

## ΦΘΙΝΟΠΩΡΙΝΟ ΕΠΙΣΤΗΜΟΝΙΚΟ ΣΥΜΠΟΣΙΟ 2016

Διαδραστικά σεμινάρια επικαιροποίησης των γνώσεων  
για την αντιμετώπιση των φλεγμονωδών δερματικών, ρευματικών  
και γαστρεντερολογικών νοσημάτων

Καρπενήσι

25-27 Νοεμβρίου 2016

Ξενοδοχεία: Avaris & Montana



# ΑΚΑΛΥΠΤΕΣ ΘΕΡΑΠΕΥΤΙΚΕΣ ΑΝΑΓΚΕΣ ΣΤΗΝ ΡΑ

## Γενική επισκόπηση της βιβλιογραφίας

**ΣΠΥΡΟΣ Ν ΝΙΚΑΣ**

ΡΕΥΜΑΤΟΛΟΓΟΣ

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ΙΩΑΝΝΙΝΑ

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# ΣΥΓΚΡΟΥΣΗ ΣΥΜΦΕΡΟΝΤΩΝ (2y)

BMS (4/15)

BIANEE (10 /14)

Amgen (5/15)

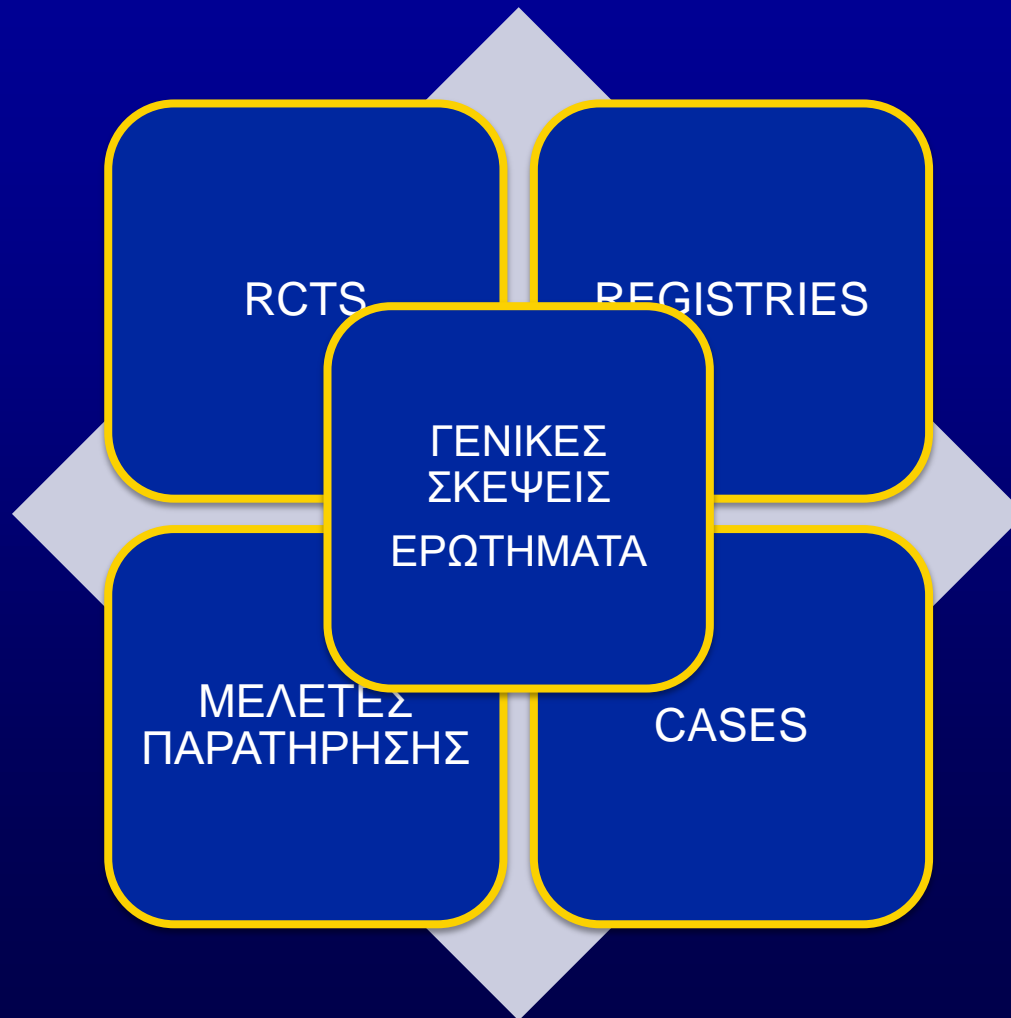
ENORASIS (5/15)

MSD (11/15)

PFIZER (6/15)

ROCHE (10/15)

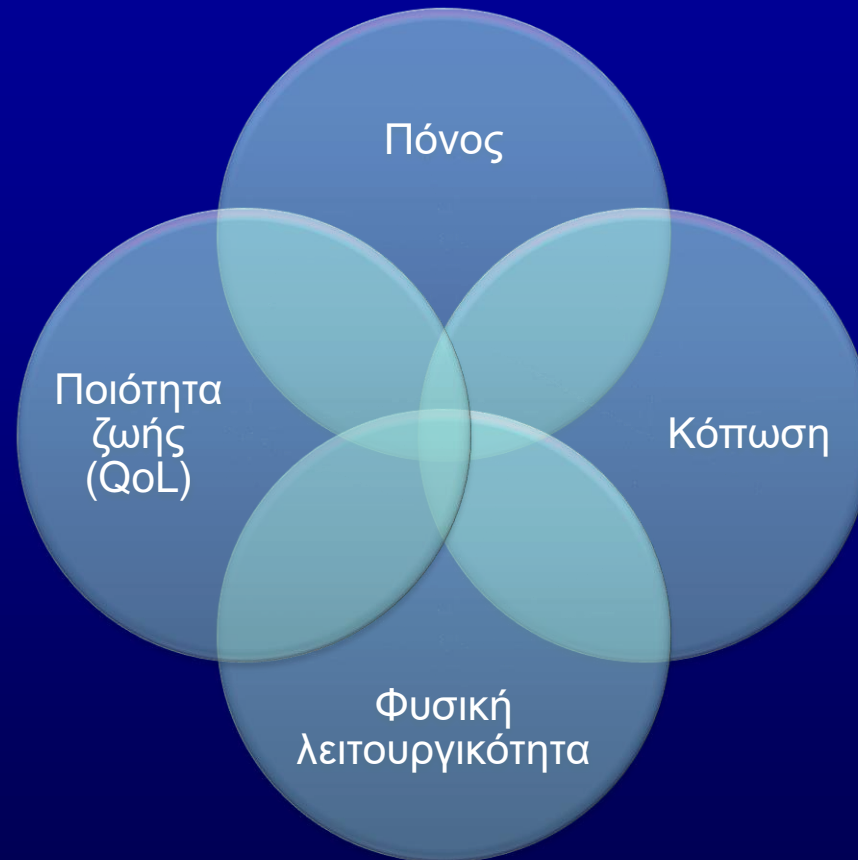
# ΔΕΔΟΜΕΝΑ ΣΤΗΝ ΙΑΤΡΙΚΗ



# Ανεκπλήρωτες ανάγκες στην ΡΑ



# RA ασθενείς/ ΣΗΜΑΝΤΙΚΑ



# Ανεκπλήρωτες ανάγκες (ασθενείς & κλινικοί & φαρμ. εταιρείες)

Και ενώ τα επιτεύγματα στις εκβάσεις στην RA συνεχίζουν να βελτιώνονται ,

Το επιθυμητό στόχο ΔΕΝ τον «φτάνουν» όλοι οι ασθενείς

- ύφεση
- LDA

## Not All Patients Respond to Treatment

- For many patients, the introduction of TNF blockers in the clinical management of RA resulted in either:
  - An inadequate response and/or
  - Existence of contraindications or intolerance, precluding the use of these agents
- Anti-TNF therapy achieves a 20% improvement in ACR20 in about 42% to 85% of patients, and an ACR50 response in only 21% to 69%
  - Secondary failure rates: up to 50% occurring during the first year

Isola FS, et al. *BioInnov*. 2014;2:1-12.

# Clinical Therapeutics

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[July 2011](#) Volume 33, Issue 7, Pages 901-913

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## Measurement and Rates of Persistence With and Adherence to Biologics for Rheumatoid Arthritis: A Systematic Review

[Marissa A. Blum](#), MD, [Danielle Koo](#), [Jalpa A. Doshi](#), BPharm, PhD  

[Marissa A. Blum](#), MD, [Danielle Koo](#), [Jalpa A. Doshi](#), BPharm, PhD  

systematic review of adherence to biologics for rheumatoid arthritis: a

median drug survival  
across all biologics was typically  
between 32 and 39 months

ΚΑΘΕ 3 ΧΡΟΝΙΑ => ΑΛΛΑΓΗ ΒΙΟΛΟΓΙΚΟΥ !!!

# Ανεκπλήρωτες ανάγκες PA (κλινικοί)



60% των  
ασθενών

ACR20

ACR50

60% των  
ασθενών

ACR70

Τουλάχιστον  
στην πρώτη PA



# Ανεκπλήρωτες ανάγκες (κλινικοί)



## ΣΤΑΤΙΣΤΙΚΑ ΣΗΜΑΝΤΙΚΟ !



1



Ανάπτυξη 100%

1 + 1 = 2



50



Ανάπτυξη 2 %

50 + 1 = 51

## ENDGAMES

---

### STATISTICAL QUESTION

## Clinical significance versus statistical significance

Philip Sedgwick *reader in medical statistics and medical education*

Centre for Medical and Healthcare Education, St George's, University of London, London, UK

P value : significance versus no significance  
and it **does not show how important**  
the result of the statistical analysis is.

