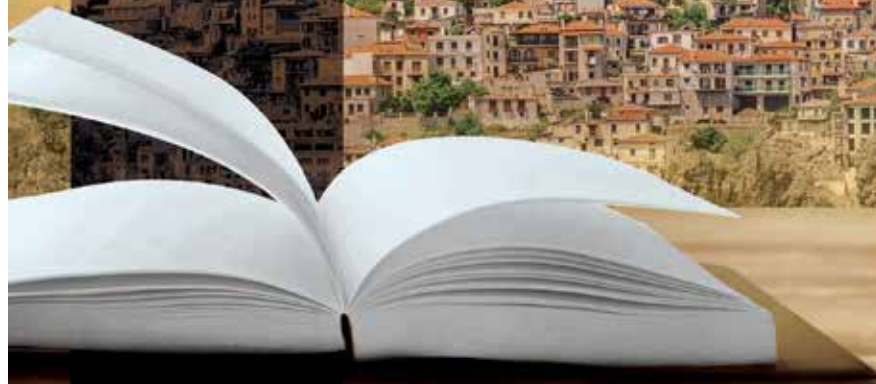




## Βιβλιογραφική ενημέρωση ΕΕΜΜΟ 2019



Νεότερα στην Οστεοαρθρίτιδα

Δήμος Κ. Πατρίκος  
Διευθυντής Ρευματολόγος  
Νοσοκομείο Metropolitan  
30-3-2019

# Σύγκρουση συμφερόντων Conflict of interest

Τιμητική αμοιβή καμιά για την παρούσα

Εκπαιδευτικές-ερευνητικές-συμβουλευτικές επιχορηγήσεις την τελευταία διετία:  
Lilly, Amgen, Roche, UCB, MSD, Pfizer, Menarini, Novartis, Angelini Pharma,  
Abbvie, Bristol Myers Squibb, RAFARM

**Οστεοαρθρίτιδα άκρων χειρών:  
Νέες κατευθυντήριες οδηγίες**

Recommendation

2018 update of the EULAR recommendations for the management of hand osteoarthritis

Ανανέωση των από το 2007 υπαρχουσών

Βιβλιογραφική ανασκόπηση αποδείξεων

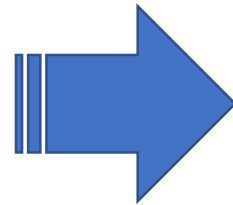
Φαρμακευτικής

Μη φαρμακευτικής

Χειρουργικής

19 Ιατροί, ασθενείς, επαγγελματίες υγείας

10 Ευρωπαϊκές χώρες



5 Βασικές αρχές

10 Συστάσεις

## Recommendation

# 2018 update of the EULAR recommendations for the management of hand osteoarthritis

LoE\* GoR† LoA (0–10)

### Overarching principles

- |    |   |           |
|----|---|-----------|
| A. | The primary goal of managing hand OA is to control symptoms, such as pain and stiffness, and to optimise hand function, in order to maximise activity, participation and quality of life. | 9.7 (0.7) |
| B. | All patients should be offered information on the nature and course of the disease, as well as education on self-management principles and treatment options.                             | 9.8 (0.8) |
| C. | Management of hand OA should be individualised taking into account its localisation and severity, as well as comorbidities.   | 9.9 (0.2) |
| D. | Management of hand OA should be based on a shared decision between the patient and the health professional.   | 9.6 (1.1) |
| E. | Optimal management of hand OA usually requires a multidisciplinary approach. In addition to non-pharmacological modalities, pharmacological options and surgery should be considered.     | 9.3 (1.2) |

- A. Κύριος στόχος: Έλεγχος συμπτωμάτων, βελτίωση λειτουργικότητας, δραστηριότητας, συμμετοχικότητας
- B. Πληροφόρηση ασθενών (φύση, πορεία νόσου) Εκπαίδευση αυτοδιαχείρισης
- C. Εξατομικευμένη διαχείριση (θέση, βαρύτητα, συννοσηρότητα)
- D. Συναπόφαση
- E. Πολυπαραγοντική αντιμετώπιση (μη φαρμακευτική, φαρμακευτική, χειρουργική)

## Recommendation

# 2018 update of the EULAR recommendations for the management of hand osteoarthritis

## Recommendations

|    |   |    |   |           |
|----|---|----|---|-----------|
| 1. | Education and training in ergonomic principles, pacing of activity and use of assistive devices should be offered to every patient. | 1b | A | 9.3 (1.1) |
| 2. | Exercises to improve function and muscle strength, as well as to reduce pain, should be considered for every patient.               | 1a | A | 9.1 (1.6) |
| 3. | Orthoses should be considered for symptom relief in patients with thumb base OA. Long-term use is advocated.                        | 1b | A | 9.3 (1.0) |

1. Εκπαίδευση στις εργονομικές αρχές, σταδιοποίηση δραστηριοτήτων, χρήση βοηθημάτων
2. Ασκήσεις βελτίωσης λειτουργικότητας, μυϊκής ισχύος, μείωσης πόνου
3. Νάρθηκες για την ΟΑ 1<sup>ης</sup> ΚΜΚ. Μακροχρόνια.

**(Παλαιά 3)**

## Recommendation

### 2018 update of the EULAR recommendations for the management of hand osteoarthritis

|    |   |         |   |           |
|----|---|---------|---|-----------|
| 4. | Topical treatments are preferred over systemic treatments because of safety reasons. Topical NSAIDs are the first pharmacological topical treatment of choice.                | 1b      | A | 8.6 (1.8) |
| 5. | Oral analgesics, particularly NSAIDs, should be considered for a limited duration for relief of symptoms.   | 1a      | A | 9.4 (0.9) |
| 6. | Chondroitin sulfate may be used in patients with hand OA for pain relief and improvement in functioning.  | 1b      | A | 7.3 (2.7) |
| 7. | Intra-articular injections of glucocorticoids should not generally be used in patients with hand OA‡, but may be considered in patients with painful interphalangeal joints§. | 1a‡–1b§ | A | 7.9 (2.4) |
| 8. | Patients with hand OA should not be treated with conventional or biological disease-modifying antirheumatic drugs   | 1a      | A | 8.8 (1.8) |

4. Τοπικές θεραπείες προτιμώνται από συστηματικές (ασφάλεια) 1<sup>η</sup> επιλογή τοπικά ΜΣΑΦ
5. Αναλγητικά ιδιαίτερα ΜΣΑΦ pro για περιορισμένη διάρκεια **(παλαιές 7+8)**
6. Θεϊϊκή χονδροϊτίνη για αναλγησία και βελτίωση λειτουργικότητας
7. Ενδαρθρικά κορτικοειδή όχι σε ΟΑ άκρων χειρών ίσως σε επώδυνες ΦΦ
8. Όχι θεραπεία με συμβατικά και βιολογικά DMARDs **(νέα)**

## Recommendation

### 2018 update of the EULAR recommendations for the management of hand osteoarthritis

9. Surgery should be considered for patients with structural abnormalities when other treatment modalities have not been sufficiently effective in relieving pain. Trapeziectomy should be considered in patients with thumb base OA and arthrodesis or arthroplasty in patients with interphalangeal OA. 5 D 9.4 (1.4)

9. Χειρουργείο σε ασθενείς με δομικές βλάβες σε αποτυχία άλλων παρεμβάσεων  
Εκτομή τραπεζοειδούς για OA 1<sup>ης</sup> ΚΜΚ, αρθρόδεση ή αρthroπλαστική για ΦΦ

Recommendation

2018 update of the EULAR recommendations for the management of hand osteoarthritis

|     |   |   |   |           |
|-----|---|---|---|-----------|
| 10. | Long-term follow-up of patients with hand OA should be adapted to the patient's individual needs. | 5 | D | 9.5 (1.7) |
|-----|---|---|---|-----------|

10. Μακροχρόνια παρακολούθηση ανάλογα με τις ανάγκες του ασθενούς **(Νέα)**

**Διαγραφή παλαιάς 4 (Χρήση θερμότητας και US)**

**Διαχείριση πόνου σε φλεγμονώδεις αρθρίτιδες και οστεοαρθρίτιδα:  
Νέες κατευθυντήριες οδηγίες**

EULAR recommendations for the health professional's approach to pain management in inflammatory arthritis and osteoarthritis

### Box 1 Overarching principles

- ▶ The assessment and treatment process should be guided by a patient-centred framework.
- ▶ The health professional should understand that (any type of) pain encompasses multiple and mutually interacting biological, psychological and social factors that include but are not limited to pain severity, peripheral (inflammation and joint damage) and central neurophysiological processes, physical (dis)ability, resilience and vulnerabilities (emotions, cognitions, behaviour, lifestyle), social factors (work, support, facilities, economic), sleep quality, obesity and other health risks (eg, smoking, alcoholism).
- ▶ The health professional should have basic knowledge of the pathology, treatment and sequelae of inflammatory arthritis and osteoarthritis.
- ▶ The health professional should be able to differentiate between localised and generalised pain and should know that these types of pain may coexist.

- § Ασθενοκεντρικό πλαίσιο αντιμετώπισης
- § Κατανόηση των πολλαπλών και αλληλοεπιδρώντων βιολογικών, ψυχολογικών, κοινωνικών παραγόντων που περιλαμβάνουν αλλά δεν περιορίζονται στη βαρύτητα του πόνου, περιφερικές και κεντρικές νευροφυσιολογικές διεργασίες, λειτουργικότητα, ευκαμπτότητα, ευπάθειες, κοινωνικές παραμέτρους, ποιότητα ύπνου, παχυσαρκία, άλλοι κίνδυνοι υγείας
- § Βασική γνώση του θεράποντα στην παθολογία, θεραπεία, συνέπειες της αρθρίτιδας
- § Ικανότητα διάκρισης των τύπων του πόνου, (εντοπισμένου γενικευμένου)

## EULAR recommendations for the health professional's approach to pain management in inflammatory arthritis and osteoarthritis

Level of evidence

Strength of recommendation

Level of agreement task force: mean (SD)

1. Assessment by the health professional should include the following aspects (the assessment is brief or extensive depending on factors such as available time, whether it is a first or regular consultation, and the needs of the patient):

4

D

9.3 (0.8)

Patient's needs, preferences and priorities regarding pain management and important activities, values and goals in daily life.

