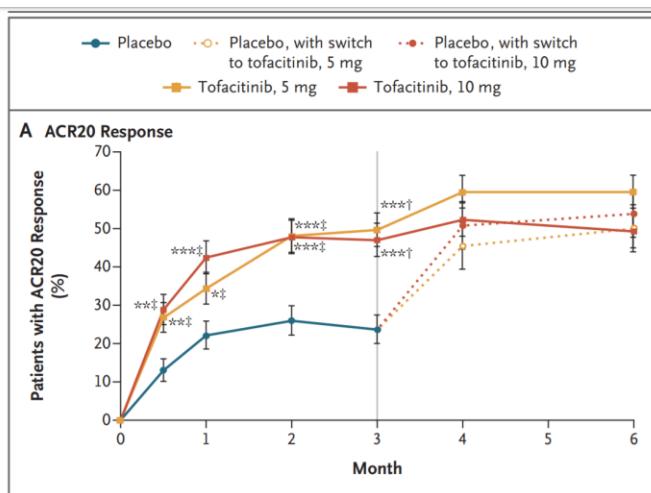
Jakinibs και στις ΣΠΑ

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Tofacitinib for Psoriatic Arthritis in Patients with an Inadequate Response to TNF Inhibitors

Dafna Gladman, M.D., William Rigby, M.D., Valderilio F. Azevedo, M.D., Ph.D., Frank Behrens, M.D., Ricardo Blanco, M.D., Andrzej Kaszuba, M.D., Ph.D., Elizabeth Kudlacz, Ph.D., Cunshan Wang, Ph.D., Sujatha Menon, Ph.D., Thijs Hendrikx, Ph.D., and Keith S. Kanik, M.D.



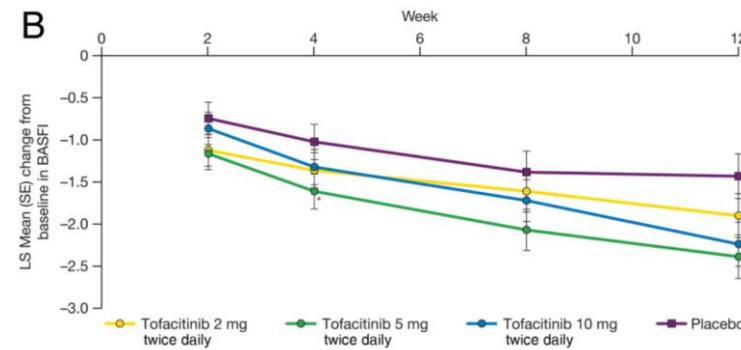
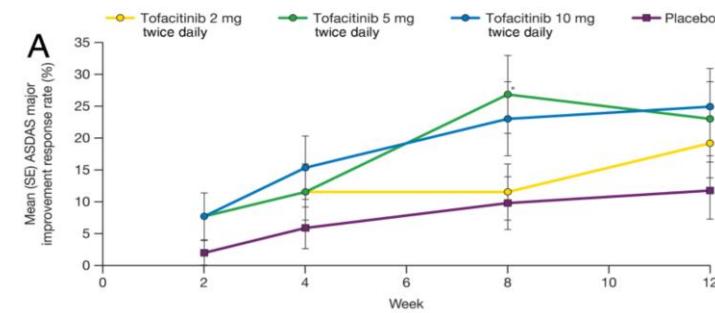
ARD Online First, published on January 27, 2017 as 10.1136/annrheumdis-2016-210322
Clinical and epidemiological research



EXTENDED REPORT

Tofacitinib in patients with ankylosing spondylitis: a phase II, 16-week, randomised, placebo-controlled, dose-ranging study

