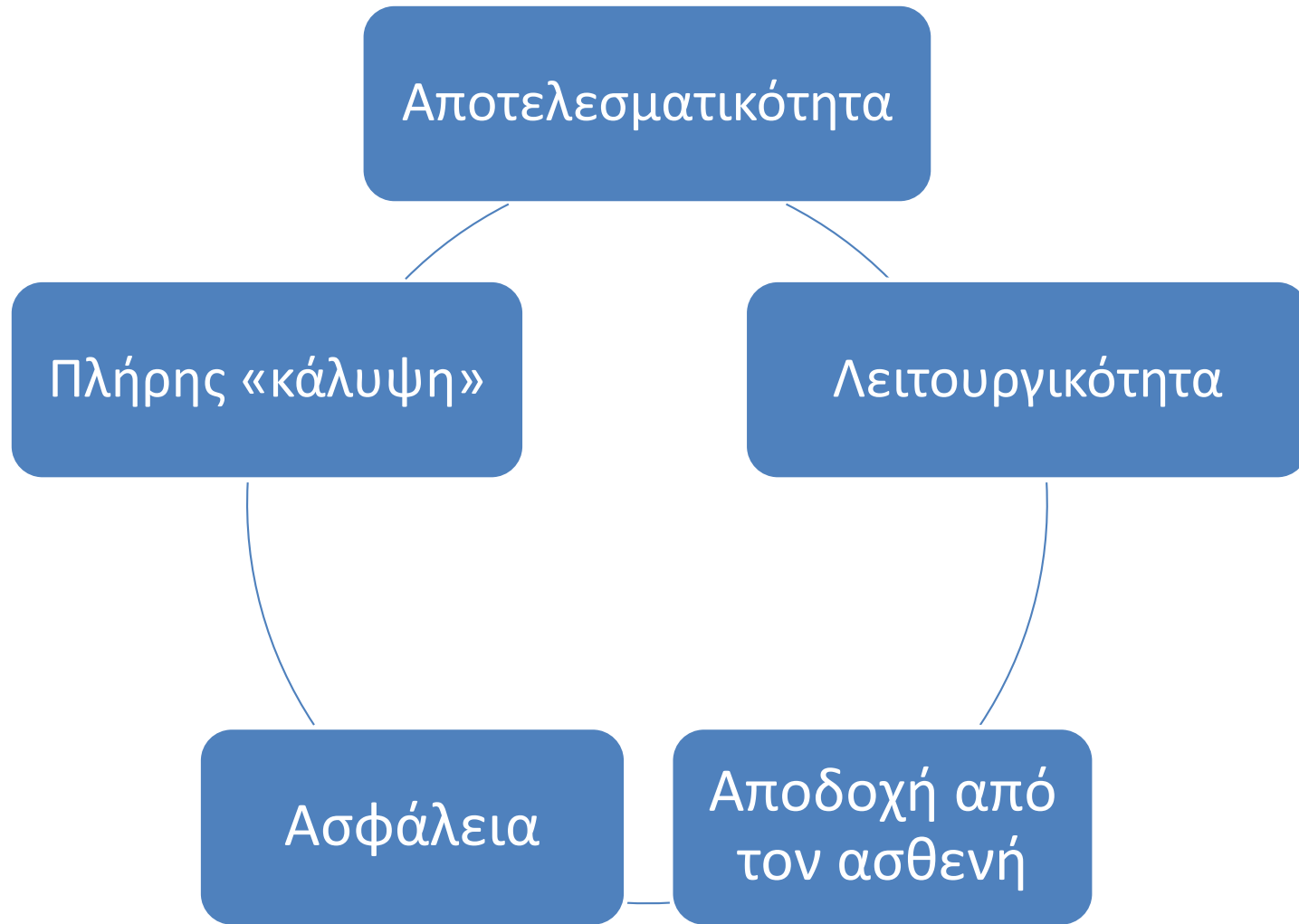


# Η παραμονή στην θεραπεία στις φλεγμονώδεις αρθρίτιδες

Δημήτρης Τσερώνης  
Ρευματολόγος

# Παραμονή στη θεραπεία σημαίνει...



# Παραμονή στη θεραπεία στην καθημερινή κλινική πράξη

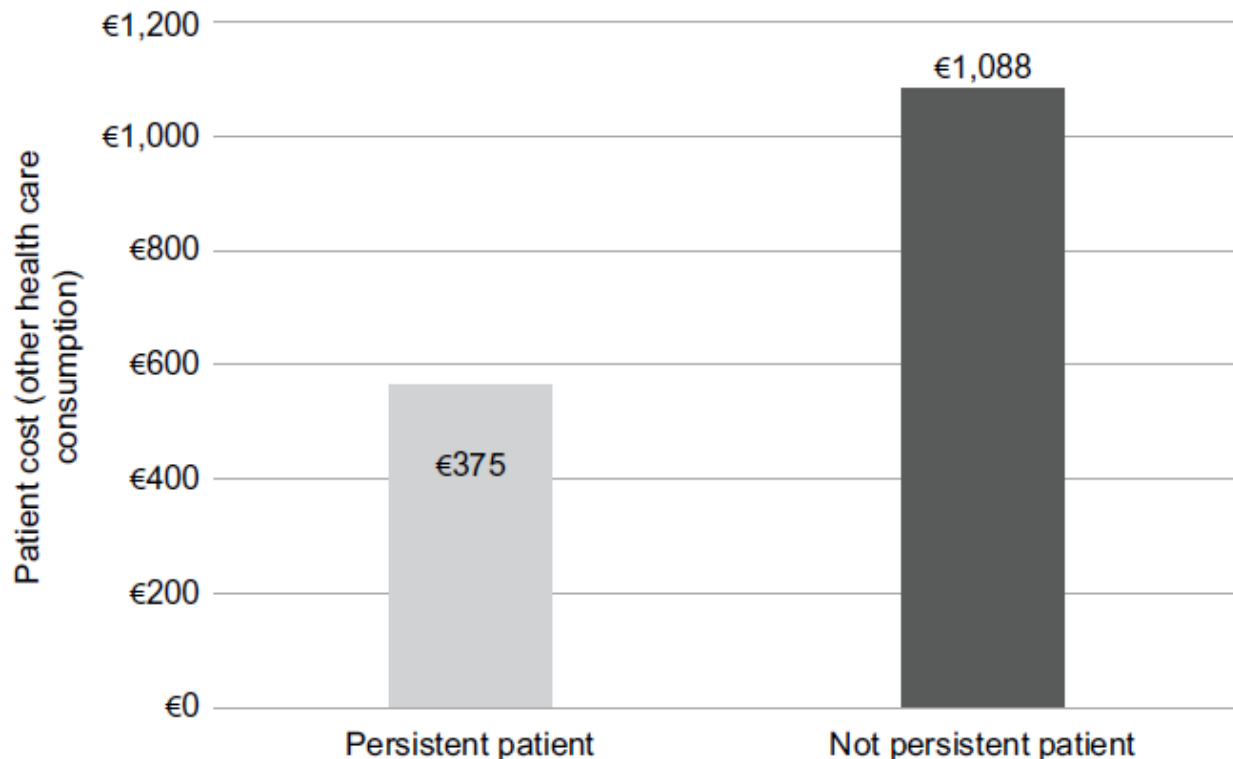
- Έλεγχος της νόσου
- Αναστολή προόδου της νόσου
- Έλεγχος των συνοδών νοσημάτων
- Απουσία ανεπιθύμητων συμβαμάτων
- Ποιότητα ζωής του ασθενή

1. Degli Esposti L et al, *ClinicoEconomics and Outcomes Research* 2014:6; 2. Tang B et al, *Clinical Therapeutics/Volume 30, Number 7, 2008*; 3. Bolge S, Goren A, Tandon M, *Patient Preference and Adherence* 2015:9

# Παραμονή στη θεραπεία & χρήση πόρων υγείας

## Παράδειγμα από την Ρευματοειδή Αρθρίτιδα

Επιπλέον κόστη μη σχετιζόμενα με την φαρμακευτική δαπάνη



**Figure 7** Costs for other health care consumption (excluding drugs).

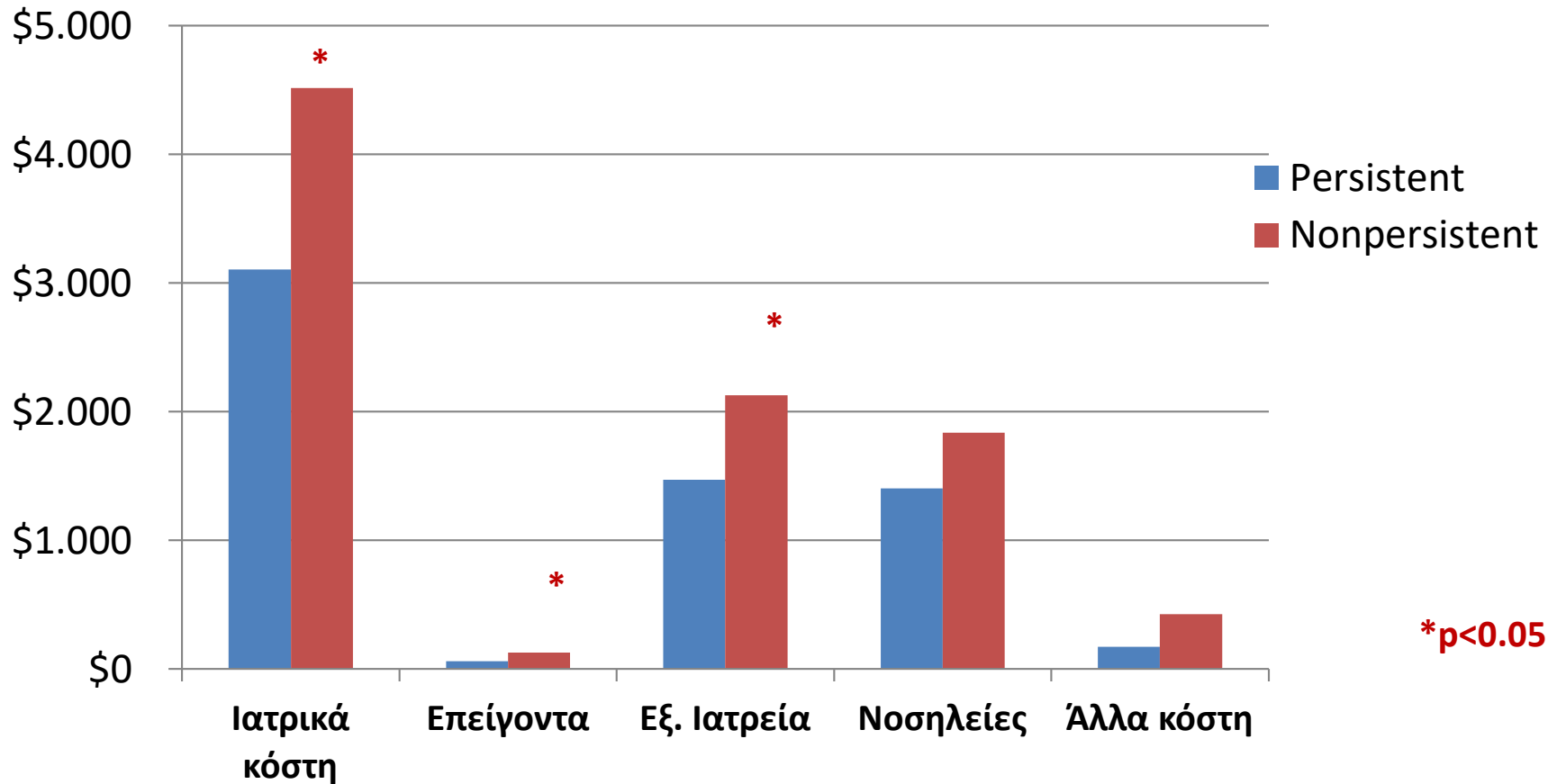
Persistence, switch rates, drug consumption and costs of biological treatment of rheumatoid arthritis: an observational study in Italy

[Clinicoecon Outcomes Res.](#) 2017; 9: 9–17. Published online 2016 Dec 21. doi: [10.2147/CEOR.S108730](https://doi.org/10.2147/CEOR.S108730)

# Παραμονή στη θεραπεία & χρήση πόρων υγείας

## Παράδειγμα από το ΣΔ

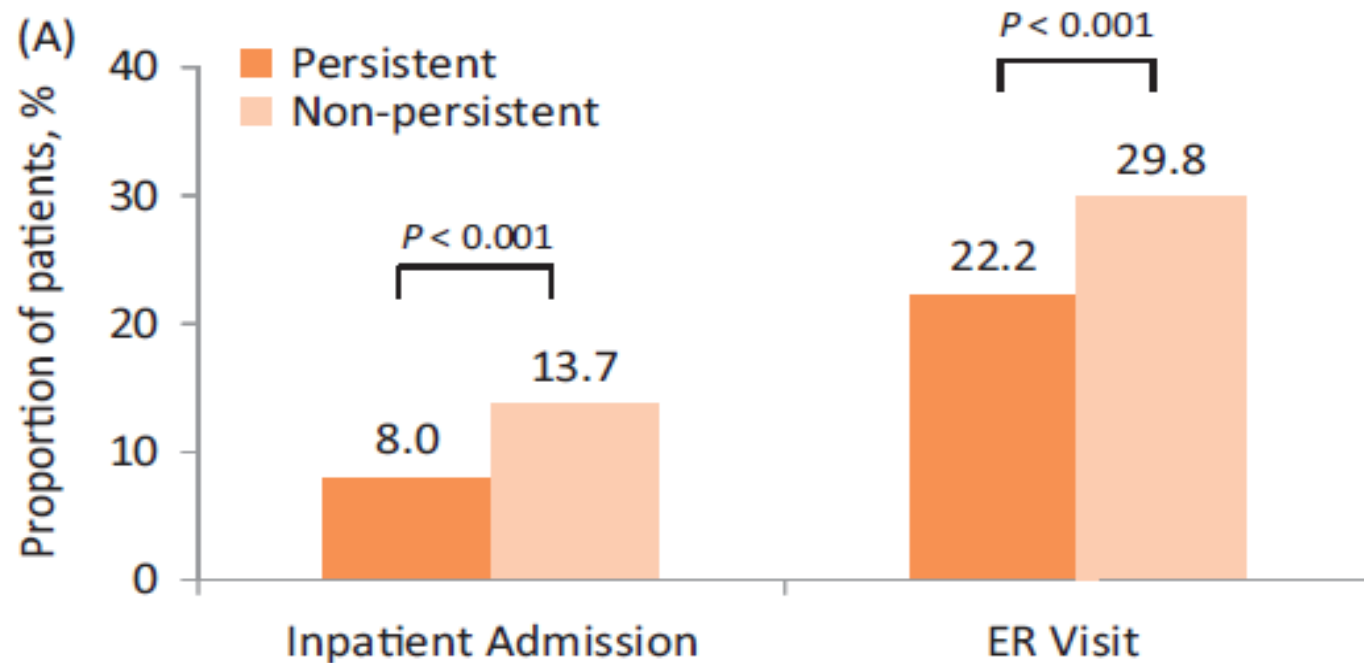
Επίδραση της παραμονής στη θεραπεία ασθενών με διαβήτη τύπου 2 σε διάφορες πτυχές του κόστους περίθαλψης