Patient's pain characteristics including severity, type, spread and quality.

Previous and ongoing pain treatments and the perceived efficacy.

Current inflammation and joint damage as sources of pain, and whether these are adequately treated.

Pain-related factors that might need attention: (a) the nature and extent of pain-related disability, (b) beliefs and emotions about pain and pain-related disability, (c) social influences related to pain and its consequences, (d) sleep problems and (e) obesity.

### 1. Τι πρέπει να περιλαμβάνει η εκτίμηση

- Û Ανάγκες, προτιμήσεις, προτεραιότητες ασθενούς για διαχείριση πόνου στόχους κλπ
- Û Χαρακτηριστικά πόνου (βαρύτητα, τύπος, έκταση, ποιότητα)
- Û Προηγούμενες και τρέχουσες θεραπείες
- Û Παρουσία φλεγμονής ή αρθρικής καταστροφής ως πηγής πόνου και κατά πόσο θεραπεύονται επαρκώς
- Û Παράγοντες σχετιζόμενοι με τον πόνο (φύση, έκταση ανικανότητας, κοινωνικές επιδράσεις, ύπνος, παχυσαρκία)

## EULAR recommendations for the health professional's approach to pain management in inflammatory arthritis and osteoarthritis

|  | Level of evidence | Strength of recommendation | Level of agreement task force: mean (SD) |
|--|-------------------|----------------------------|--|
|--|-------------------|----------------------------|--|

2. The patient should receive a personalised management plan with the aim of reducing pain and pain-related distress and improving pain-related function and participation in daily life. This plan is guided by shared decision-making, the expressed needs of the patient, the health professional's assessment and evidence-based treatment options. A stepped-care approach may include, in step 1, education and self-management support (recommendation 3); in step 2, one or more treatment options by a specialist if indicated (recommendations 4 to 9); or, in step 3, multidisciplinary treatment (recommendation 10).

|  |   |   |           |
|--|---|---|-----------|
|  | 4 | D | 9.0 (0.8) |
|--|---|---|-----------|

3. The patient should receive education.

|  |    |   |           |
|--|----|---|-----------|
|  | 1A | A | 9.7 (0.6) |
|--|----|---|-----------|

\* All patients have easy access to (1) educational materials (such as brochures or links to online resources with encouragement to stay active, sleep hygiene guidelines and so on), (2) psychoeducation by the health professional and (3) online or face-to-face self-management interventions.

## 2. Προσωποποιημένο πλάνο αντιμετώπισης

Στόχος: ↓ πόνου & σχετιζόμενων παραμέτρων (βελτίωση άγχος, λειτουργικότητα συμμετοχικότητα)

### § Θεραπευτικό πλάνο κατευθυνόμενο από:

§ Συναπόφαση

§ Ανάγκες ασθενούς

§ Εκτίμηση θεράποντα

§ EB θεραπευτικές επιλογές

§ Παροχή εκπαιδευτικού υλικού

§ Ψυχοθεραπεία από ειδικό

§ Διαδικτυακές ή δια ζώσης παρεμβάσεις αυτοδιαχείρισης

## 3. Όλοι οι ασθενείς πρέπει να εκπαιδεύονται



## Πολυπαραγοντική θεραπεία



EULAR recommendations for the health professional's approach to pain management in inflammatory arthritis and osteoarthritis

|  | Level of evidence | Strength of recommendation | Level of agreement task force: mean (SD) |
|--|-------------------|----------------------------|--|
|--|-------------------|----------------------------|--|

|   |    |   |           |
|---|----|---|-----------|
| 4. If indicated, the patient should receive physical activity and exercise. | 1A | A | 9.8 (0.8) |
|---|----|---|-----------|

\* The health professional and patient appraise whether advice to stay active, supervised physical exercise or multidisciplinary treatment is needed.

\* If the patient is not able to initiate physical activity and exercises without help, then consider the possibility for referral to a physiotherapist for individually tailored graded physical exercise or strength training.

\* If psychosocial factors such as fear of movement<sup>71 80</sup> or catastrophising cognitions<sup>70</sup> underlie a disabled, sedentary lifestyle, then consider a multidisciplinary intervention including cognitive – behavioural therapy.

#### 4. Φυσική δραστηριότητα και άσκηση

- Εκτίμηση ανάγκης ενεργότητας, επιβλεπόμενης άσκησης, πολυπαραγοντικής θεραπείας

- Σε περίπτωση αδυναμίας παραπομπή σε Φ/Θ

- Επί ενδείξεων συμπεριφορολογική - γνωσιολογική θεραπεία

## EULAR recommendations for the health professional's approach to pain management in inflammatory arthritis and osteoarthritis

|  | Level of evidence | Strength of recommendation | Level of agreement task force: mean (SD) |
|--|-------------------|----------------------------|--|
| 5. If indicated, the patient should receive orthotics.<br>* If a patient has pain during activities of daily living which impedes functioning, orthotics (such as splints, braces, gloves, sleeves, insoles and shoes), daily living aids (such as a tin opener), an assistive device (such as a cane or rollator) or ergonomic adaptation (at home, workplace) can be offered. If the patients wants to use this assistive support, then consider referral to the occupational therapist, who can proceed with several actions: offer education about appropriate ways to use joints and ergonomic principles, appraise the need for the use of an orthotic or assistive device, give advice about how to acquire it, fit the customised aid to the patient , offer training in the use of it, refer to the appropriate specialist who will do this, eg, orthopaedic shoemaker. | 1A                | A                          | 8.6 (0.9)                                |

### 5. Υποστηρικτικά μέσα

- Νάρθηκες

- Βακτηρίες

- Τροποποίηση χώρου

EULAR recommendations for the health professional's approach to pain management in inflammatory arthritis and osteoarthritis

|   | Level of evidence | Strength of recommendation | Level of agreement task force: mean (SD) |
|---|-------------------|----------------------------|--|
| <p>6. If indicated, the patient should receive psychological or social interventions.</p> <p>* If there are indications that social variables or psychological factors interfere with effective pain management and functional status, then consider (depending on the severity) providing basic social and psychological management support or referral to a psychologist, social worker, self-management support programme, CBT or multidisciplinary treatment.</p> <p>* If psychopathology (eg, depression and anxiety) is present, discuss treatment options with the patient and the patient's primary care physician.</p> | 1A                | A                          | 9.5 (0.6)                                |
| <p>7. If indicated, the patient should receive sleep interventions.</p> <p>* If sleep disturbance is reported, inquire about causes (eg, pain, persistent worrying, poor sleep habits) and offer basic education about good sleep hygiene practices.</p> <p>* If sleep remains (severely) disturbed, refer to a therapist or programme aimed at restoring sleep, or to a specialised sleep clinic.</p>  | 1B                | B                          | 8.4 (1.1)                                |

6. Επί ενδείξεων ψυχολογικές και κοινωνικές παρεμβάσεις

7. Παρεμβάσεις βελτίωσης ύπνου

EULAR recommendations for the health professional's approach to pain management in inflammatory arthritis and osteoarthritis

|  | Level of evidence    | Strength of recommendation | Level of agreement task force: mean (SD) |
|--|----------------------|----------------------------|--|
| <p>8. If indicated, the patient should receive weight management.<br/>* If the patient is obese, explain to the patient that obesity can contribute to pain and disability. Discuss accessible weight management options with the patient or signpost appropriate specialised weight management support; for example, dietitian , psychologist, community lifestyle services or bariatric clinic/surgery.</p>  | 1A                   | A                          | 9.1 (1.0)                                |
| <p>9. If indicated, the patient should receive pharmacological and joint-specific pain treatment according to recent recommendations.<br/>* Ask about the patient 's existing use of prescribed and over - the - counter pain relief including homeopathic remedies and consider if the frequency of use is safe (not over dosing) and appropriately regular. Ask or refer for further specialist or medical advice if there are concerns or if additional pharmacological treatment may be indicated.</p> | See refs 16 17 24–29 |                            | 9.5 (0.8)                                |

8. Ρύθμιση βάρους (Συσχέτιση με πόνο και ανικανότητα, παραπομπή σε ειδικό (διαιτολόγο, ψυχολόγο)
9. Φαρμακευτική και ειδική για τις αρθρώσεις θεραπεία (Κατευθύνσεις)

## EULAR recommendations for the health professional's approach to pain management in inflammatory arthritis and osteoarthritis

Level of evidence

Strength of recommendation

Level of agreement task force: mean (SD)

10. If indicated, the patient should receive multidisciplinary treatment.

\* If more than one treatment options are indicated, for example, to treat psychological distress in combination with a sedentary lifestyle, and if monotherapy failed, consider a multidisciplinary intervention.