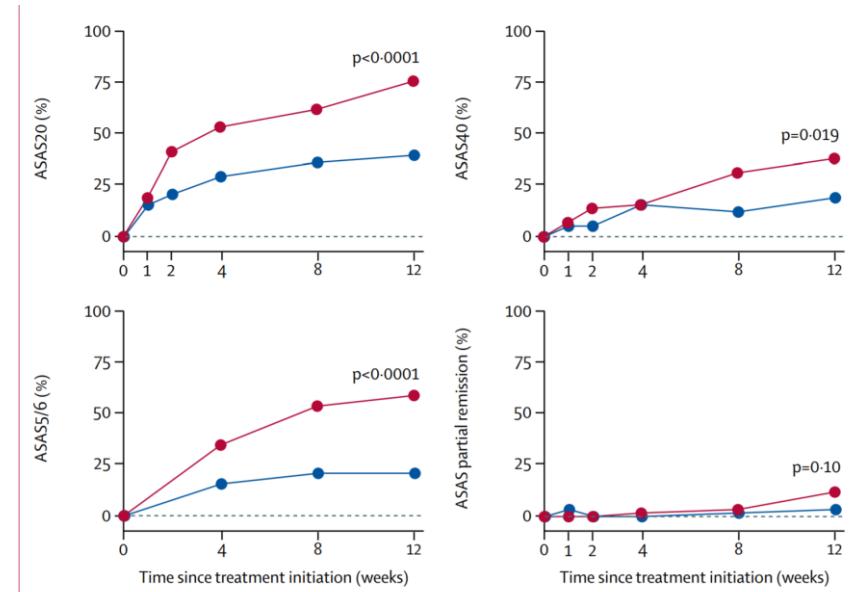
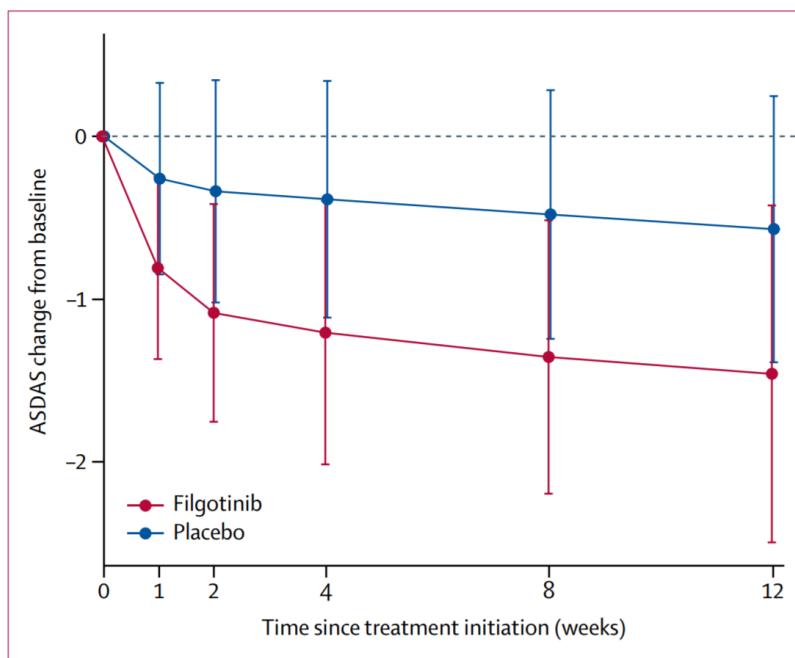
Désirée van der Heijde,¹ Atul Deodhar,² James C Wei,³ Edit Drescher,⁴ Dona Fleishaker,⁵ Thijs Hendrikx,⁶ David Li,⁶ Sujatha Menon,⁵ Keith S Kanik⁵



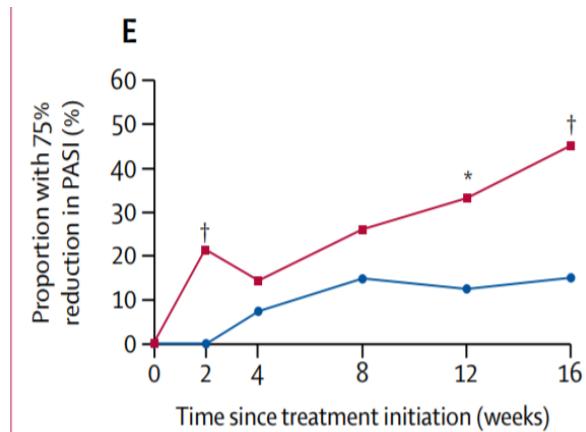
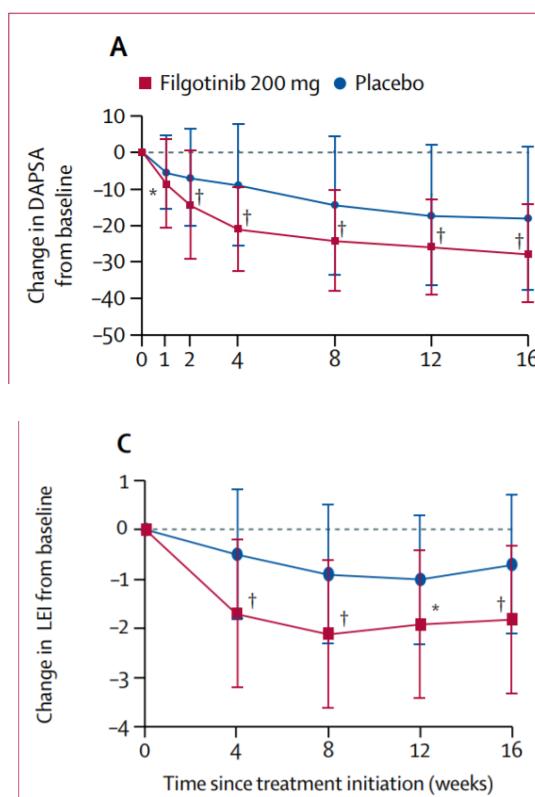
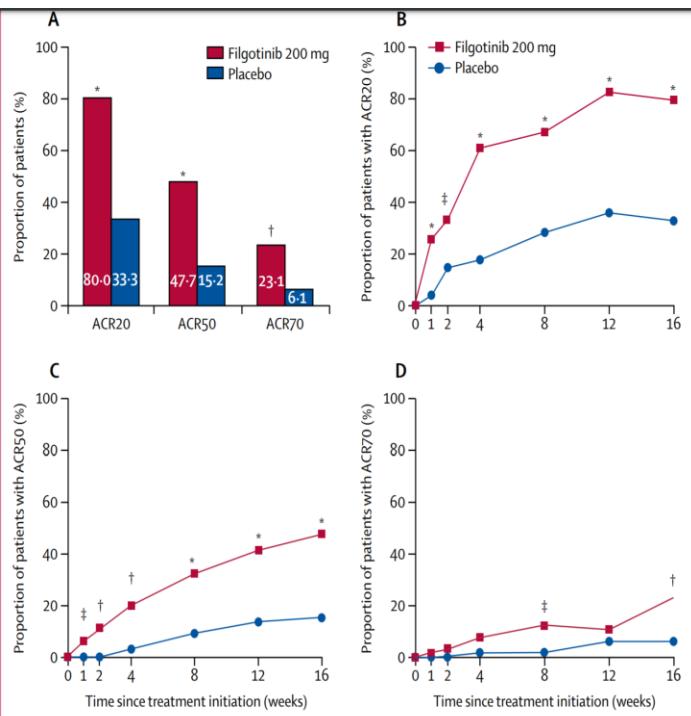


