



6°

Πανελλήνιο Θερινό Συμπόσιο

Μυοσκελετικής Υγείας

Διαδραστική συζήτηση περιστατικών

Με διαδικτυακή παρακολούθηση



ΕΠΙΣΤΗΜΟΝΙΚΗ
ΕΝΩΣΗ ΓΙΑ ΤΗ
ΜΥΟΣΚΕΛΕΤΙΚΗ
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07 - 10
Μαΐου 2026

Σύρος, Κυκλάδες
Ξενοδοχείο Hermes, Ερμούπολη

Brainstorming Sessions

Η σωστή διάγνωση ως βάση της θεραπείας στις Σπονδυλαρθρίτιδες

Εσκιτζής Αναστάσιος
Ιδιώτης Ρευματολόγος

Introduction

2 patient cases

with some related literature

to illustrate the importance of the correct diagnosis in patients with suspicion of SpA
and the connection to appropriate treatment

Disclosures:

Υποστήριξη από την Hospital Line για τη συμμετοχή στο παρόν συνέδριο.

Why diagnosis matters in SpA

Spondyloarthritis is both:

- Frequently **suspected**
- Frequently **misdiagnosed**

Two fundamental diagnostic risks:

- **Overdiagnosis** → mimics labeled as SpA
- **Underdiagnosis / misdiagnosis** → SpA labeled as something else

Why it matters:

- Treatment is **diagnosis-driven**
- Wrong diagnosis → **wrong therapeutic pathway** (overtreatment, treatment delay, wrong choice of drugs)