*Buysman EK, Liu F, Hammer M, Langer J. Impact of Medication Adherence and Persistence on Clinical and Economic Outcomes in Patients with Type 2 Diabetes Treated with Liraglutide: A Retrospective Cohort Study. Advances in Therapy. 2015;32(4):341-355.*

# Παραμονή στη θεραπεία & χρήση πόρων υγείας

## Παράδειγμα από την πολλαπλή σκλήρυνση



Για τους ασθενείς που παραμένουν στη θεραπεία

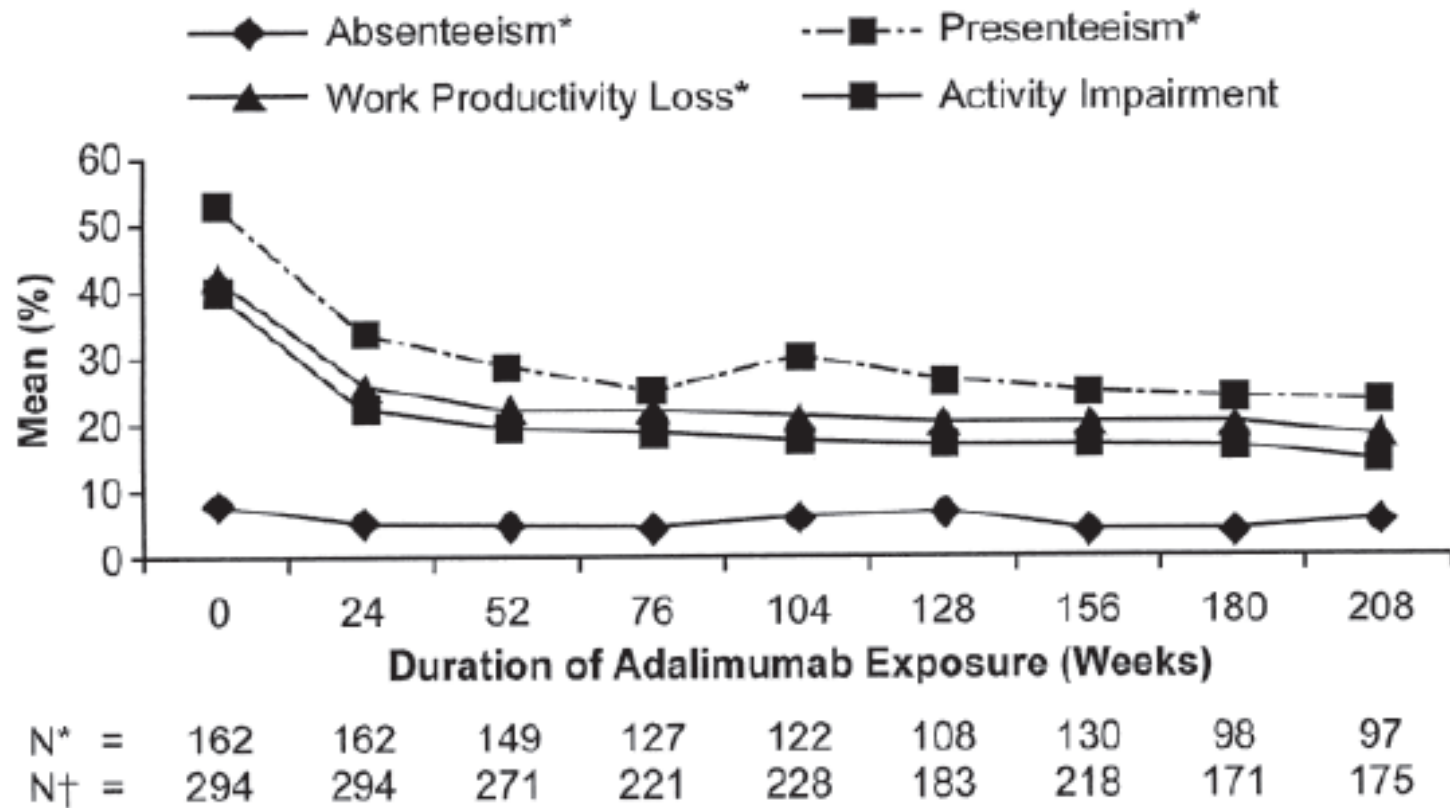
- 50% λιγότερες εισαγωγές στο νοσοκομείο
- 35% λιγότερες προσελεύσεις στα επείγοντα

# Παραμονή στη βιολογική θεραπεία ασθενών με ρευματικά νοσήματα...*value for money* ?

## Ασθενείς με >80% παραμονή vs. <80% παραμονή

- Υψηλότερο φαρμακευτικό κόστος
- 60% μείωση του μη φαρμακευτικού κόστους (επισκέψεις στο γιατρό, εξετάσεις, εισαγωγή στο νοσοκομείο, νοσηλείες κλπ)
- Χαμηλότερη συννοσηρότητα
- Υψηλότερη ποιότητα ζωής του ασθενή (intangible costs)

# Επίδραση της παραμονής στην θεραπεία στην ικανότητα για εργασία





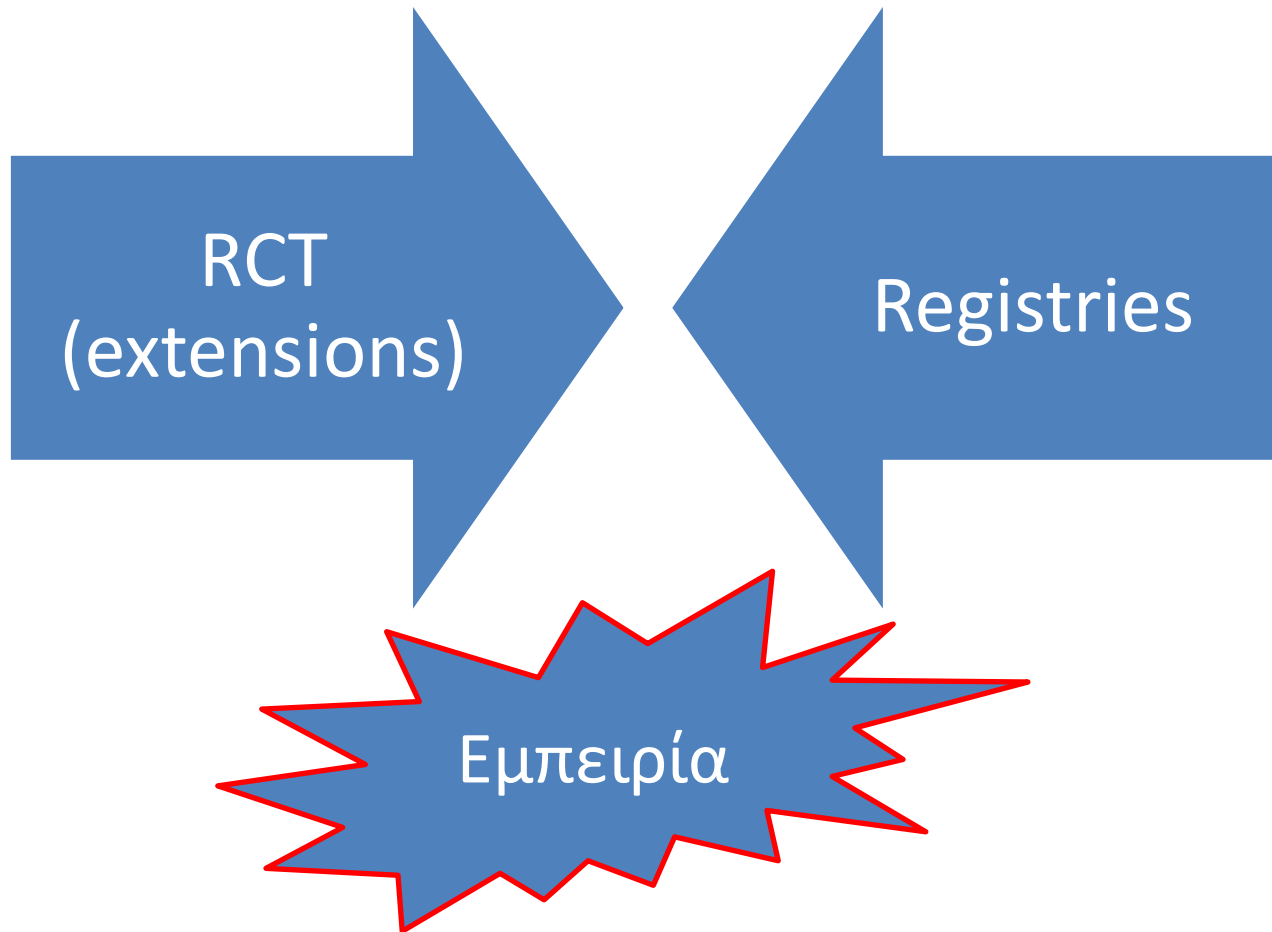
# Σχετίζεται η παραμονή στην θεραπεία με τον θεραπευτικό μας στόχο ;

## Efficacy VS effectiveness?

- **Efficacy**=ανταπόκριση σε συγκεκριμένους δείκτες στις κλινικές μελέτες.
- **Effectiveness**=αποτελεσματικότητα του φαρμάκου στην κλινική πράξη

Οι αντι-TNF έχουν αποδείξει efficacy στις κλινικές μελέτες, το effectiveness τους όμως στην κλινική πράξη εξαρτάται από την παραμονή στη θεραπεία<sup>1,2</sup>

# Παραμονή στη θεραπεία: πόθεν έσχες ;



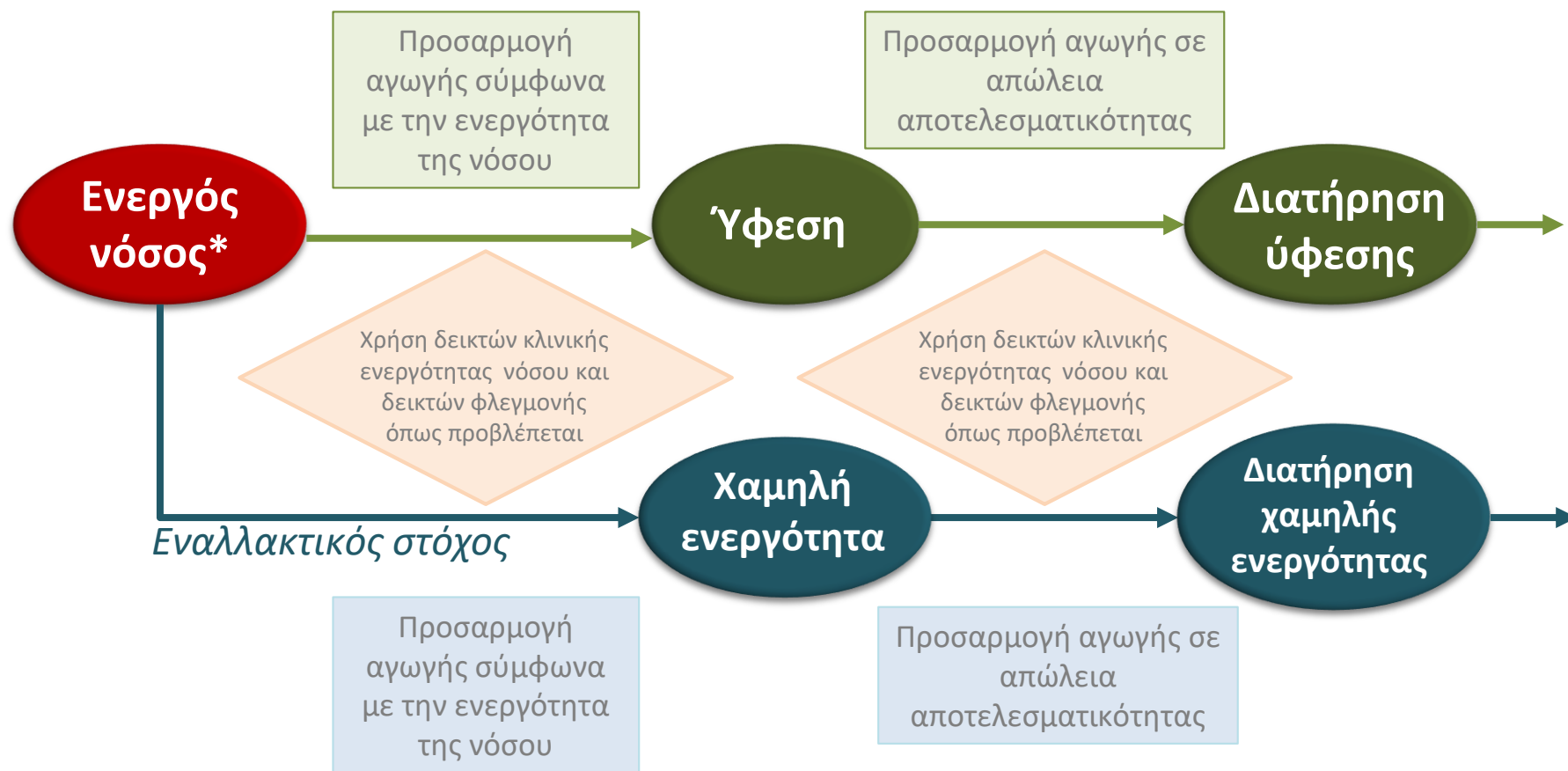
# Παραμονή στην θεραπεία με infliximab

Σχετίζεται η ταχύτητα δράσης με την παραμονή?