Efficacy and safety of filgotinib, a selective Janus kinase 1 inhibitor, in patients with active ankylosing spondylitis (TORTUGA): results from a randomised, placebo-controlled, phase 2 trial

Désirée van der Heijde, Xenofon Baraliakos, Lianne S Gensler, Walter P Maksymowych, Vira Tseluyko, Oleg Nadashkevich, Walid Abi-Saab, Chantal Tasset, Luc Meulenens, Robin Besuyen, Thijs Hendrikx, Neelufar Mozaffarian, Ke Liu, Joy M Greer, Atul Deodhar, Robert Landewé



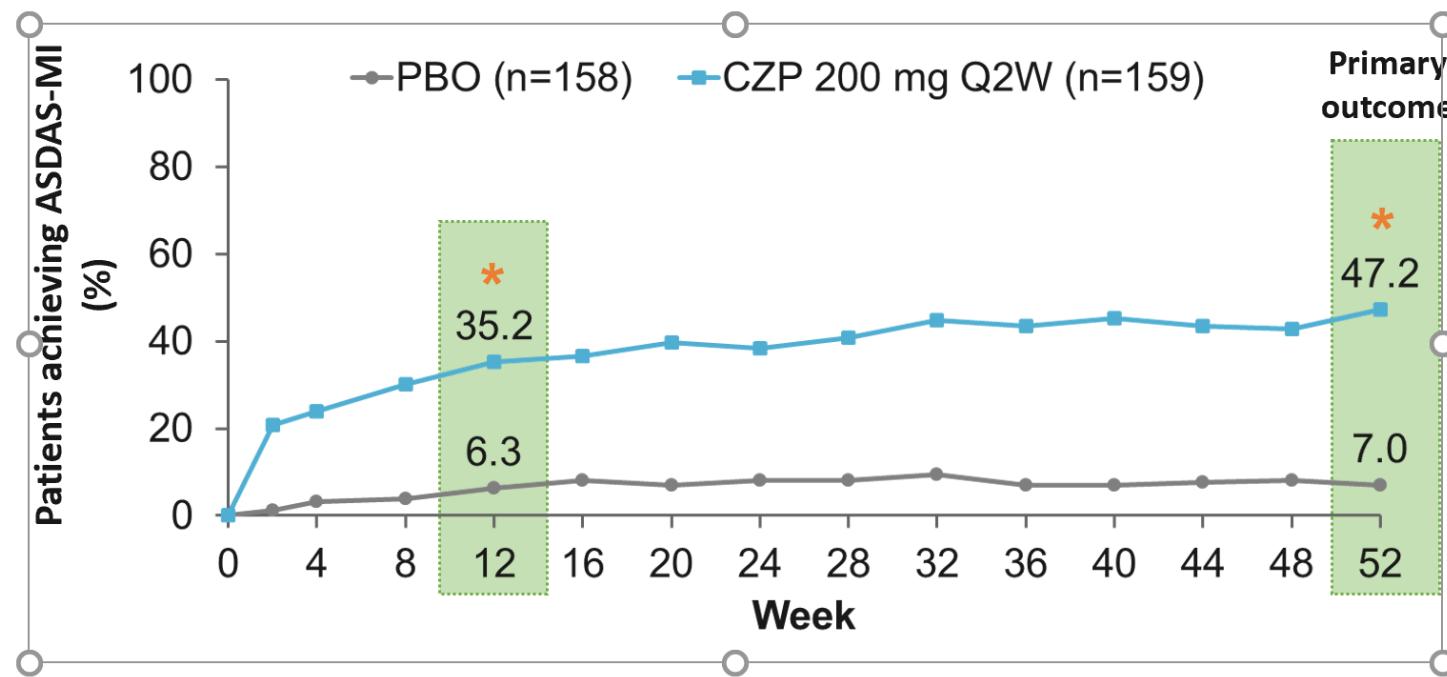
Efficacy and safety of filgotinib, a selective Janus kinase 1 inhibitor, in patients with active psoriatic arthritis (EQUATOR): results from a randomised, placebo-controlled, phase 2 trial



