



Case presentation

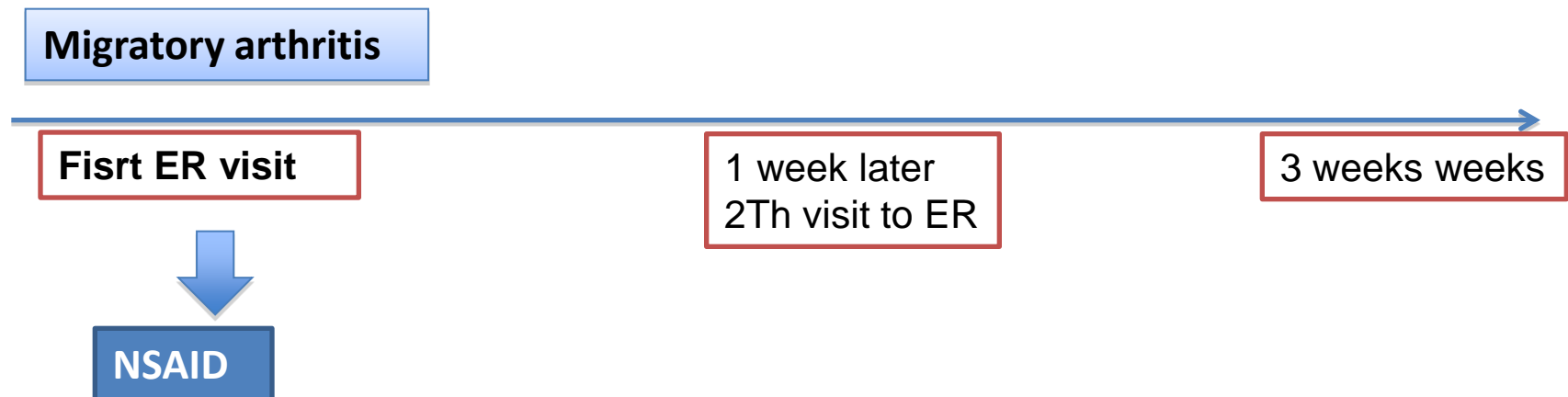
Rheumatic Fever: a Forgotten Diagnosis

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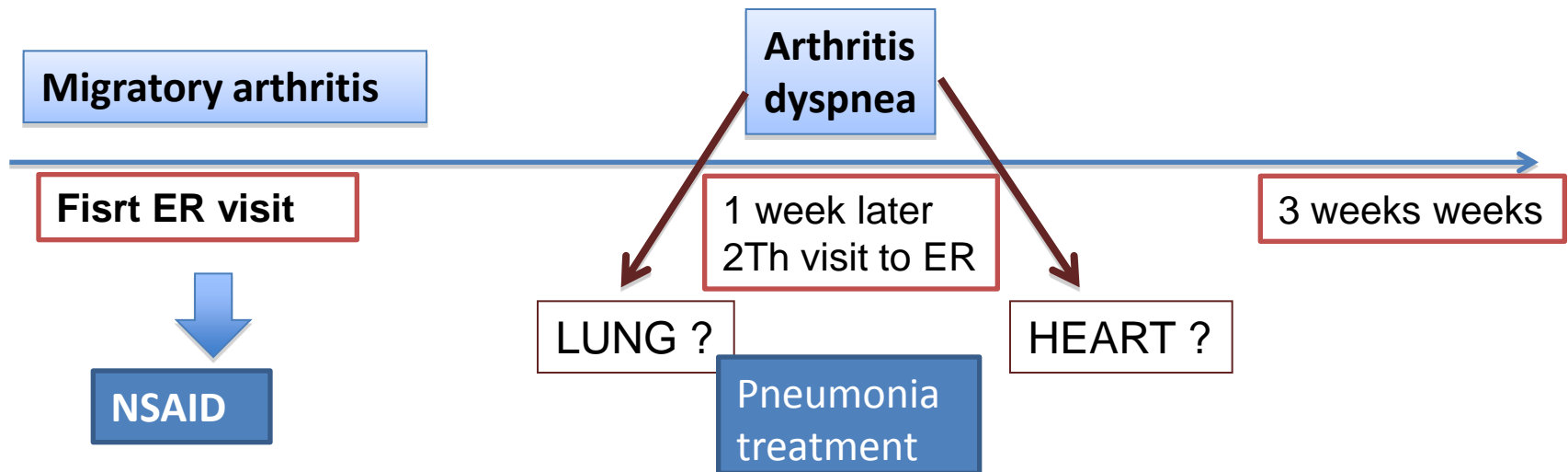
Case repost: initial clinical features