διακοπή θεραπείας– διατήρηση αποτελεσματικότητας ?

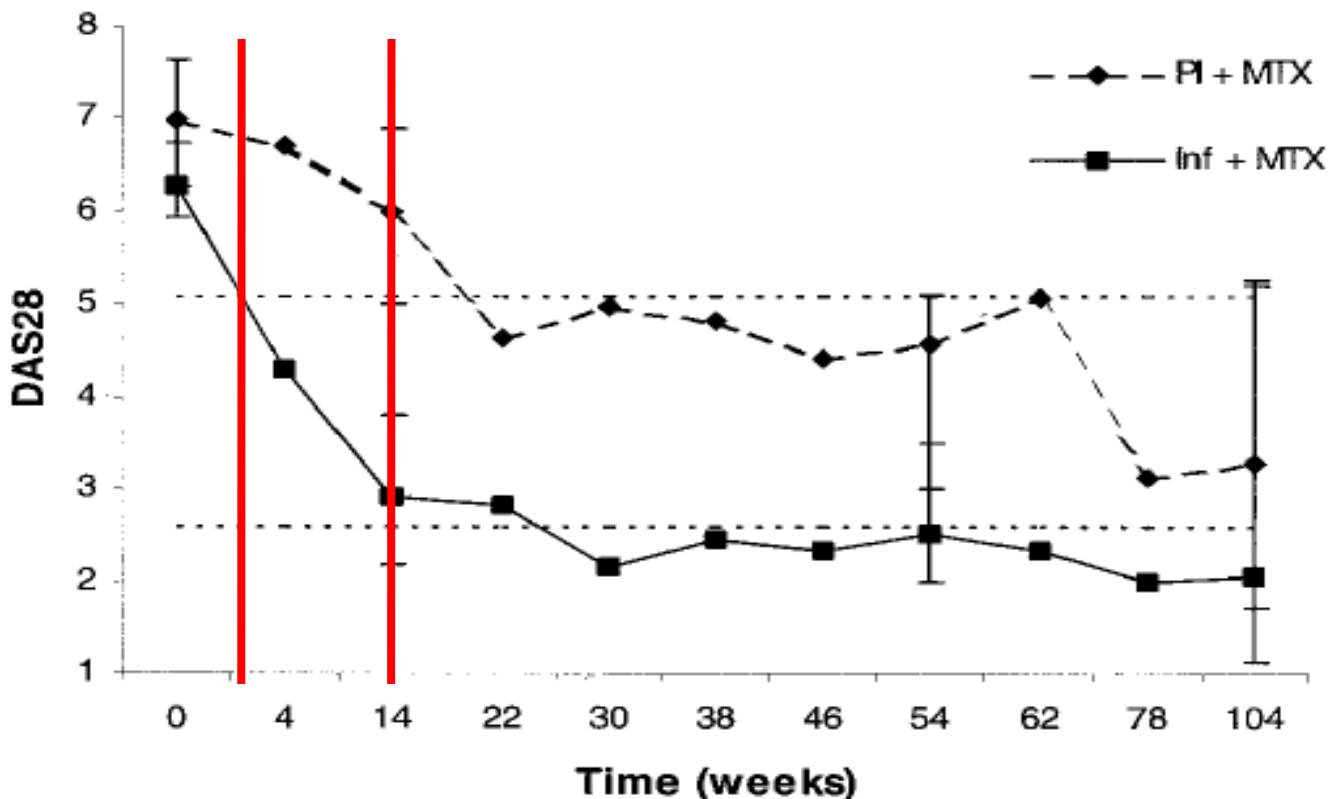
Δεδομένα διατήρησης της θεραπείας στις φλεγμονώδης αρθρίτιδες (Registry-data)

# Η γρήγορη επίτευξη της ύφεσης σχετίζεται με αυξημένη διατήρηση του θεραπευτικού αποτελέσματος (T2T)



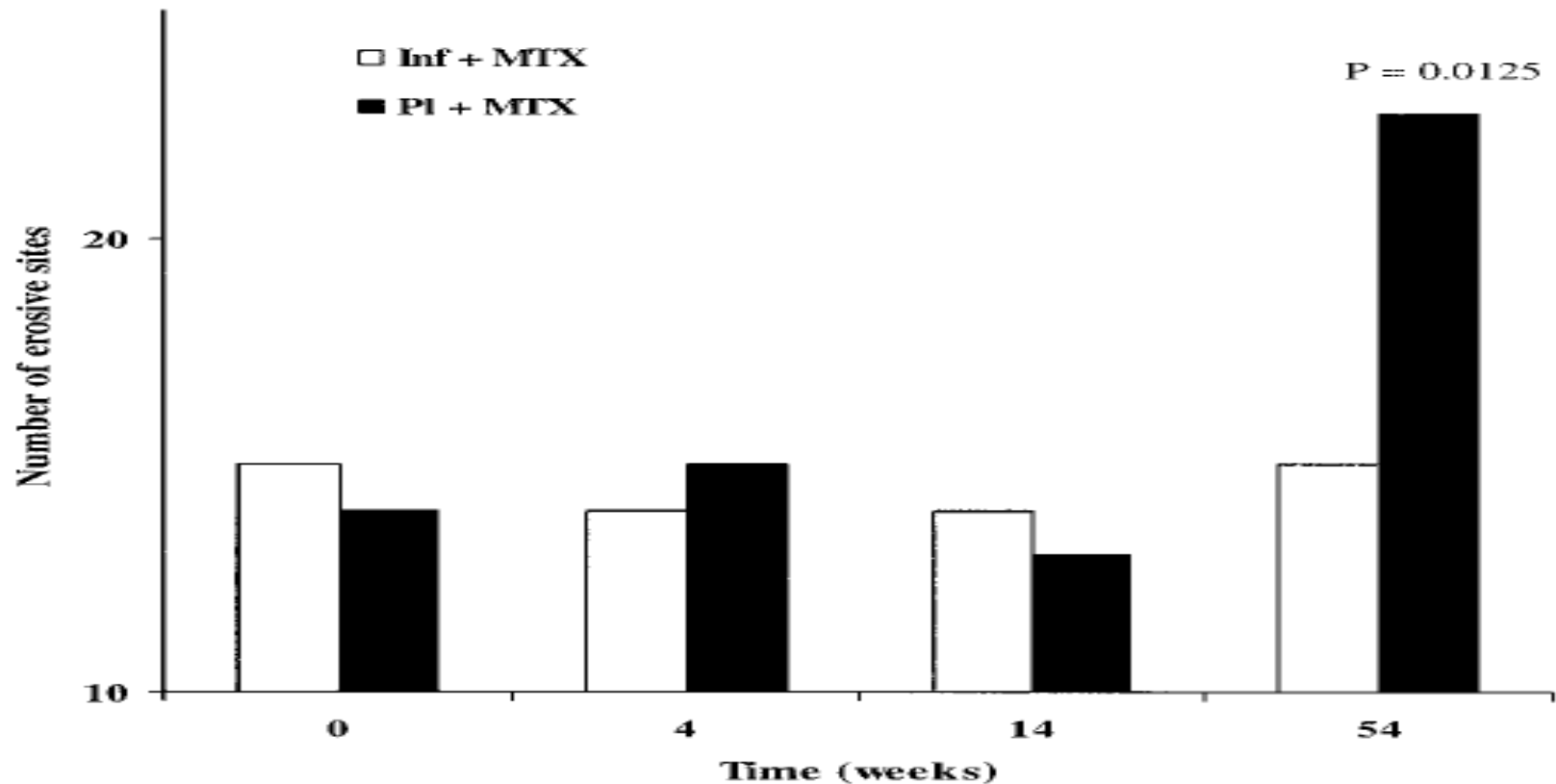
\* Ρευματοειδής αρθρίτιδα, Αγκυλοποιητική σπονδυλαρθρίτιδα, Περιφερική αρθρίτιδα, Ψωριασική αρθρίτιδα

# Η ταχύτητα δράσης σχετίζεται με την διατήρηση της θεραπευτικής απάντησης



Quinn MA et al. Very early treatment with infliximab in addition to methotrexate in early, poor-prognosis rheumatoid arthritis reduces magnetic resonance imaging evidence of synovitis and damage, with sustained benefit after infliximab withdrawal. *Arthritis Rheum* 2005;52:27-35.

# Η «γρήγορη» ένταξη σε infliximab είναι δείκτης καλής πρόγνωσης



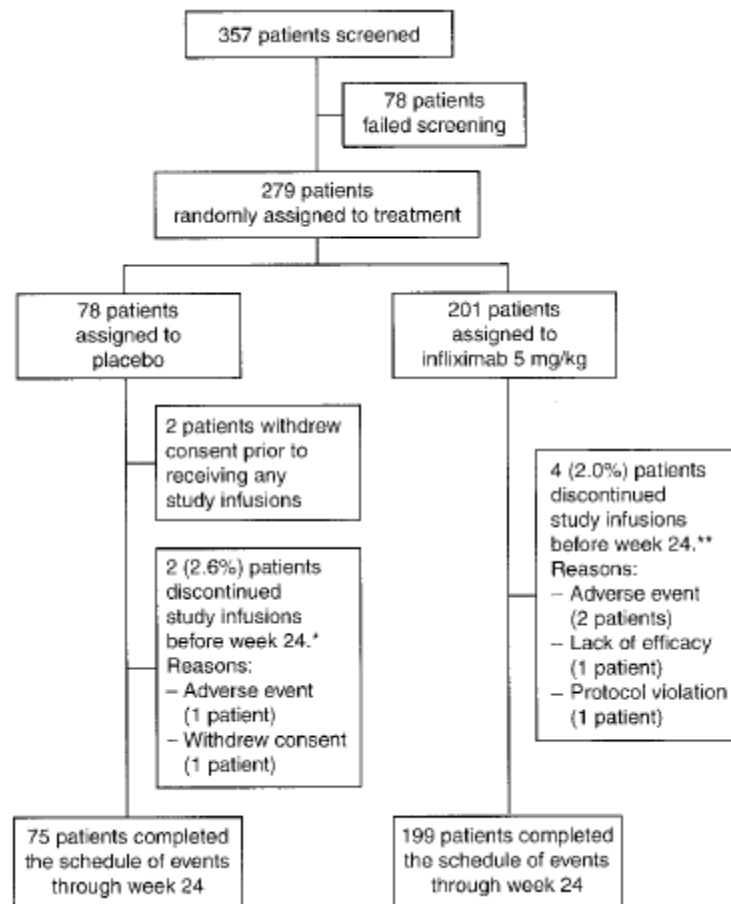
Quinn MA et al. Very early treatment with infliximab in addition to methotrexate in early, poor-prognosis rheumatoid arthritis reduces magnetic resonance imaging evidence of synovitis and damage, with sustained benefit after infliximab withdrawal. *Arthritis Rheum* 2005;52:27-35.

# Ταχύτατη βελτίωση – ύφεση νόσου

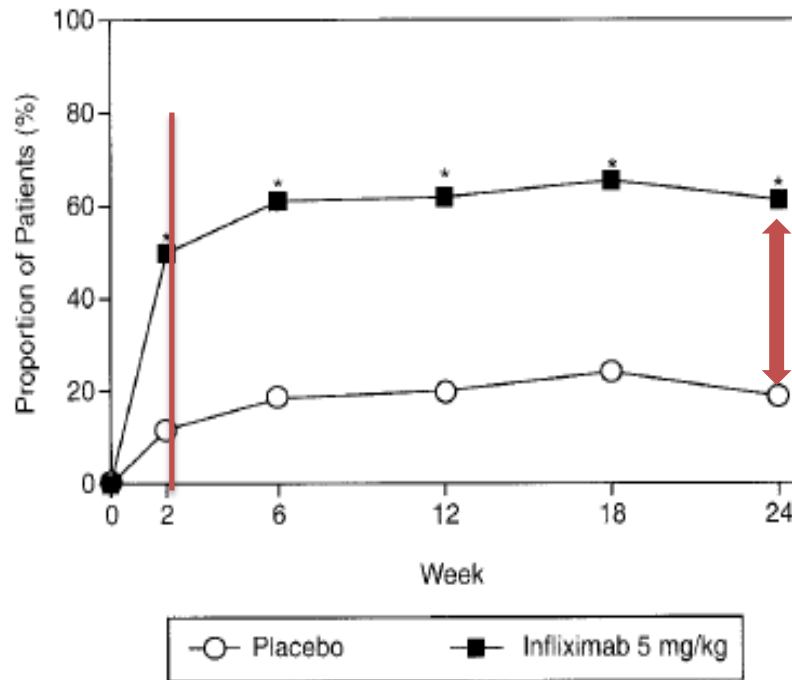
## Efficacy and Safety of Infliximab in Patients With Ankylosing Spondylitis

Results of a Randomized, Placebo-Controlled Trial (ASSERT)