Nr-AxSpA

A 52-Week Randomized Placebo-Controlled Trial of Certolizumab Pegol in Non-Radiographic Axial Spondyloarthritis

Primary Outcome: ASDAS-MI at Week 52



An aerial photograph of the Rio-Antirrio cable-stayed bridge spanning the Gulf of Corinth in Greece. The bridge features two tall pylons and multiple stay cables supporting a long roadway. In the foreground, a small, ancient stone fortification sits on a peninsula. The deep blue water of the gulf stretches to a range of mountains in the background under a clear sky.

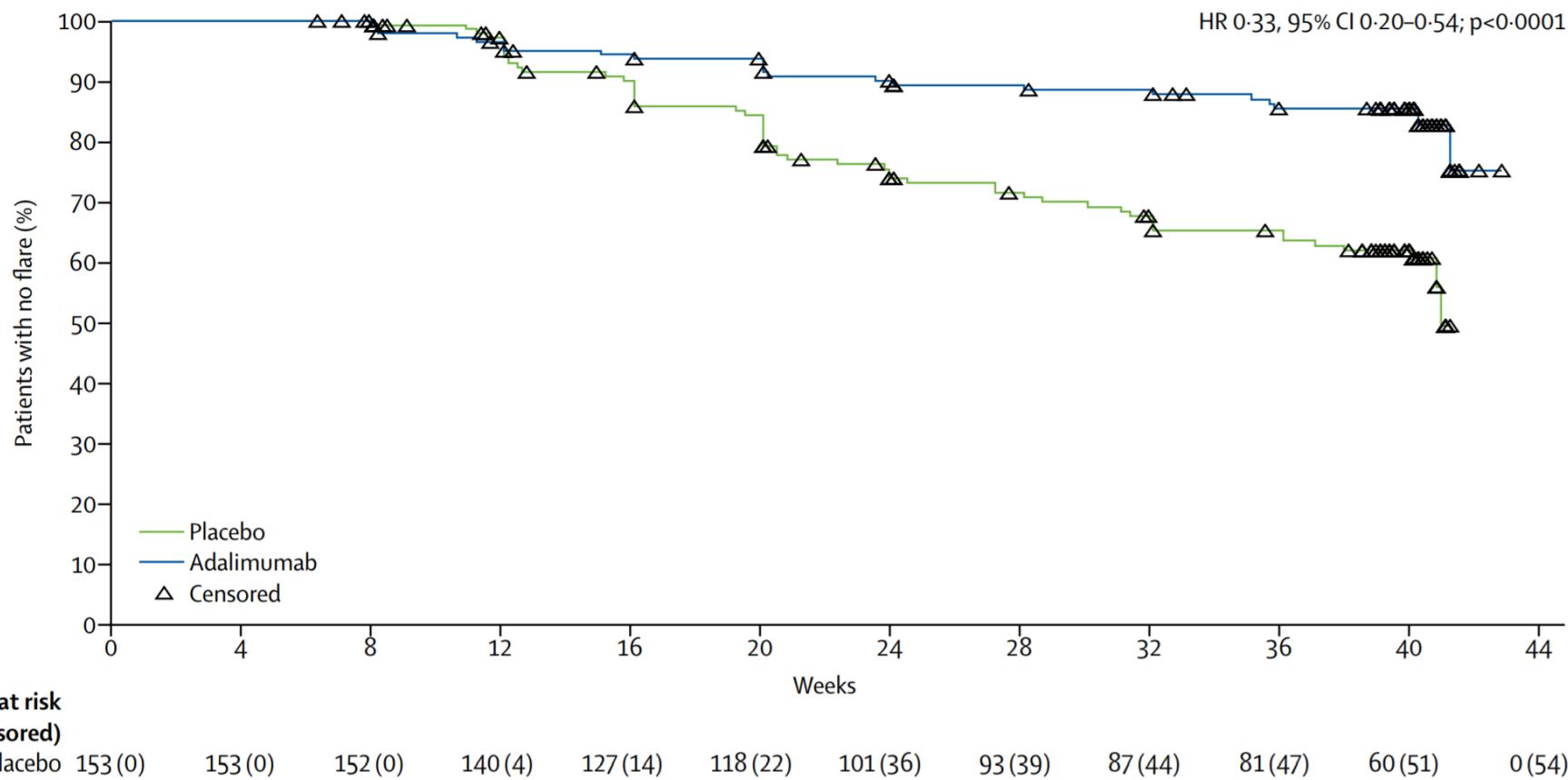
ευχαριστώ!