Case presentation 1

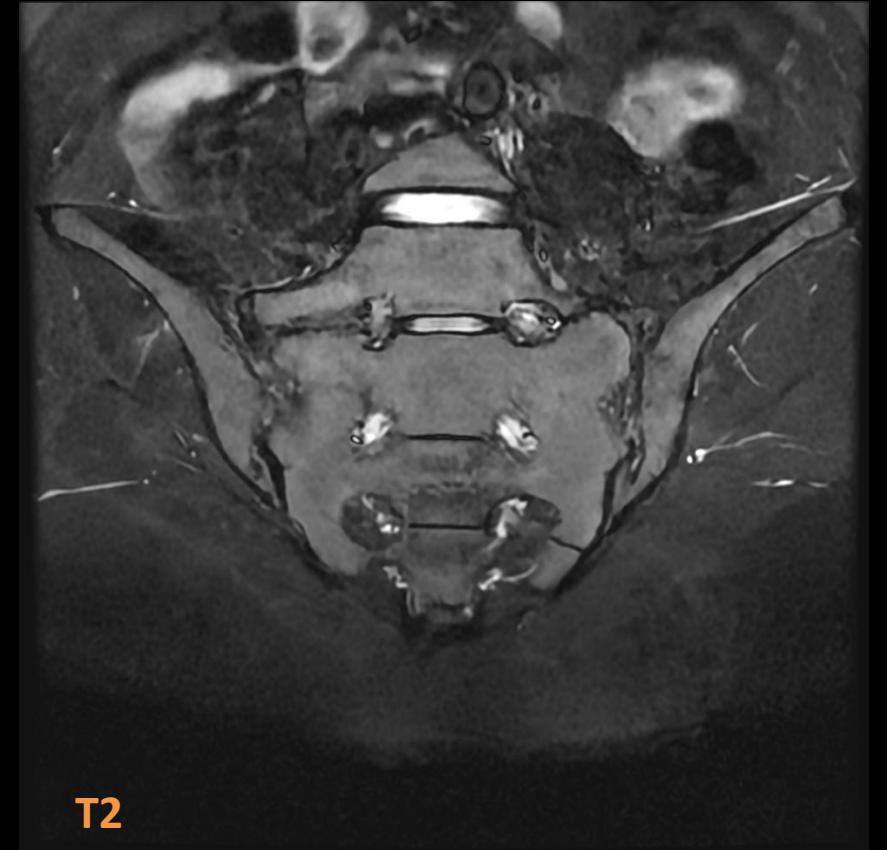
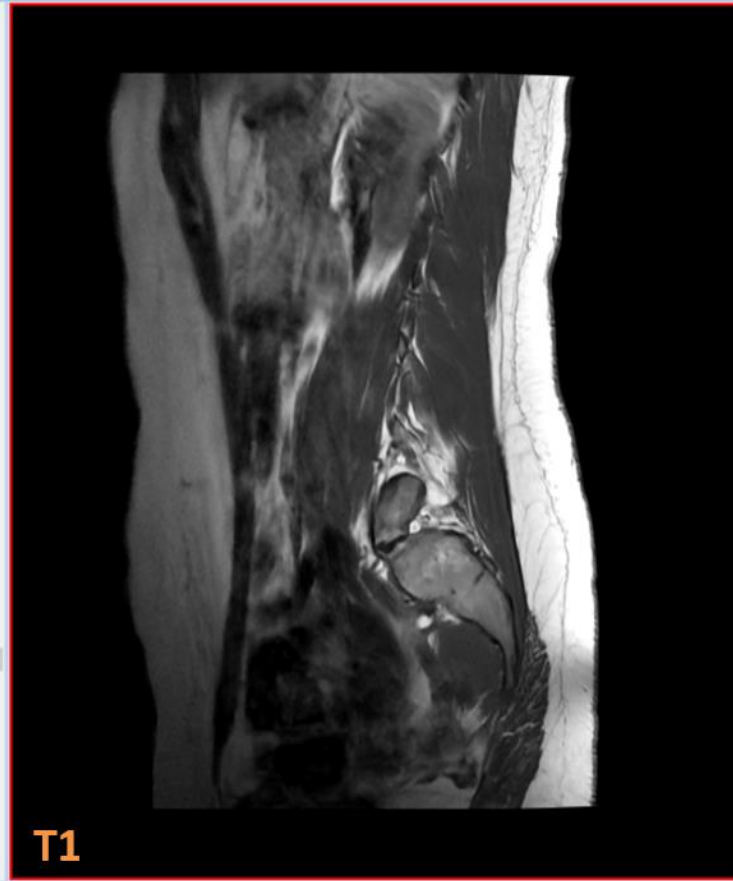
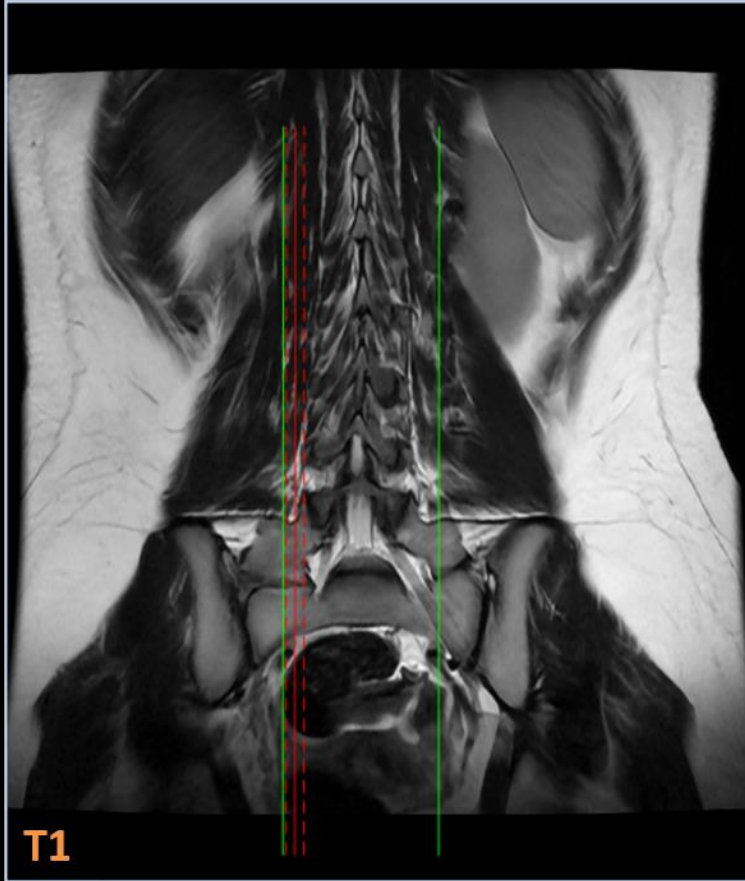
14 yo female patient

- low back pain, rather right sided, present for at least 1 yr
- mixed (mechanical and inflammatory) features: persisting at night, not improving with movement, good response to NSAIDs
- Family history: mother with psoriasis and psoriatic arthritis on bDMARD
- Labs: CRP (-), ESR 20 mm/h, HLA-B27 (-)
- Mother also HLA-B27 (-).

Suspicion for axial SpA

Imaging required

Case presentation 1 - Continued



Lumbosacral transitional vertebra (LSTV) – Bertolotti syndrome

Bertolotti syndrome is a clinical diagnosis of **low back pain** caused by a **lumbosacral transitional vertebra (LSTV)**.

LSTV is a common congenital anomaly (**4-25% of the population**), where either the **lowest lumbar vertebra sacralizes**, or the **uppermost sacral segment lumbarizes**.

Sacralized L5 exhibit morphologic features ranging from elongated transverse process(es) to complete sacral fusion.

Lumbarized S1 may appear more square-like in the sagittal plane, possess full sized S1–S2 intervertebral disk and/or lumbar-type facet joints, and articulate abnormally to the remainder of the sacrum.

LSTV is associated with low back pain, nerve root symptoms, and sacroiliac dysfunction.

