

# CASE REPORT

# OLIGOARTHRITIS

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## CASE REPORT

### • Identification and Initial Complaint:

- G.O., ♂, 4yo
- *Main complaint: painful and swollen joints, lasting approximately 6 weeks*
- Initial Clinical Features:
  - diffuse pain in both legs, first attributed to extensive bike riding
  - fever of 38°C
  - edema in the right ankle >>>> claudication
  - edema and pain in the left elbow
    - *The pain worsened daily despite the use of common analgesia and anti-inflammatory drugs!*



## CASE REPORT

- Initial Laboratory Findings:

- *Mucoprotein* 7.9mg/dL
- *Hb* 12.7 g/dL, *Ht* 39.9%, *WBC* 11.2 (n 49% bf 7% l 26% m 14% e 2%), *Platelet* 459.000
- **ESR** 52 mm
- **CRP** 12 mg/dL
- *ASLO* < 200UI
- *RF* < 8mUI/ml
- *ANA* negative



# CASE REPORT

## – Initial Imaging Studies:

- **Left Elbow and Right Ankle Radiography:** no abnormalities
- **Ultrasounds of the Ankle and Elbow:** no abnormalities
- **Electrocardiogram and Echocardiogram:** normal according to age



## CASE REPORT

- **First Diagnostic Impression:** *Oligo JIA* by an adult rheumatologist
- **Treatment:** prednisolone and ASA
  - Transient 5-day relief of complaints
  - Recurrence of the pain, *night awakenings* pain-related



## CASE REPORT

- After 45 days, referred to a *pediatric rheumatologist*
- **Additional Symptoms Presented:**
  - fever in a weekly pattern
  - moderate fatigue
  - weight loss >>> 2 kilograms

