

associated with oligoarticular form). 38 were treated

with TNF antagonist (29.4% of oligoarticular, 42.1% of

polyarticular and 100% of systemic forms). Genotype

CC of PTPN22 seems to be more frequent in oligoarti-

cular form, but this association is not significant (p=0.12). However, in ANA-positive patients, this asso-

ciation is significant with oligoarticular form, compared

to polyarticular JIA (p<0.05). In oligoarticular forms,

genotype AA of TRAF1C5 seems to be associated with

the risk of uveitis, but this association is not significant.

We did not find association between those SNP and other clinical subtype, disease severity or age of

POSTER PRESENTATION

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Genetic markers in clinical subtypes of juvenile idiopathic arthritis

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Introduction

Juvenile idiopathic arthritis (JIA) is the most common children rheumatic disease. This term includes different clinical subtypes that do not have the same presentation, prognosis and therapeutic response. Therefore some studies review this classification, and proposed other criteria as antinuclear antibodies (ANA), age of beginning or uveitis. Our objective was to look for an association between different clinical subtypes of JIA and some single nucleotide polymorphism (SNP), which have already been identify in JIA and other auto-immune diseases.

Method

We performed a retrospective, monocentric study. Children were classified according to the International League of Associations for Rheumatology (ILAR) classification. Polyarticular and systemic forms, and patients who required biologics were defined as severe. DNA from patients was extracted from a blood sample, and was placed on a FTA elute card. Four SNP in four genes were analysed (*TGF-B* codon 25 rs1800471, *TRAF-1 C5* rs10818488, *STAT 4* rs7574865, et *PTPN22* rs2476601). A Fisher test was performed to analyze the association between those SNP and the different clinical sub types of JIA.

Results

101 children with JIA were included. Oligoarticular form was the most frequent (68 patients, mean age 4.87 years old (YO)). Polyarticular (FR + and FR -) and enthesitis related arthritis (ERA) forms were less frequent (mean age 5.16 and 11 YO respectively). 18 children developed an uveitis, especially when AAN are positive (14

Conclusion

We could not find a significant association between those genetic markers and the different clinical subtype of JIA, but a trend for an association between oligoarticular form and genotype CC of this SNP of *PTPN22*. We are going to try to confirm this association including more children in this study.

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