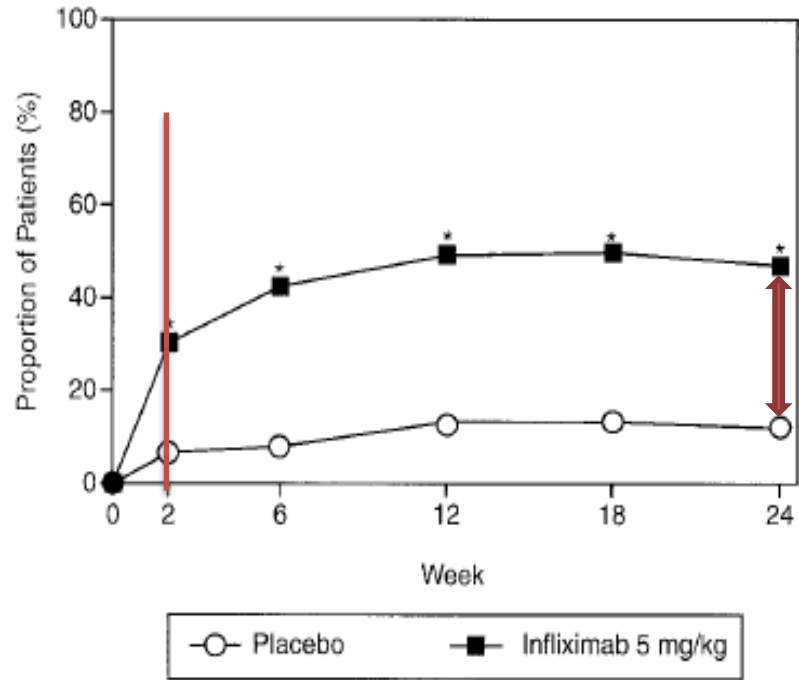
Désirée van der Heijde,<sup>1</sup> Ben Dijkmans,<sup>2</sup> Piet Geusens,<sup>3</sup> Joachim Sieper,<sup>4</sup>  
Kimberly DeWoody,<sup>5</sup> Paul Williamson,<sup>5</sup> Jürgen Braun,<sup>6</sup> and the  
Ankylosing Spondylitis Study for the Evaluation of Recombinant Infliximab  
Therapy Study Group



# Ταχύτατη βελτίωση + διατήρηση ύφεσης νόσου



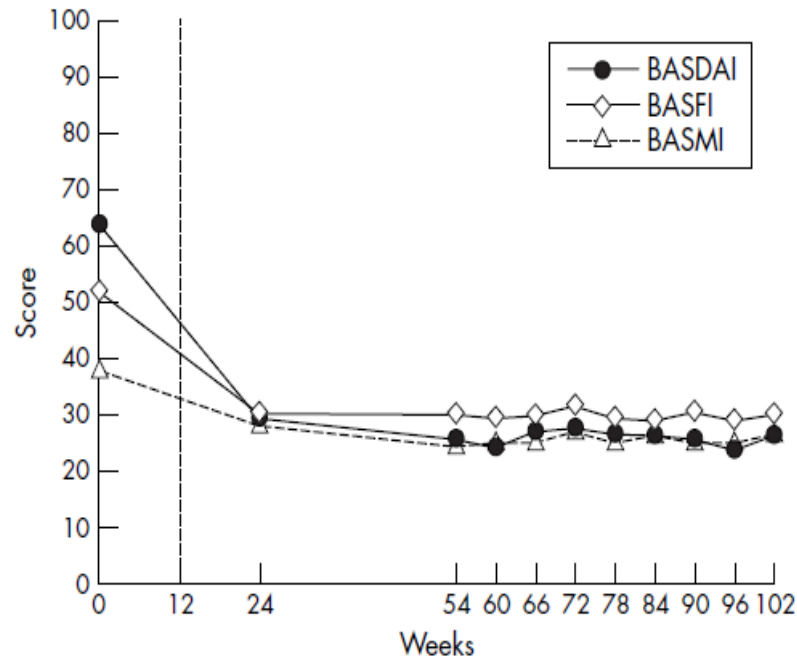
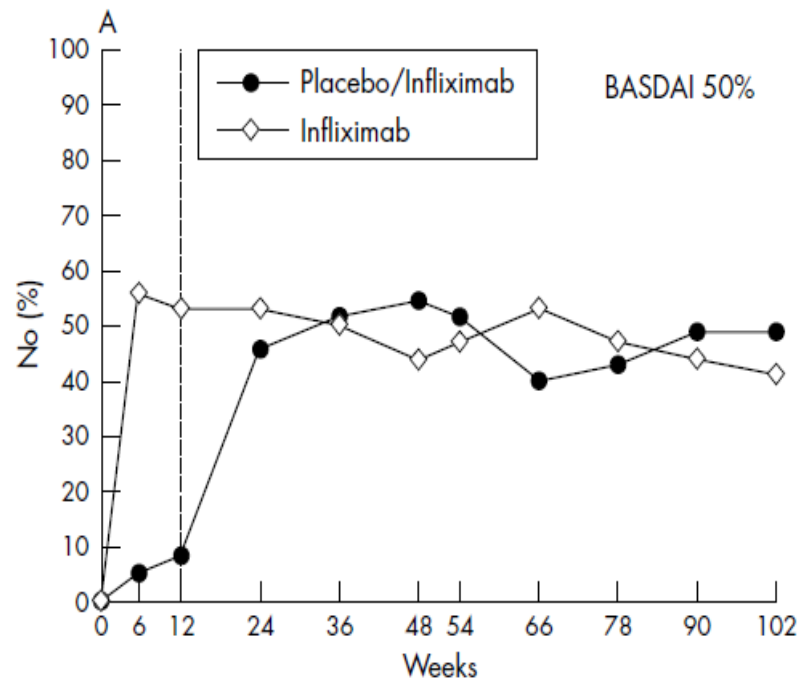
**ASAS 20**



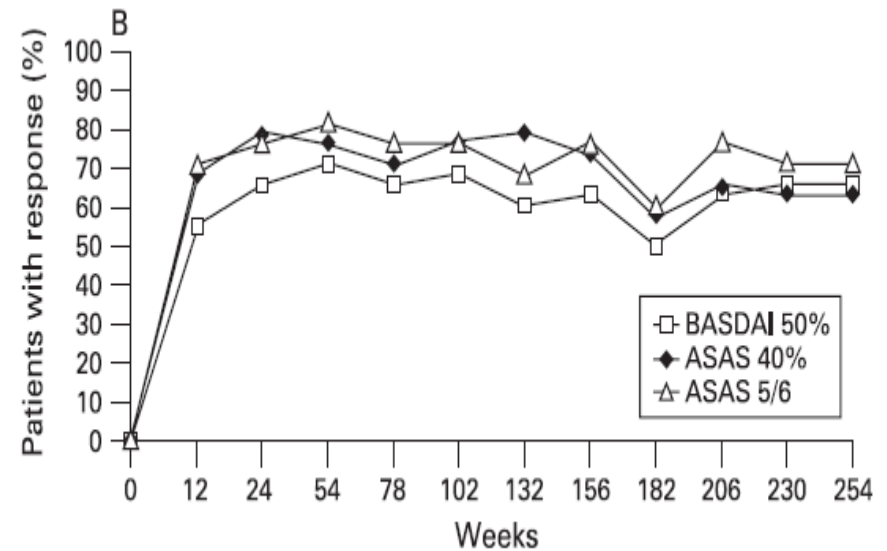
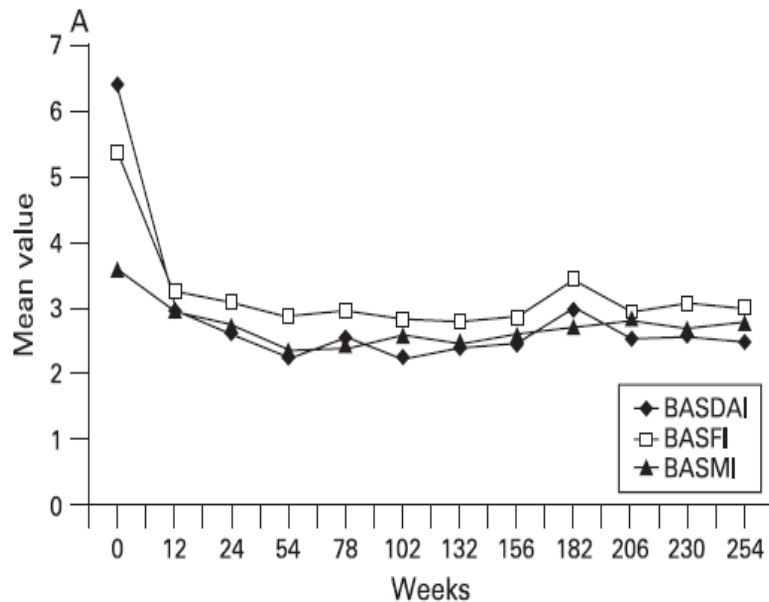
**ASAS 40**



# Μετά από 2 έτη...



# Μετά από 5 έτη...



Braun et al. Persistent clinical efficacy and safety of anti-tumour necrosis factor a therapy with infliximab in patients with ankylosing spondylitis over 5 years: evidence for different types of response Ann Rheum Dis 2008;67:340–345

# Πώς τα πήγαν στα 5 έτη όσοι ολοκλήρωσαν;

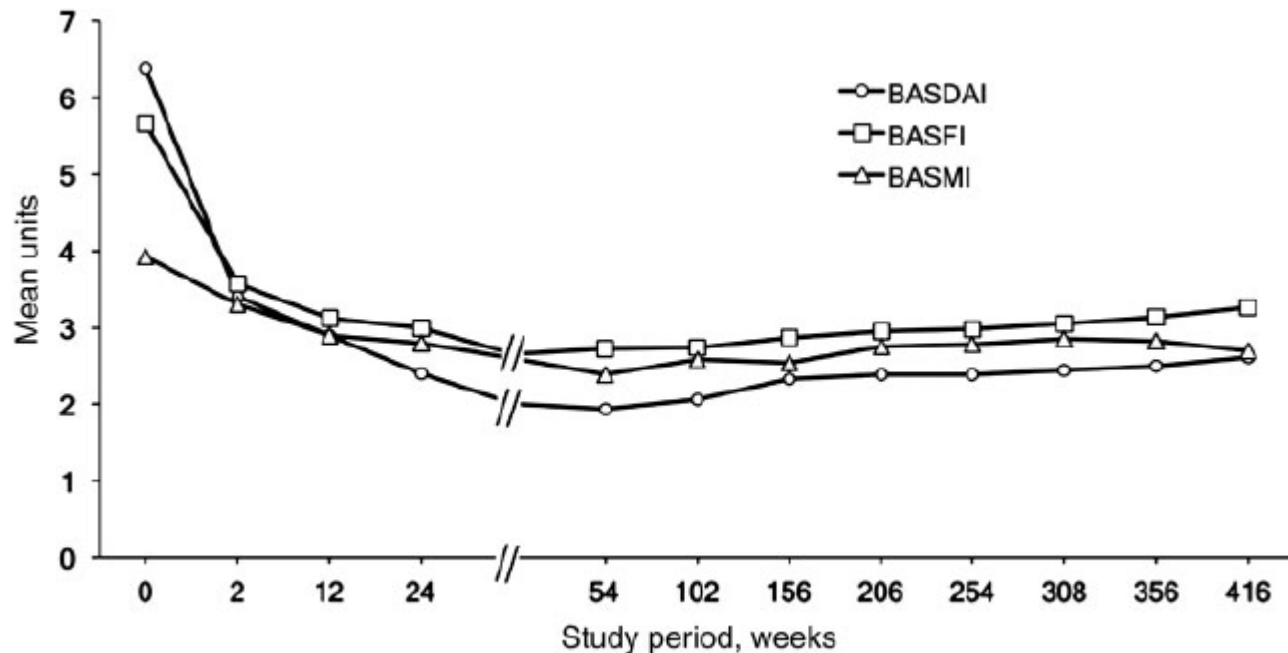
**Table 2** Longitudinal analysis of disease status for all 38 completers for assessment of the prevalence of similar clinical status at week 12 and other follow-up time points of the study

|                             | 12 weeks (95% CI)         | At all time points of follow-up | At 90% of the time points (95% CI) | At 80% of the time points of follow-up (95% CI) |
|-----------------------------|---------------------------|---------------------------------|------------------------------------|-------------------------------------------------|
| Partial remission           | 7 (18.4%) (9.2 to 33.4)   | 3/7                             | 5/7 (71.4%) (35.9 to 91.8)         | 6/7 (85.7%) (48.7 to 97.4)                      |
| BASDAI<3                    | 21 (55.3%) (39.7 to 69.9) | 12/21                           | 16/21 (76.2%) (54.9 to 89.4)       | 19/21 (90.5%) (71.1 to 97.3)                    |
| BASFI<3                     | 24 (63.2%) (47.3 to 76.6) | 14/24                           | 17/24 (70.8%) (50.8 to 85.1)       | 17/24 (70.9%) (50.8 to 85.1)                    |
| No arthritis                | 33 (86.8%) (72.7 to 94.2) | 24/33                           | 31/33 (93.9%) (80.4 to 98.3)       | 32/33 (97.0%) (84.7 to 99.5)                    |
| No enthesitis               | 29 (76.3%) (60.8 to 87.0) | 14/29                           | 25/29 (86.2%) (69.4 to 94.5)       | 25/29 (86.2%) (69.4 to 94.5)                    |
| No arthritis/enthesitis     | 28 (73.7%) (58.0 to 85.0) | 14/28                           | 22/28 (78.6%) (60.5 to 89.8)       | 23/28 (82.1%) (64.4 to 92.1)                    |
| BASDAI/global assessment <4 | 25 (65.8%) (49.9 to 78.8) | 12/25                           | 20/25 (80.0%) (60.9 to 91.1)       | 21/25 (84.0%) (65.3 to 93.6)                    |
| CRP ≤ 6 mg/l                | 34 (89.5%) (75.9 to 95.8) | 8/34                            | 23/34 (67.6%) (50.8 to 80.9)       | 27/34 (79.4%) (63.2 to 89.7)                    |

Numbers are n of patients, numbers in brackets are % of patients.