# Ανεκπλήρωτες ανάγκες (κλινικοί)



ΔΕΝ ΕΊΝΑΙ ΜΟΝΟ Η ΣΤΑΤΙΣΤΙΚΗ

## ΤΙ ΠΡΕΠΕΙ ΝΑ ΛΑΜΒΑΝΟΥΜΕ ΥΠΟΨΗ

- **Minimal clinically important difference (MCID) values =>**
  - to assess the magnitude of changes over time
- **patient acceptable symptom state (PASS)**
  - available to determine whether the observed values would be acceptable to patients with RA

**ΠΡΕΠΕΙ ΝΑ ΡΩΤΑΜΕ ΤΟΝ ΑΣΘΕΝΗ**

# Arthritis Research & Therapy

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RESEARCH ARTICLE | [OPEN ACCESS](#)

## Effects of tofacitinib monotherapy on patient-reported outcomes in a randomized phase 3 study of patients with active rheumatoid arthritis and inadequate responses to DMARDs

[Vibeke Strand](#), [Joel Kremer](#), [Gene Wallenstein](#) , [Keith S. Kanik](#), [Carol Connell](#), [David Gruben](#), [Samuel H. Zwillich](#) and [Roy Fleischmann](#)

*Arthritis Research & Therapy* 2015 17:307 | DOI: 10.1186/s13075-015-0825-9 | © Strand et al. 2015

Received: 18 December 2014 | Accepted: 16 October 2015 | Published: 4 November 2015

Tofacitinib monotherapy in DMARD-IR patients resulted in **statistically significant and clinically meaningful** improvements in multiple PROs versus placebo at month 3, with sustained improvements over 6 months

# ΣΤΑΤΙΣΤΙΚΟ VS ΚΛΙΝΙΚΑ ΣΗΜΑΝΤΙΚΟ



Ⓜ<sup>+</sup> Conventional combination treatment versus biological treatment in methotrexate-refractory early rheumatoid arthritis: 2 year follow-up of the randomised, non-blinded, parallel-group Swefot trial

*Ronald F van Vollenhoven, Pierre Geborek, Kristina Forslind, Kristina Albertsson, Sofia Ernestam, Ingemar F Petersson, Katerina Chatzidionysiou, Johan Bratt, for the Swefot study group*

*Lancet 2012; 379: 1712-20*

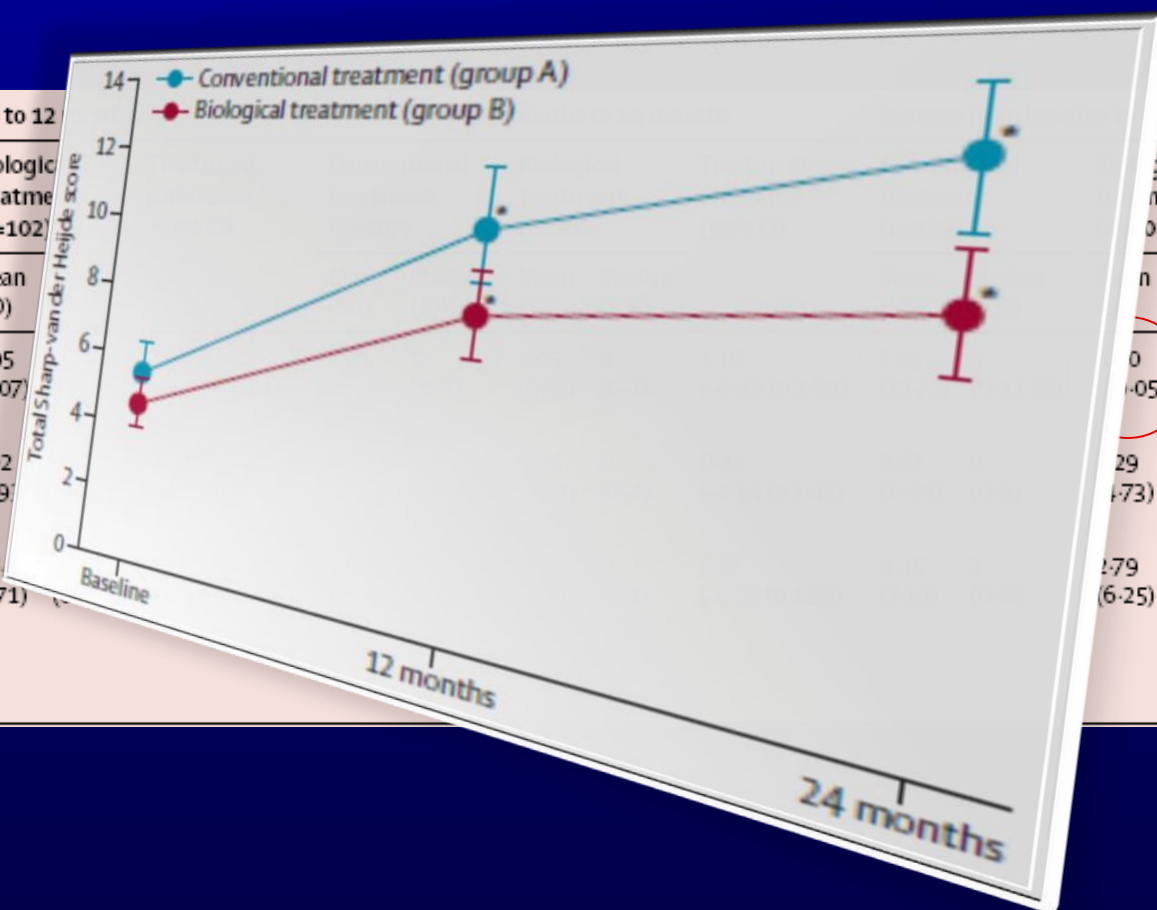
## Αποτελέσματα κλινικής ανταπόκρισης

	12 months				18 months			24 months		
	Conventional treatment (n=130)	Biological treatment (n=128)	Risk ratio (95% CI)	p value	Conventional treatment (n=130)	Biological treatment (n=128)	Risk ratio (95% CI)	Conventional treatment (n=130)	Biological treatment (n=128)	p value
ACR20 response	37 (28%)	54 (42%)	1.48 (1.06-2.08)	0.0266	44 (34%)	58 (45%)	1.34 (0.99-1.82)	43 (33%)	51 (40%)	0.259
ACR50 response	19 (15%)	32 (25%)	1.71 (1.02-2.86)	0.0424	25 (19%)	39 (30%)	1.58 (1.02-2.46)	28 (22%)	38 (30%)	0.134
ACR70 response	9 (7%)	15 (12%)	1.69 (0.77-3.73)	0.2044	14 (11%)	22 (17%)	1.60 (0.86-2.98)	18 (14%)	21 (16%)	0.566
EULAR good response	32 (25%)	50 (39%)	1.59 (1.10-2.30)	0.0160	38 (29%)	49 (38%)	1.31 (0.93-1.85)	40 (31%)	49 (38%)	0.204
EULAR good to moderate response	64 (49%)	77 (60%)	1.22 (0.98-1.53)	0.0817	61 (47%)	74 (58%)	1.23 (0.97-1.56)	65 (50%)	75 (59%)	0.166

Data are n (%). ACR= American College of Rheumatology. EULAR= European League Against Rheumatism.

## Αποτελέσματα α-α ανταπόκρισης

Increase from baseline to 12 months			
	Conventional treatment (n=104)		Biological treatment (n=102)
	Mean (SE)	Median (IQR)	Mean (SD)
Total score	5.04 (10.64)	1 (0-6.5)	2.95 (6.07)
Erosion score	1.93 (5.28)	0 (0-2)	1.02 (2.9)
Joint-space narrowing	3.12 (6.04)	0 (0-4)	1.8 (3.71)



4 months		
	Biological treatment (n=106)	Treatment difference (95% CI); p value
	n	Median (IQR)
Total score	106	1 (0-5)
Erosion score	106	0 (0-1)
Joint-space narrowing	106	0 (0-4)

p values are by Mann-Whitney U test.

# Sharp/van der Heijde method



- The maximum **erosion** score is
  - 160 for the hands and wrists
  - 120 for feet
- The maximum **joint space narrowing** score
  - 120 for the hands and wrists
  - 48 for feet
- score ranges from 0 - 448

Increase from baseline to 24 months

Conventional treatment (n=109)		Biological treatment (n=106)		Treatment difference (95% CI); pvalue
Mean (SD)	Median (IQR)	Mean (SE)	Median (IQR)	
7.23 (12.72)	3 (0-11.25)	4.00 (10.05)	1 (0-5)	3.23 (0.14 to 6.32); 0.009
2.82 (6.69)	0 (0-3)	1.29 (4.73)	0 (0-1)	1.53 (-0.03 to 3.09); 0.039
4.45 (7.10)	2 (0-8)	2.79 (6.25)	0 (0-4)	1.66 (-0.14 to 3.46); 0.026



## Estimation of a numerical value for joint damage-related physical disability in rheumatoid arthritis clinical trials.

Smolen JS, Aletaha D, Grisar JC, Stamm TA, Sharp JT.

### Author information

### Abstract

**BACKGROUND:** Joint damage is an important outcome in trials of rheumatoid arthritis (RA), usually assessed by Total Sharp Score (TSS). It is currently unknown how it translates numerically into disability by the Health Assessment Questionnaire (HAQ).

**OBJECTIVE:** To determine the units of HAQ score corresponding to one TSS unit.

**METHODS:** A short-term observational trial of glucocorticoids in RA (the 'BEst Life with Rheumatoid Arthritis' (BELIRA) trial) was evaluated, using randomised controlled clinical trial (RCT) data for confirmation. For each trial arm HAQ, TSS and the Simplified Disease Activity Index (SDAI) were assessed. Based on the hypothesis that short-term HAQ changes will mostly be due to changes of disease activity, activity HAQ (ACT-HAQ) at end point (EP) was determined and remaining disability defined as damage related (DAM-HAQ). Using TSS at EP, the HAQ units corresponding to a TSS unit were estimated.

