

Supplementary Table 1. International League of Associations for Rheumatology (ILAR) classification of JIA

Subtype	Inclusion	Exclusion	Comments
Systemic	≥ 1 joint + ≥ 2 weeks of fever + $\geq 1/4$ of evanescent rash, lymphadenopathy, organomegaly, or serositis	a. Psoriasis or history b. HLA-B27 (+) in a boy ≥ 6 yr c. AS/ERA/IBD/RS/AU or history d. RF (+) ≥ 2 occasions	F=M; 1-5 yr + any age 10-20% of JIA cases (Higher in Asia/Latin America) MAS or lung disease Adult-onset Still's disease
Oligoarticular	1-4 joints in first 6 months i) Persistent type: ≤ 4 joints during disease course ii) Extended type: > 4 joints after 6 months	a. Psoriasis or history b. HLA-B27 (+) in a boy ≥ 6 yr c. AS/ERA/IBD/RS/AU or history d. RF (+) ≥ 2 occasions e. Systemic JIA	F>>>M; 2-4 yr 40-50% of JIA cases (Higher in Europe) Uveitis (~30%) if ANA (+) No adult analog
Polyarticular, RF (-)	≥ 5 joints in first 6 months	a. Psoriasis or history b. HLA-B27 (+) in a boy ≥ 6 yr c. AS/ERA/IBD/RS/AU or history d. RF (+) ≥ 2 occasions e. Systemic JIA	F>>M; 2-4 yr + 6-12 yr 15-20% of JIA cases Uveitis (15-20%), joint damage, or TMJ disease Seronegative RA
Polyarticular, RF (+)	≥ 5 joints in first 6 months + RF (+) ≥ 2 occasions	a. Psoriasis or history b. HLA-B27 (+) in a boy ≥ 6 yr c. AS/ERA/IBD/RS/AU or history e. Systemic JIA	F>>M; 9-11 yr 5% of JIA cases Uveitis (~5%), joint damage, TMJ disease, or lung disease Seropositive RA
Psoriatic	≥ 1 joint + psoriasis OR ≥ 1 joint + $\geq 2/3$ of dactylitis nail pitting or psoriasis history	b. HLA-B27 (+) in a boy ≥ 6 yr c. AS/ERA/IBD/RS/AU or history d. RF (+) ≥ 2 occasions e. Systemic JIA	F>>M; 2-4 yr + 9-11 yr 2-5% of JIA cases Uveitis (15-20%), joint damage, or spondylitis Psoriatic arthritis
ERA	Arthritis + enthesitis OR arthritis or enthesitis + $\geq 2/5$ of SI joint (+) or LS pain, arthritis in a boy ≥ 6 yr, HLA-B27 (+), AU, or history	a. Psoriasis or history d. RF (+) ≥ 2 occasions e. Systemic JIA	F<<M; 10-13 yr 9-19% of JIA cases Uveitis (3-7%), joint damage, spondylitis, or IBD Spondyloarthritis, including AS
Undifferentiated	Arthritis that fulfills criteria in no category OR in ≥ 2 categories		~20% of JIA cases No adult analog

JIA: juvenile idiopathic arthritis, M: male, F: female, yr: years, HLA: human leukocyte antigen, AS: ankylosing spondylitis, ERA: enthesitis-related arthritis, IBD: inflammatory bowel disease, RS: Reiter's syndrome, AU: anterior uveitis, RF: rheumatoid factor, MAS: macrophage activation syndrome, ANA: antinuclear antibody, TMJ: temporomandibular joint, RA: rheumatoid arthritis, SI: sacroiliac, LS: lumbosacral.