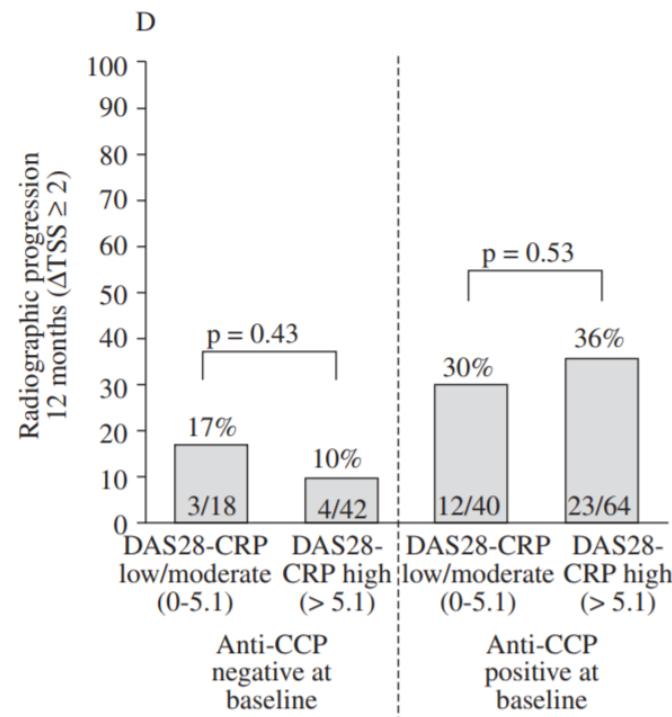
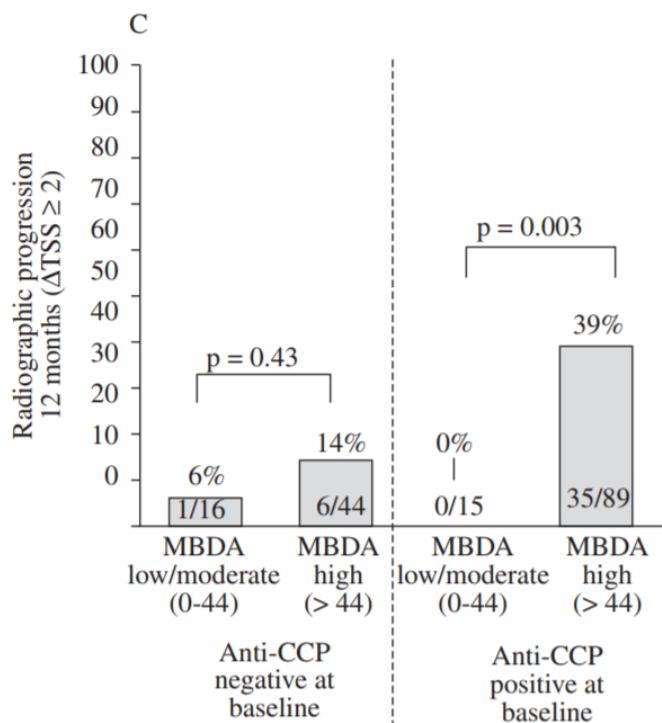
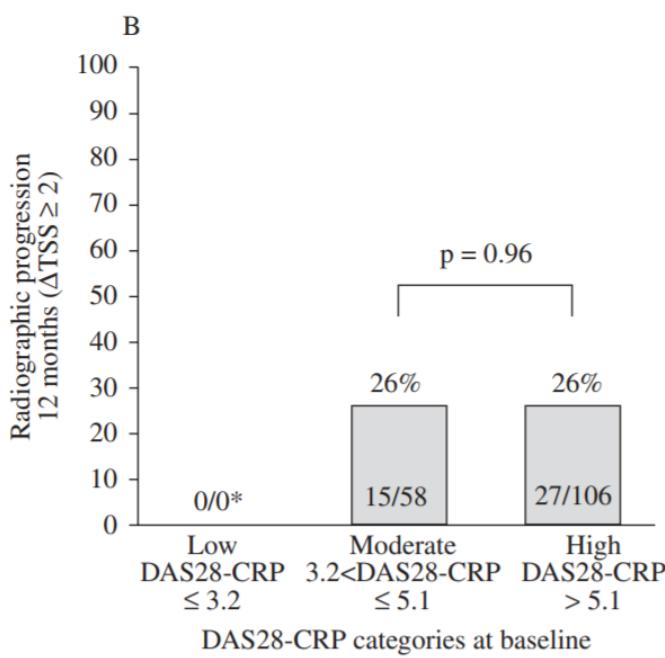
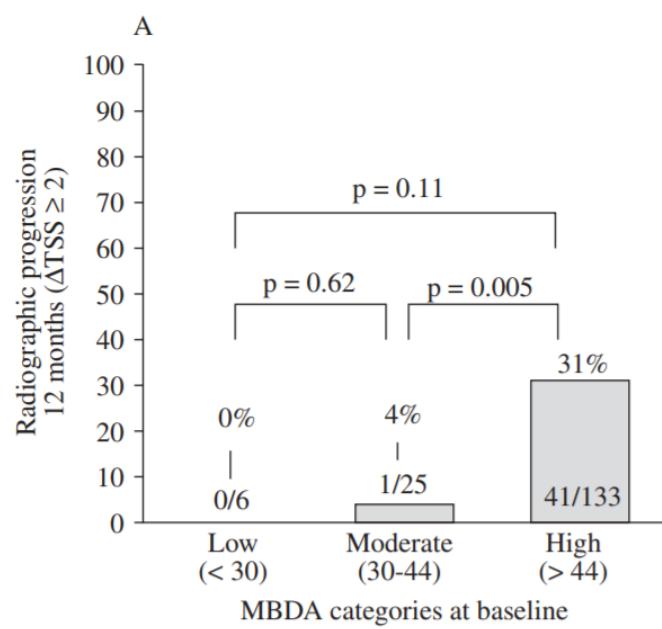
Email: jimdaoussis@hotmail.com