**RESULTS:** In BELIRA, one TSS unit corresponded to a mean of 0.017 HAQ units; to account for other causes of irreversible disability, the 25th percentile was used: 0.011 HAQ units/TSS unit. In RCT trial arms, the HAQ/TSS were similar (0.013 and 0.015 in established and early RA, respectively; 25th percentile: 0.010). The correlation between DAM-HAQ(EP) and TSS was  $r=0.829$ . Over 5 years, damage would amount to an increase of irreversible HAQ of 0.33 on placebo, 0.13 on disease-modifying antirheumatic drugs (DMARDs) and 0.03 on TNF inhibitors+methotrexate (MTX).

**CONCLUSION:** An approach to estimate the numerical relationship between HAQ and damage is presented, although the linear relationship may not be generally valid. This allows the assessment of functional correlates of radiographic changes in trials.

EXTENDED REPORT

Addition of infliximab compared with addition of sulfasalazine and hydroxychloroquine to methotrexate in early rheumatoid arthritis: 2-year quality-of-life results of the randomised, controlled, SWEFOT trial

Johan A Karlsson,<sup>1</sup> Martin Neovius,<sup>2</sup> Jan-Åke Nilsson,<sup>1</sup> Ingemar F Petersson,<sup>1,3</sup> Johan Bratt,<sup>4</sup> Ronald F van Vollenhoven,<sup>5</sup> Sofia Ernestam,<sup>6</sup> Pierre Geborek<sup>1</sup>

Συγκρίνοντας την προσθήκη IFX ή SSZ+HCQ

Σε ασθενείς με ενεργό ΡΑ και αποτυχία στην MTX

**ΔΕΝ υπάρχει στατιστικά σημαντική διαφορά**

Σε utility ή QALY

August 12/26, 2013, Vol 173, No. 15 >

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Original Investigation | August 12/26, 2013

## Biological vs Conventional Combination Treatment and Work Loss in Early Rheumatoid Arthritis A Randomized Trial

Jonas K. Eriksson, MSc<sup>1</sup>; Martin Neovius, PhD<sup>1</sup>; Johan Bratt, MD, PhD<sup>2</sup>; Ingemar F. Petersson, MD, PhD<sup>3,4</sup>; Ronald F. van Vollenhoven, MD, PhD<sup>5</sup>; Pierre Geborek, MD, PhD<sup>4</sup>; Sofia Ernestam, MD, PhD<sup>6</sup>

[\[+\] Author Affiliations](#)

*JAMA Intern Med.* 2013;173(15):1407-1414. doi:10.1001/jamainternmed.2013.7801.

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## ABSTRACT

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Original Investigation | August 12/26, 2013

## Biological vs Conventional Combination Treatment and Work Loss in Early Rheumatoid Arthritis A Randomized Trial

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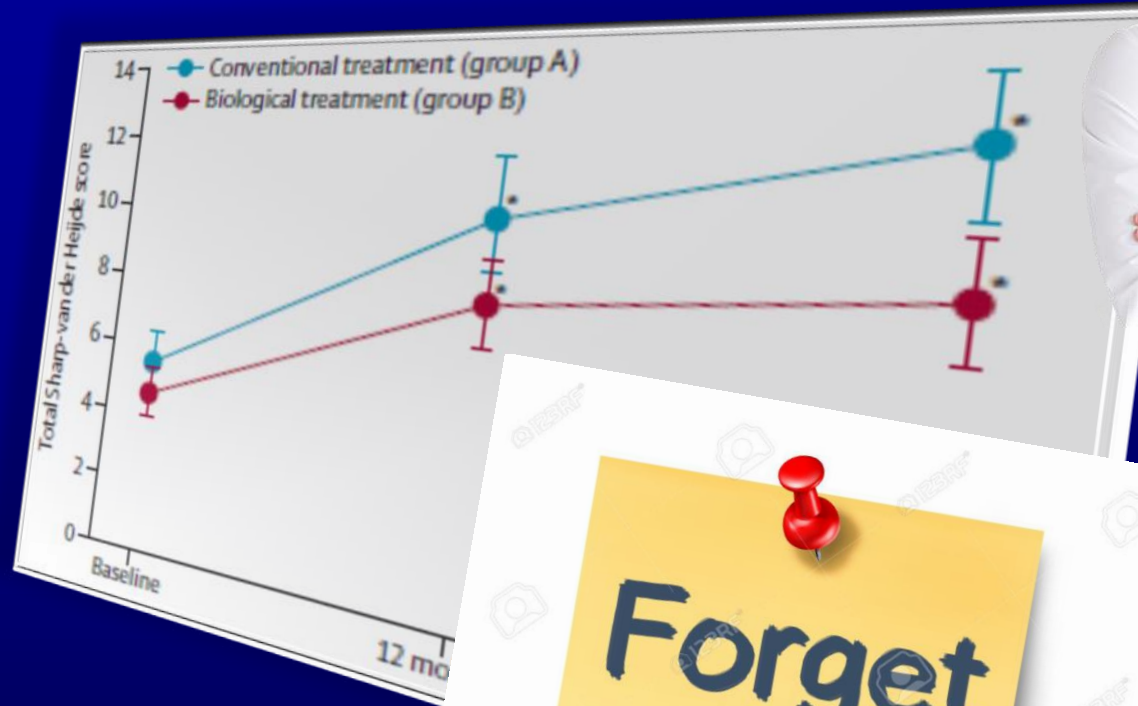
[\[+\] Author Affiliations](#)

*JAMA Intern Med.* 2013;173(15):1407-1414. doi:10.1001/jamainternmed.2013.7801.

Text Size: **A** A

**Αν και υπήρχε ακτινολογική ανωτερότητα στην ομάδα υπό βιολογικό  
αυτό ΔΕΝ μεταφράζεται σε  
καλύτερη εργασιακή ικανότητα**

# Ανεκπλήρωτες ανάγκες ΡΑ (κλινικοί)



# Ανεκπλήρωτες ανάγκες ΡΑ (ΑΣΘΕΝΕΙΣ / ΠΟΝΟ)

Rheumatol Int (2016) 36:685–695  
DOI 10.1007/s00296-015-3415-x

Rheumatology  
INTERNATIONAL



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REVIEW ARTICLE - REVIEW ON DISEASE

## A structured literature review of the burden of illness and unmet needs in patients with rheumatoid arthritis: a current perspective

Peter C. Taylor<sup>1</sup> · Adam Moore<sup>2,6</sup> · Radu Vasilescu<sup>3</sup> · Jose Alvir<sup>4</sup> · Miriam Tarallo<sup>5</sup>

Και ενώ βιολογικοί & MTX απαλύνουν τον πόνο=>  
πολλοί ασθενείς RA **συνεχίζουν** να εκφράζουν  
ΜΗ ΑΝΕΚΤΟ ΕΠΙΠΕΔΟ ΠΟΝΟΥ



Overall, the current literature suggests that **pain persists** at an **unacceptable** level in patients with RA

# ΠΟΝΟΣ ΣΤΗΝ ΡΑ

although treatment with a **biologic** in patients produced **clinically** meaningful improvements in pain

- scores remained below the **PASS\*** threshold

patients with RA continue to experience moderate pain, despite ongoing treatment with **DMARDs**



*Fleischmann R (2009) The clinical efficacy and safety of **certolizumab** pegol (CZP) in the treatment of rheumatoid arthritis: focus on long-term use, patient considerations and the impact on quality of life. Open Access Rheumatol Res Rev 1:95–106*

\* patient acceptable symptom state : ΕΠΙΠΕΔΟ ΑΝΤΙΛΗΨΗΣ



**Στατιστικά  
σημαντικό**

**Κλινικά  
σημαντικό**

**PASS**

A white rectangular card is tilted slightly to the right. On the card, a magnifying glass is positioned over the word "FOCUS", which is written in large, bold, black capital letters. The magnifying glass's lens is centered over the text, and its handle extends towards the bottom right corner of the card.

**FOCUS**



## A structured literature review of the burden of illness and unmet needs in patients with rheumatoid arthritis: a current perspective

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Επιμένει σε **ΜΗ ΙΚΑΝΟΠΟΙΗΤΙΚΑ ΕΠΙΠΕΔΑ** , ειδικά σε :

those who do not achieve MCID or PASS thresholds despite ongoing treatment

**ΗΠΙΑ – ΜΕΤΡΙΑ disability :**

(mean health assessment questionnaire [HAQ] score of 1.2–1.8 at baseline)

Είναι πάνω από το αποδεκτό όριο

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Όπως και στις κλινικές μελέτες :

**observational** / με τη χρήση :

- patient-reported outcomes (PROs) such as the HAQ
- the medical outcomes short form-36 (SF-36)

**ΑΠΟΤΥΧΙΑ ΝΑ ΕΠΙΤΕΥΧΘΟΥΝ ΤΑ ΟΡΙΑ ΤΟΥ PASS**

csDMARDs & biologics

# ΦΥΣΙΚΗ ΔΡΑΣΤΗΡΙΟΤΗΤΑ / HAQ



Σύγχρονες θεραπείες ΑΠΟΤΥΓΧΑΝΟΥΝ συχνά να βελτιώσουν το HAQ =>  
**clinically important margins**

with patients frequently experiencing an unacceptable level of physical disability despite ongoing treatment

*Stockl KM, Shin JS, Lew HC, Zakharyan A, Harada AS, Solow BK, Curtis BS (2010) Outcomes of a rheumatoid arthritis disease therapy management program focusing on medication adherence. J Manag Care Pharm 16:593–604*

*Farahani P, Levine M, Gaebel K, Wang EC, Khalidi N (2006) Community-based evaluation of etanercept in patients with rheumatoid arthritis. J Rheumatol 33:665–670*