4

D

8.8 (1.1)

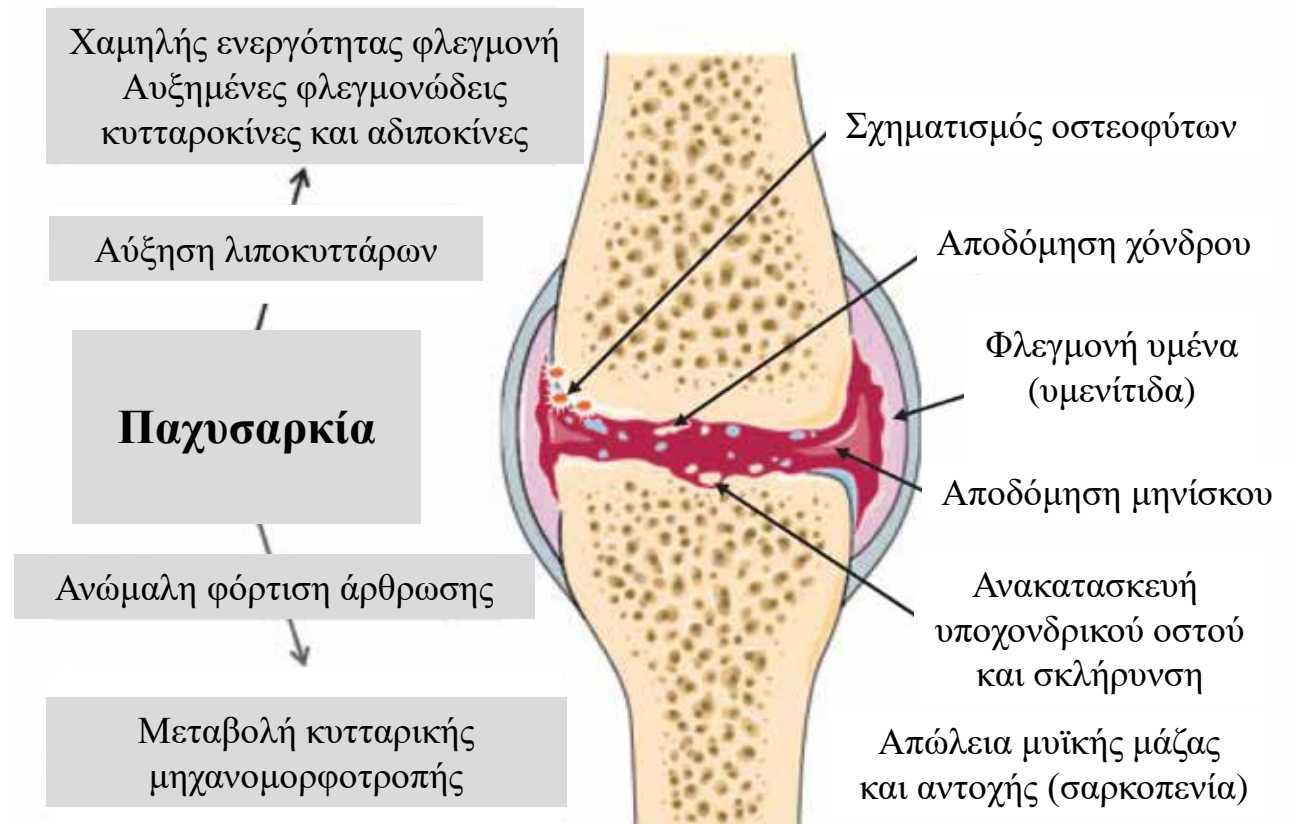
## 10. Πολυπαραγοντική θεραπεία

# Ρόλος δίαιτας και διατροφής στην αντιμετώπιση της ΟΑ

## What is the evidence for a role for diet and nutrition in osteoarthritis?

Sally Thomas<sup>1</sup>, Heather Browne<sup>1</sup>, Ali Mobasheri<sup>2,3,4</sup> and Margaret P. Rayman<sup>1</sup>

### Οστεοαρθριτική κατά γόνυ άρθρωση



## What is the evidence for a role for diet and nutrition in osteoarthritis?

Sally Thomas<sup>1</sup>, Heather Browne<sup>1</sup>, Ali Mobasheri<sup>2,3,4</sup> and Margaret P. Rayman<sup>1</sup>

### Summary of dietary interventions that may be of benefit in OA

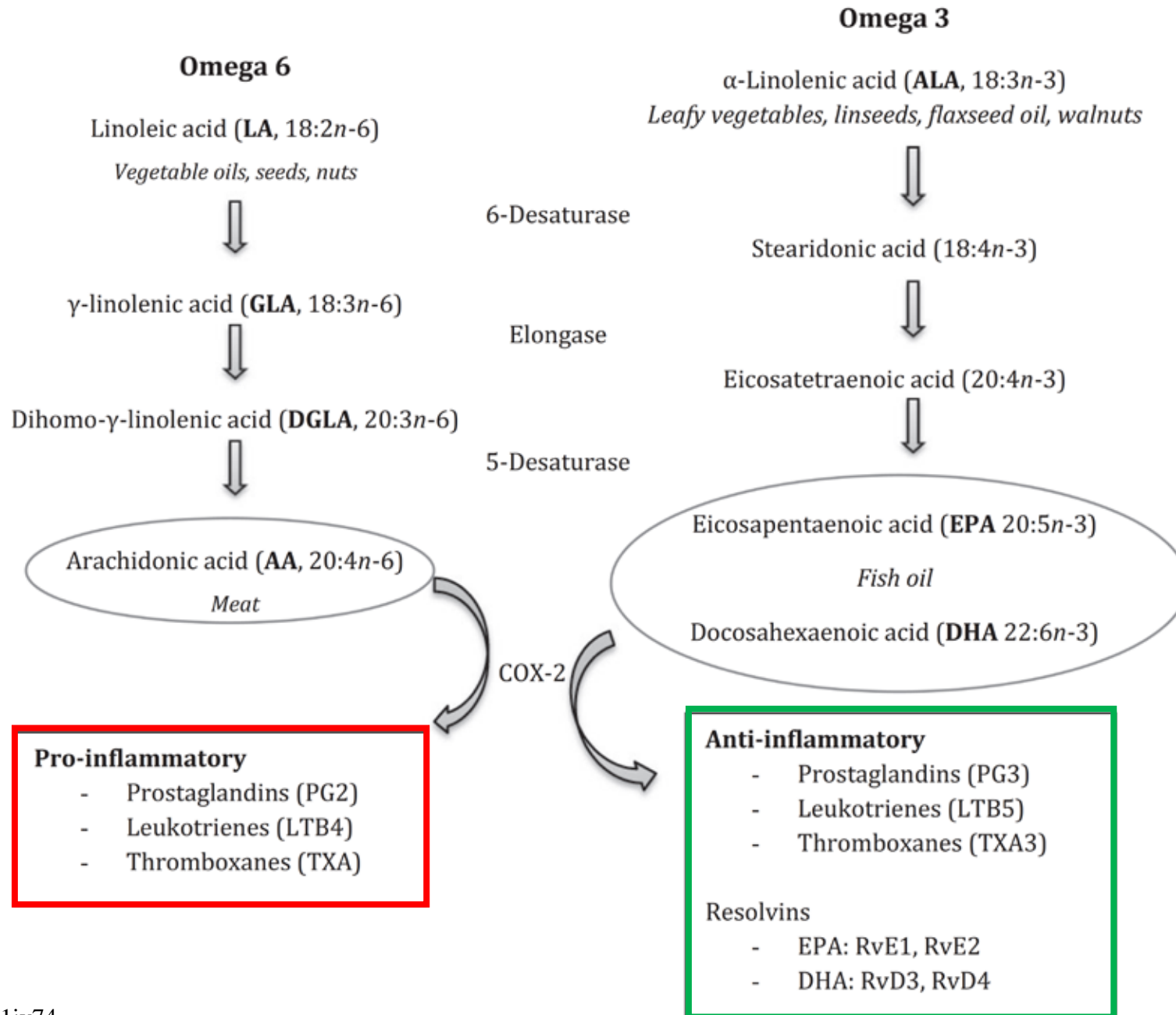
| Intervention                                     | Detail of recommended interventions  | Points to note  |
|--|--|---|
| Weight reduction in overweight or obese patients | An initial aim of 10% body weight reduction should be included in a first-line approach for obese patients with OA. Overall aim for obese/overweight patients is for BMI within the healthy range 18.5–25 kg/m <sup>2</sup> .<br>Dietary modification should include moderate energy restriction without compromising micronutrient intake.<br>Exercise should be encouraged including aspects of aerobic exercise, strengthening and flexibility that should be tailored to mobility. | Regular clinical contact and monitoring, including dietetic input, are essential for dietary modification. Clinical input should incorporate a focus on behaviour change. |

## What is the evidence for a role for diet and nutrition in osteoarthritis?

Sally Thomas<sup>1</sup>, Heather Browne<sup>1</sup>, Ali Mobasheri<sup>2,3,4</sup> and Margaret P. Rayman<sup>1</sup>

### Summary of dietary interventions that may be of benefit in OA

| Intervention   | Detail of recommended interventions   | Points to note   |
|--|---|--|
| Beneficial dietary-lipid modification in OA patients | <p>Reduce intake of <i>n</i>-6 fatty acids by substituting oils rich in mono-unsaturates such as rapeseed, canola and olive oils.</p> <p>Aim to increase intake of long-chain <i>n</i>-3 fatty acids via a direct source of EPA/DHA; increase intake of oily fish; aim to consume a minimum one portion per week (as in general healthy eating guidelines) and preferably two</p> <p>Consider a daily standard fish oil supplement (1-2 capsules/day)</p> | <p>Women who are pregnant or breastfeeding should avoid fish with high levels of mercury (i.e. shark, swordfish and king mackerel) [46] and should avoid cod-liver oil due to the vitamin A content [47]</p> |



## What is the evidence for a role for diet and nutrition in osteoarthritis?

Sally Thomas<sup>1</sup>, Heather Browne<sup>1</sup>, Ali Mobasheri<sup>2,3,4</sup> and Margaret P. Rayman<sup>1</sup>