Origin of LBP?: pseudoarticulation?, superior intervertebral disc?

Management algorithm:

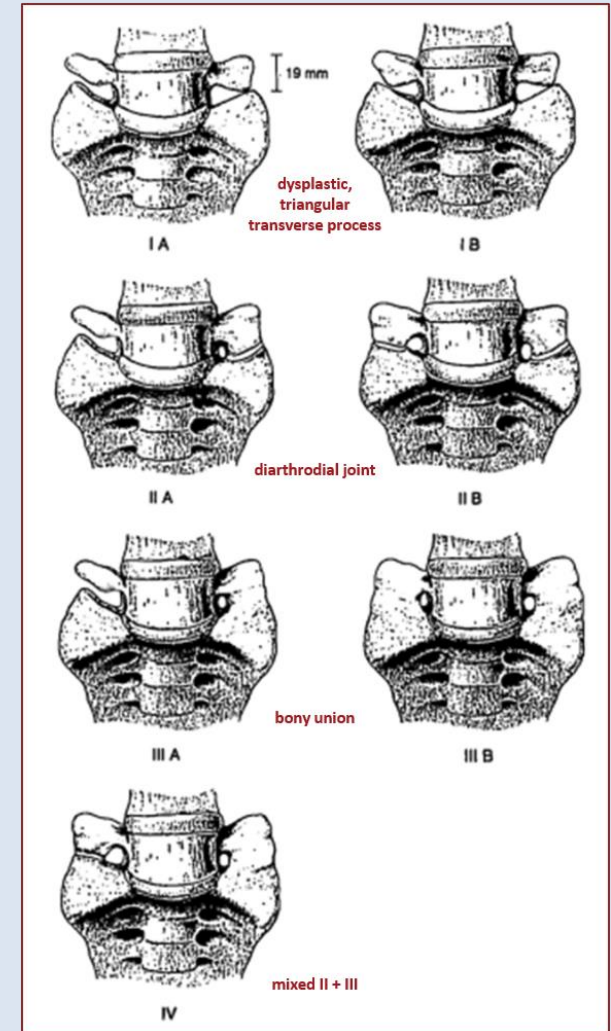
anesthetic block of the pseudoarticulation -> pain relief