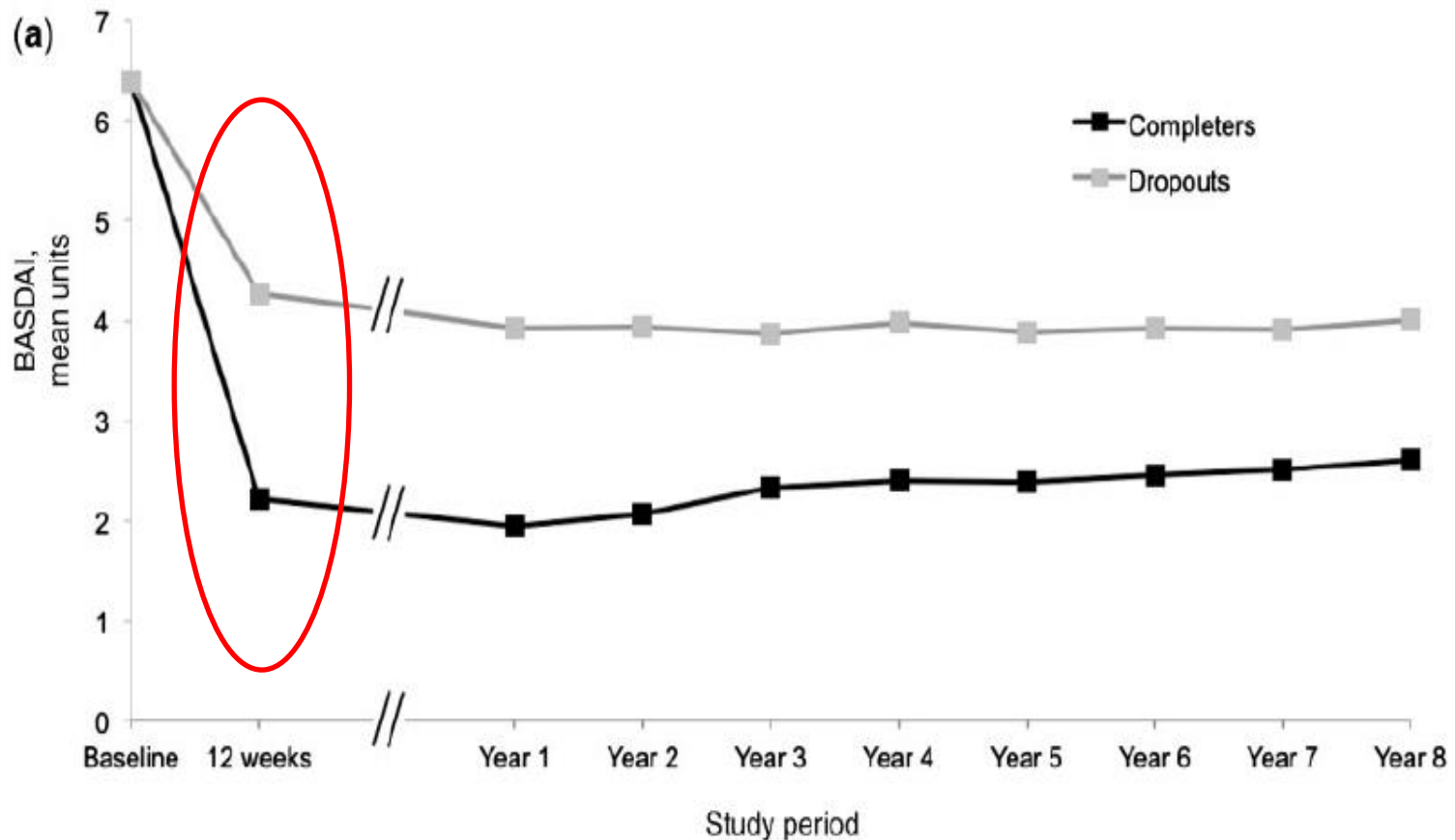
Braun et al. Persistent clinical efficacy and safety of anti-tumour necrosis factor a therapy with infliximab in patients with ankylosing spondylitis over 5 years: evidence for different types of response Ann Rheum Dis 2008;67:340–345

# Παραμονή στη θεραπεία και αποτελεσματικότητα



Baraliakos X. et al. Persistent clinical efficacy and safety of infliximab in ankylosing spondylitis after 8 years—early clinical response predicts long-term outcome  
Rheumatology 2011;50:1690-1699

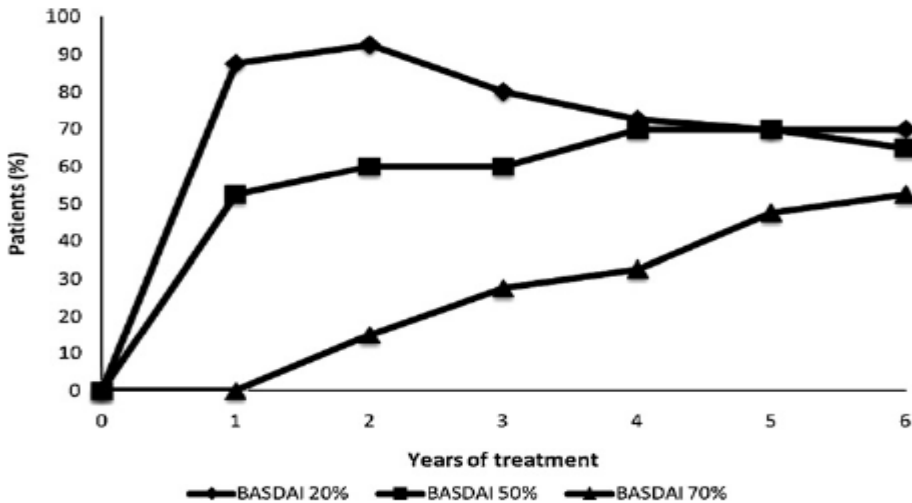
# Παραμονή στη θεραπεία και αποτελεσματικότητα



Baraliakos X. et al. Persistent clinical efficacy and safety of infliximab in ankylosing spondylitis after 8 years—early clinical response predicts long-term outcome  
Rheumatology 2011;50:1690-1699

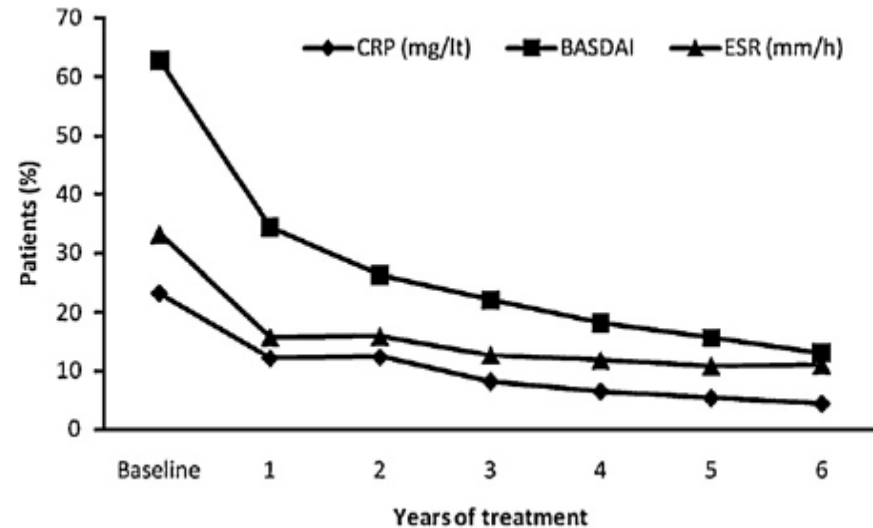
# Στον ελληνικό χώρο...

## 6 έτη παρακολούθησης



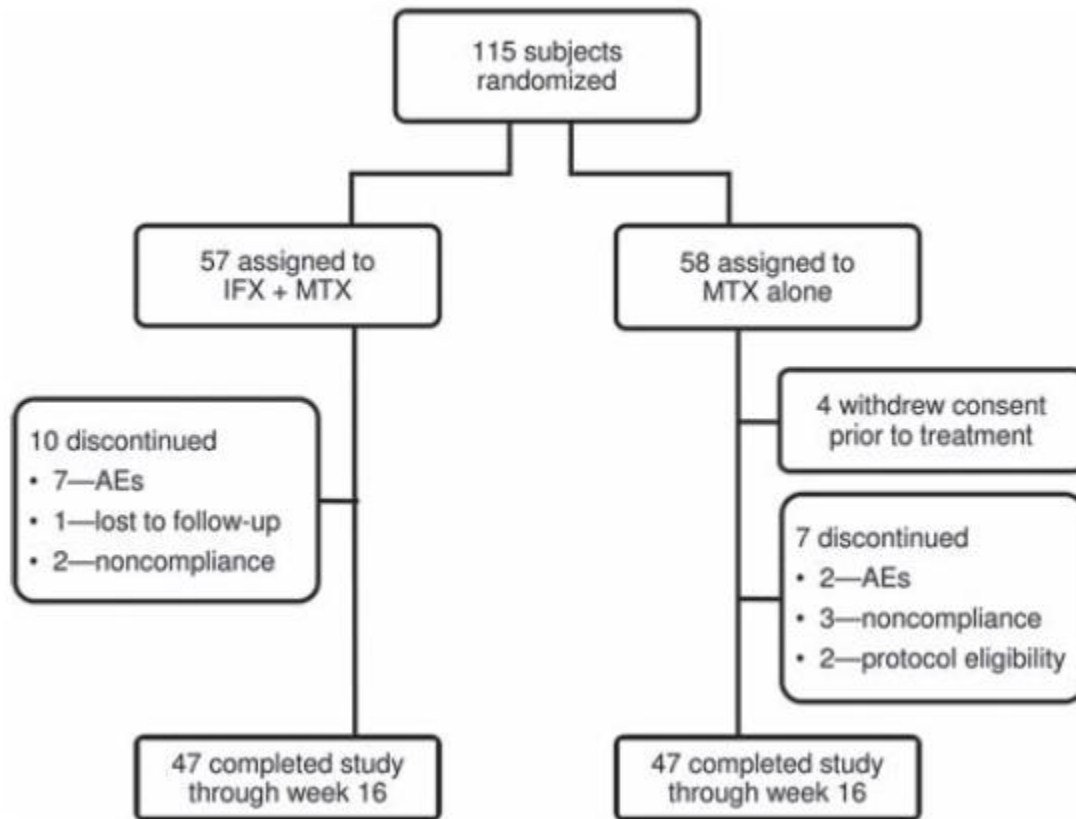
Assessment of response for clinical and laboratory parameters after 6 years of treatment.

| Parameter <sup>a</sup>    | Baseline    | 6th year   |
|---------------------------|-------------|------------|
| Global disease assessment |             |            |
| Patient (0–10 cm)         | 7.8 (1.2)   | 1.38 (0.8) |
| Physician (0–10 cm)       | 7.6 (1.1)   | 1.67 (0.8) |
| BASDAI                    | 6.28 (1.1)  | 1.5 (1.0)  |
| CRP (mg/l)                | 23.2 (19.2) | 6.0 (5.3)  |
| ESR (mm/1 h)              | 33.2 (18.2) | 11.0 (6.2) |
| Hematocrit                | 41.4 (2.7)  | 46.0 (2.2) |
| Hemoglobin                | 13.4 (2.0)  | 15.1 (0.8) |



1. Venetsanopoulou AI, Voulgari PV, Alamanos Y, et al. Persistent clinical response of infliximab treatment, over a 4-year period in ankylosing spondylitis. Rheumatol Int 2007;27:935–9.
2. Saougou I, Markatseli TE, Voulgari PV, Drosos AA. Maintained clinical response of infliximab treatment in ankylosing spondylitis: A 6-year long-term study Joint Bone Spine 2010; 77: 325-329

