

POSTER PRESENTATION

Open Access

A novel therapeutic approach for macrophage activation syndrome due to SoJIA

Nuray Aktay Ayaz^{1*}, Esra Şevketoğlu², Sait Serdar Oral¹, Tuğba Kontbay¹, Deniz Aybar², Sami Hatipoğlu², Gönül Aydoğan¹

From 18th Pediatric Rheumatology European Society (PReS) Congress
Bruges, Belgium. 14-18 September 2011

Case

A 12 year-old boy who had been diagnosed as juvenile idiopathic arthritis (JIA) nine years ago, had attended to our hospital with the complaints of high fever, arthralgia and abdominal pain. He was febrile with salmon colored maculopapular rash all over the body. He was evaluated for infections and malignancy. He was diagnosed as systemic onset JIA (SoJIA). Pulse steroid therapy was started. He was fine at the second day of pulse therapy, at the 3rd day his rash recurred and he became febrile all day long. We detected pancytopenia, low ESR, hyperferritinemia, high D-dimer, low fibrinogen and hypertriglyceridemia. His pulse was prolonged to 5 days and cyclosporin (5 mg/kg) was commenced with the diagnosis of macrophage activation syndrome. He became worse clinically and his ferritin levels continued to rise. Intravenous immunoglobulin (2 gr/day) was added but he was resistant. Hemophagocytic lymphohistiocytosis protocol was started. His ferritin was elevated until 135.000 ng/ml. Etanercept treatment (0.4 mg/kg twice a week) was introduced. With renewal of the laboratory findings we decided to start hemofiltration and plasmapheresis in order to decrease the cytokine overload. He was taken under continuous hemofiltration and plasmapheresis. After 22 days in the PICU his ferritin levels decreased to 1500 ng/ml. He had arthralgias and elevation of acute phase response once more, this picture was attributed to activation of SoJIA and metotrexate therapy was started. We presented our very resistant case to point out the success of a novel therapeutic approach that is plasmapheresis and hemofiltration.

Author details

¹SB Bakırköy Doğumevi Kadın Doğum ve Çocuk Hastalıkları Eğitim ve Araştırma Hastanesi. ²SB Bakırköy Dr Sadi Konuk Eğitim ve Araştırma Hastanesi.

Published: 14 September 2011

doi:10.1186/1546-0096-9-S1-P104

Cite this article as: Ayaz et al.: A novel therapeutic approach for macrophage activation syndrome due to SoJIA. *Pediatric Rheumatology* 2011 **9**(Suppl 1):P104.

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



¹SB Bakırköy Doğumevi Kadın Doğum ve Çocuk Hastalıkları Eğitim ve Araştırma Hastanesi
Full list of author information is available at the end of the article