



POSTER PRESENTATION

Open Access

Long term functional outcome and quality of life of patients with refractory juvenile idiopathic arthritis treated with etanercept: results of the Dutch arthritis and biologicals in children register

Janneke Anink^{1*}, Femke HM Prince¹, Maryanne Dijkstra¹, Marieke H Otten¹, Marinka Twilt¹, Rebecca ten Cate², Simone L Gorter³, Yvonne Koopman-Keemink⁴, Marion AJ van Rossum⁵, Esther PA Hoppenreijts⁶, Lisette WA van Suijlekom-Smit¹

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

Introduction

Juvenile idiopathic arthritis patients refractory to methotrexate are eligible for treatment with biologic agents. A longitudinal sub-analysis (n=53) of the Dutch Arthritis and Biologicals in Children register previously showed that disability and health related quality of life (HRQoL) improved shortly after treatment with etanercept.

Objectives

To investigate long term functional outcome, HRQoL and treatment changes in the same patients, who started etanercept >5 years ago.

Methods

Patients were traced and questioned on education and employment. Data on recent disease status, comorbidities and structural damage were retrieved. Disability was assessed by (Child) Health Assessment Questionnaire ((C)HAQ), HRQoL was measured by Child Health Questionnaire, Short Form 36 and Health Utilities Index Mark 3. Linear mixed models were used to analyze changes over time.

Results

43 patients (81% response) started etanercept median 8.5 years (IQR: 7.7-10.3) ago. Median age was 22 years (IQR: 18-24). 42% had a (C)HAQ of 0.00. HRQoL was

similar to HRQoL shortly after start of etanercept, except for the domains bodily pain and general health perception, which deteriorated to levels comparable to those at start of etanercept. VAS pain also worsened (median 12 (IQR:2-43)), however pain indicated by VAS remained lower than at start of etanercept. The unemployment rate (12%) was comparable to the general population; educational level was higher (77% of patients >17 years had achieved at least upper secondary education). 40% of patients switched to other biologic agents, 40% were still using etanercept and 20% were off anti-rheumatic treatment. 14% had had joint surgery. There were no reports of malignancies.

Conclusion

The improvement in HRQoL after start of etanercept was sustained after 8.5 years. Disability was low. On many aspects of daily life, patients functioned comparably to or better than the general population. The need for surgery for 14% of patients stresses the importance of early treatment of JIA. Chronic pain - also when the disease is inactive - remains an important issue that should not be overlooked.

Disclosure of interest

J. Anink: None declared., F. H. Prince: None declared., M. Dijkstra: None declared., M. H. Otten: None declared., M. Twilt: None declared., R. ten Cate Grant / Research Support from: Pfizer (outside submitted work), Consultant for: Pfizer, S. L. Gorter: None declared.,

¹Paediatric Rheumatology, Erasmus MC Sophia Children's Hospital, Rotterdam, Netherlands

Full list of author information is available at the end of the article

Y. Koopman-Keemink: None declared., M. A. van Rossum: None declared., E. P. Hoppenreijns: None declared., L. W. van Suijlekom-Smit Grant / Research Support from: Dutch Board of Health Insurances, Pfizer, AbbVie, Consultant for: Pfizer, Novartis, Roche Bristol-Meyers Squibb.

Authors' details

¹Paediatric Rheumatology, Erasmus MC Sophia Children's Hospital, Rotterdam, Netherlands. ²Paediatric Rheumatology, LUMC, Leiden, Netherlands. ³Rheumatology, MUMC, Maastricht, Netherlands. ⁴Paediatric Rheumatology, Hagaziekenhuis Juliana Children's Hospital, The Hague, Netherlands. ⁵Paediatric Rheumatology, Emma Children's Hospital AMC and Reade, Amsterdam, Netherlands. ⁶Paediatric Rheumatology, Radboud MC and St. Maartenskliniek, Nijmegen, Netherlands.

Published: 17 September 2014

doi:10.1186/1546-0096-12-S1-P28

Cite this article as: Anink *et al.*: Long term functional outcome and quality of life of patients with refractory juvenile idiopathic arthritis treated with etanercept: results of the Dutch arthritis and biologicals in children register. *Pediatric Rheumatology* 2014 **12**(Suppl 1):P28.

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