-> steroid inj in the pseudoarticulation

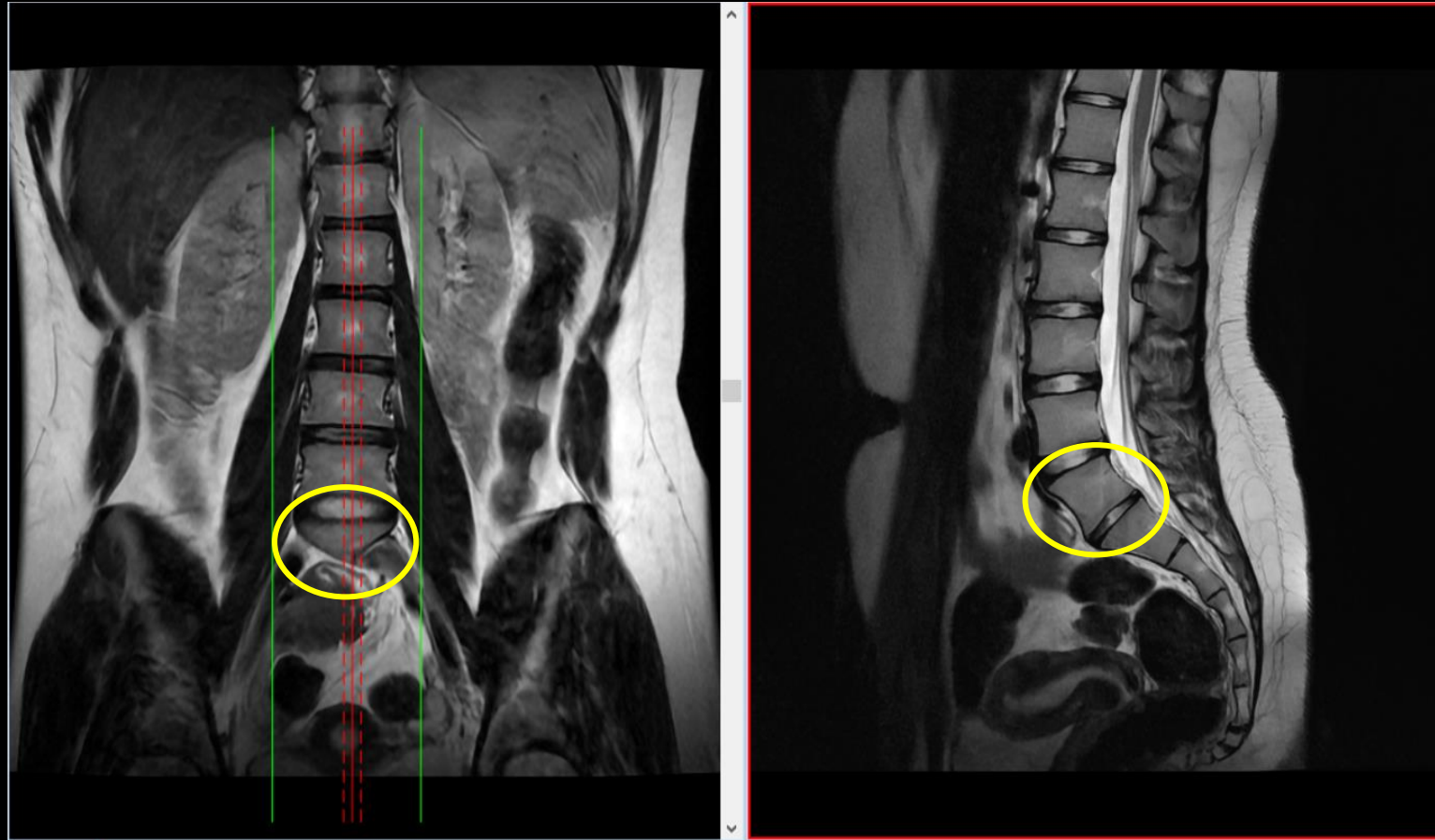
-> RF ablation

-> surgery

Castellvi classification system

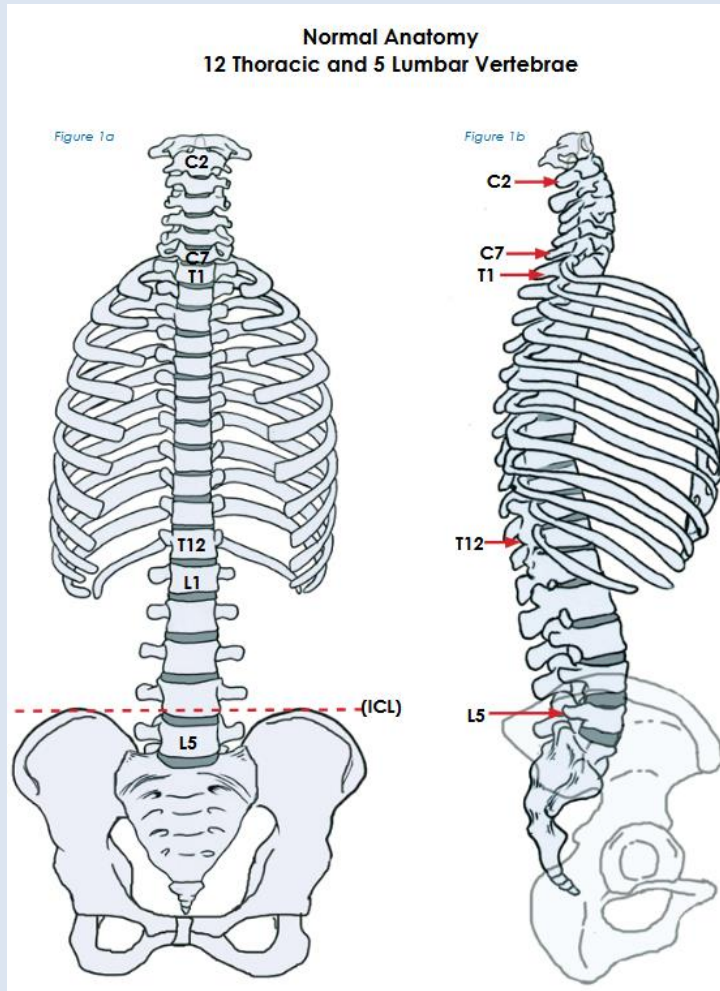


LSTV – Vertebral numeration



L5 or S1?