### Summary of dietary interventions that may be of benefit in OA

| Intervention  | Detail of recommended interventions   | Points to note  |
|---|---|---|
| Dietary management of cholesterol, serum lipids and comorbidities, CVD and MetS | <p>A cholesterol-lowering dietary portfolio should be advocated to patients with raised serum cholesterol (&gt;5 mmol/l/&gt;200 mg/dl) or LDL-C (&gt;3 mmol/l/&gt;100 mg/dl)<sup>a</sup> to reduce CHD risk with the potential for OA benefit</p> <p>≥2 g/day plant stanols/sterols [49]</p> <p>Reduce SFA intake to &lt; 11% total energy (around 31 g/day for males and 24 g/day for females)</p> <p>Ensure daily intake of viscous fibre (e.g. oats), soy protein (25 g) and nuts (30 g)</p> <p>For obese/overweight patients, weight reduction<sup>b</sup> remains of primary importance both for OA symptom management and reduction in risk of the co-morbidities, CVD and MetS</p> | <p>Sources of soy protein include soy milk (7.5 g soy protein per 250 ml serving), soy/edamame beans and tofu</p> |

## What is the evidence for a role for diet and nutrition in osteoarthritis?

Sally Thomas<sup>1</sup>, Heather Browne<sup>1</sup>, Ali Mobasheri<sup>2,3,4</sup> and Margaret P. Rayman<sup>1</sup>

### Summary of dietary interventions that may be of benefit in OA

| Intervention                                      | Detail of recommended interventions   | Points to note   |
|---|---|--|
| To achieve adequate levels of vitamins A, C and E | <p>Ensure adequate daily intake through consumption of rich dietary sources (see supplementary Table S2, available at <i>Rheumatology</i> online)</p> <p>Adult recommended intakes are shown below:</p> <p>Vitamin A (retinol equivalent): 650–750 µg/day (Europe [50]); 700–900 µg/day (USA [51])<sup>c</sup></p> <p>Vitamin C: 95–110 mg/day (Europe [52]); 75–90 mg (USA [51])<sup>c</sup></p> <p>Vitamin E (α-tocopherol equivalent): an adequate intake level of 11–13 mg/day (Europe [53]); 15 mg/day (USA [51, 107])</p> <p>Only consider a multivitamin supplement if dietary intake of these nutrients is insufficient to meet dietary recommendations.</p> <p>Obtaining intake through diet is preferable</p> | <p>US guidelines suggest an additional 30 mg/day Vitamin C for smokers</p> |

## What is the evidence for a role for diet and nutrition in osteoarthritis?

Sally Thomas<sup>1</sup>, Heather Browne<sup>1</sup>, Ali Mobasheri<sup>2,3,4</sup> and Margaret P. Rayman<sup>1</sup>

### Summary of dietary interventions that may be of benefit in OA

| Intervention                        | Detail of recommended interventions  | Points to note |
|-------------------------------------|--|----------------|
| To increase vitamin D intake/status | <p>Increase consumption of vitamin-D-rich foods, for example, oily fish, eggs (yolks), vitamin-D-fortified spreads, fortified milk, fortified cereals (see supplementary Table S2, available at <i>Rheumatology</i> online)</p> <p>During the summer months, daily sunlight exposure (without protective cream/lotion) of approximately 10–20 min (depending on skin type, time of day, altitude and latitude) should be sufficient to produce adequate vitamin D [54, 55]</p> <p>With minimal sun exposure, supplementation of 15–20 µg/day should be encouraged, based on European and American guidelines, to ensure sufficient vitamin D concentration [54, 55]</p> <p>Maintaining a healthy BMI, that is, between 18.5 and 25 kg/m<sup>2</sup>, will reduce the risk of vitamin D sequestration in adipose tissue</p> |                |

## What is the evidence for a role for diet and nutrition in osteoarthritis?

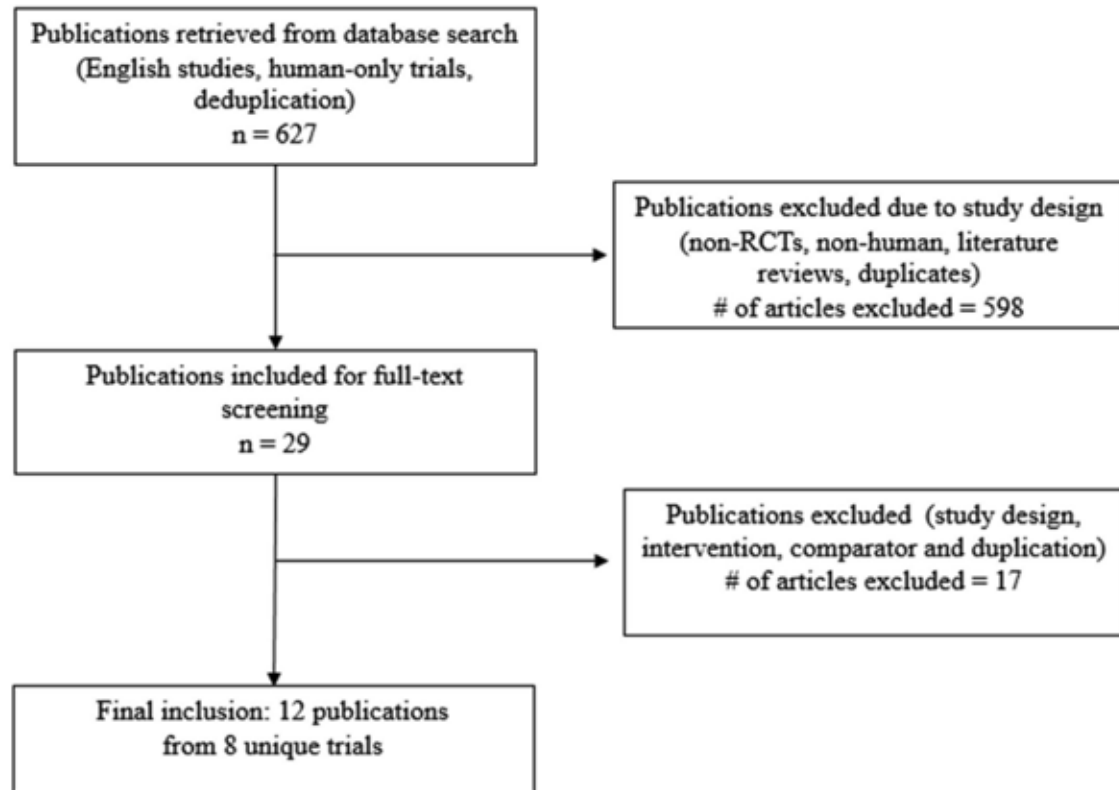
Sally Thomas<sup>1</sup>, Heather Browne<sup>1</sup>, Ali Mobasheri<sup>2,3,4</sup> and Margaret P. Rayman<sup>1</sup>

### Summary of dietary interventions that may be of benefit in OA

| Intervention                 | Detail of recommended interventions   | Points to note   |
|------------------------------|---|--|
| To increase vitamin K intake | <p>Increase green-vegetable consumption, particularly of rich sources such as spinach, Brussels sprouts, kale and broccoli [56] (see supplementary Table S2, available at <i>Rheumatology</i> online for list of sources)</p> <p>Certain fats and oils (e.g. blended vegetable oil, olive oil and margarine [56]) contain small amounts of vitamin K and therefore utilizing these in cooking or as plant spreads may increase intake</p> | <p>The addition of a fat (such as olive oil) to a vitamin K source may increase bioavailability, as vitamin K is fat-soluble</p> |

**Οστεοαρθρίτιδα γόνατος:  
Εγχύσεις Υαλουρονικού vs. Υαλουρονικού και Κορτικοειδών**

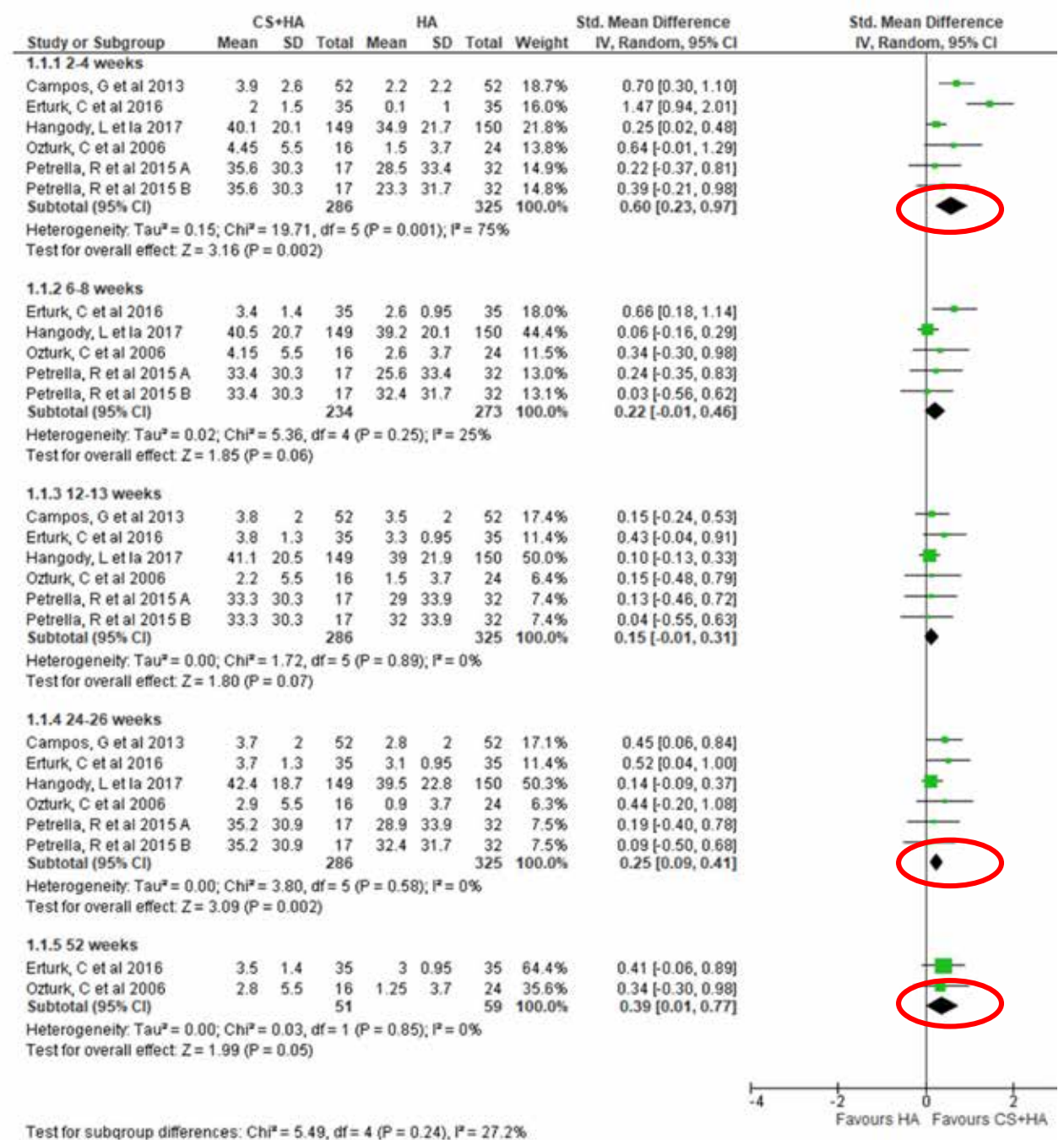
**Combined intra-articular injection of corticosteroid and hyaluronic acid reduces pain compared to hyaluronic acid alone in the treatment of knee osteoarthritis**