- ✓ 9-year-old girl previously health
- ✓ onset with **migratory arthritis** in her ankles, knees, toes and elbows 3 weeks ago - **First visit to the ER**
- ✓ **No other complains**
- ✓ NSAID was prescribed for 5 days with improvement of the symptoms



2th visit ER

- ✓ 2 weeks ago the arthritis had returned
- ✓ associated with fever and dyspnea
- ✓ treated for pneumonia and discharged in 24 hours with partial improvement of the symptoms



3th visit ER

- ✓ After one week the arthritis returned again and the dyspnea worsened
- ✓ now associated with retrosternal pain
- ✓ At this time she was referred to our Hospital

- ✓ The initial physical examination:
 - ✓ tachydyspneic, tachycardic, jugular stasis,
 - ✓ **mitral murmur of 3+/6+**
 - ✓ very painful swollen knees, ankles, wrists and elbows.

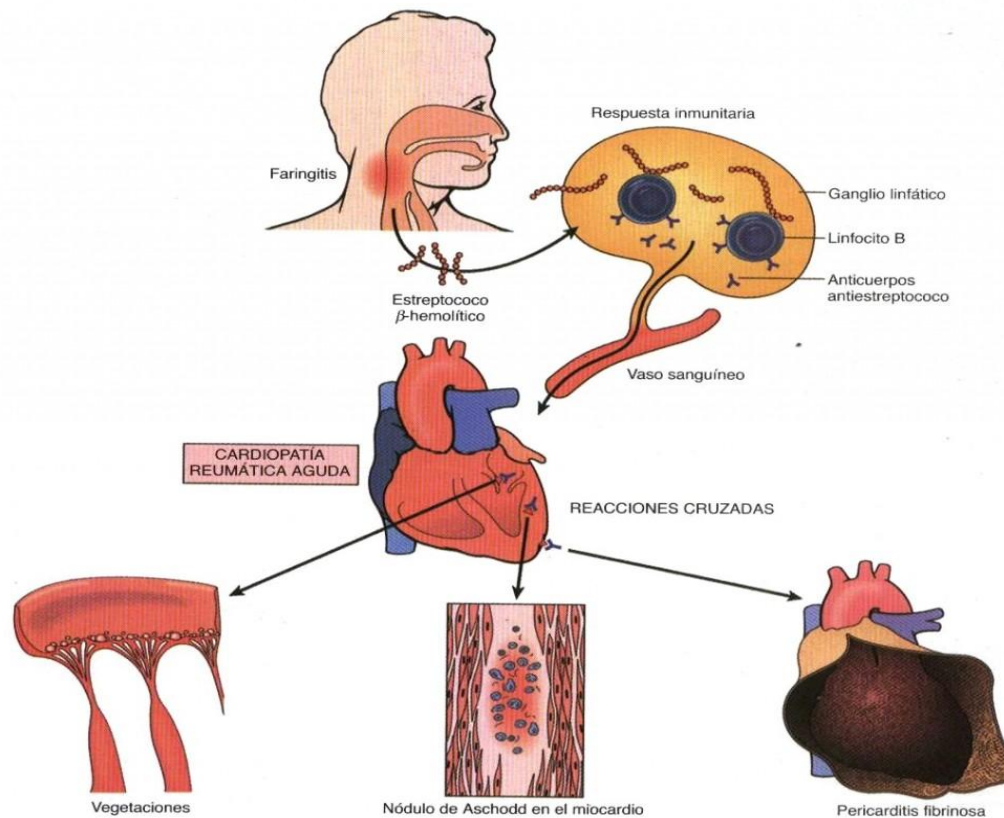
Summary of the disease course

Migratory arthritis

ONSET



NSAID



✓ What would be the hypothesis in each visit to the ER?