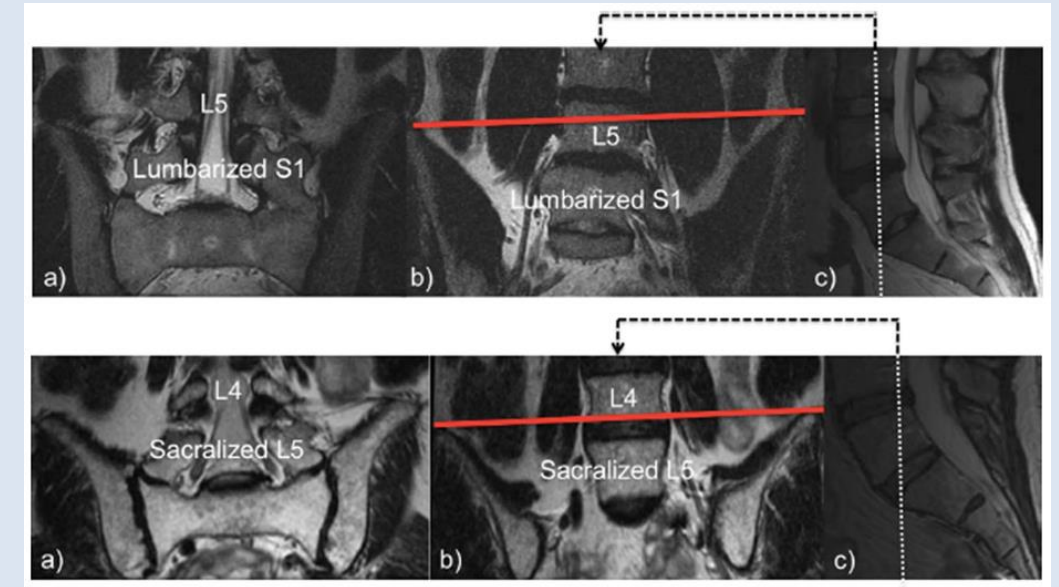
LSTV – Vertebral numeration



T1 is defined as the first vertebra with a pair of associated ribs.

L1 will always be the vertebra immediately below the last thoracic vertebra, that is the last vertebra with an associated pair of ribs.

If 5 lumbar vertebra present, then
the 5th vertebra is named L5
(even if sacralized)
the next vertebra is named S1
(even if lumbarized).



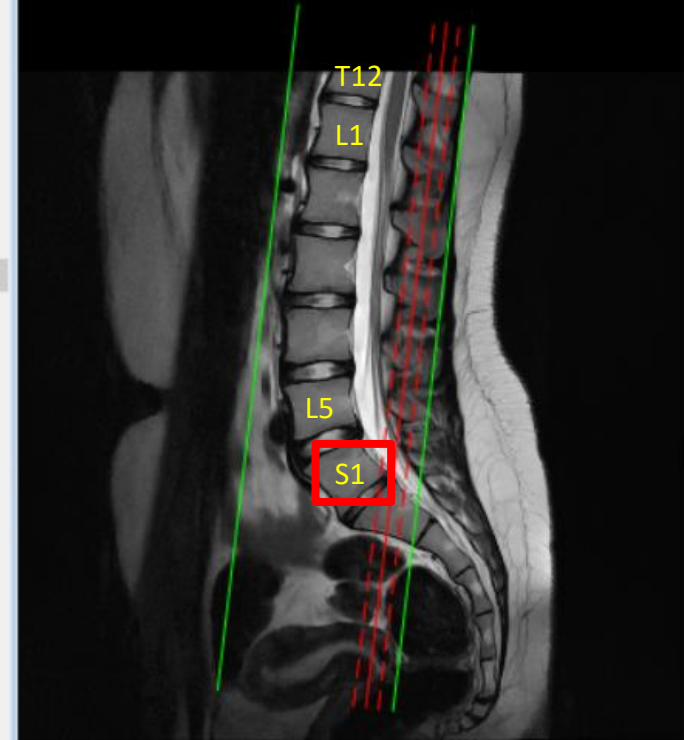
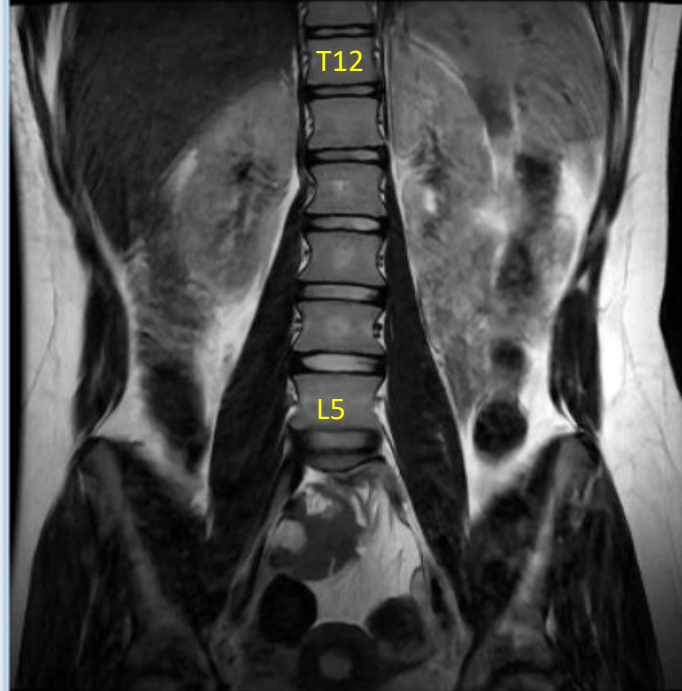
Iliac crest tangent sign

line connecting the superior tip of each iliac crest on coronal lumbar MRI ->

If there are more than $1\frac{1}{4}$ vertebral bodies visible below the line, then the most caudal vertebra is considered lumbarized S1.