# ΦΥΣΙΚΗ ΔΡΑΣΤΗΡΙΟΤΗΤΑ/ ΗΑQ



47 % των ασθενών απέτυχαν να φτάσουν : **HAQ levels ενδεικτικό:**


- minimal residual disease activity
- *a secondary goal of treatment for patients unlikely to achieve remission*

*Bae SC, Gun SC, Mok CC, Khandker R, Nab HW, Koenig AS, Vlahos B, Pedersen R, Singh A (2013) Improved health outcomes with etanercept versus usual DMARD therapy in an Asian population with established rheumatoid arthritis. BMC Musculoskelet Disord 14:13.*

*Pavelka K, et al. (2013) Induction of response with etanercept-methotrexate therapy in patients with moderately active rheumatoid arthritis in Central and Eastern Europe in the PRESERVE study. Clin Rheumatol 32:1275–1281.*

## 16 άρθρα

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REVIEW ARTICLE · REVIEW ON DISEASE

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**suboptimal mental health persists** in a substantial proportion of patients with RA /

mental health subdomain of the SF-36

- 48–92 % of patients who **remained on MTX** —despite meeting eligibility criteria for treatment with biologics—did not meet MCID thresholds
- 35–66 % of patients **failed** to meet **MCID** thresholds across 6 clinical trials of **biologic** treatments

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## ΚΛΙΝΙΚΕΣ ΜΕΛΕΤΕΣ

biologics, in combination with MTX,

ΑΠΟΤΥΧΙΑ: **meaningful improvements** in fatigue


Η ΚΟΠΩΣΗ ΣΥΝΕΧΙΖΕΙ ΝΑ ΕΧΕΙ :

- considerable **negative impact** on > 50% of patients with RA
- and is a major determinant of QoL

fatigue-related endpoints were  
**rarely reported** in clinical trials

# ΚΟΙΝΩΝΙΚΗ ΔΡΑΣΤΗΡΙΟΤΗΤΑ

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1 μελέτη => ΝΟΣΟΣ : **negative impact** on relationships with friends and family  
was reported by approximately on **1/5** of patients with RA

*McInnes IB, et al (2013) Understanding the patient perspective—results of the Rheumatoid Arthritis: Insights, Strategies & Expectations (RAISE) patient needs survey. Clin Exp Rheumatol 31:350–357*

**PASS** values for social functioning **were met in 1 /10** studies and  
were achieved only in a subpopulation of the overall sample who had been  
receiving MTX at the start of the study period

*da Mota LM, et al (2012). Rheumatol Int 32:3937–3943*



**observational** study of sexual activity and sexual dysfunction in patients with RA receiving treatment with **biologics or DMARDs**

- 53.8 % of men and 45.7 % of women experienced some form of sexual **dysfunction**
  - in response to a multidimensional patient-reported outcome measures questionnaire



# ΣΕΞΟΥΑΛΙΚΗ ΔΡΑΣΤΗΡΙΟΤΗΤΑ



One survey :

- 22 % of biologic-experienced
- 16 % of biologic-naïve patients ( $P \leq 0.05$ )

experienced **problems with sexual function**

*McInnes IB, Combe B, Burmester G (2013) Understanding the patient perspective—results of the Rheumatoid Arthritis: Insights, Strategies & Expectations (RAISE) patient needs survey. Clin Exp Rheumatol 31:350–357*

# Ο ΡΟΛΟΣ ΤΩΝ ΑΣΘΕΝΩΝ ΣΤΗΝ ΘΕΡ. ΑΠΟΦΑΣΗ



**Table 1** 2013 Update of the EULAR recommendations (the table of 2010 recommendations can be found in the original publication)

## *Overarching principles*

- A. Treatment of RA patients should aim at the best care and must be based on a shared decision between the patient and the rheumatologist
- B. Rheumatologists are the specialists who should primarily care for RA patients
- C. RA incurs high individual, societal and medical costs, all of which should be considered in its management by the treating rheumatologist

- support for the patient to develop **personal preferences**
- **inform** the patient of the **risks** of RA and the benefits of reaching the targeted disease activity states

based on the reviewed literature, **it was not possible** to accurately ascertain how patients gauged control of RA

# RA & ΕΡΓΑΣΙΑ



ΕΊΝΑΙ ΓΝΩΣΤΟ:

- an estimated 1/3 of patients with RA terminate employment prematurely
- 5 years after diagnosis, 30–40 % of patients experience work disability

increased severity of **pain** & physical **disability** =>  
were associated with greater work disability

There was evidence that **intensive treatment** strategies with a combination of DMARDs may play a crucial role in **reducing the adverse work-related** impacts of RA

# ΟΙΚΟΝΟΜΙΚΟ ΦΟΡΤΙΟ ΤΗΣ ΡΑ

RA is associated with a large economic burden to individual patients, their families, and to society, with an estimated total annual economic burden of

- €45.3 billion in Europe
- €41.6 billion in the USA

## **Direct costs**

associated with RA include medications, hospitalizations, clinic visits, laboratory monitoring imaging, toxicity, and medical assist devices


## **Indirect costs**

such as loss of earnings, caregiver productivity, and intangible costs arising from pain, depression and anxiety, and suboptimal QoL also contribute to the economic burden of RA

# ΕΡΓΑΣΙΑ & ΟΙΚΟΝΟΜΙΚΟ ΦΟΡΤΙΟ ΣΤΗΝ ΡΑ



Rheumatol Int (2016) 36:685–695  
DOI 10.1007/s00296-015-3415-x

Rheumatology  
INTERNATIONAL 

REVIEW ARTICLE · REVIEW ON DISEASE

## A structured literature review of the burden of illness and unmet needs in patients with rheumatoid arthritis: a current perspective

Peter C. Taylor<sup>1</sup> · Adam Moore<sup>2,6</sup> · Radu Vasilescu<sup>3</sup> · Jose Alvir<sup>4</sup> · Miriam Tarallo<sup>5</sup>

Οι περισσότερες μελέτες εστιάζουν

- **absenteeism** associated with the disease
- Πολύ μικρή έρευνα για το **presenteeism** or productivity

# Συνοσηρότητες στην ΡΑ



# οστεοπόρωση στην ΡΑ

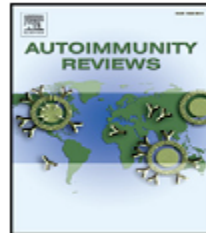
Autoimmunity Reviews 12 (2013) 958–966



Contents lists available at [SciVerse ScienceDirect](#)

## Autoimmunity Reviews

journal homepage: [www.elsevier.com/locate/autrev](http://www.elsevier.com/locate/autrev)



### Review

## Biologic therapies and systemic bone loss in rheumatoid arthritis

Theodoros Dimitroulas <sup>a,\*</sup>, Spyros N. Nikas <sup>a</sup>, Panagiotis Trontzas <sup>b</sup>, George D. Kitas <sup>a,c</sup>

<sup>a</sup> Department of Rheumatology, Dudley Group of Hospitals NHS Trust, Russells Hall Hospital, Dudley, West Midlands, UK

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<sup>c</sup> Arthritis Research UK Epidemiology Unit, University of Manchester, Manchester, UK

Οι βιολογικοί αυξάνουν την οστική πυκνότητα vs csDMARDs



ORIGINAL ARTICLE

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**JBMR**

## **Effects of Disease-Modifying Antirheumatic Drugs on Nonvertebral Fracture Risk in Rheumatoid Arthritis: A Population-Based Cohort Study**

Seo Young Kim,<sup>1,2</sup> Sebastian Schneeweiss,<sup>1</sup> Jun Liu,<sup>1</sup> and Daniel H Solomon<sup>1,2</sup>

Journal of Bone and Mineral Research, Vol. 27, No. 4, April 2012, pp 789–796



# RA, anti-TNF- $\alpha$ & κάταγμα



Among subjects diagnosed with RA  
the adjusted risk of **non-vertebral fracture** was  
**similar**  
across persons starting  
a TNFi , MTX or other nbDMARD

*Effects of disease-modifying antirheumatic drugs on nonvertebral fracture risk in rheumatoid arthritis: a population-based cohort study. Kim SY1, Schneeweiss S, Liu J, Solomon DH J Bone Miner Res. 2012 Apr ;27(4):789-96.*

*Curr Opin Rheumatol.* 2013 May ; 25(3): 317–324. doi:10.1097/BOR.0b013e32835fd7f8.

## Rheumatoid Arthritis and Cardiovascular Disease: Update on Treatment Issues

**Medha Barbhuiya, MD** and **Daniel H. Solomon, MD, MPH**

Division of Rheumatology, Immunology, and Allergy, Brigham and Women's Hospital, Harvard Medical School, Boston, MA 02115, USA

### Abstract

**Purpose of review—**This review examines thresholds for treatment of traditional cardiovascular disease (CVD) risk factors among RA patients and whether RA-specific treatment modulates cardiovascular risk.

**Recent findings—**There are substantial data demonstrating an increased CVD risk among patients with RA. Both traditional CVD risk factors and inflammation contribute to this risk.

Recent epidemiologic studies strengthen the case that aggressive immunosuppression with biologic DMARDs, such as TNF antagonists, is associated with a reduced risk of CVD events. However, to data, there are no randomized controlled trials published regarding the management of CVD in RA.

**Summary—**Epidemiologic evidence continues to accumulate regarding the relationship between the effects of traditional CVD risk factors and RA-specific treatments on CV outcomes in RA. The field needs randomized controlled trials to better guide management.