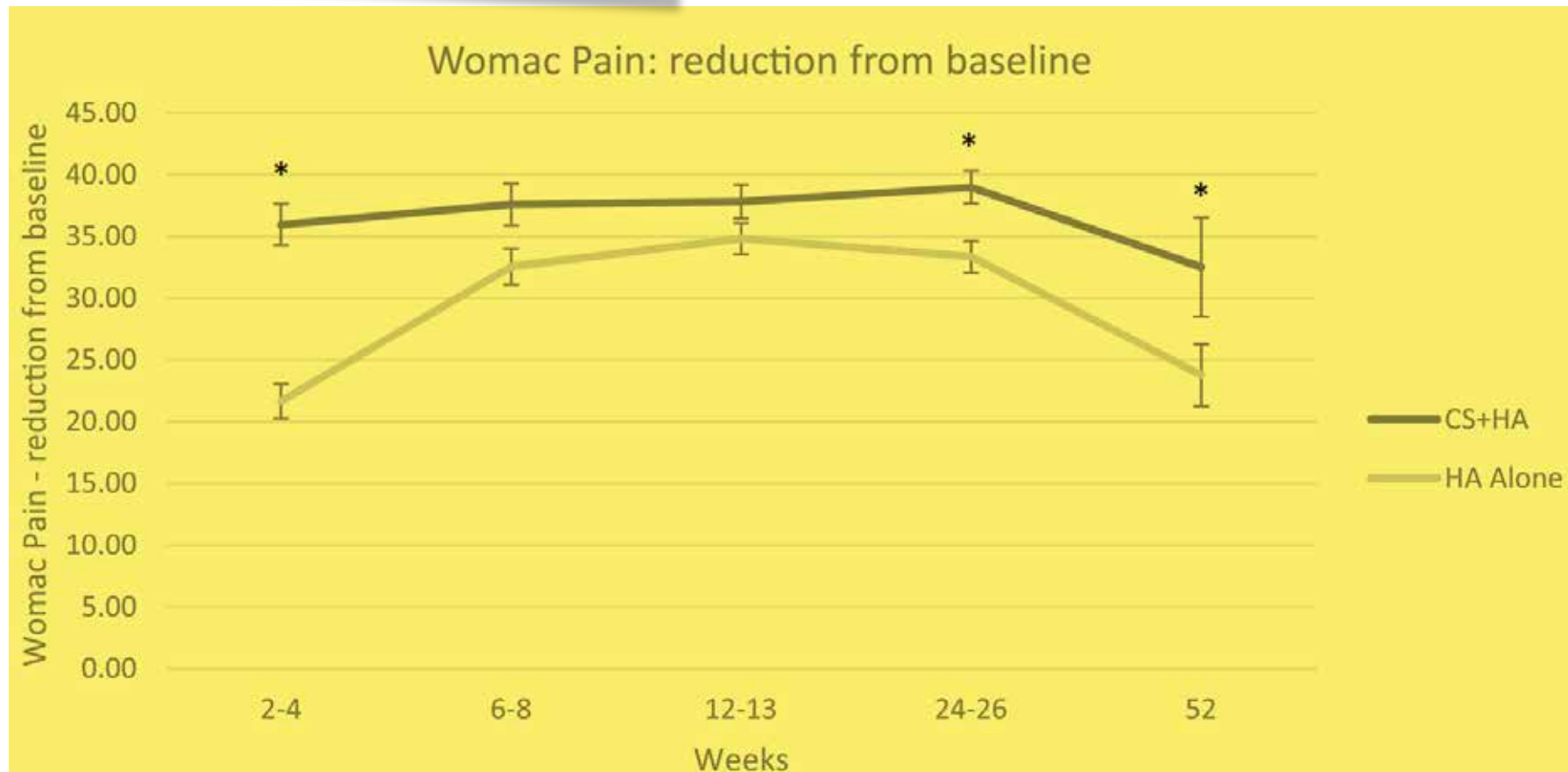


Combined intra-articular injection of corticosteroid and hyaluronic acid reduces pain compared to hyaluronic acid alone in the treatment of knee osteoarthritis

## Διαφορές στην παράμετρο πόνου στην κλίμακα WOMAC από την έναρξη

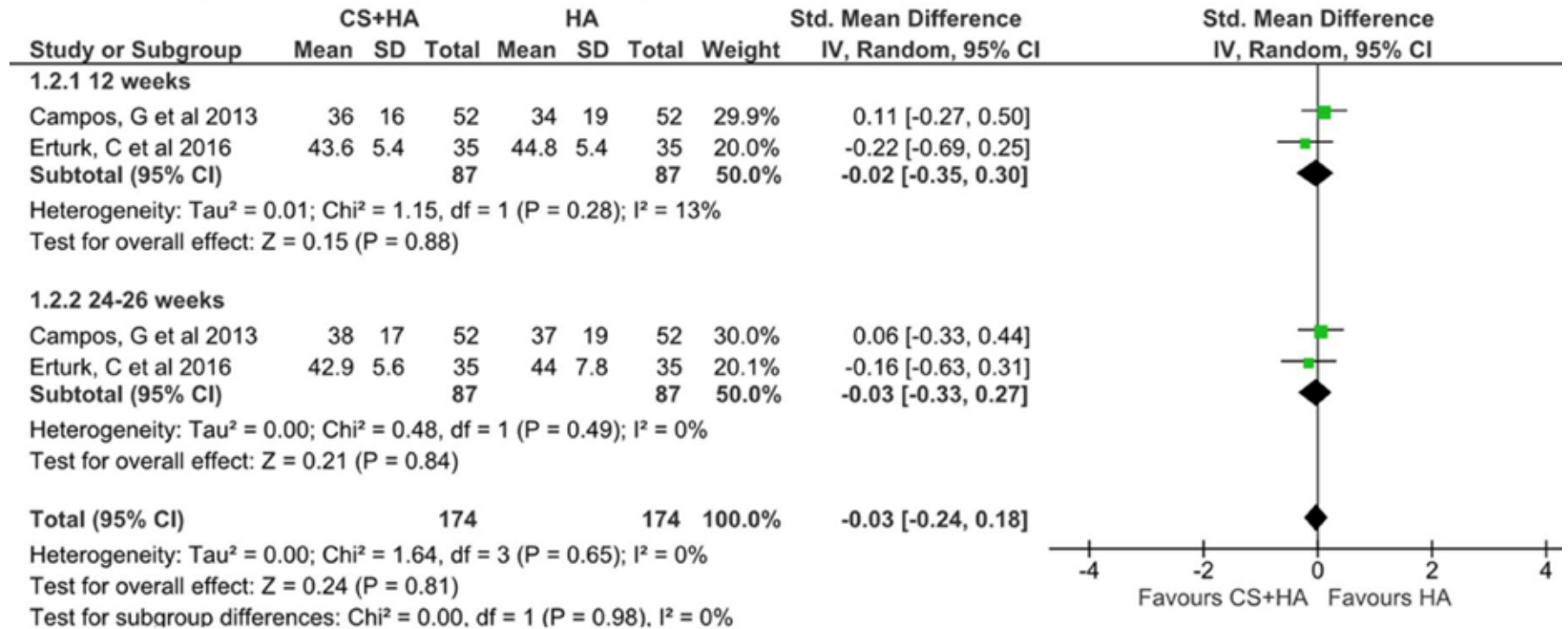


Combined intra-articular injection of corticosteroid and hyaluronic acid reduces pain compared to hyaluronic acid alone in the treatment of knee osteoarthritis