# Infliximab- treat to target in PsA?



**RESPOND Study**

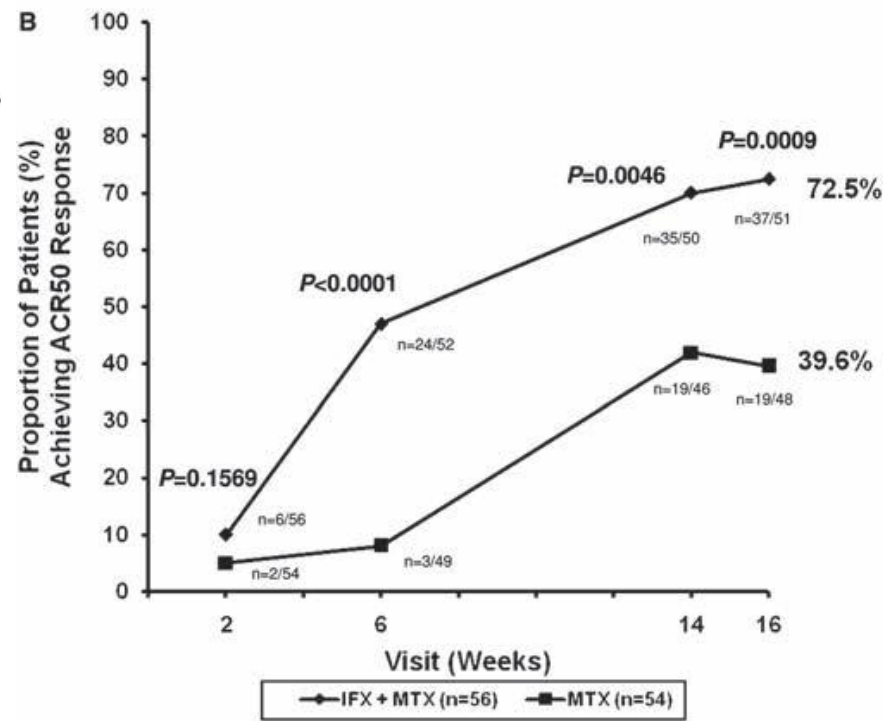
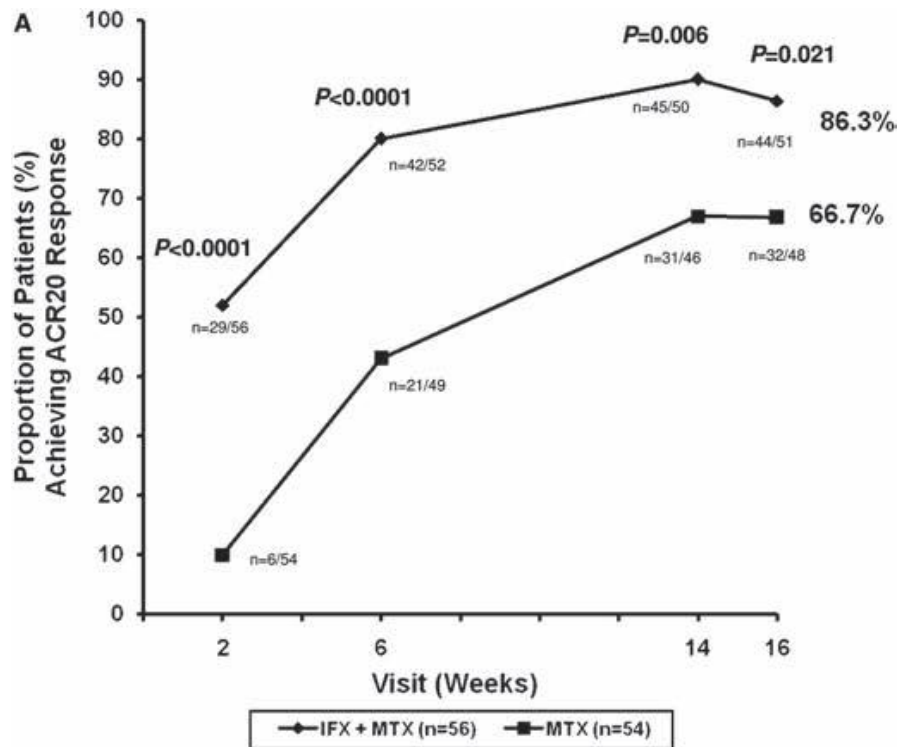


**DMARD Naive Patients**

Baranauskaite As et al. Infl iximab plus methotrexate is superior to methotrexate alone in the treatment of psoriatic arthritis in methotrexate-naive patients: the **RESPOND** study

*Ann Rheum Dis* 2012;71:541–548

# Η «γρήγορη» ένταξη σε infliximab μειώνει την ενεργότητα της νόσου

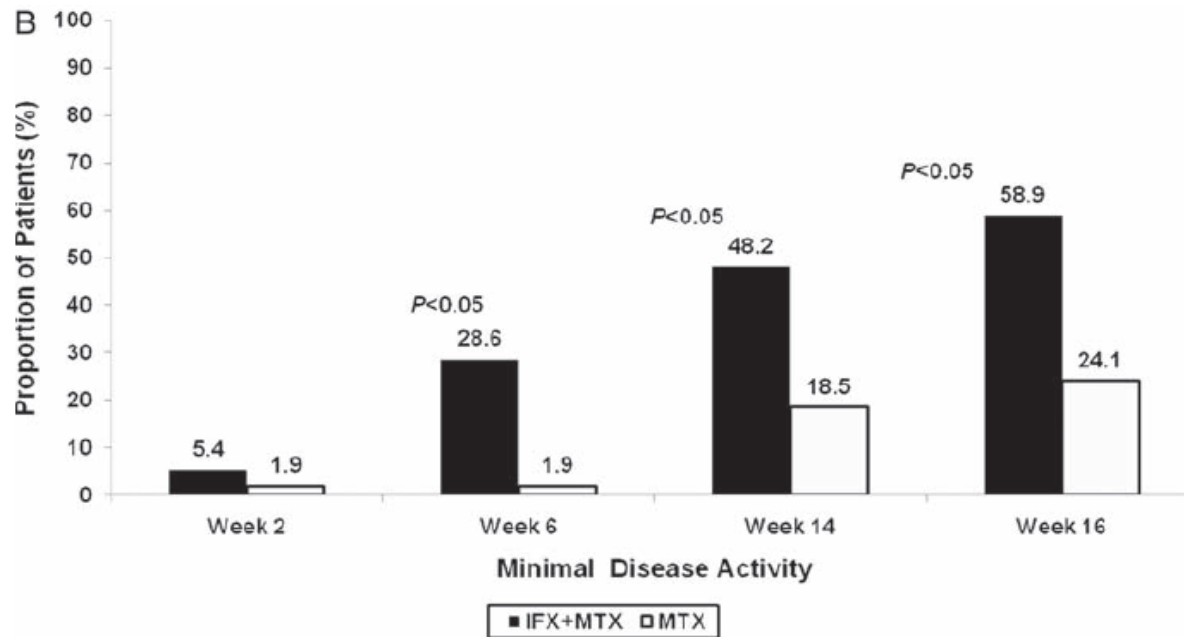


Baranauskaite As et al. Infliximab plus methotrexate is superior to methotrexate alone in the treatment of psoriatic arthritis in methotrexate-naïve patients: the **RESPOND** study  
*Ann Rheum Dis* 2012;71:541–548



# Ταχεία επίτευξη Minimal Disease Activity

| ACR domain                                      | Infliximab plus methotrexate (n=56) | Methotrexate (n=54) | p Value |
|-------------------------------------------------|-------------------------------------|---------------------|---------|
| Swollen joint count, median change*             | -11.0                               | -9.0                | 0.0016  |
| Tender joint count, median change*              | -14.0                               | -9.5                | 0.0007  |
| Subject's pain assessment,† mean change±SD (mm) | -45.8±26.4                          | -23.1±20.0          | <0.0001 |
| Subject's GAD,† mean change±SD (mm)             | -43.0±24.2                          | -24.1±22.7          | <0.0001 |
| Evaluator's GAD,† mean change±SD (mm)           | -47.4±18.3                          | -30.6±21.6          | <0.0001 |
| HAQ-DI, mean change±SD                          | -0.99±0.72                          | -0.56±0.72          | 0.0041  |
| CRP, median change (mg/l)                       | -12.0                               | -5.8                | 0.0026  |
| ESR, median change (s)                          | -12.0                               | -8.0                | 0.0023  |

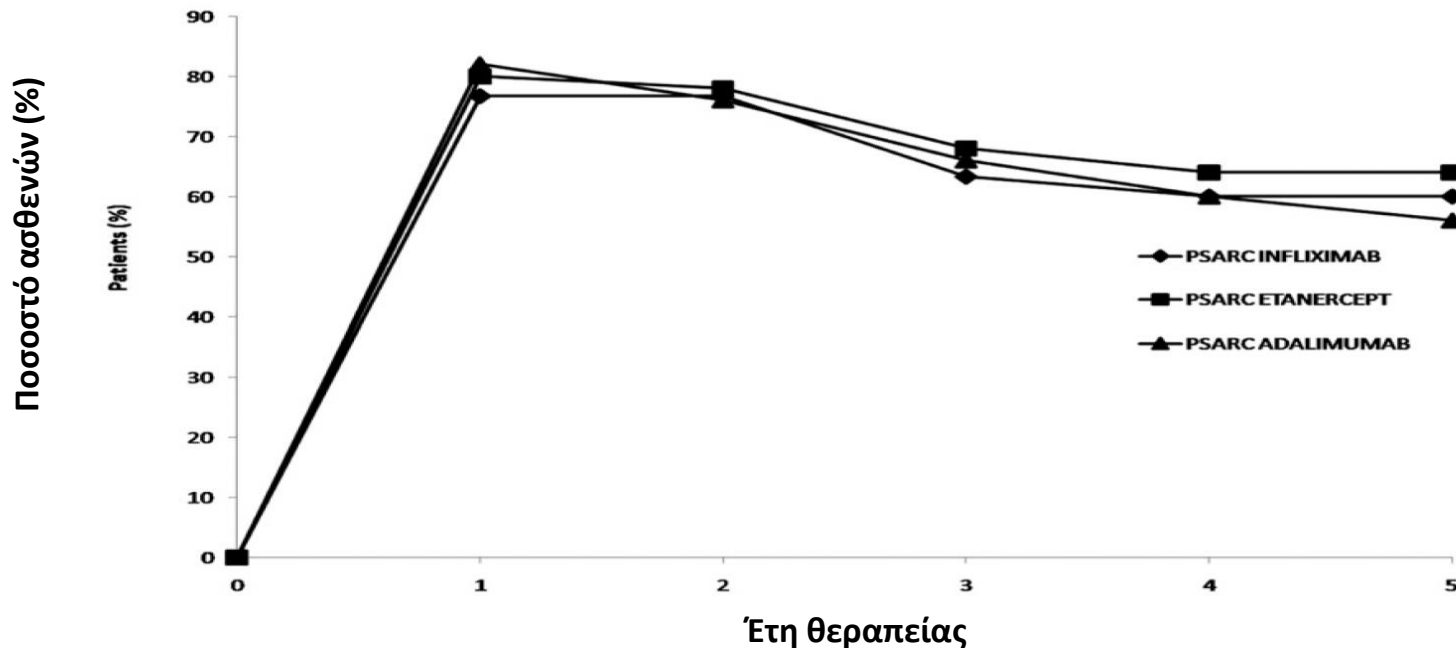


Baranauskaite As et al. Infl iximab plus methotrexate is superior to methotrexate alone in the treatment of psoriatic arthritis in methotrexate-naïve patients: the **RESPOND** study

*Ann Rheum Dis* 2012;71:541–548

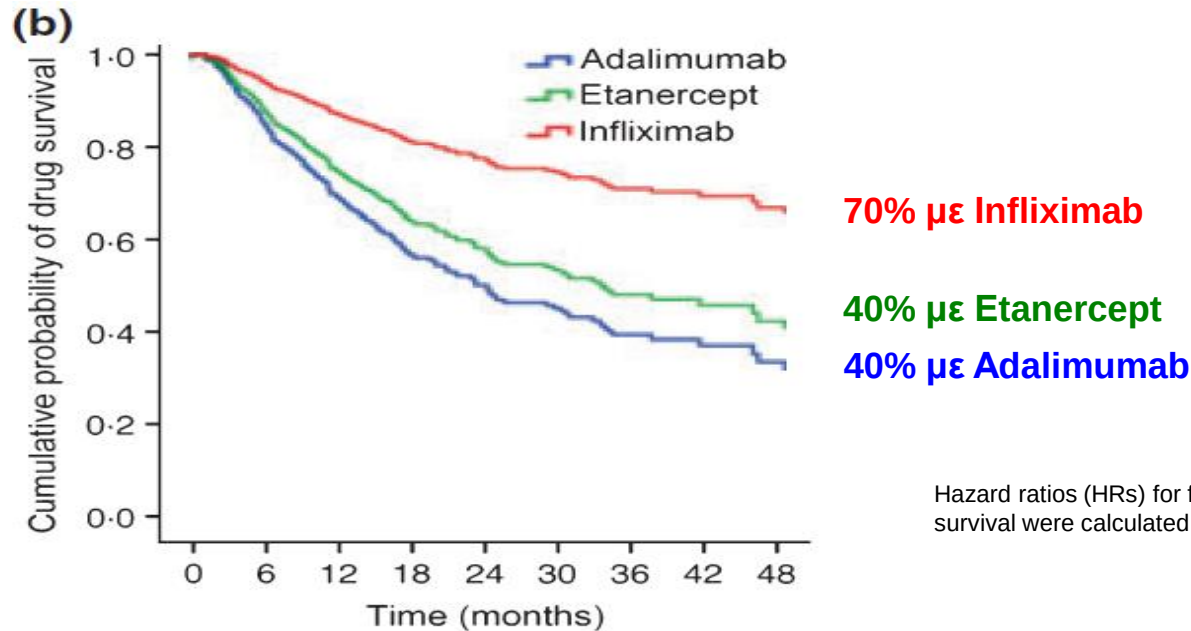
# Ελληνική εμπειρία: μακροχρόνια αποτελεσματικότητα αντι TNF θεραπειών στη ΨΑ

Κλινική ανταπόκριση κατά PsARC  
20%



# DERMBIO: Μητρώο ασθενών με ψωρίαση υπό anti-TNFα θεραπεία

Ποσοστό παραμονής ασθενών στη  
θεραπεία με anti-TNFα  
παράγοντες στα 4 έτη (n=747)



Hazard ratios (HRs) for factors determining drug survival were calculated by logistic regression.

Τα αποτελέσματα που παρουσιάζονται προέρχονται από μητρώα ασθενών και όχι από τυχαιοποιημένη μελέτη άμεσης σύγκρισης των θεραπευτικών παραγόντων, επομένως δεν υποδεικνύουν σύγκριση μεταξύ αυτών.