# RA & CVD : εξατομίκευση αγωγής !



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## MEETING ABSTRACTS

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ABSTRACT NUMBER: 3L

### Comparative Cardiovascular Safety of Tocilizumab Vs Etanercept in Rheumatoid Arthritis: Results of a Randomized, Parallel-Group, Multicenter, Noninferiority, Phase 4 Clinical Trial

Jon T. Giles<sup>1</sup>, Naveed Sattar<sup>2</sup>, Sherine E. Gabriel<sup>3</sup>, Paul M. Ridker<sup>4</sup>, Steffen Gay<sup>5</sup>, Charles Warne<sup>6</sup>, David Musselman<sup>7</sup>, Laura Brockwell<sup>6</sup>, Emma Shittu<sup>6</sup>, Micki Klearman<sup>7</sup> and Thomas Fleming<sup>8</sup>, <sup>1</sup>Columbia University, College of Physicians and Surgeons, New York, NY, <sup>2</sup>Institute of Cardiovascular and Medical Sciences, University of Glasgow, Glasgow, United Kingdom, <sup>3</sup>Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ, <sup>4</sup>Center for Cardiovascular Disease Prevention, Harvard Medical School, Boston, MA, <sup>5</sup>University Hospital Zurich, Department of Rheumatology, Zurich, Switzerland, <sup>6</sup>Roche Products Ltd., Welwyn Garden City, United Kingdom, <sup>7</sup>Genentech, South San Francisco, CA, <sup>8</sup>University of Washington, Department of Biostatistics, Seattle, WA

Meeting: 2016 ACR/ARHP Annual Meeting

Date of first publication: October 19, 2016

Σε συγκριτική μελέτη Tocilizumab Vs Etanercept με

- 3080 οροθετικούς RA ασθενείς (με τουλάχιστον ένα παράγοντα κινδύνου για CVD) με σκοπό την εκτίμηση του CVD κινδύνου διαπιστώθηκαν
- 83 σοβαρά καρδιαγγειακά επεισόδια (MACE) / 4900 PYs στην ομάδα υπό TCZ vs
- 78/ 4891 PYs στην ομάδα υπό ETA ((HR 1.05; 95% CI 0.77, 1.43)
- κάτι που σημαίνει αύξηση 5% του κινδύνου στην ομάδα υπό TOC



- Two clinical trials of etanercept in CHF patients were **stopped early**, with a pooled analysis showing a small, nonsignificant trend toward increased hospitalization and mortality at higher doses
- infliximab was ineffective in CHF patients, with the higher dose (10 mg/kg) associated with a significant increase **in risk of mortality** or CHF hospitalization

## **observational studies**

have not convincingly shown that TNFi agents increase CHF risk in RA  
particularly in the absence of pre-existing cardiovascular disease

# ΡΑ και ΣΥΝΟΣΗΡΟΤΗΤΕΣ



The most frequently associated diseases (past or current) were:

- **depression, 15%**
- **asthma, 6.6%**
- **cardiovascular events (myocardial infarction, stroke), 6%**
- **solid malignancies (excluding basal cell carcinoma), 4.5%;**
- **chronic obstructive pulmonary disease, 3.5%**

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*Ann Rheum Dis* doi:10.1136/annrheumdis-2013-204223

Clinical and epidemiological research

Extended report

**Prevalence of comorbidities in rheumatoid arthritis and evaluation of their monitoring: results of an international, cross-sectional study (COMORA)**

**OPEN ACCESS**

Maxime Dougados<sup>1,2</sup>, Martin Soubrier<sup>3</sup>, Anna Antunez<sup>4</sup>, Peter Balint<sup>5</sup>, Alejandro Balsa<sup>6</sup>, Maya Buch<sup>7</sup>, Gustavo Casado<sup>8</sup>, Jacqueline Detert<sup>9</sup>, Bassel El-zorkany<sup>10</sup>, Paul Emery<sup>11</sup>, Najia Hajjaj-Hassouni<sup>12</sup>, Masayoshi Harigai<sup>13</sup>, Shue-Fen Luo<sup>14</sup>, Reka Kurucz<sup>5</sup>, Gabriel Maciel<sup>15</sup>, Emilio Martin Mola<sup>16</sup>, Carlo Maurizio Montecucco<sup>17</sup>, Iain McInnes<sup>18</sup>, Helga Radner<sup>19</sup>, Josef Smolen<sup>20</sup>, Yeong-wook Song<sup>21</sup>, Harald Erwin Vonkeman<sup>22</sup>, Kevin Winthrop<sup>23</sup>, Jonathan Kay<sup>24</sup>



Rheumatology (Oxford). 2013 Dec; 52(12): 2136–2148.

Published online 2013 Sep 3. doi: [10.1093/rheumatology/ket169](https://doi.org/10.1093/rheumatology/ket169)



## The prevalence of depression in rheumatoid arthritis: a review and meta-analysis

Faith Matcham,<sup>1</sup> Lauren Rayner,<sup>1</sup> Sophia Steer,<sup>2</sup> and Matthew Hotopf<sup>1</sup>

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### Abstract

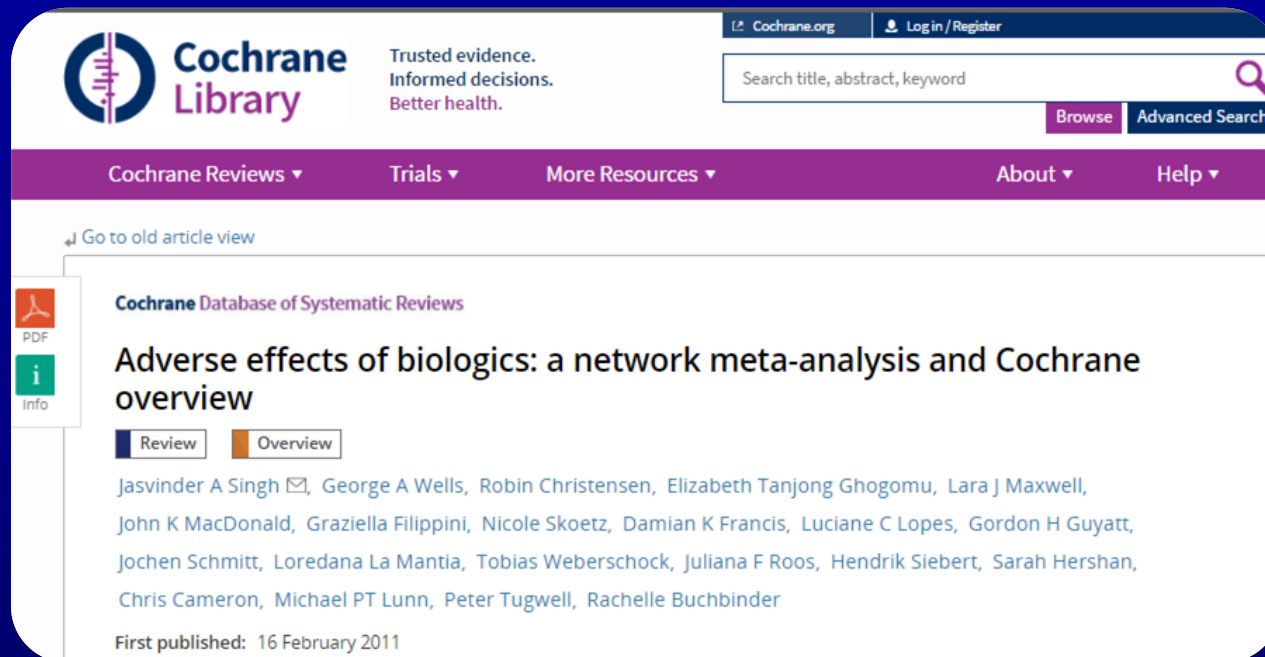
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**Objective.** There is substantial uncertainty regarding the prevalence of depression in RA. We conducted a systematic review aiming to describe the prevalence of depression in RA.

**Methods.** Web of Science, PsycINFO, CINAHL, Embase, Medline and PubMed were searched for cross-sectional studies reporting a prevalence estimate for depression in adult RA patients. Studies were reviewed in accordance with the Preferred Reporting Items for Systematic reviews and Meta-Analyses (PRISMA) guidelines and a meta-analysis was performed.

**Results.** A total of 72 studies, including 13 189 patients, were eligible for inclusion in the review. Forty-three methods of defining depression were reported. Meta-analyses revealed the prevalence of major depressive disorder to be 16.8% (95% CI 10%, 24%). According to the PHQ-9, the prevalence of depression was 38.8% (95% CI 34%, 43%), and prevalence levels according to the HADS with thresholds of 8 and 11 were 34.2% (95% CI 25%, 44%) and 14.8% (95% CI 12%, 18%), respectively. The main influence on depression prevalence was the mean age of the sample.