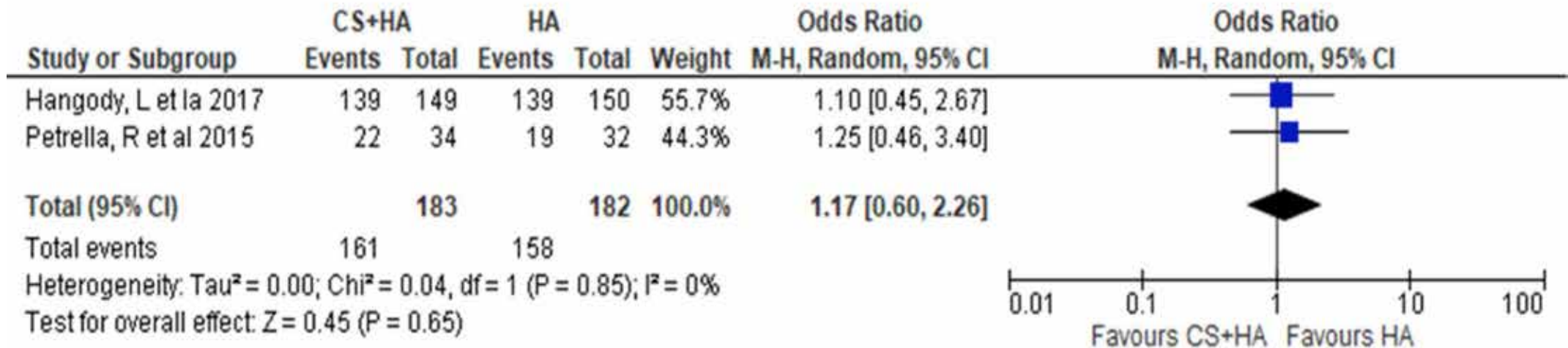
Combined intra-articular injection of corticosteroid and hyaluronic acid reduces pain compared to hyaluronic acid alone in the treatment of knee osteoarthritis

## Διαφορές στην συνολική κλίμακα WOMAC από την έναρξη



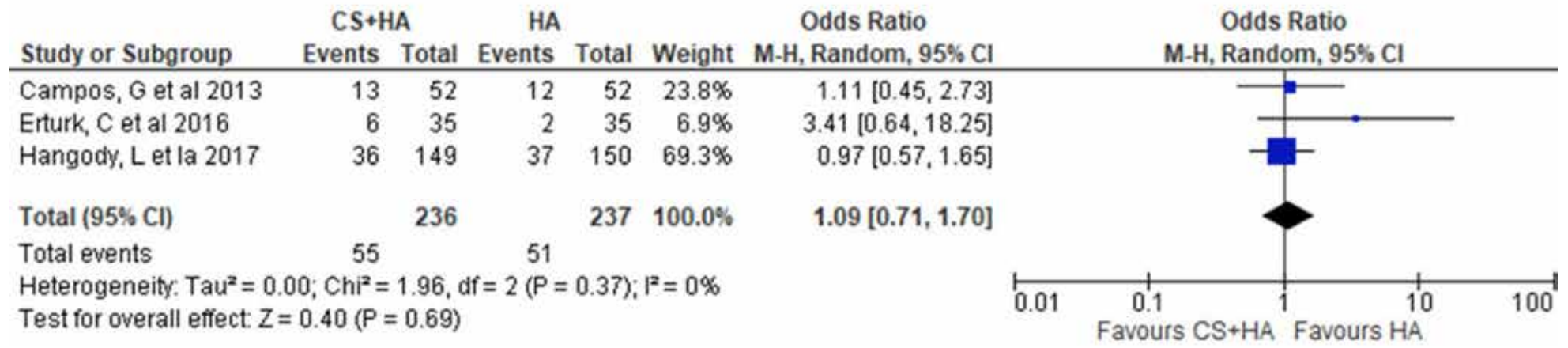
Combined intra-articular injection of corticosteroid and hyaluronic acid reduces pain compared to hyaluronic acid alone in the treatment of knee osteoarthritis

## Μετανάλυση OMERACT-OARSI ποσοστού ανταποκριθέντων



Combined intra-articular injection of corticosteroid and hyaluronic acid reduces pain compared to hyaluronic acid alone in the treatment of knee osteoarthritis

# Μετανάλυση OMERACT-OARSI ανεπιθύμητες ενέργειες



**Conclusion**

The results of this meta-analysis indicate that combined injections of CS and HA can safely lead to an increased reduction in pain in the first 2–4 weeks post-injection compared HA alone. Additionally, combination treatment may lead to greater reductions in pain at 24–26 and 52 weeks.

# **Βιολογικές θεραπείες στην ΟΑ άκρων χειρών**

EXTENDED REPORT

Etanercept in patients with inflammatory hand osteoarthritis (EHOA): a multicentre, randomised, double-blind, placebo-controlled trial

- § 1 έτους διπλά τυφλή πολυκεντρική ελεγχόμενη με εικονικό φάρμακο
- § Συμπτωματική διαβρωτική φλεγμονώδης ΟΑ άκρων χειρών
- § Έξαρση μετά ΜΣΑΦ
- § Etanercept (24 εβδ 50 mg/εβδ, μετά 25 mg/εβδ) ή εικονικό. (45/45)
- § Κύριο καταληκτικό σημείο: Visual Analogue Scale (VAS) πόνου 24<sup>η</sup> εβδομάδα
- § Δευτερεύοντα καταληκτικά: Κλινική και ακτινολογική απάντηση
  - § Ακτινογραφίες με Ghent University Scoring System GUSS
  - § MRI

## EXTENDED REPORT

Etanercept in patients with inflammatory hand osteoarthritis (EHOA): a multicentre, randomised, double-blind, placebo-controlled trial

**Table 2** Joint pain at baseline, 24 weeks and 1 year, and between-group differences at 24 weeks and 1 year in intention-to-treat and per-protocol population

|                    | Etanercept     |                |                | Placebo        |                |                | Between-group difference |          |                          |          |
|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------|----------|--------------------------|----------|
|                    | Baseline       | 24 weeks       | 1 year         | Baseline       | 24 weeks       | 1 year         | 24 weeks                 | P values | 1 year                   | P values |
| Intention-to-treat |                |                |                |                |                |                |                          |          |                          |          |
|                    | n=45           |                |                | n=45           |                |                | n=90                     |          | n=90                     |          |
| VAS pain           | 71.1<br>(15.7) | 39.2<br>(24.7) | 35.7<br>(25.1) | 68.4<br>(12.8) | 46.5<br>(23.4) | 45.4<br>(25.7) | -5.7<br>(-15.9 to 4.5)   | 0.27     | -8.5<br>(-18.6 to 1.6)   | 0.10     |
| Per-protocol       |                |                |                |                |                |                |                          |          |                          |          |
|                    | n=32           | n=32           | n=28           | n=38           | n=38           | n=33           | n=70                     |          | n=61                     |          |
| VAS pain           | 69.2<br>(13.9) | 44.8<br>(22.8) | 35.1<br>(24.4) | 67.0<br>(13.0) | 40.6<br>(24.7) | 45.2<br>(26.1) | -5.6<br>(-16.9 to 5.6)   | 0.32     | -11.8<br>(-23.0 to -0.5) | 0.04     |