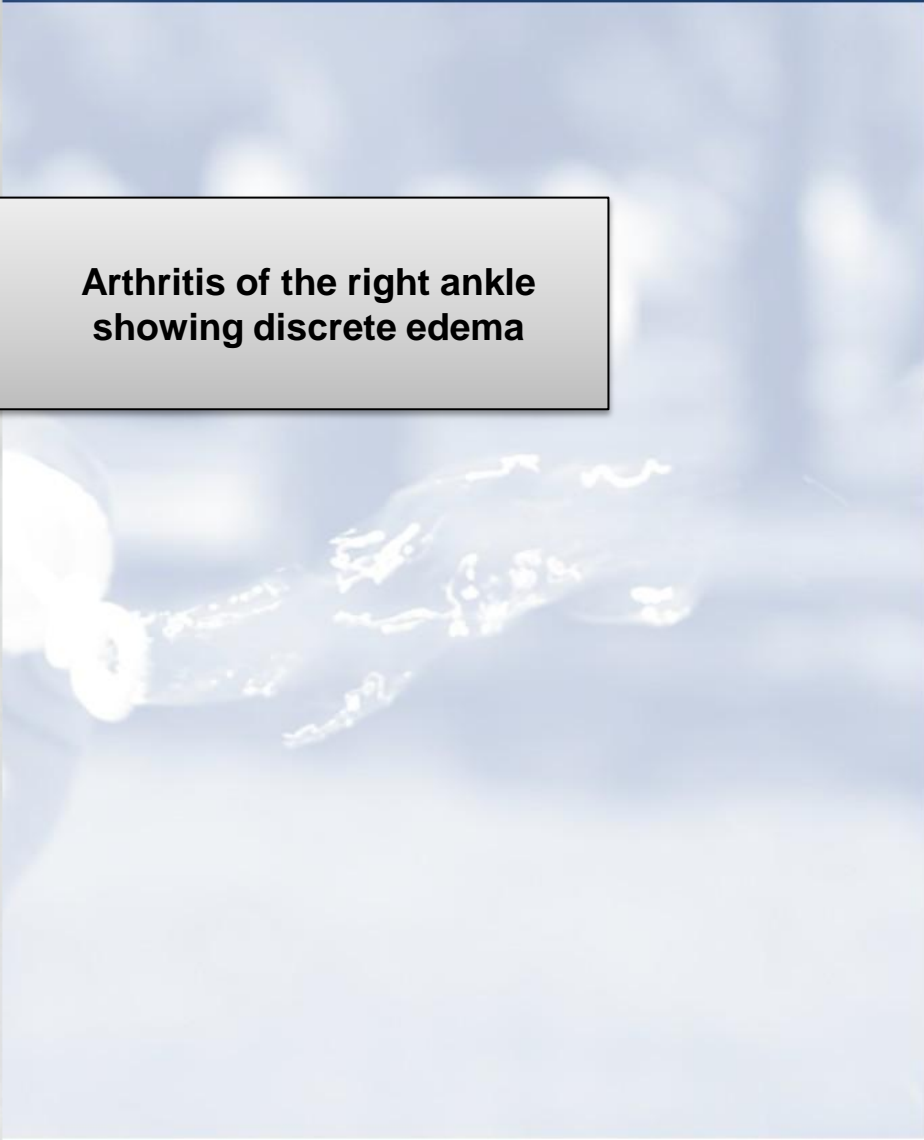


## CASE REPORT

- **At Physical Examination:**
  - Arthritis of left elbow and right ankle
    - *severe pain*
    - *amplitude restriction of movement*
    - *minimum edema*
  - Cervical and occipital lymphadenopathy
    - mobile, elastic, = 1 cm
  - No signs of consumption



**Arthritis of the right ankle  
showing discrete edema**







## CASE REPORT

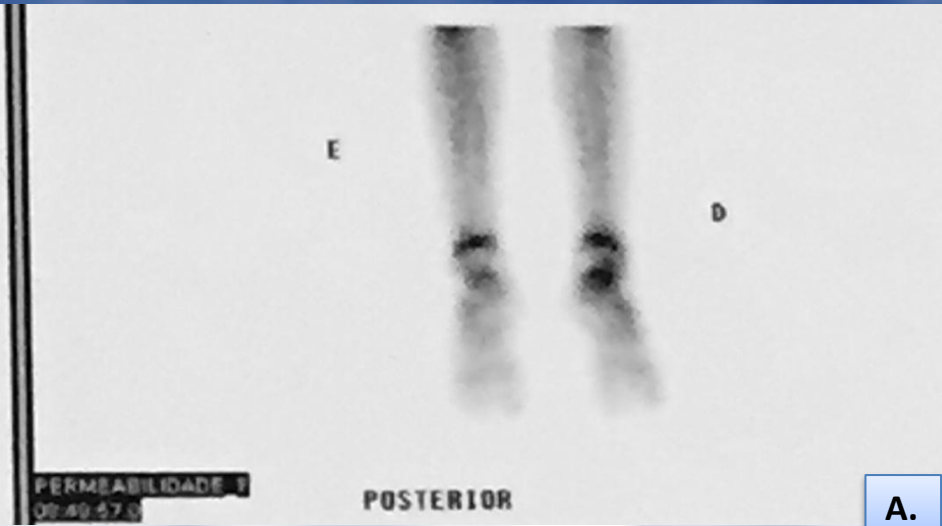
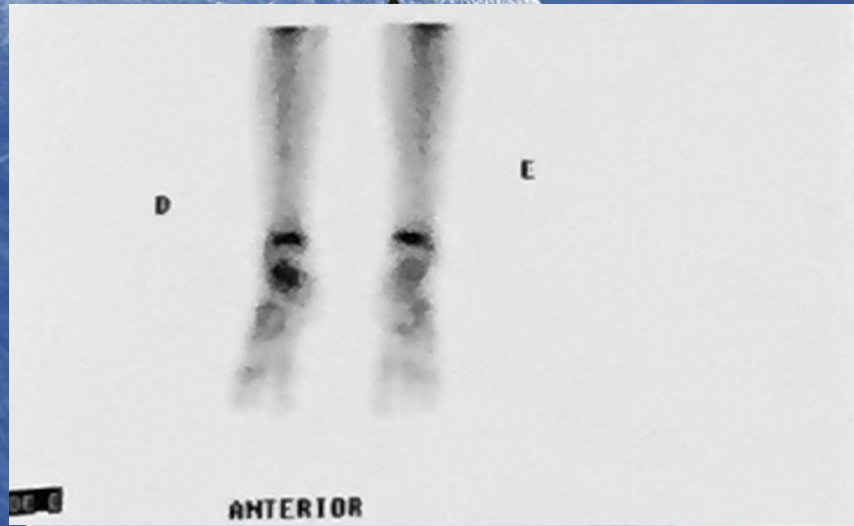
- Further Laboratory Studies:

- *Hb* 12.4 g/dL, *Ht* 38.6, WBC 17.9, (n 52% bf 3% l 39% m 7% e 2%), **Platelet 768.000**
- **ERS** 4mm
- *CRP* 15,61 mg/dL
- *LDH* 172 U/L
- *UA* 3,7mg/dL
- *25-OH Vit D* 34.1ng/mL
- *Ferritin* 19.6ng/m
- *AP* 161U/L

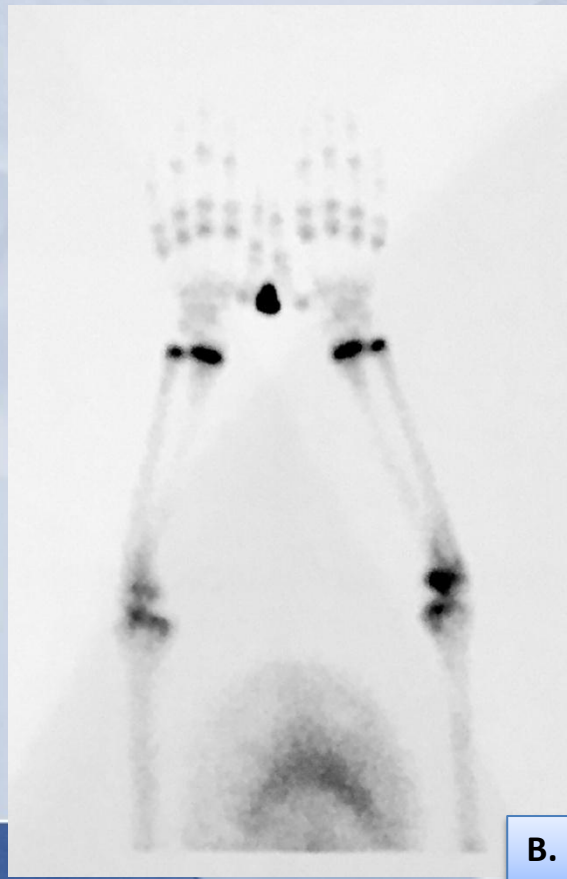


## CASE REPORT

- **Further Imaging Studies:**
- **Cervical US:** bilateral lymphadenomegaly
  - Bigger diameter lymph node, right cervical chain >>> 1,0 x 0,5 centimetres
- **Abdominal US:** normal
- **Skeleton X-Ray:** normal
- **Bone Scintigraphy:** hypercapitation on the left elbow and right ankle



A.



B.

**Bone Scintigraphy**  
A. Hypercapitacion >> right ankle  
B. Hypercapitacion >> left elbow



## CASE REPORT

- **Additional Investigation:**
- **Bone Marrow Aspirate:**
  - Intact and stimulated erythro-, granulo-, and thrombopoiesis.
- **Biopsies:** Cervical Lymph Node, Synovial Membrane (Right Ankle)
  - atypical lymphoproliferative process
  - Immunohistochemical - *acute lymphoblastic leukemia*



## CASE REPORT

- **Additional Investigation:**
- Extension of the immunohistochemical panel >>> inconclusive
- A **new bone marrow biopsy** was conducted within 20 days
  - *Patient remained without steroids during the period!*
- Positive for ALL (> 59% lymphoblast of the total cell count)



# CASE REPORT

- **Treatment and Follow-Up:**
- **Classification:** Previous use of corticosteroids: **high-risk group** (*GBTLI 2009 protocol*)
- **Treatment:** Intrathecal Methotrexate and Vincristine
- **Presente Day:** *late maintenance phase of treatment, very positive response to chemotherapy*



## CASE REPORT

- Oligoarthritis
- Important pain and restriction of movement
- Night awakenings
- Little edema
- Constitutional symptoms
- No response to anti-inflammatory drugs

**>>>>> MALIGNANT ARTHRITIS <<<<<<**



# Thank You!

“Not all of us can do great things, but we can do small things with great love.”

(Mother Teresa of Calcuta)