# ΡΑ & λοιμώξεις - βιολογικοί



160 randomized clinical trials and 46 extension studies:

- biologics as a group in the standard-dose model
- were **significantly associated with increased risk of serious infection** compared with control treatment
- odds ratio 1.37



- TNFi therapy is associated with **increased risk** of tuberculosis due to reactivation of latent disease
- **anti-TNF monoclonal antibodies** carrying a higher risk than etanercept
- tuberculosis risk with **newer agents** appears low
- Recommendations are in place for country-specific tuberculosis screening for TNFi agents, tocilizumab, and abatacept
- screening is not necessary for rituximab



# ΑΝΕΚΛΗΡΩΤΕΣ ΑΝΑΓΚΕΣ ΔΙΑΦΟΡΑ / Κλινικούς

## Αιτιολογία της ΡΑ

Ο ρόλος της **Διατροφής / Άσκησης**  
στην ανάπτυξη ή εξέλιξη της νόσου

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### Rheumatoid Arthritis

Author: Howard R Smith, MD; Chief Editor: Herbert S Diamond, MD [more...](#)

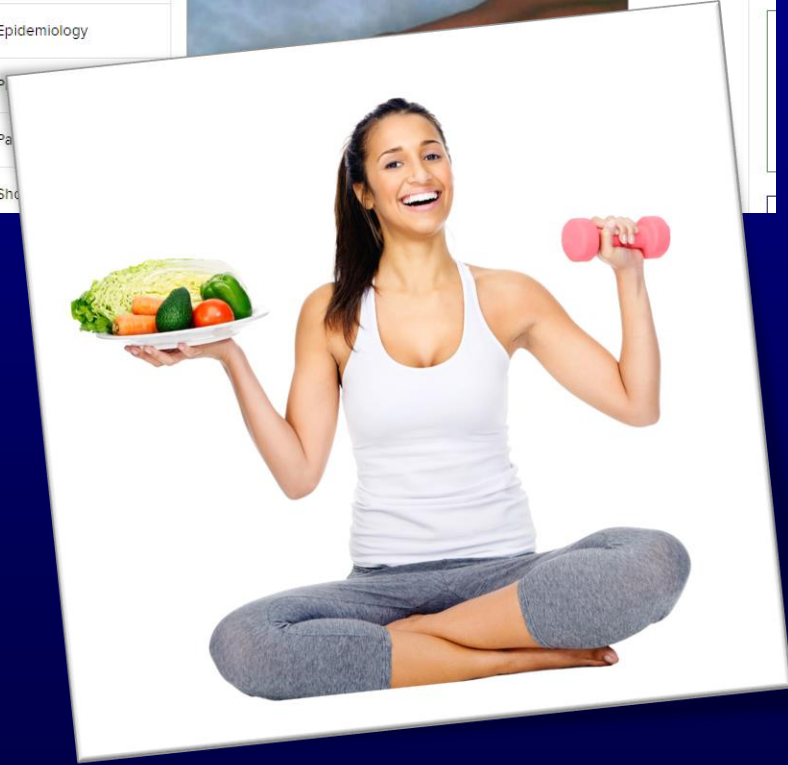
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Overview Presentation DDx Workup Treatment Medication

Updated: Jul 19, 2016

#### Practice Essentials

Rheumatoid arthritis (RA) is a chronic systemic inflammatory disease of **unknown** cause. An external trigger (eg, cigarette smoking, infection, or trauma) that triggers an autoimmune reaction, leading to synovial hypertrophy and chronic joint inflammation along with the potential for extra-articular manifestations, is theorized to occur in genetically susceptible individuals. See the image below.



# ΔΙΑΦΟΡΑ / Κλινικούς

## Πρόληψη

(σε ασθενείς με RF/ACPA με/χωρίς αρθραλγίες)

## Θεραπεία

και όχι καταστολή νόσου



# Θεραπεία και όχι ...καταστολή νόσου

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*Ann Rheum Dis* doi:10.1136/annrheumdis-2014-206106

**Clinical and epidemiological research**

Extended report

**Evaluating drug-free remission with abatacept in early rheumatoid arthritis: results from the phase 3b, multicentre, randomised, active-controlled AVERT study of 24 months, with a 12-month, double-blind treatment period**

 **OPEN ACCESS**

Paul Emery<sup>1,2</sup>, Gerd R Burmester<sup>3</sup>, Vivian P Bykerk<sup>4</sup>, Bernard G Combe<sup>5</sup>, Daniel E Furst<sup>6</sup>, Emilie Barré<sup>7</sup>, Chetan S Karyekar<sup>8</sup>, Dennis A Wong<sup>8</sup>, Tom W J Huizinga<sup>9</sup>

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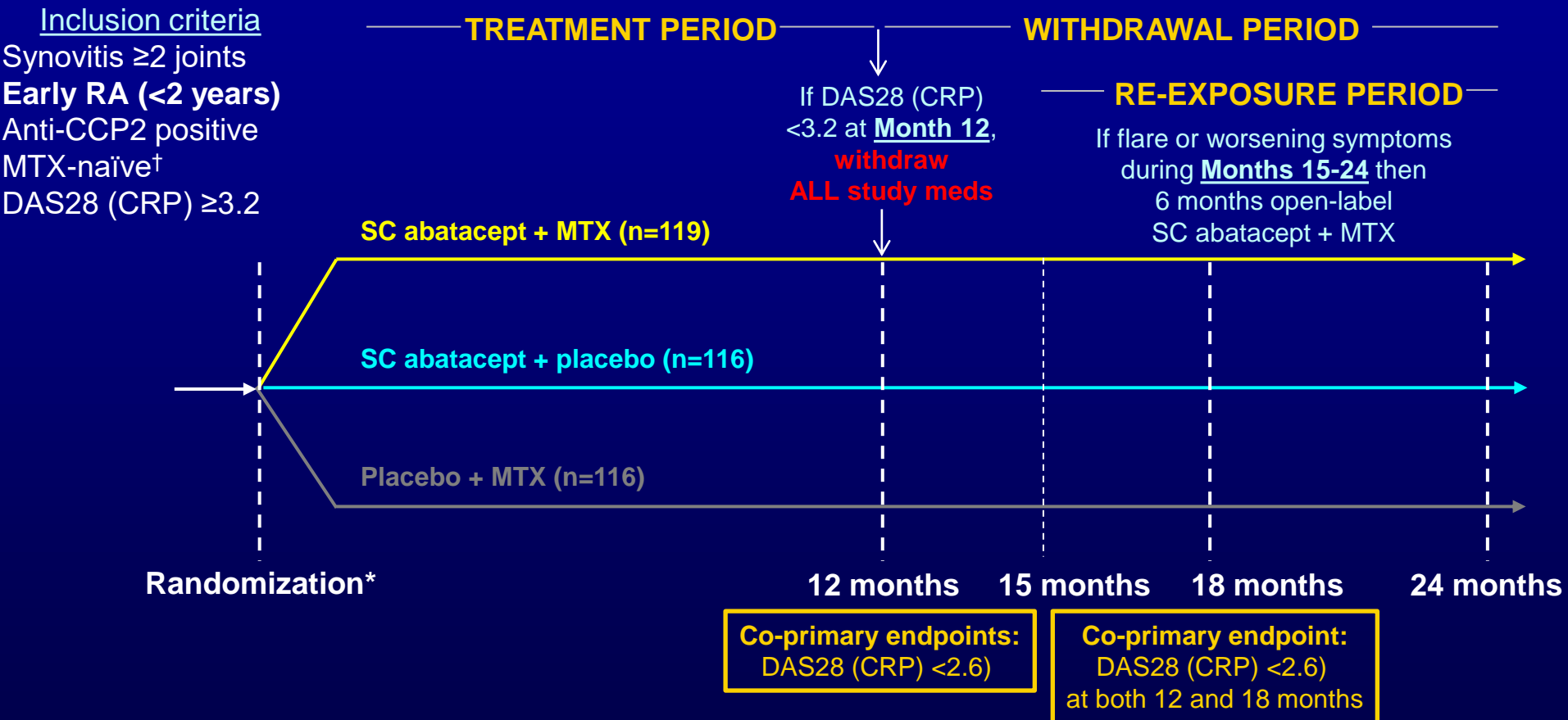




**Impact Factor 9.270**

AVERT Study

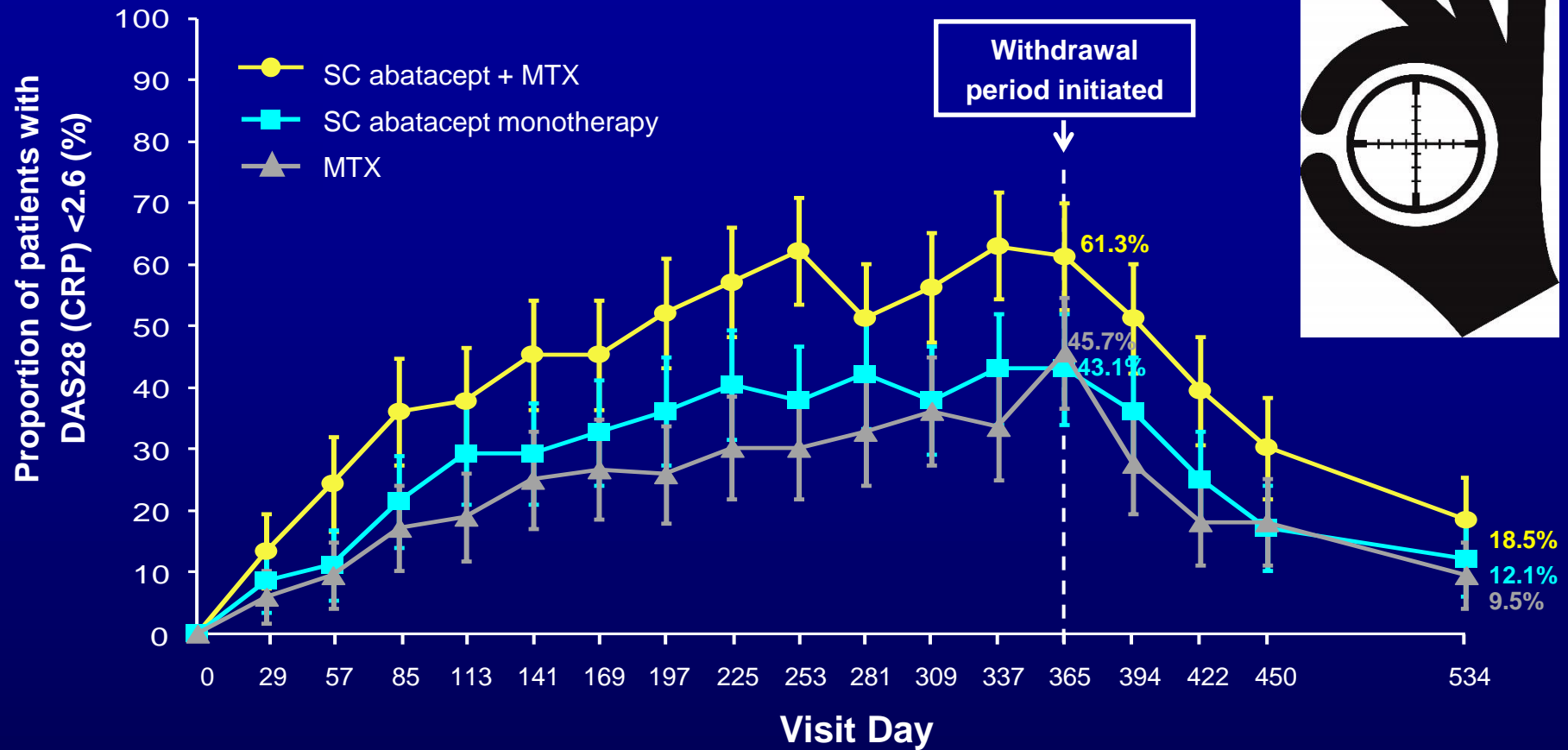
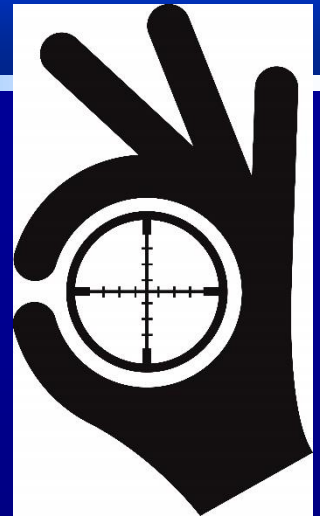
# AVERT Study : σχεδιασμός