Initial Laboratory findings

- ✓ CMV, toxoplasmosis, parvovirus and Epstein-Barr serology's negative
- ✓ ANA and RF were negative
- ✓ Urinalysis: normal
- ✓ CBC: normal
- ✓ high ESR = 48 mm/h

Image reveal

- ✓ **Echocardiogram:**
 - ✓ **Thickening of mitral and aortic valve**
 - ✓ **Pericarditis**
 - ✓ **moderate-severe mitral regurgitation**
moderate tricuspid regurgitation
 - ✓ **mild aortic insufficiency**

Questions for the audience:

- ✓ **What should be the approach to acute arthritis, to avoid this sequence of visits to ER and unnecessary hospitalizations?**
- ✓ **Rheumatic Fever: a Forgotten Diagnosis**
- ✓ **which laboratory test is missing?**
- ✓ **Should echocardiogram abnormalities be included as major criteria?**

Take home message!!!



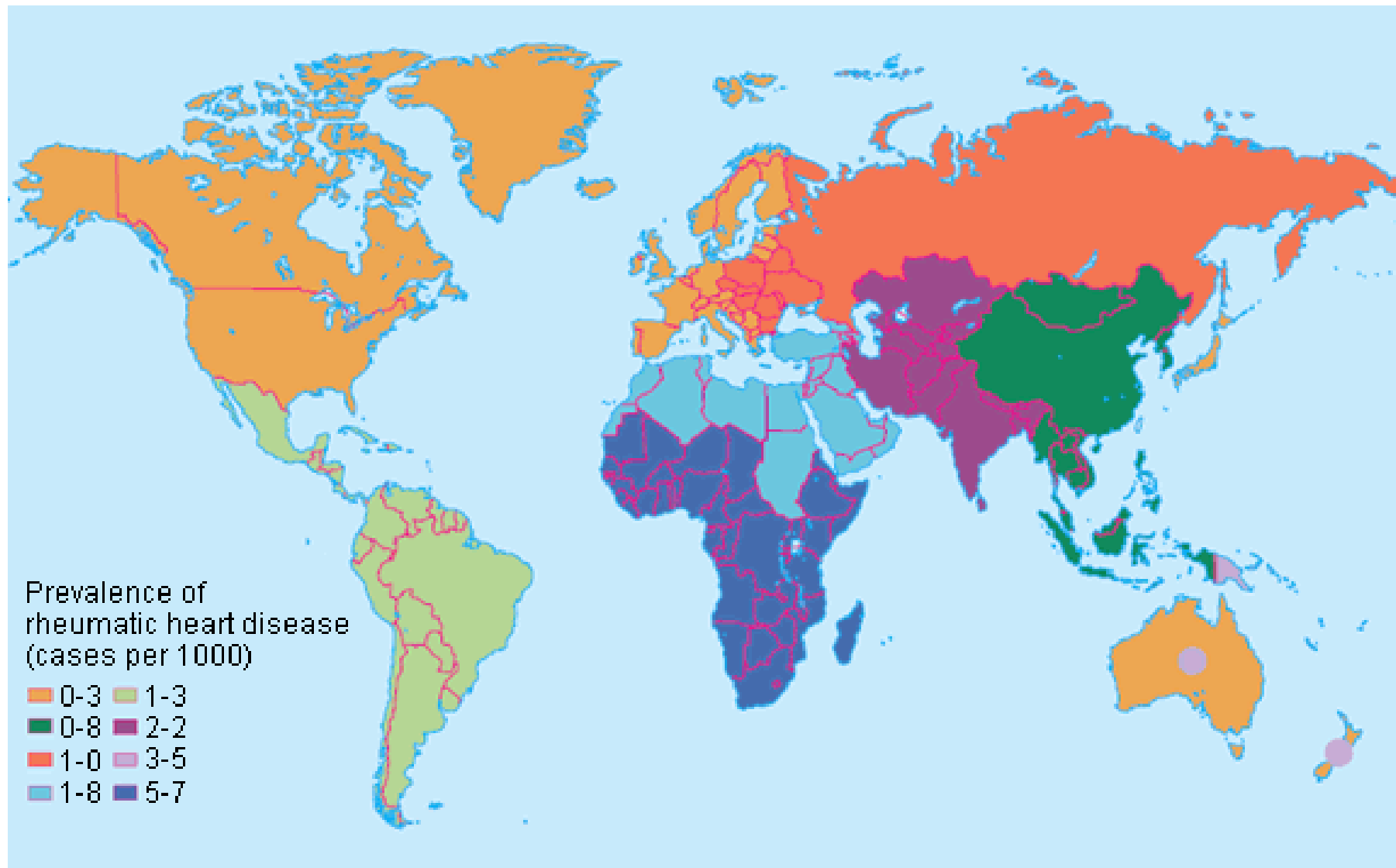
1^o Episode

FATE

More episodes

Disability

Global prevalence of rheumatic heart disease in children ages 5 to 14 years