If there are less than $1\frac{1}{4}$ vertebral bodies visible below the line, then the most caudal vertebra is considered sacralized L5.

LSTV – Vertebral numeration



Απεικονίζεται μεταβατικός οσφυοϊερός σπόνδυλος με υπερτροφία των εγκάρσιων αποφύσεων και σχηματισμό ψευδαρθρώσεων με το ιερό (ορίζεται L1).

Case presentation 1 - Continued



CT guided steroid + anesthetic injection

-> prompt and sustained improvement in pain

Case presentation 2

51 yo female

Dx of “seronegative RA” from 2022

**symmetric inflammatory polyarthritis in finger joints (especially PIPJs),
knees, midfoot joints**

Main problem: GTPS R

Medication History:

MTX, unclear reason for discontinuation

leflunomide, inadequate response

abatacept, inadequate response

baricitinib, for 3 months, moderate response, then discontinued due to
shoulder surgery for tendon tear

Other problems:

plantar fasciitis

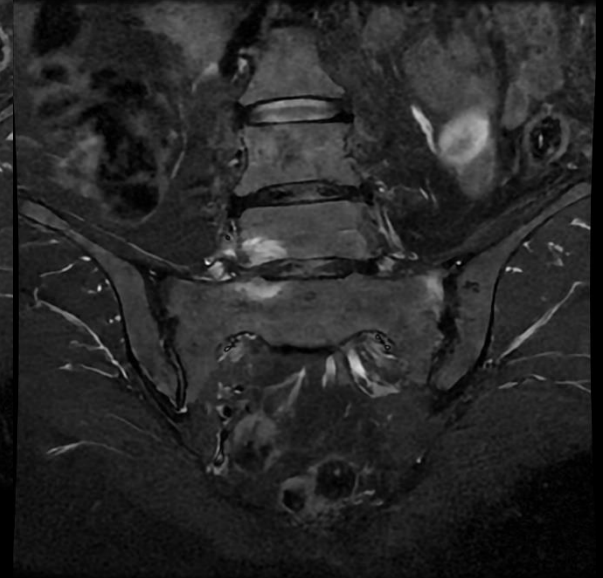
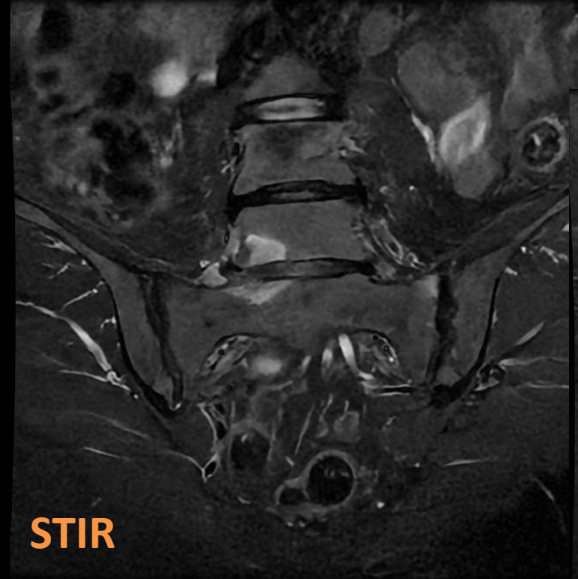
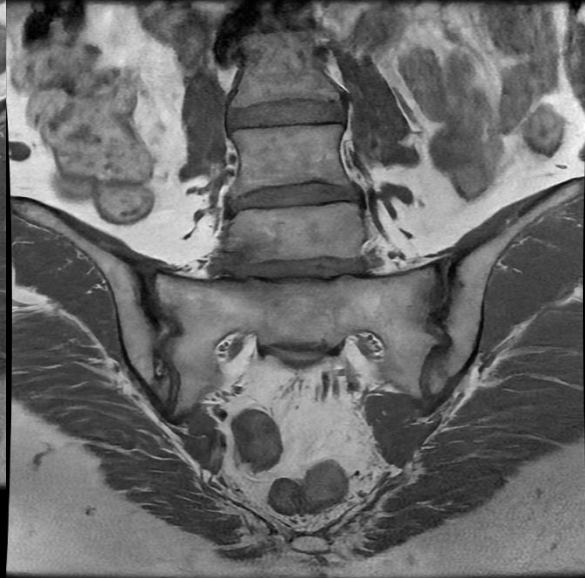
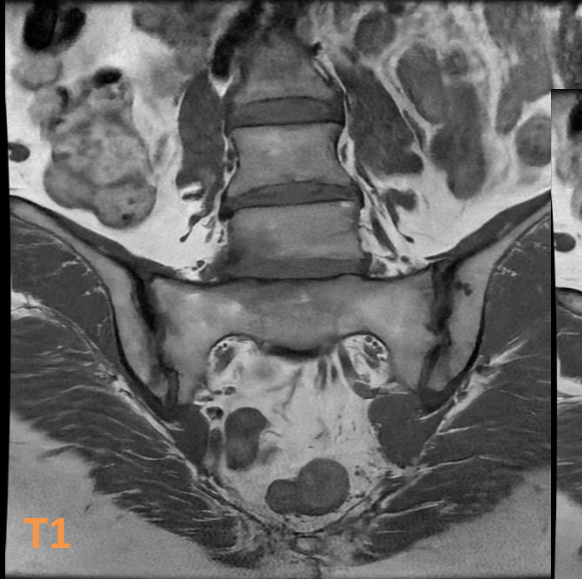
chronic low back pain with inflammatory features