## EXTENDED REPORT

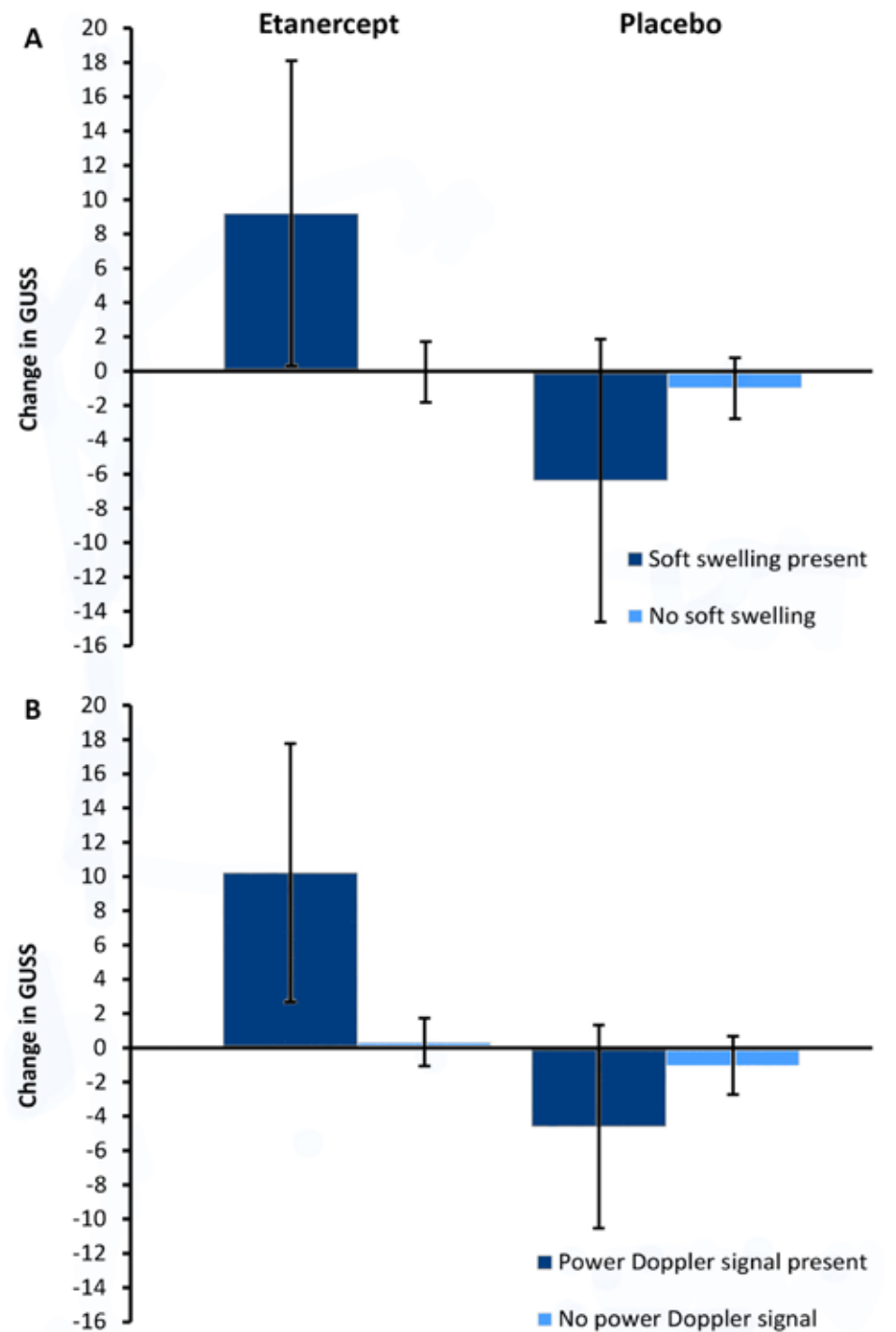
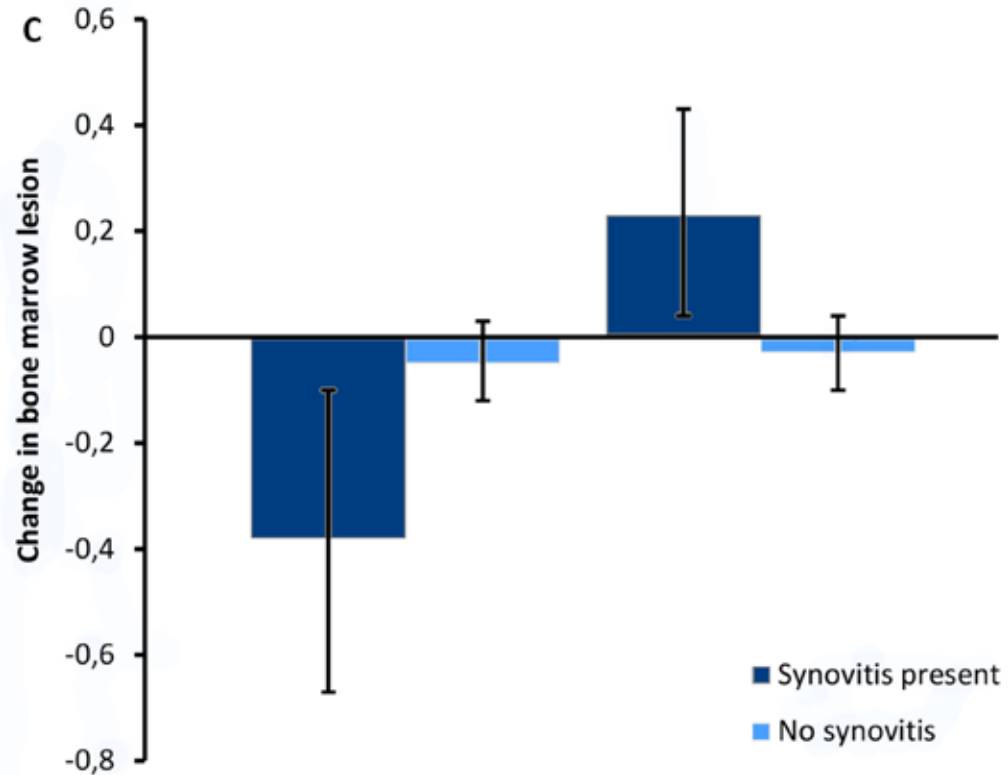
## Etanercept in patients with inflammatory hand osteoarthritis (EHOA): a multicentre, randomised, double-blind, placebo-controlled trial

**Table 3** Secondary clinical and imaging outcome measurements at baseline, and between-group differences at 24 weeks and 1 year

|   | Etanercept    | Placebo       | Between-group difference |          |                      |          |
|---|---------------|---------------|--------------------------|----------|----------------------|----------|
|   | Baseline      | Baseline      | 24 weeks                 | P values | 1 year               | P values |
| <b>Intention-to-treat</b>                     |               |               |                          |          |                      |          |
| Clinical outcomes                             | n=45          | n=45          | n=89                     |          | n=89*                |          |
| VAS patient global                            | 63.7 (18.8)   | 66.3 (16.2)   | -2.5 (-12.6 to 7.6)      | 0.62     | -2.3 (-13.0 to 8.4)  | 0.67     |
| VAS physician global                          | 58.1 (16.9)   | 56.1 (13.6)   | -4.0 (-14.9 to 6.8)      | 0.53     | -2.8 (-17.4 to 11.6) | 0.70     |
| FIHOA   | 9.9 (5.9)     | 10.9 (9.9)    | 0.0 (-1.7 to 1.8)        | 0.97     | 0.0 (-2.4 to 2.3)    | 0.98     |
| Grip strength                                 | 15.9 (10.8)   | 17.3 (11.9)   | 0.4 (-1.7 to 2.4)        | 0.74     | 0.0 (-2.2 to 2.1)    | 0.97     |
| SF-36 PCS†                                    | 42.9 (8.4)    | 42.9 (9.3)    |                          |          | 0.7 (-3.6 to 5.1)    | 0.11     |
| Tender joint count                            | 8.0 (9.0)     | 6.5 (4.6)     | -0.4 (-1.8 to 1.0)       | 0.58     | 0.4 (-1.4 to 2.1)    | 0.66     |
| Soft swollen joint count                      | 3.0 (2.2)     | 2.1 (1.8)     | -0.03 (-0.8 to 0.8)      | 0.94     | -0.01 (-0.9 to 0.9)  | 0.99     |
| <b>Ultrasound</b>                             |               |               |                          |          |                      |          |
| Joints with power Doppler, median (IQR)       | 2.0 (1.0–3.0) | 1.0 (1.0–3.0) | -0.3 (-1.04 to 0.4)      | 0.39     | -0.01 (-0.7 to 0.7)  | 0.98     |
| Joints with synovial thickening, median (IQR) | 3.0 (1.0–6.0) | 2.0 (1.0–5.0) | 0.2 (-1.02 to 1.3)       | 0.07     | -0.3 (-1.9 to 1.3)   | 0.73     |
| <b>Selected patient groups</b>                |               |               |                          |          |                      |          |
| Radiographs‡§                                 | n=23          | n=31          |                          |          | n=54                 |          |
| GUSS  | 287 (36)      | 288 (34)      |                          |          | 2.9 (0.5 to 5.4)     | 0.02     |
| MRI‡  | n=10          | n=10          |                          |          | n=20                 |          |
| Synovitis                                     | 1.0 (0.5)     | 1.4 (0.3)     |                          |          | 0.03 (-0.2 to 0.3)   | 0.81     |
| Bone marrow lesions                           | 0.6 (0.3)     | 0.7 (0.3)     |                          |          | -0.2 (-0.4 to -0.1)  | 0.001    |

EXTENDED REPORT

# Etanercept in patients with inflammatory hand osteoarthritis (EHOA): a multicentre, randomised, double-blind, placebo-controlled trial





OPEN ACCESS

EXTENDED REPORT

Phase IIa, placebo-controlled, randomised study of lutikizumab, an anti-interleukin-1 $\alpha$  and anti-interleukin-1 $\beta$  dual variable domain immunoglobulin, in patients with erosive hand osteoarthritis

Προκλινικές μελέτες ΟΑ ανθρώπων αλλά και μοντέλων ποντικιών:

IL1a, IL-1 $\beta$  μεσολαβητές:

§ Υμενίτιδας

§ Καταστροφής χόνδρου

§ Οστικής απώλειας

Lutikizumab: DVD Ig, συνδέεται και ουδετεροποιεί την IL-1a και IL-1 $\beta$

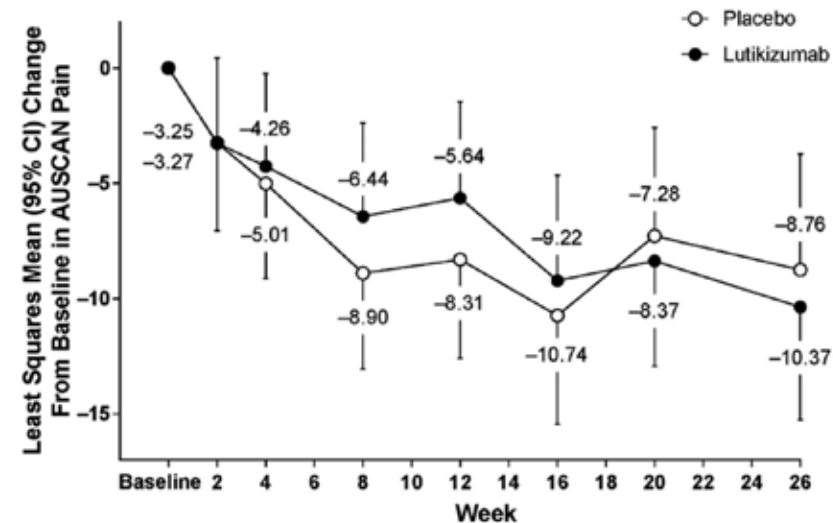


OPEN ACCESS

EXTENDED REPORT

Phase IIa, placebo-controlled, randomised study of lutikizumab, an anti-interleukin-1 $\alpha$  and anti-interleukin-1 $\beta$  dual variable domain immunoglobulin, in patients with erosive hand osteoarthritis