Last Update in the Jones criteria

Circulation

JOURNAL OF THE AMERICAN HEART ASSOCIATION

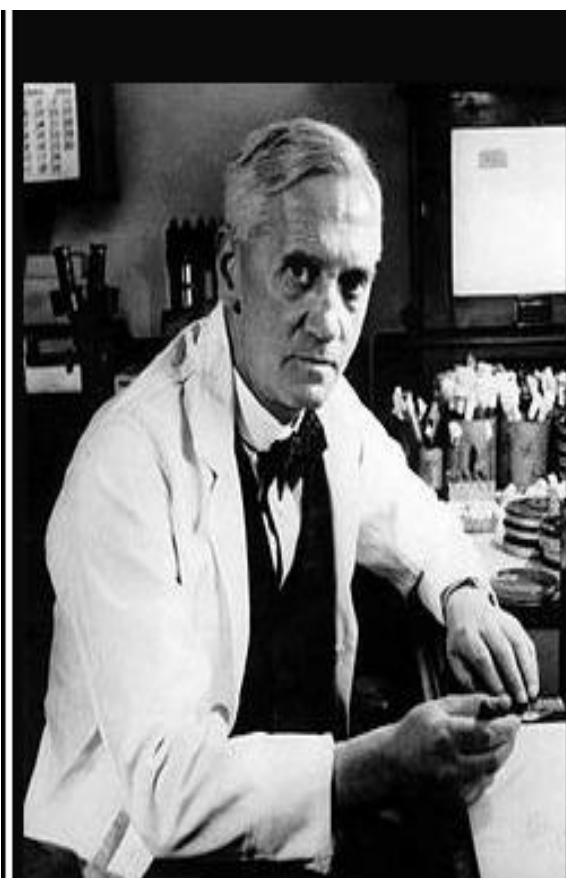


Revision of the Jones Criteria for the Diagnosis of Acute Rheumatic Fever in the Era of Doppler Echocardiography: A Scientific Statement From the American Heart Association
Michael H. Gewitz, Robert S. Baltimore, Lloyd Y. Tani, Craig A. Sable, Stanford T. Shulman, Jonathan Carapetis, Bo Remenyi, Kathryn A. Taubert, Ann F. Bolger, Lee Beerman, Bongani M. Mayosi, Andrea Beaton, Natesa G. Pandian and Edward L. Kaplan
on behalf of the American Heart Association Committee on Rheumatic Fever, Endocarditis, and Kawasaki Disease of the Council on Cardiovascular Disease in the Young

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THANK YOU



One sometimes finds what one is not looking for.

(Alexander Fleming)

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