Efficacy and safety of continuing versus withdrawing adalimumab therapy in maintaining remission in patients with non-radiographic axial spondyloarthritis (ABILITY-3): a multicentre, randomised, double-blind study

Robert Landewé, Joachim Sieper, Philip Mease, Robert D Inman, Robert G Lambert, Atul Deodhar, Helena Marzo-Ortega, Marina Magrey, Uta Kiltz, Xin Wang, Mei Li, Sheng Zhong, Nael M Mostafa, Apinya Lertratanakul, Aileen L Pangan, Jaclyn K Anderson





Concise report

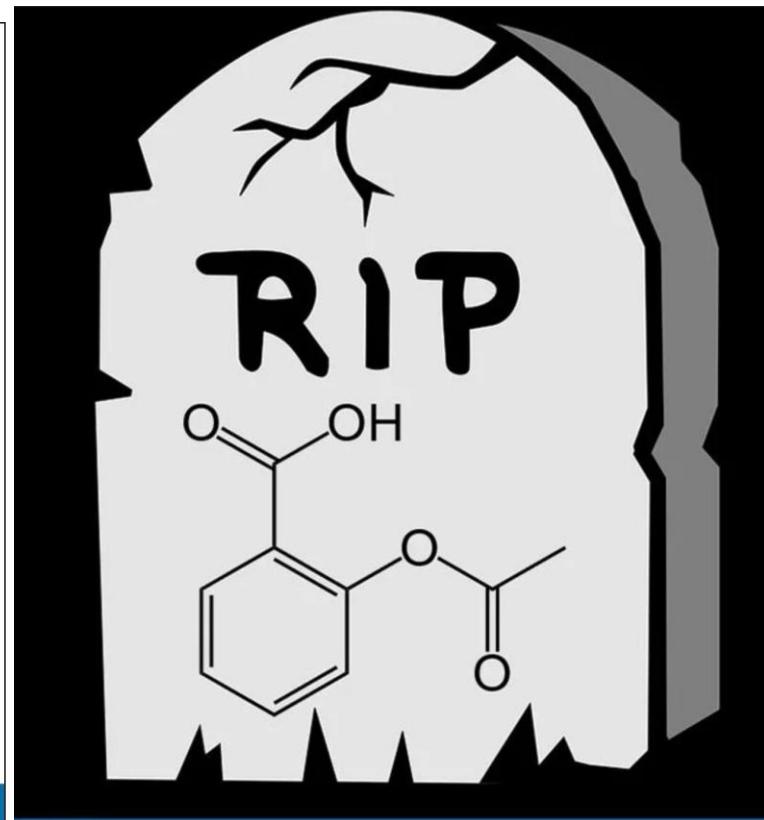
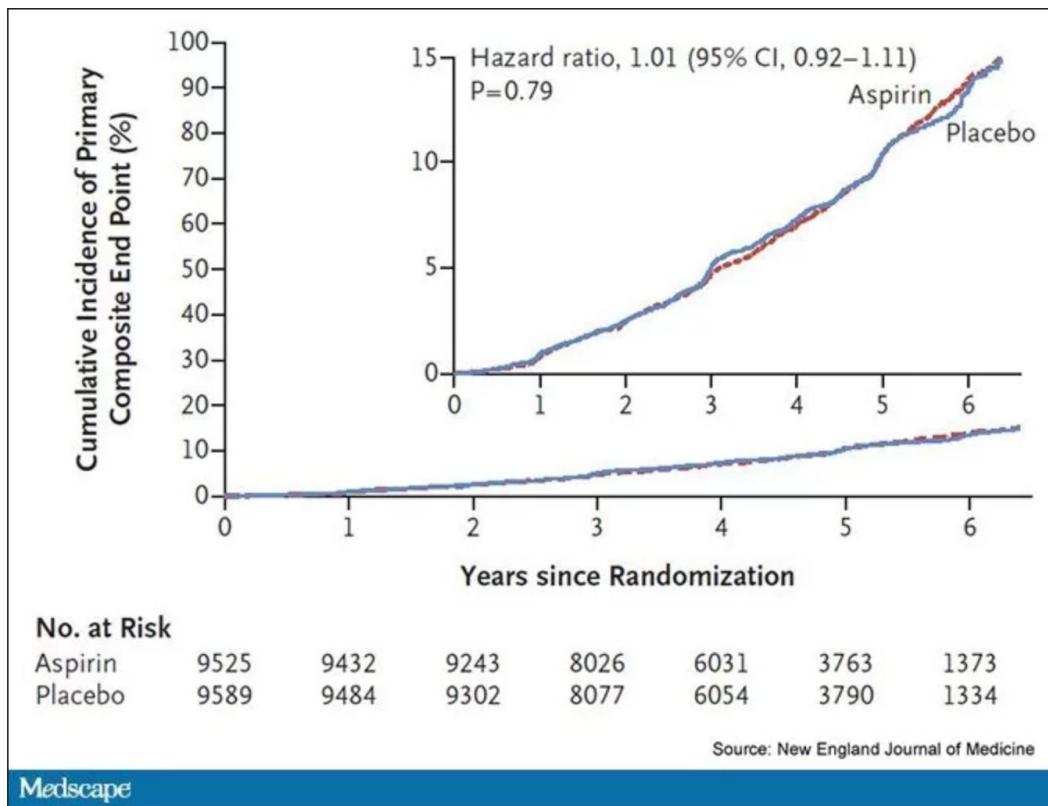
The potential benefits of aspirin for primary cardiovascular prevention in rheumatoid arthritis: a secondary analysis of the PRECISION Trial