MRI was performed at Months 0, 6, 12, 18, and 24

\*Randomization stratified by corticosteroid use at baseline; <sup>†</sup> Or <10 mg/wk MTX for  $\leq 4$  weeks and no dose 1 month prior to study

# AVERT: ασθενείς σε ΥΦΕΣΗ (!)



Error bars represent 95% CI  
ITT population

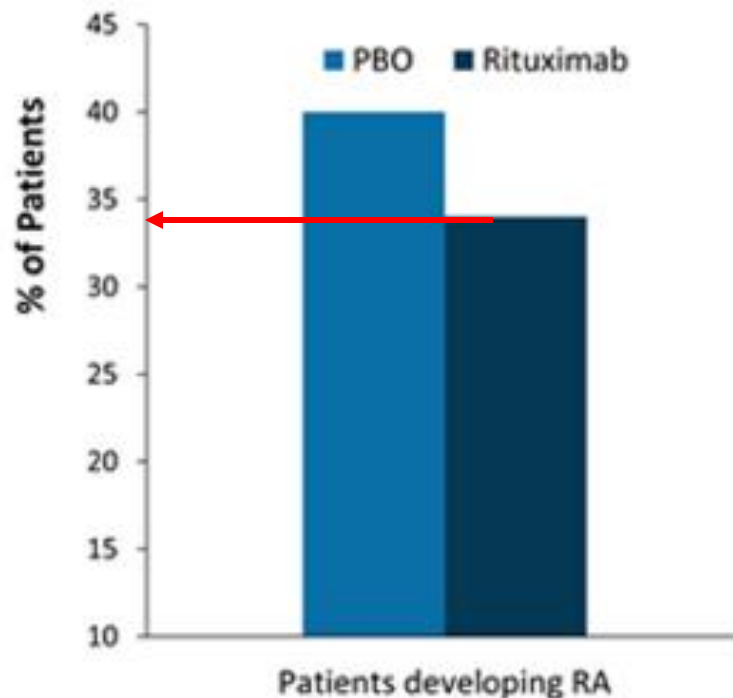
# Θεραπεία και όχι καταστολή νόσου



AVERT is the  
first study  
to demonstrate that  
remission can be maintained  
after rapid withdrawal of all therapy  
(including csDMARDs, biological DMARDs and corticosteroids) in  
patients with early RA

## ΠΡΟΛΗΨΗ (RF & ACPA +)

### Prevention of RA by B-Cell-Directed Therapy in the Earliest Phase of the Disease: The PRAIRI Study



- 82 patients with arthralgia who never had clinically manifest arthritis and never used disease-modifying anti-rheumatic drugs were included in a multicenter, randomized, double-blind, placebo-controlled clinical trial
- Risk for development of arthritis in the placebo group was 40%; this risk was reduced by 53% in the rituximab group at 18 months follow up

# Arthritis Research & Therapy

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## Two-year results of disease activity score (DAS)-remission-steered treatment strategies aiming at drug-free remission in early arthritis patients (the IMPROVED-study)

[Lotte Heimans<sup>†</sup>](#), [Gülşah Akdemir<sup>†</sup>](#)  , [Kirsten V. C. Wevers-de Boer](#), [Yvonne P. Goekoop-Ruiterman](#), [Esmeralda T. Molenaar](#), [Johannes H. L. M. van Groenendael](#), [Andreas J. Peeters](#), [Gerda M. Steup-Beekman](#), [Leroy R. Lard](#), [Peter B. J. de Sonnaville](#), [Bernard A. M. Grillet](#), [Tom W. J. Huizinga](#) and [Cornelia F. Allaart](#)

<sup>†</sup> Contributed equally

*Arthritis Research & Therapy* 2016 **18**:23 | DOI: 10.1186/s13075-015-0912-y | © Heimans et al. 2016

Received: 22 September 2015 | Accepted: 29 December 2015 | Published: 21 January 2016



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RESEARCH ARTICLE | OPEN ACCESS

Two-year results of disease activity score (DAS)-remission-steered treatment strategies aiming at drug-free remission in early arthritis patients (the IMPROVED-study)

- 610 ασθενείς με πρώιμη ΡΑ ή αδιαφοροποίητη αρθρίτιδα αντιμετωπίστηκαν με MTX και στοχευμένα υψηλή δόση κορτιζόνης
- Σε ασθενείς **πρώιμα σε ύφεση** ( $DAS < 1,6$  σε 4 μήνες), γινόταν προοδευτικά μείωση και **διακοπή** της αγωγής
- Ασθενείς που **δεν πέτυχαν πρώιμα ύφεση**, τυχαιοποιήθηκαν σε
  - συνδυαστική θεραπεία (MTX & SSZ & HCQ & κορτιζόνη) ή σε
  - MTX & adalimumab
  - Σε  $DAS < 1,6$ , η αγωγή σταδιακά μειωνόταν και **σταματούσε**

## Arthritis Research & Therapy

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RESEARCH ARTICLE | OPEN ACCESS

Two-year results of disease activity score (DAS)-remission-steered treatment strategies aiming at drug-free remission in early arthritis patients (the IMPROVED-study)

- Στα 2 χρόνια,
  - 301/610 (49 %) ασθενείς ήταν σε DAS-ύφεση και
  - 131/610 (**21 %**) **ελεύθεροι κάθε αγωγής**
- Ειδικά στην ομάδα **πρώιμης ύφεσης**,
  - 62 % ήταν σε DAS-ύφεση και
  - **29 %** **ελεύθεροι κάθε αγωγής**



# Ανεκπλήρωτες ανάγκες στην ΡΑ / κλινικοί

## Biomarkers

- Ποιος δεν θα απαντήσει στη θεραπεία / σε κάθε θεραπεία ?
- Σε ποιον μπορεί εύκολα να διακοπεί μια βιολογική θεραπεία ?

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Articles

Tumour necrosis factor inhibition versus rituximab for patients with rheumatoid arthritis who require biological treatment (ORBIT): an open-label, randomised controlled, non-inferiority, trial

In the largest gene-expression study of these drugs to date, researchers from Glasgow found 23 genes that predicted response to TNF inhibitors, and 23 more that predicted response to rituximab. They also found eight genes that predicted positive response to both types of drugs.

), Prof

# Ανεκπλήρωτες ανάγκες στην ΡΑ / κλινικοί

Θεραπεία ανθεκτικών σε 1ο βιολογικό !

- Δύσκολοι ασθενείς
- Ίδιο ή άλλο μηχανισμό δράσης ?
- Βιολογικό ή αναστ κινασών

## Switching: Within the Same Class? To a New Class?

- Failure to respond to TNF inhibitors remains a serious concern for patients with RA
- Switching to another TNF inhibitor provides inadequate responses in patients with RA
- Switching to one of several currently approved non-TNF inhibitors (IL-1, IL-6 inhibitors; B-cell inhibitor) may be more effective in RA patients

www.b.elsevier.com/locate/jr. 2014.01.001

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Volume 381, No. 9865, p451–460, 9 February 2013

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Articles

## Tofacitinib (CP-690,550) in combination with methotrexate in patients with active rheumatoid arthritis with an inadequate response to tumour necrosis factor inhibitors: a randomised phase 3 trial

Prof Gerd R Burmester, MD  , Ricardo Blanco, MD, Christina Charles-Schoeman, MD, Prof Jürgen Wollenhaupt, MD, Cristiano Zerbini, MD, Birgitta Benda, MD, David Gruben, PhD, Gene Wallenstein, PhD, Sriram Krishnaswami, PhD, Samuel H Zwillich, MD, Tamas Koncz, MD, Koshika Soma, MD, John Bradley, MD, Charles Mebus, PhD, on behalf of the ORAL Step investigators

