



POSTER PRESENTATION

Open Access

Choosing the right treatment for patients with a severe course of chronic non-bacterial osteomyelitis (CNO) - pamidronate or TNF- α blockade?

H Morbach^{1*}, A Schnabel², N Bruck², A Holl-Wieden¹, H Girschick³, C Hedrich²

From 8th International Congress of Familial Mediterranean Fever and Systemic Autoinflammatory Diseases
Dresden, Germany. 30 September - 3 October 2015

Chronic non-bacterial osteomyelitis (CNO) is an inflammatory, non-infectious disorder of the skeletal system with unknown aetiology. Therapeutic options are NSAIDs, steroids and DMARDs (MTX or sulfasalazine). However, a considerable number of patients have a severe disease course and bisphosphonates or TNF- α blockade might be a therapeutic option.

We performed a multicentre, retrospective chart review of all patients diagnosed with CNO in two paediatric rheumatology centres in the last 10 years and treated with pamidronate and/or TNF- α blockade. 17 patients were treated with pamidronate and/or TNF- α blockade. Out of these 17 patients, 10 were treated with pamidronate alone and showed clinical improvement. Three of the 17 patients were initially treated with TNF- α blockade; two had a positive response, one patient stopped therapy due to minor side effects. Two or one patients were initially treated with pamidronate or TNF- α blockade, respectively, but did not show clinical improvement. Interestingly, switching from pamidronate to TNF- α blockade or vice versa was associated with clinical improvement in these patients. One patient was treated with a combination therapy using pamidronate and TNF- α blockade and showed a good clinical response.

Pamidronate and TNF- α blockade showed a good response in therapy refractory CNO patients. Severe adverse effects were not observed. However, some patients seem to benefit from one of the two therapeutic options in particular. Future studies are needed aiming to identify clinical and/or radiological parameters that

might guide the decision to the appropriate treatment in an individual patient.

Authors' details

¹University Childrens Hospital, Pediatric Rheumatology, Würzburg, Germany.

²University Childrens Hospital, Pediatric Rheumatology, Dresden, Germany.

³Vivantes Hospital im Friedrichshain, Childrens Hospital, Berlin, Germany.

Published: 28 September 2015

doi:10.1186/1546-0096-13-S1-P190

Cite this article as: Morbach et al.: Choosing the right treatment for patients with a severe course of chronic non-bacterial osteomyelitis (CNO) - pamidronate or TNF- α blockade? *Pediatric Rheumatology* 2015 13(Suppl 1):P190.

**Submit your next manuscript to BioMed Central
and take full advantage of:**

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at
www.biomedcentral.com/submit



¹University Childrens Hospital, Pediatric Rheumatology, Würzburg, Germany
Full list of author information is available at the end of the article