Case presentation 2 - Continued



Case presentation 2 - Continued



Case presentation 2 - Continued



Case presentation 2 - Continued



Peripheral joint changes in RA vs SpA

Radiographic appearance

Radiology of
Seronegative Spondyloarthropathies

DONALD RESNICK, M.D.

RA: erosive change with little or no new bone.

SpA: erosions plus proliferative bone change, preserved bone density.

Pathophysiology

RA: synovitis drives **osteoclast-mediated bone resorption** through TNF- α , IL-1, IL-6, and RANKL, while **osteoblast repair is suppressed** by Wnt inhibitors such as DKK1.

SpA: inflammation is centered at the **enthesis/periosteum**, where the **IL-23/IL-17 axis** and downstream **Wnt/BMP/Hedgehog** programs favor **osteogenic differentiation**.

Case presentation 2 - Continued



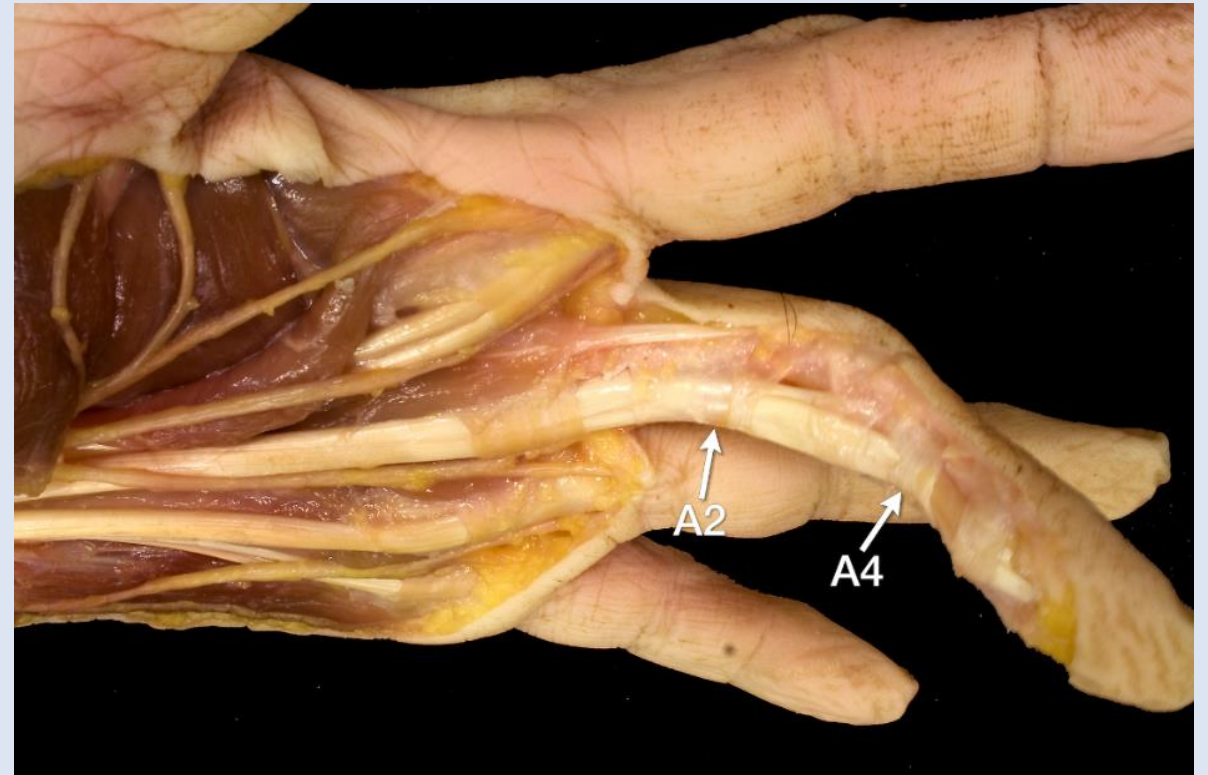
diagnostics



Article

Osteo-Proliferative Lesions of the Phalanges on Radiography: Associations with Sex, Age, and Osteoarthritis