Published: 05 January 2013



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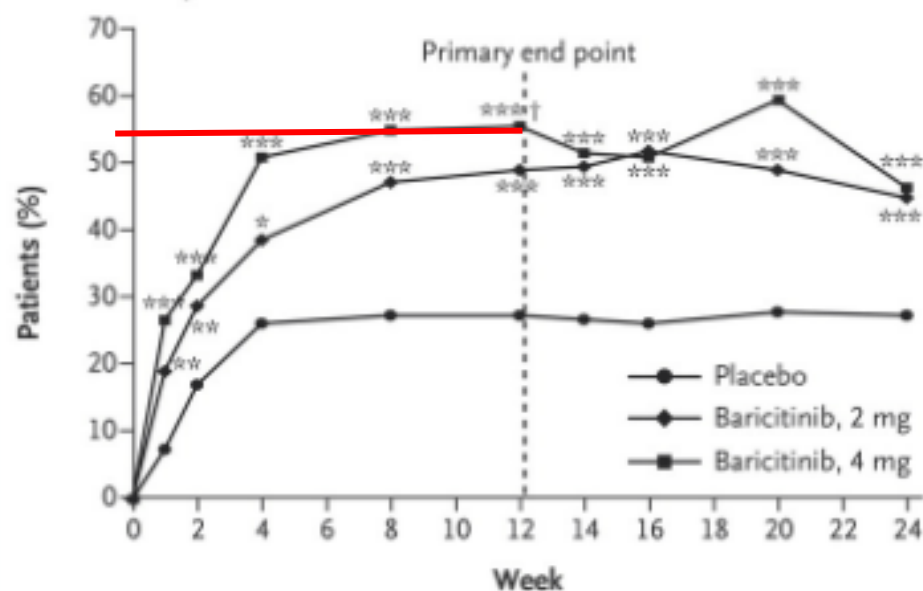
## ORIGINAL ARTICLE

### Baricitinib in Patients with Refractory Rheumatoid Arthritis

Mark C. Genovese, M.D., Joel Kremer, M.D., Omid Zamani, M.D., Charles Ludivico, M.D., Marek Krogulec, M.D., Li Xie, M.S., Scott D. Beattie, Ph.D., Alisa E. Koch, M.D., Tracy E. Cardillo, M.S., Terence P. Rooney, M.D., William L. Macias, M.D., Ph.D., Stephanie de Bono, M.D., Ph.D., Douglas E. Schlichting, M.S., and Josef S. Smolen, M.D.

N Engl J Med 2016; 374:1243-1252 |

#### A ACR20 Response



# Ανεκπλήρωτες ανάγκες στην ΡΑ καθημέρα κλ πράξη

Έχει νόημα να μετρούμε **επίπεδα φαρμάκου ή ADA** σε ασθενείς που δεν ανταποκρίνονται καλά ?

Επιθετική Θεραπεία επαγωγής ύφεσης τύπου ΣΕΛ

MTX & βιολογικός στην αρχή

Διατήρηση ύφεσης με MTX

Αποκλιμάκωση στεροειδών μετά από επαγωγή ύφεσης (bridging therapy)

Αποκλιμάκωση MTX σε ηπατική τοξικότητα

ΧΕΙΡΙΣΜΟΣ ΕΞΑΡΣΗΣ : 1ωση κορτιζόνη με/χωρίς αύξηση DMARDS

# Ανεκπλήρωτες ανάγκες στην ΡΑ / ασθενείς



53, 263, 300

RHEUMATOLOGY

Original article

doi:10.1093/rheumatology/keu398

## Quality of life and unmet needs in patients with inflammatory arthropathies: results from the multicentre, observational RAPSODIA study

Roberto Giacomelli<sup>1</sup>, Roberto Gorla<sup>2</sup>, Francesco Trotta<sup>3</sup>, Rosella Tirri<sup>4</sup>, Walter Grassi<sup>5</sup>, Laura Bazzichi<sup>6</sup>, Mauro Galeazzi<sup>7</sup>, Marco Matucci-Cerinic<sup>8</sup>, Raffaele Scarpa<sup>9</sup>, Fabrizio Cantini<sup>10</sup>, Roberto Gerli<sup>11</sup>, Giovanni Lapadula<sup>12</sup>, Luigi Sinigaglia<sup>13</sup>, Gianfranco Ferraccioli<sup>14</sup>, Ignazio Olivieri<sup>15</sup>, Piero Ruscitti<sup>1</sup> and Piercarlo Sarzi-Puttini<sup>16</sup>



Original article

doi:10.1093/rheumatology/keu398

**Quality of life and unmet needs in patients with inflammatory arthropathies: results from the multicentre, observational RAPSODIA study**

Roberto Giacomelli<sup>1</sup>, Roberto Gorla<sup>2</sup>, Francesco Trotta<sup>3</sup>, Rosella Tirri<sup>4</sup>, Walter Grassi<sup>5</sup>, Laura Bazzichi<sup>6</sup>, Mauro Galeazzi<sup>7</sup>, Marco Matucci-Cerinic<sup>8</sup>, Raffaele Scarpa<sup>9</sup>, Fabrizio Cantini<sup>10</sup>, Roberto Gerli<sup>11</sup>, Giovanni Lapadula<sup>12</sup>, Luigi Sinigaglia<sup>13</sup>, Gianfranco Ferraccioli<sup>14</sup>, Ignazio Olivieri<sup>15</sup>, Piero Ruscitti<sup>1</sup> and Piercarlo Sarzi-Puttini<sup>16</sup>

743 patients with RA, AS and PsA

- their involvement in medical decisions
- quality of life and
- unmet needs

15 years after the introduction of biologic therapies in Italy

Original article

doi:10.1093/rheumatology/keu398

**Quality of life and unmet needs in patients with inflammatory arthropathies: results from the multicentre, observational RAPSODIA study**

Roberto Giacomelli<sup>1</sup>, Roberto Gorla<sup>2</sup>, Francesco Trotta<sup>3</sup>, Rosella Tirri<sup>4</sup>, Walter Grassi<sup>5</sup>, Laura Bazzichi<sup>6</sup>, Mauro Galeazzi<sup>7</sup>, Marco Matucci-Cerinic<sup>8</sup>, Raffaele Scarpa<sup>9</sup>, Fabrizio Cantini<sup>10</sup>, Roberto Gerli<sup>11</sup>, Giovanni Lapadula<sup>12</sup>, Luigi Sinigaglia<sup>13</sup>, Gianfranco Ferraccioli<sup>14</sup>, Ignazio Olivieri<sup>15</sup>, Piero Ruscitti<sup>1</sup> and Piercarlo Sarzi-Puttini<sup>16</sup>

98% of patients reported that their health care practitioner used understandable terms to **explain their condition**

**Joint issues and general symptoms** (e.g. fatigue and malaise) were common (50%)

All measures of disease activity and self-efficacy scores were markedly **better in patients receiving biologic** vs conventional therapy

Biologic therapy recipients were more **productive at work**

## Original article

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About 60% of enrolled patients needed **more information**, especially about diagnosis, medication, exercises and how to improve performance of daily activities

only about one-third (37.1%) were **satisfied with the information** provided during treatment

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## Other symptoms were

- tender and swollen joints (52%)
- reduced joint mobility (26%)
- back pain (26%)
- walking difficulties (22%)
- morning stiffness (19%)

**ΔΙΑΚΡΙΣΗ:**

- ΠΡΩΙΜΗΣ ΡΑ
- ΕΓΚΑΤΕΣΤΗΜΕΝΗΣ ΡΑ
  - Χρόνιες βλάβες (μη αναστρ)
  - Κεντρική ευαισθητοποίηση

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- 72% felt that their life was **ruled by the disease** and expressed frustration about their disability
- More than 60% were **no longer able to carry out normal activities**, which strongly affected their psychological well-being.
  - anxiety was reported by 57% of patients
  - 39% showed levels of irritability
  - 21% reported sexual problems

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## The unmet need in rheumatology: reports from the Targeted Therapies meeting 2016

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J. Bathon<sup>7</sup>, M.H. Buch<sup>8</sup>, G.R. Burmester<sup>9</sup>, M. Dougados<sup>10</sup>, J. Kay<sup>11</sup>, X. Mariette<sup>12</sup>,  
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	Primary Unmet Need	Secondary Unmet Needs
Translational science	Understanding the role of the microbiome in disease development and modulation	Identifying sites beyond the joint ( <i>e.g.</i> gut) that may be driving joint inflammation
	Development of molecular definitions of disease remission, flare, refractoriness	Development of animal models that better reflect human disease
	Identifying Biomarkers including imaging that predict or rapidly identify treatment response	
	Further development of longitudinal, clinically well-characterised cohorts with appropriate imaging, tissue and fluid samples	

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### Primary Unmet Need

### Secondary Unmet Needs

#### Clinical science and therapeutic trials

Development of therapeutics that repair damage, including outside the joint (*e.g.* interstitial lung disease)

Evaluation of existing therapies in combination

Trials that include older patients with comorbidities that will enhance our understanding of the safety of existing therapies

Trials evaluating the benefits of early treatment (*e.g.* change the long-term prognosis of disease)

The development of approaches to prevent RA (*e.g.* screening, tolerisation, vaccination)

Development of therapeutic alternatives for analgesia

Development of non-immunosuppressive disease control

Clinical Study of extreme phenotypes: those who respond very well *vs.* those who don't respond at all

Better understanding of secondary failure (anti-drug antibody or other mechanisms)

Better understanding and categorisation of seronegative patients

Development of infrastructure for using electronic health records in clinical research

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### **Primary Unmet Need**

### **Secondary Unmet Needs**

#### **Clinical care**

Achieving cure  
Identifying patients who can taper their treatment  
Moderation of drug pricing and the improvement of  
access to existing and new therapies

Achieving remission in greater proportions of  
patients (still not more than 30%)





- Hepatitis C Virus : \$6.5 billion, is expected to peak in 2024 at over \$9.1 billion.
- Chronic Obstructive Pulmonary Disease (COPD) and Asthma: \$76 billion per year.
- Back Pain: \$41 billion annually.
- Mental Illness: \$83 billion.
- High Blood Pressure: \$47 billion yearly.
- Cancer: \$87 billion in 2014
- Diabetes: \$60 billion per year.
- Injuries & Trauma: annual cost at \$92 billion.
- Osteoarthritis & Joint Problems: \$74 billion
- Heart Disease: \$100 billion per year.



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