Daniel H. Solomon¹, Peter Libby¹, Neville D. Yeomans², Qiuqing Wang³,
Kathy E. Wolski³, Steven E. Nissen³ and M. Elaine Husni³

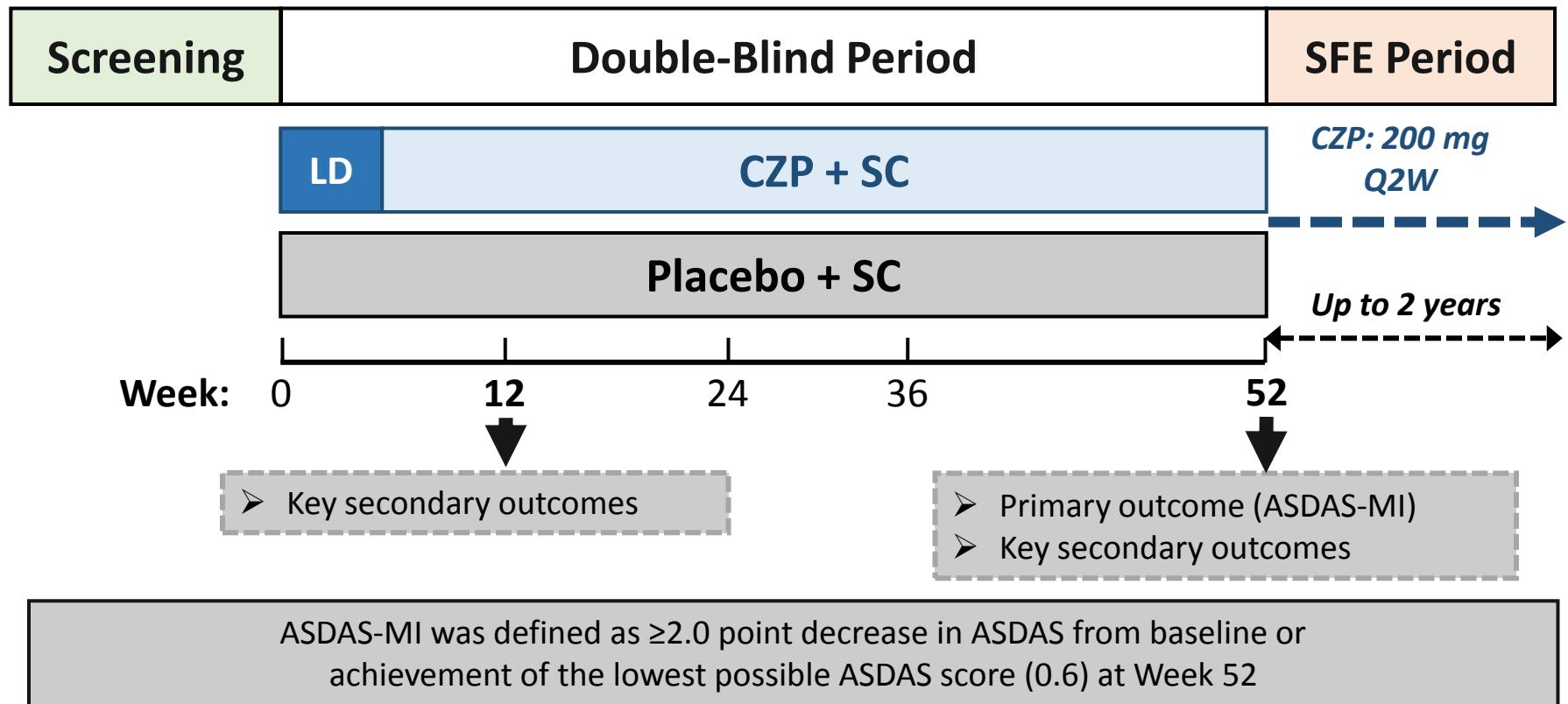
TABLE 2 Incidence rate and relative risks for major NSAID toxicity among RA subjects in PRECISION trial