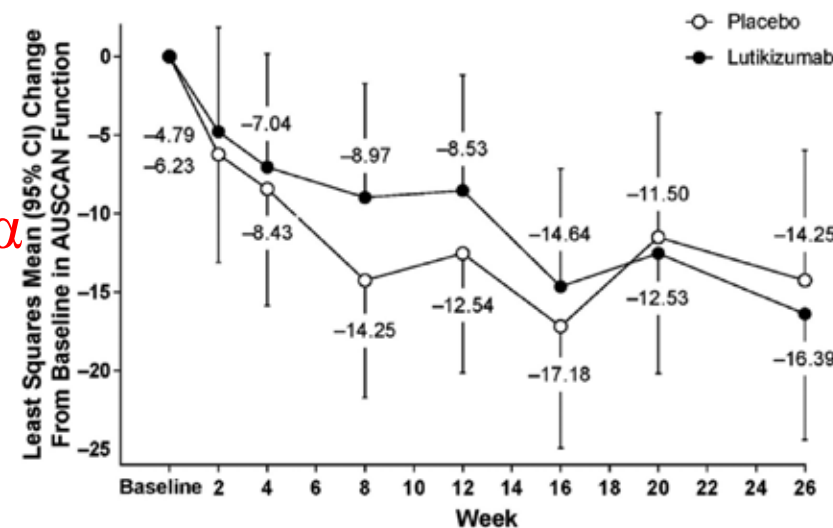
Πόνος



|             | Baseline | 2  | 4  | 8  | 12 | 16 | 20 | 26 |
|-------------|----------|----|----|----|----|----|----|----|
| Placebo     | 65       | 65 | 65 | 63 | 61 | 61 | 57 | 60 |
| Lutikizumab | 64       | 62 | 63 | 58 | 53 | 51 | 49 | 50 |

- § Φάσης 2α μελέτη
- § Διπλά τυφλή
- § Ασθενείς με διαβρωτική ΟΑ άκρων χειρών
- § Σύγκριση με εικονικό

Λειτουργικότητα



|             | Baseline | 2  | 4  | 8  | 12 | 16 | 20 | 26 |
|-------------|----------|----|----|----|----|----|----|----|
| Placebo     | 65       | 65 | 65 | 63 | 61 | 61 | 57 | 60 |
| Lutikizumab | 64       | 62 | 63 | 58 | 53 | 51 | 49 | 50 |

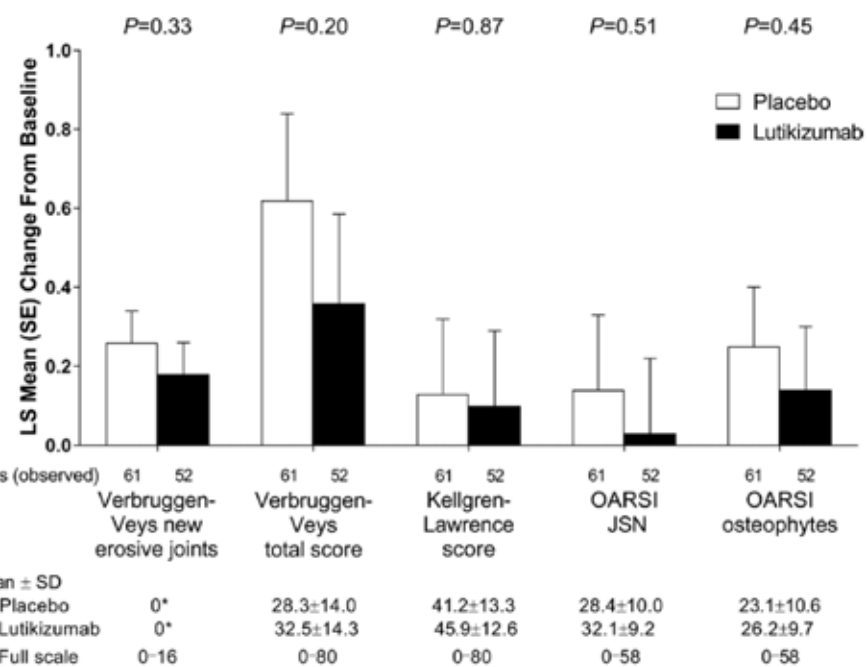


OPEN ACCESS

EXTENDED REPORT

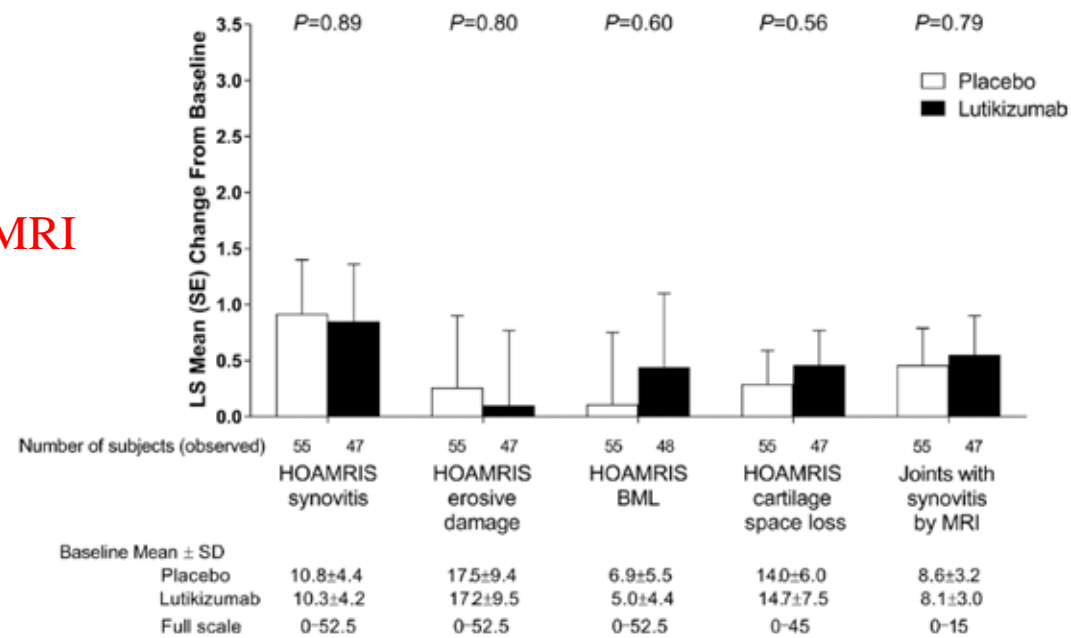
Phase IIa, placebo-controlled, randomised study of lutikizumab, an anti-interleukin-1 $\alpha$  and anti-interleukin-1 $\beta$  dual variable domain immunoglobulin, in patients with erosive hand osteoarthritis

A/A



§ Καμιά σημαντική διαφορά στις δομικές αλλοιώσεις (Απεικόνιση)

MRI





## EXTENDED REPORT

Phase IIa, placebo-controlled, randomised study of lutikizumab, an anti-interleukin-1 $\alpha$  and anti-interleukin-1 $\beta$  dual variable domain immunoglobulin, in patients with erosive hand osteoarthritis

Η στόχευση της IL-1 μπορεί να μην είναι αποτελεσματική στην διαβρωτική ΟΑ των άκρων χειρών

**Table 3** Safety results

| AE, n (%)                               | Placebo (n=67) | Lutikizumab (n=64) |
|---|----------------|--------------------|
| Any AE                                  | 59 (88)        | 58 (91)            |
| Any SAE                                 | 2 (3)          | 2 (3)              |
| AE leading to discontinuation           | 2 (3)          | 5 (8)              |
| Neutropaenia leading to discontinuation | 0              | 2 (3)              |
| Death                                   | 0              | 0                  |
| Infection                               | 34 (51)        | 26 (41)            |
| Serious infection                       | 0              | 0                  |
| Injection site reaction                 | 11 (16)        | 23 (36)            |
| Laboratory abnormality, n (%)           |                |                    |
| Neutropaenia (grade 2, 3 or 4)          | 0              | 12 (19)            |
| Grade 2: 1 to <1.5 $\times 10^9/L$      | 0              | 9 (14)             |
| Grade 3: 0.5 to <1 $\times 10^9/L$      | 0              | 3 (5)              |
| Grade 4: <0.5 $\times 10^9/L$           | 0              | 0                  |
| Hypertriglyceridaemia (grade 3 or 4)    | 0              | 1 (2)              |
| Grade 3: >5.7 to 11.4 mmol/L            | 0              | 1 (2)              |

# Knee osteoarthritis: pathophysiology and current treatment modalities

| <b>Societies recommendations</b>                   |   |                            |                           |
|--|---|----------------------------|---------------------------|
| <b>Treatment</b>                                   | <b>OARSI</b>  | <b>ACR</b>                 | <b>AAOS</b>               |
| Exercise (land and water based)                    | Appropriate   | Strong recommendation      | Strong recommendation     |
| Transcutaneous electrical nerve stimulation (TENS) | Uncertain   | Conditional recommendation | Inconclusive              |
| Weight control                                     | Appropriate   | Strong recommendation      | Moderate recommendation   |
| Chondroitin or Glucosamine                         | Not appropriate for disease modification, Uncertain                       | Recommended against use    | Recommended against use   |
| Acetaminophen                                      | Without comorbidities: appropriate  | Conditional recommendation | Inconclusive              |
| Duloxetine   | Appropriate   | No recommendation          | No recommendation         |
| Oral NSAIDs  | Without comorbidities: appropriate<br>With comorbidities: not appropriate | Conditional recommendation | Strong recommendation     |
| Topical NSAIDs                                     | Appropriate   | Conditional recommendation | Strong recommendation     |
| Opioids  | Uncertain   | No recommendation          | Recommended only tramadol |
| Intra-articular corticosteroids                    | Appropriate   | Conditional recommendation | Inconclusive              |
| Intra-articular viscosupplementation               | Uncertain   | No recommendation          | Recommended against use   |

