



POSTER PRESENTATION

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JIA affected sibling pairs present high correlation for ANA and ILAR category

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Aims

- 1) To investigate the clinical phenotypes and demographic characteristics of affected sibling pairs (ASPs) with juvenile idiopathic arthritis (JIA)
- 2) To provide an international resource of JIA DNA samples and a base of knowledge from which all genes contributing to the pathogenesis of JIA can be identified.

Methods

This is a cross-sectional multicentric study in which all paediatric rheumatology centres belonging to the

PRINTO network were asked to participate. PRINTO asked to provide demographic and clinical characteristics of the ASPs through electronic format and to collect DNA samples of JIA familiar cases, including all first degree relatives, deriving from the different centres.

Results

Table 1. Demographic, clinical features and concordance between the sibs (2 or more within the same family) of the 106 individual affected sibpairs with JIA

Conclusion

Preliminary results confirm the findings of earlier studies showing familial aggregation of clinical features among ASPs. In our study we observed high concordance of the presence of antinuclear antibodies (ANA), providing evidence for a genetic background in this disease. The DNA samples collected will allow to develop future studies on JIA.

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Table 1

	N (%)	Mean (SD)	Median	Min	Max	Conc.
Male	25 (24)					0.24
Female	81 (76)					0.79
Onset age –years		6.6 (4.4)	6.2	0.5	16.3	
JIA category						0.79
Systemic arthritis	0 (0)					
Oligoarthritis persistent	61					0.85
Oligoarthritis extended	(57.6)					0.5
Polyarthritis RF negative	18 (17)					0.9
Polyarthritis RF positive	21					1
Psoriatic arthritis	(19.8)					0.67
Enthesitis related arthritis	2 (1.9)					
Other	3 (2.8)					0
Other	0 (0)					
Other	1 (0.9)					
Presence of ANA	56 (56)					0.78
Absence of ANA	44 (44)					0.68
Presence of iritis	11 (10)					0.36
Absence of iritis	86 (81)					0.9

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