Outcomes	Aspirin use		Non-aspirin use		P-value ^a	Hazard ratios		
	(n = 540)		(n = 1312)			(95% CI)		
	Events, n (%)	Incidence rate	Events, n (%)	Incidence rate		Age- and gender-adjusted	Fully adjusted ^b	
Major NSAID toxicity	37 (6.9)	3.30	79 (6.0)	2.94	0.50	0.95 (0.64, 1.40)	1.08 (0.69, 1.69)	
MACE ^c	22 (4.1)	1.93	37 (2.8)	1.36	0.16	1.23 (0.72, 2.10)	NA	
Clinically significant GI events	8 (1.5)	0.70	10 (0.8)	0.37	0.15	1.72 (0.68, 4.40)	NA	
Renal events	3 (0.6)	0.26	16 (1.2)	0.59	0.20	0.39 (0.11, 1.34)	NA	
All-cause mortality	12 (2.2)	1.04	31 (2.4)	1.13	0.86	0.72 (0.37, 1.40)	NA	

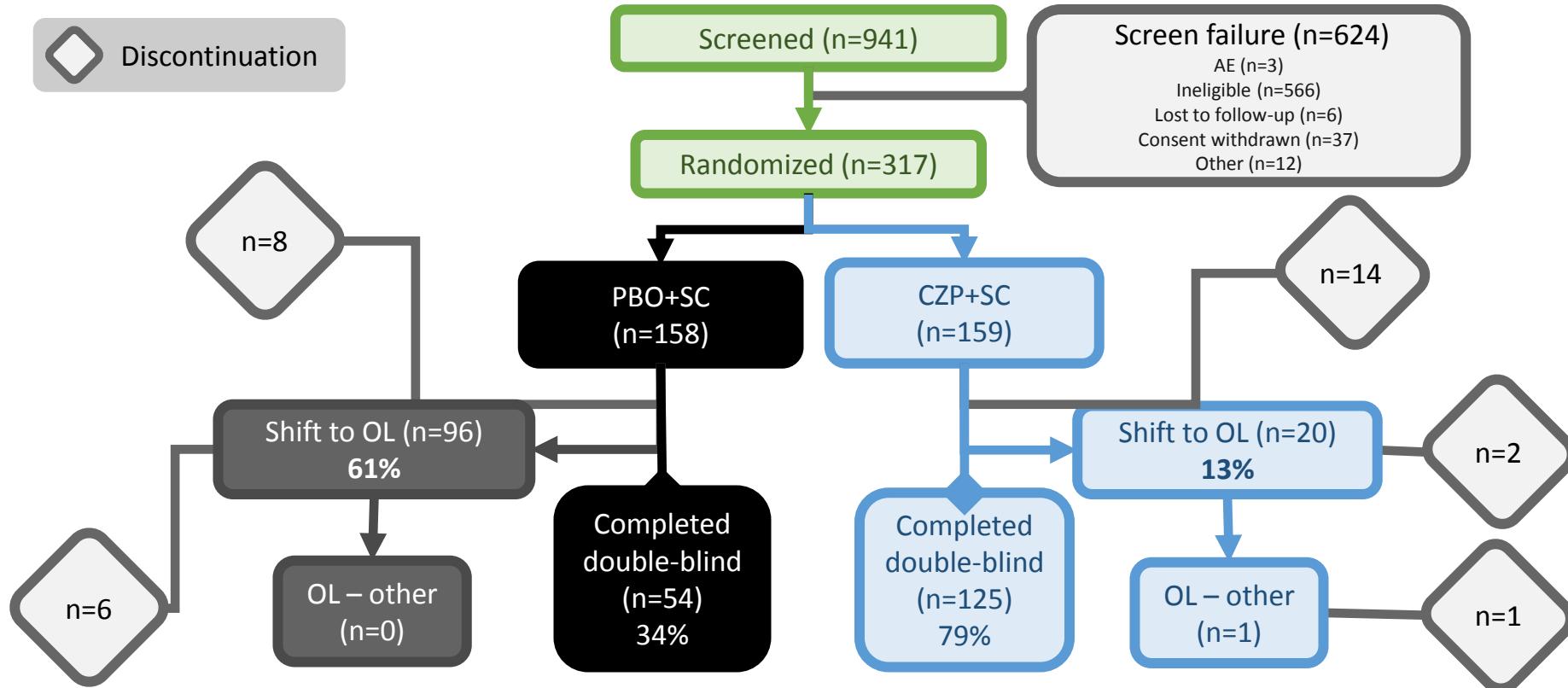
Το τέλος της ασπιρίνης στη πρωτογενή πρόληψη...



Study Design



Patient Disposition at Week 52



Patient Disposition at Week 52

