



POSTER PRESENTATION

Open Access

Clinical characteristics, management and outcomes in patients with juvenile dermatomyositis requiring admission in pediatric intensive care unit

Alix Besancon^{1*}, Cyril Gitiaux², Karine Brochard³, Nicole Brousse⁴, Pierre Quartier¹, Olivier Goulet⁵, Remi Salomon⁶, Laurent Dupic⁷, Christine Bodemer⁸, Brigitte Bader-Meunier¹

From 21st European Pediatric Rheumatology (PReS) Congress
Belgrade, Serbia. 17-21 September 2014

Introduction

Juvenile dermatomyositis (JDM) are potentially life-threatening.

Objectives

We report 11 cases of severe JDM admitted in intensive care unit (ICU) to determine their early severity signs and outcomes.

Methods

We performed a retrospective study of cases of JDM admitted in ICU in 2 pediatric rheumatology centers (Paris, Toulouse) from 2005 to 2013, and compared them to the JDM patients who did not require ICU.

Results

11/116 DMJ (9.3%) (8 girls and 3 boys, median age at diagnosis : 9.0 ± 3.1 years) were admitted in ICU for digestive involvement (2 with digestive perforation after pulse corticosteroids) (4 patients), bradycardia (1 patient), cardiac arrest (1 patient), hypoxemic pneumonia (1 patient), PRES syndrome due to cyclosporine (1 patient), thrombotic microangiopathy (TMA) (2 patients) and anaphylactic shock due to Rituximab (1 patient). The incidence of some clinical and biological manifestations differed from severe patients to patients with mild JDM: hyponatremia (9), hypoalbuminemia (9), generalized edema (6), anemia (hemoglobin value < 8 g/dL) (8), abdominal pain (7),

thrombocytopenia (platelet count : $100-150 \times 10^9/L$) (7). The patients were treated by corticosteroids (11, comprising 5 with pulse), intravenous immunoglobulins (7), plasmapheresis (7), Rituximab (4) and cyclophosphamide (2). One patient died in ICU from pneumocystosis ; 5 are currently in complete remission and 5 in partial remission with a mean follow-up duration of 4,7 years.

Conclusion

Generalized edema, digestive involvement (including abdominal pain), thrombocytopenia (with TMA), hyponatremia and hypoalbuminemia seem to be early warning signs of severe DMJ and should be identify to improve prognosis. Our study suggests that severe DMJ should early benefit from plasmapheresis \pm Rituximab, whereas pulse corticosteroids might contribute to digestive perforation in patients presenting with digestive involvement.

Disclosure of interest

None declared.

Authors' details

¹Paediatric Rheumatology, Necker -enfants Malades Hospital, Paris, France.

²Paediatric Neurology, Necker -enfants Malades Hospital, Paris, France.

³Paediatric Rheumatology, Hopital des enfants, Toulouse, France.

⁴Anatomopathology, Necker -enfants Malades Hospital, Paris, France.

⁵Paediatric gastro-enterology, Necker -enfants Malades Hospital, Paris, France.

⁶Pediatric Nephrology, Necker -enfants Malades Hospital, Paris, France.

⁷Paediatric Reanimation, Necker -enfants Malades Hospital, Paris, France.

⁸Dermatology, Necker -enfants Malades Hospital, Paris, France.

¹Paediatric Rheumatology, Necker -enfants Malades Hospital, Paris, France
Full list of author information is available at the end of the article

Published: 17 September 2014

doi:10.1186/1546-0096-12-S1-P277

Cite this article as: Besancon *et al.*: Clinical characteristics, management and outcomes in patients with juvenile dermatomyositis requiring admission in pediatric intensive care unit. *Pediatric Rheumatology* 2014 12(Suppl 1):P277.

**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