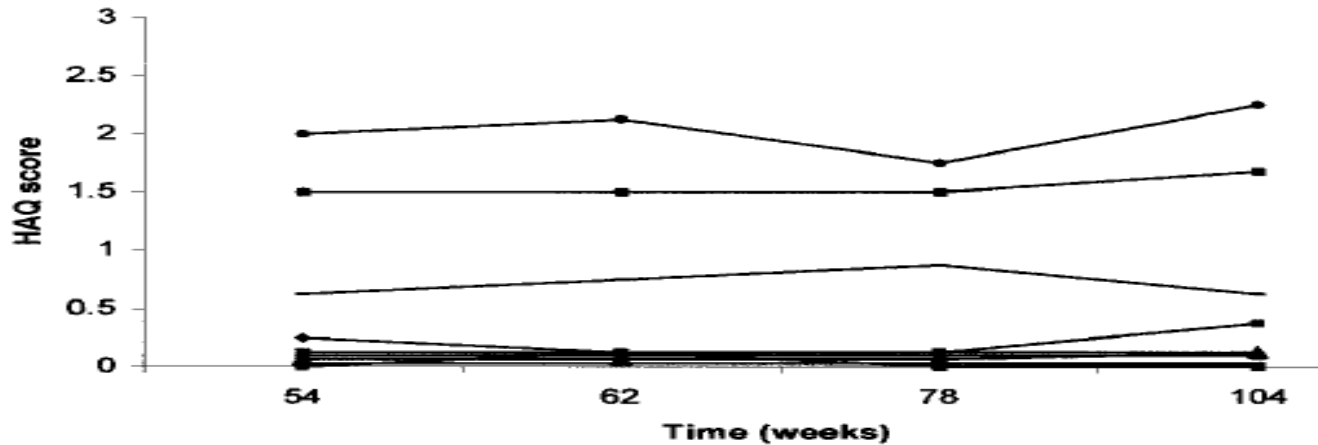
R. Gniadecki et al. Adherence to treatment with biologics in patients with psoriasis

# Πώς ερμηνεύεται το μεγαλύτερο ποσοστό παραμονής στη θεραπεία με Infliximab;

- Γρήγορο αποτέλεσμα
- Το ποσοστό ΑΕ είναι παρόμοιο με τις υπόλοιπες anti-TNFα βιολογικές θεραπείες και χαμηλό
- Η ενδοφλέβια χορήγηση εξασφαλίζει υψηλότερη συμμόρφωση
- Η δόση του Infliximab προσαρμόζεται στο σωματικό βάρος του κάθε ασθενούς (5mg/kg)

Αποσυρση , επαναχορήγηση .... Τι γίνεται με το  
θεραπευτικό αποτέλεσμα?

# Μετά τη διακοπή;



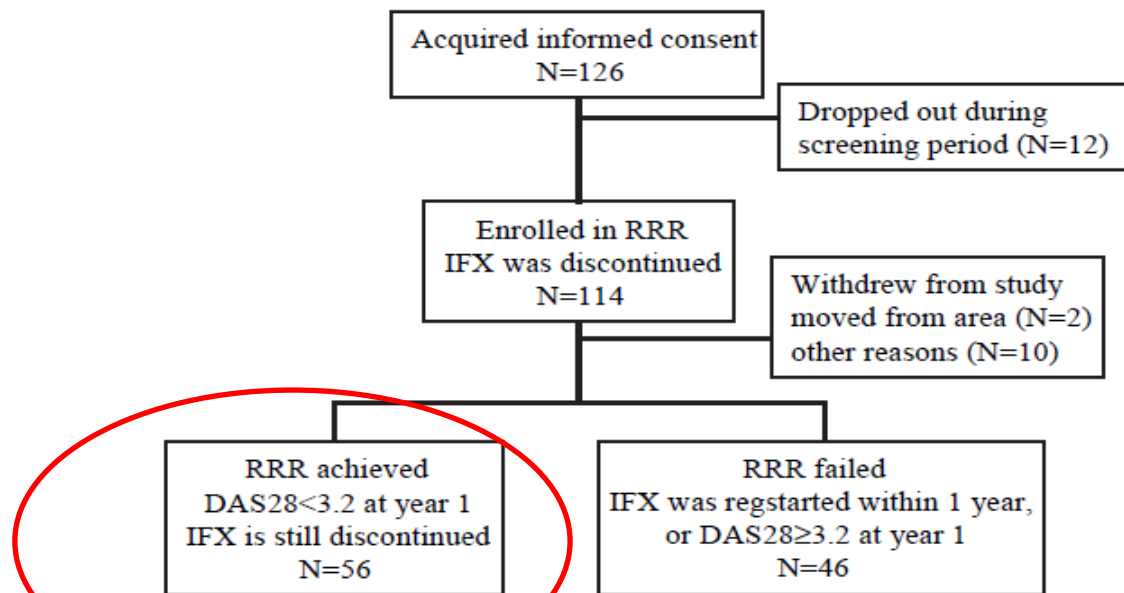
Ένα χρόνο μετά τη διακοπή του infliximab διατήρηση του «καλού» αποτελέσματος

Quinn MA et al. Very early treatment with infliximab in addition to methotrexate in early, poor-prognosis rheumatoid arthritis reduces magnetic resonance imaging evidence of synovitis and damage, with sustained benefit after infliximab withdrawal. *Arthritis Rheum* 2005;52:27-35

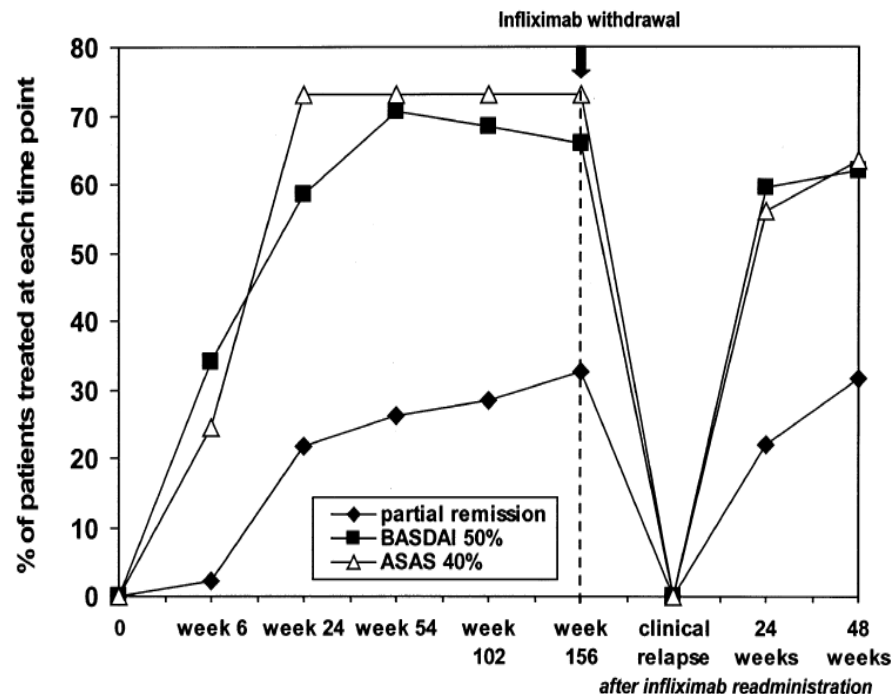
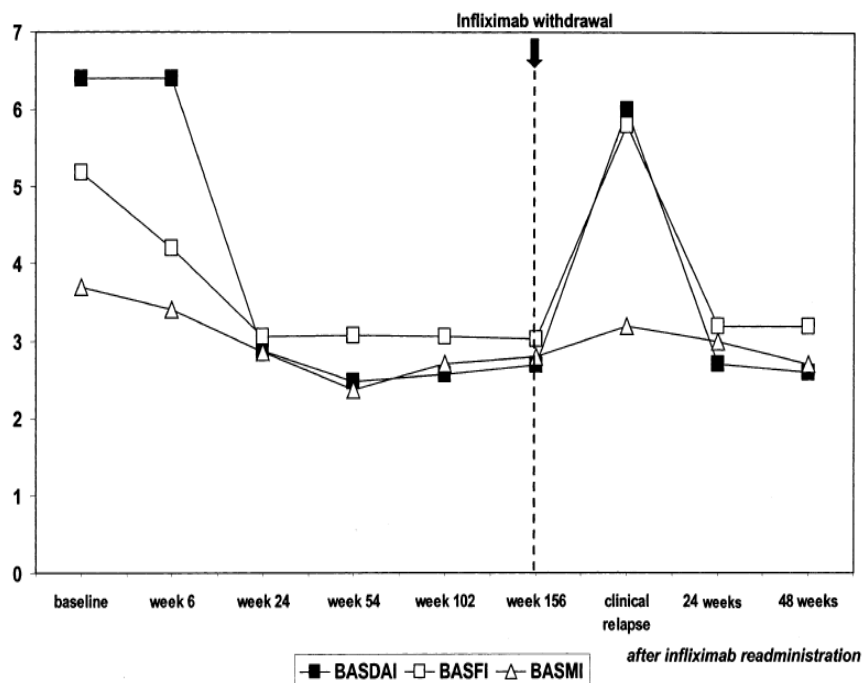
# RRR (...ζωή χωρίς το infliximab)

## Discontinuation of infliximab after attaining low disease activity in patients with rheumatoid arthritis: RRR (remission induction by Remicade in RA) study

Y Tanaka,<sup>1</sup> T Takeuchi,<sup>2</sup> T Mimori,<sup>3</sup> K Saito,<sup>1</sup> M Nawata,<sup>1</sup> H Kameda,<sup>4</sup> T Nojima,<sup>3</sup> N Miyasaka,<sup>5</sup> T Koike<sup>6</sup>; for the RRR study investigators



# Απόσυρση και επαναχορήγηση



## CONCLUSION:

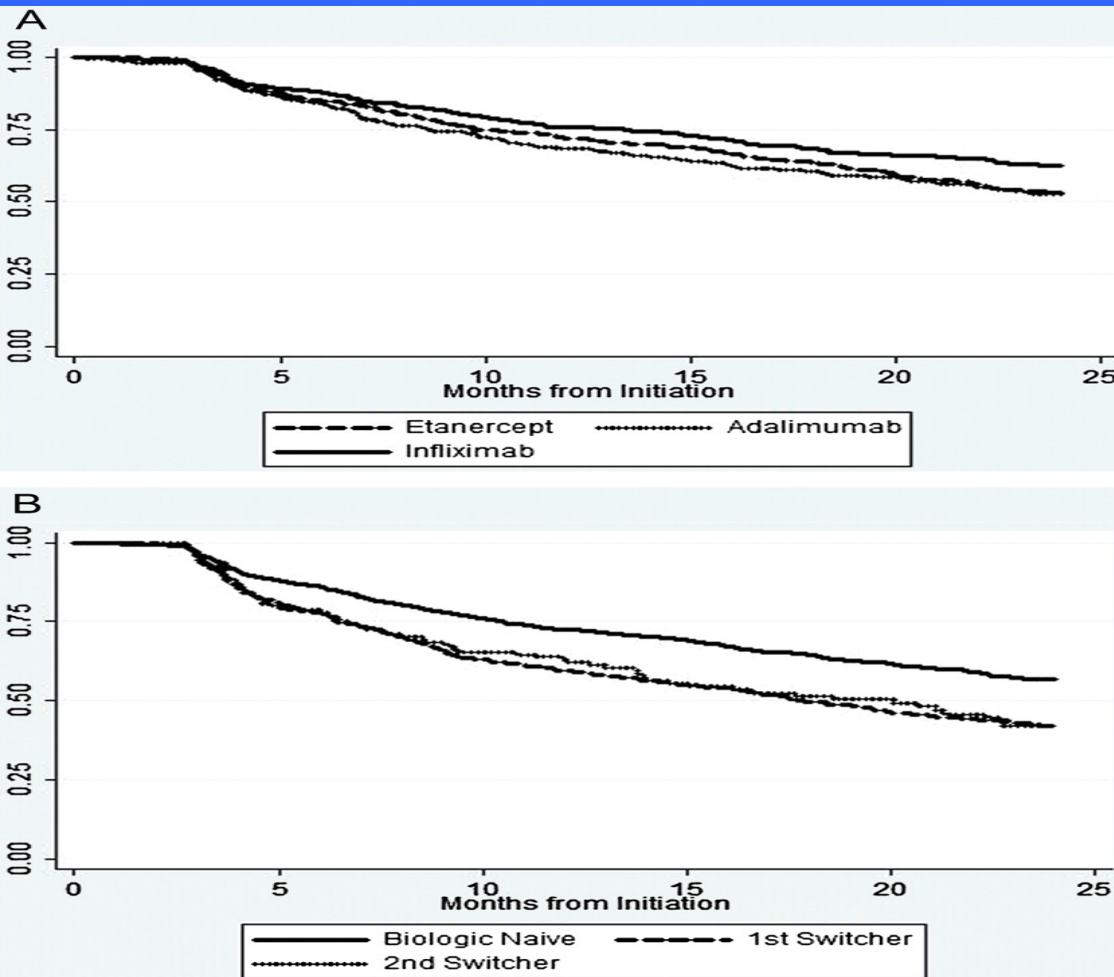
**Readministration of infliximab after discontinuation of longterm treatment was generally safe and efficacious. Ongoing remission after discontinuation was rare.** There was only one patient with relevant adverse events. ATI were detected only in this patient, but there was no correlation to clinical data. Formation of ATI seems to be rare after longterm infliximab therapy in AS



## Μητρώα καταγραφής.....(registry data)

*Τα αποτελέσματα που παρουσιάζονται στα μητρώα ασθενών είναι αποτέλεσμα καταγραφής και όχι από τυχαιοποιημένες μελετές άμεσης σύγκρισης μεταξύ των θεραπευτικών παραγόντων, επομένως δεν υποδεικνύουν σύγκριση μεταξύ αυτών*

# ΜΗΤΡΩΑ ΚΑΤΑΓΡΑΦΗΣ (Corrona USA)



*A comparative effectiveness study of adalimumab, etanercept and infliximab in biologically naive and switched rheumatoid arthritis patients: results from the US CORRONA registry*

**Conclusions** No differences in rates of drug response or remission were observed among the three anti-TNF. Infliximab was associated with greater persistence in biologically naive patients. Response, remission and persistence outcomes were diminished for patients who switched anti-TNF.