Sandra Hermann ¹, Iris Eshed ², Iván Sáenz ³, Niclas Doeppner ⁴, Katharina Ziegeler ^{4,†} 
and Kay Geert A. Hermann ^{4,*,†} 



Misdiagnosis of SpA as RA

RHEUMATOLOGY

Rheumatology 2021;60:2391–2395
doi:10.1093/rheumatology/keaa623
Advance Access publication 11 November 2020

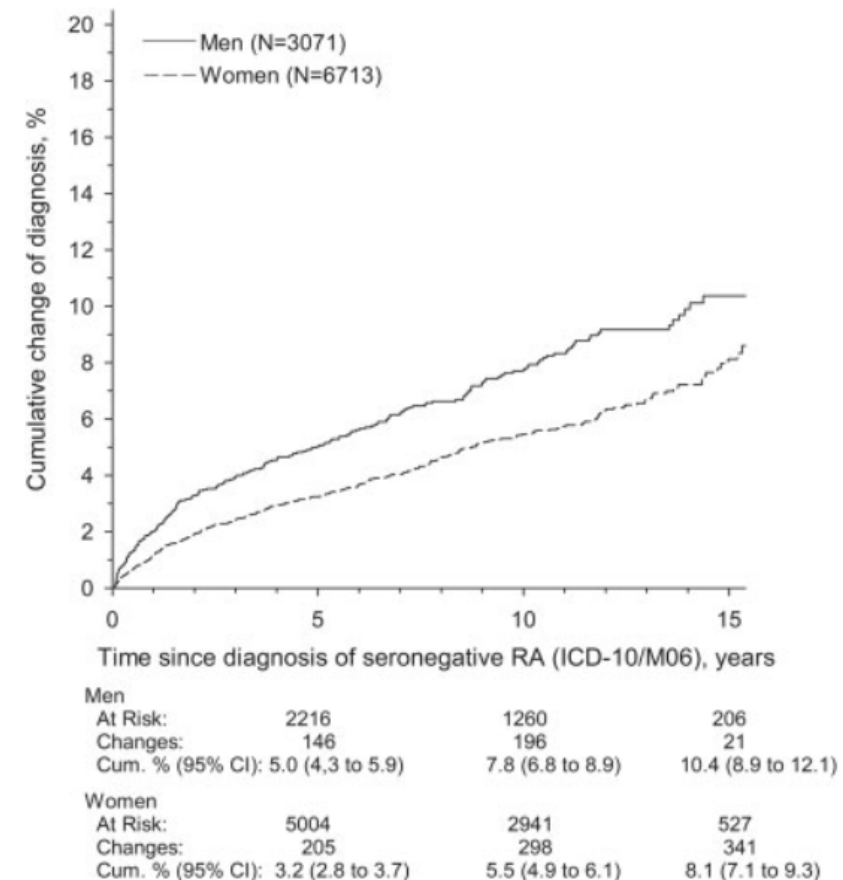
Original article

Is seronegative rheumatoid arthritis true rheumatoid arthritis? A nationwide cohort study

Kirsi Paalanen¹, Kari Puolakka², Elena Nikiphorou³, Pekka Hannonen¹ and Tuulikki Sokka^{1,4}

The **15-year cumulative incidence** for **changing diagnosis** from seronegative RA to **SpA** was **8.8%**.

Male patients and younger patients at diagnosis (<50 yrs) were more likely to have a change in their diagnosis to SpA.



The cumulative incidence of new SpA diagnosis (PsA, axial SpA and IBD) between men and women in patients initially diagnosed as seronegative RA during years 2000 and 2014.

Case presentation 2

51 yo female

Dx of “seronegative RA” from 2022

**symmetric inflammatory polyarthritis in finger joints (especially PIPJs),
knees, midfoot joints**

Main problem: GTPS R

Medication History:

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Other problems:

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chronic low back pain with inflammatory features



**New Dx: axial SpA with peripheral
arthritis**

Poor response to abatacept and
leflunomide (and baricitinib) makes sense.

Tx w infliximab sc + methotrexate po
-> good response

Concluding remarks

- With no pathognomonic features, diagnosis of spondyloarthritis remains a skill that involves the recognition of a pattern of features that taken together provide sufficient evidence to diagnose the disease.
- Other causes of back pain, including mechanical conditions, that may cause symptoms at young age and mimic SpA, such as Bertolotti syndrome, need to be kept in mind.
- “Seronegative RA” is often not the final diagnosis – just a temporary “label”. Look carefully for axial and peripheral SpA features, including osteoproliferation!
- Diagnostic errors need to be avoided, as they usually lead to therapeutic errors.

Ευχαριστώ για την προσοχή σας!