# ΜΗΤΡΩΑ ΚΑΤΑΓΡΑΦΗΣ (Corrona USA)

**Table 5** The unadjusted persistence rates and adjusted likelihood of drug discontinuation based on anti-TNF $\alpha$  switching status\*

|                                | Persistence rate   |                    | Adjusted HR (95% CI) | p Value |
|--------------------------------|--------------------|--------------------|----------------------|---------|
|                                | 12 months (95% CI) | 24 months (95% CI) |                      |         |
| TNF inhibitor switching status |                    |                    |                      |         |
| Biologically naive (referent)  | 72% (70% to 75%)   | 57% (54% to 60%)   | 1                    |         |
| First switchers                | 60% (55% to 64%)   | 42% (37% to 47%)   | 1.42 (1.22 to 1.67)  | <0.001  |
| Second switchers               | 63% (54% to 70%)   | 42% (33% to 51%)   | 1.35 (1.03 to 1.76)  | 0.028   |
| Interdrug comparisons          |                    |                    |                      |         |
| Biologically naive             |                    |                    |                      |         |
| Infliximab (referent)          | 76% (72% to 80%)   | 63% (58% to 67%)   | 1                    |         |
| Adalimumab                     | 68% (64% to 73%)   | 53% (47% to 58%)   | 1.42 (1.12 to 1.80)  | 0.004   |
| Etanercept                     | 72% (68% to 76%)   | 53% (48% to 59%)   | 1.27 (1.00 to 1.61)  | 0.047   |
| First switchers                |                    |                    |                      |         |
| Infliximab (referent)          | 65% (56% to 72%)   | 43% (34% to 52%)   | 1                    |         |
| Adalimumab                     | 57% (51% to 62%)   | 42% (35% to 48%)   | 1.14 (0.84 to 1.55)  | NS      |
| Etanercept                     | 60% (50% to 68%)   | 41% (31% to 50%)   | 1.01(0.71 to 1.44)   | NS      |

\*Results are presented as HR with 95% CI in parentheses; the model adjusted for age, gender, patient and provider assessments of disease activity, self-reported disability, comorbidity, methotrexate use and year of anti-TNF initiation. NS, not significant; TNF, tumour necrosis factor.

# ΜΗΤΡΩΑ ΚΑΤΑΓΡΑΦΗΣ (BSRBR - UK)

TABLE 2. Details of drug discontinuation prior to first 6 month follow-up<sup>a</sup>

| Reason        | All (3223) | Etanercept (1413) | Infliximab (1810) |
|---------------|------------|-------------------|-------------------|
| Any reason    | 614 (19.1) | 264 (18.7)        | 350 (19.3)        |
| Inefficacy    | 270 (8.4)  | 118 (8.4)         | 152 (8.4)         |
| Adverse event | 295 (9.2)  | 129 (9.1)         | 166 (9.2)         |
| Other         | 41 (1.3)   | 12 (0.9)          | 29 (1.6)          |
| Unknown       | 8 (0.3)    | 5 (0.4)           | 3 (0.2)           |

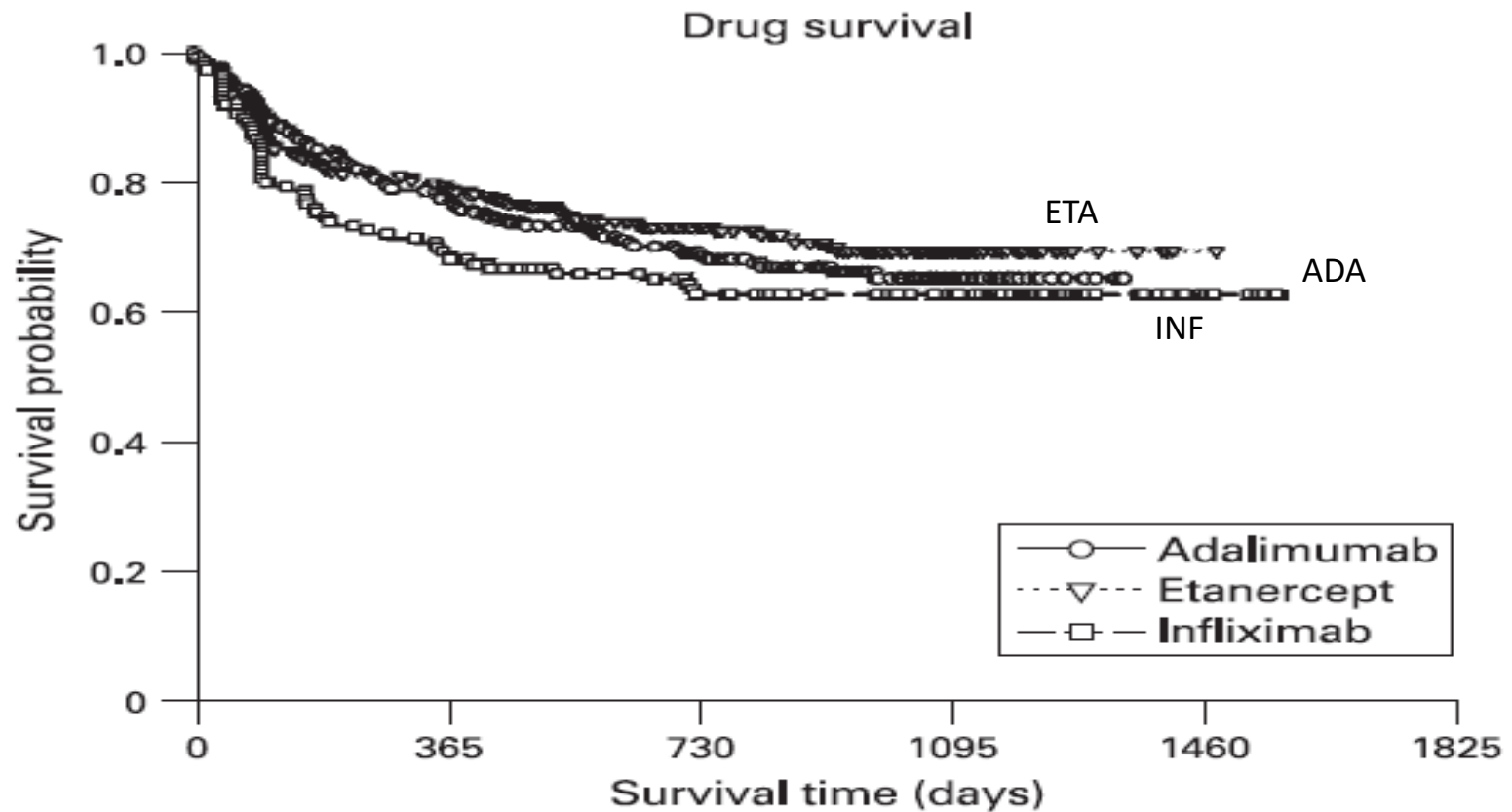
<sup>a</sup>Observed differences between etanercept and infliximab are not statistically significant.

TABLE 3. EULAR response after 6 months of therapy<sup>a</sup>

| EULAR response | Overall (3223) | Etanercept (1413) | Infliximab (1810) |
|----------------|----------------|-------------------|-------------------|
| Good           | 584 (18.1)     | 245 (17.3)        | 339 (18.7)        |
| Moderate       | 1602 (49.7)    | 727 (51.5)        | 875 (48.3)        |
| None           | 1037 (32.2)    | 441 (31.2)        | 596 (32.9)        |
| Remission      | 292 (8.6)      | 120 (8.0)         | 172 (9.0)         |

<sup>a</sup>Observed differences between etanercept and infliximab are not statistically significant.

# ΜΗΤΡΩΑ ΚΑΤΑΓΡΑΦΗΣ (DREAM - Neatherlands)



**Figure 1** drug survival in the three treatment groups.

# ΜΗΤΡΩΑ ΚΑΤΑΓΡΑΦΗΣ (DREAM - Neatherlands)

**Table 2** Co-medication used and changes within 12 months

|                         | Concomitant use | Dose decrease | Discontinuation | Dose increase |
|-------------------------|-----------------|---------------|-----------------|---------------|
| <b>DMARD</b>            |                 |               |                 |               |
| Adalimumab (n = 267)    | 231 (87%)       | 67 (29%)      | 63 (27%)        | 9 (4%)        |
| Etanercept (n = 289)    | 225 (78%)       | 52 (23%)      | 61 (27%)        | 12 (5%)       |
| Infliximab (n = 151)    | 128 (85%)       | 22 (17%)      | 35 (27%)        | 7 (6%)        |
| p Value                 | 0.02            | 0.039         | 0.999           | 0.712         |
| <b>Prednisone, oral</b> |                 |               |                 |               |
| Adalimumab (n = 267)    | 78 (29%)        | 13 (17%)      | 15 (19%)        | 3 (4%)        |
| Etanercept (n = 289)    | 115 (40%)       | 19 (16%)      | 27 (23%)        | 5 (4%)        |
| Infliximab (n = 151)    | 44 (29%)        | 4 (9%)        | 9 (20%)         | 3 (7%)        |
| p Value                 | 0.018           | 0.803         | 0.470           | 0.733         |
| <b>Prednisone*</b>      |                 |               |                 |               |
| Adalimumab (n = 267)    | 31 (12%)        |               |                 |               |
| Etanercept (n = 289)    | 51 (18%)        |               |                 |               |
| Infliximab (n = 151)    | 28 (19%)        |               |                 |               |
| p Value                 | 0.076           |               |                 |               |

\*Intra-articular or intramuscular.

DMARD, disease-modifying antirheumatic drug.

# Συγχορήγηση με Μεθοτρεξάτη και παραμονή..

**Treatment persistence with adalimumab, etanercept, or infliximab in combination with methotrexate and the effects on health care costs in patients with rheumatoid arthritis.<sup>3</sup>**

## **CONCLUSIONS:**

In this population of patients with RA, overall treatment persistence was high, with patients treated with infliximab + MTX having significantly higher persistence compared with those treated with adalimumab + MTX or etanercept + MTX.

**The role of methotrexate co-medication in TNF-inhibitor treatment in patients with psoriatic arthritis: results from 440 patients included in the NOR-DMARD study.<sup>1</sup>**

## **CONCLUSIONS:**

We found similar responses to TNFi in patients with and without concomitant MTX, but drug survival was superior in patients receiving co-medication. The effect of MTX on drug survival was most prominent in patients receiving IFX. Smoking at baseline and use of TNFi as monotherapy were identified as independent predictors of drug discontinuation.

**Tumour necrosis factor inhibitor monotherapy vs combination with MTX in the treatment of PsA: a systematic review of the literature.<sup>2</sup>**

## **CONCLUSION:**

Available evidence on the efficacy and safety of TNF inhibitor monotherapy vs add-on MTX therapy shows little or no improvement with combination therapy, although the use of concomitant MTX appears to prolong TNF inhibitor drug survival of mAb TNF inhibitors. Registries and observational studies have the potential to fill some of the knowledge gaps in this area

1.Fagerli KM1, Lie E, van der Heijde D, Heiberg MS, Lexberg AS, Rødevand E, Kalstad S, Mikkelsen K, Kvien TK  
Ann Rheum Dis. 2014 Jan;73(1):132-7. doi: 10.1136/annrheumdis-2012-202347. Epub 2013 Jan 3

2.Behrens F1, Cañete JD2, Olivieri I2, van Kuijk AW2, McHugh N2, Combe B  
Rheumatology (Oxford). 2015 May;54(5):915-26. doi: 10.1093/rheumatology/keu415. Epub 2014 Oct 27

3. Degli Esposti L et al, ClinicoEconomics and Outcomes Research 2014;6:401-7 2. Tang B et al, Clin Ther. 2008;30:1375-1384

# Adverse effects (ARTIS-Sweden)

**Table 2** Discontinuations, person-years and incidence rates over up to 5 years of follow-up in Swedish patients with rheumatoid arthritis starting their first TNFi between 2003 and 2011

|                                                     | Etanercept (n=3892) | Adalimumab (n=2349) | Infliximab (n=2898) | Total (n=9139) |
|-----------------------------------------------------|---------------------|---------------------|---------------------|----------------|
| Observation years                                   | 9259                | 5131                | 5808                | 20 198         |
| Discontinuations, n (%)                             | 1391 (100%)         | 963 (100%)          | 1470 (100%)         | 3782 (100%)    |
| Lack/loss of efficacy*                              | 710 (51%)           | 476 (49%)           | 738 (52%)           | 1924 (51%)     |
| Adverse event                                       | 474 (34%)           | 349 (36%)           | 525 (37%)           | 1348 (36%)     |
| Other                                               | 207 (15%)           | 138 (14%)           | 165 (12%)           | 510 (13%)      |
| Discontinuation causes not counted as events, n (%) |                     |                     |                     |                |
| Pregnancy                                           | 59 (1.5%)           | 15 (0.6%)           | 12 (0.4%)           | 86 (0.9%)      |
| Remission†                                          | 44 (1.1%)           | 53 (2.3%)           | 50 (1.7%)           | 147 (1.6%)     |
| Death                                               | 31 (0.8%)           | 30 (1.3%)           | 35 (1.2%)           | 96 (1.1%)      |
| Incidence per 100 person-years                      | 15                  | 19                  | 25                  | 19             |
| 1 year drug survival                                |                     |                     |                     |                |
| Observation years, sum                              | 2355                | 1349                | 1667                | 5371           |
| Discontinuations, n                                 | 671                 | 517                 | 668                 | 1856           |
| %                                                   | 26%                 | 34%                 | 36%                 | 31%            |

\*As decided by treating physician or patient (standardised failure definition NOT used).

†Note: These numbers represent patients who have *discontinued* TNFi therapy due to remission. Patients in remission *continuing* therapy do not contribute to these numbers.  
TNF, tumour necrosis factor; TNFi, TNF inhibitor.



# Take home notes...

- η παραμονή στην θεραπεία είναι εξαιρετικής σημασίας στην διαχείριση χρόνιων νοσημάτων
- η παραμονή στην θεραπεία είναι δείκτης αξιολόγησης της επίτευξης του θεραπευτικού μας στόχου στην καθημέρα κλινική πράξη
- θετική σχέση κόστους - όφελος στους ασθενείς με αυξημένη παραμονή στην θεραπευτική προσέγγιση
- Η ταχύτητα δράσης σχετίζεται με την παραμονή στην θεραπεία