

Rheumatic manifestations of inflammatory bowel disease and psoriasis

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inflammatory bowel disease

- Chronic inflammation disorder
- Unknown etiology
- Two different diseases: **Crohn Disease**, **Ulcerative Colitis**
- Incidence 9.5-11.4/100,000 (CD 0.2-8.5 UC 0.5-4.3)

inflammatory bowel disease

- Arthritis:
 - Most common extraintestinal manifestation
 - Two patterns: **Peripheral arthritis**, Sacroiliac joints arthritis
 - PA is the most frequent pattern (ankles-knees)
 - IBD and arthropathy 7-21%
 - No differences in onset age and sex distribution

inflammatory bowel disease

	Arthritis %	Artralgia %
IBD (onset)	7-12	7.0
CD	15.5	22.0
UC	9.0	32.0

inflammatory bowel disease

- IBD and musculoskeletal manifestations:
- Myalgia
- Skeletal pain
- Hypertrophic osteoarthropathy

inflammatory bowel disease

- Sacroiliac joints arthritis:
 - 30x more frequent IBD+ vs IBD-
 - HLA-B27+
 - No relation to GI activity
- **Pain, stiffness in the lower back, buttocks or thighs**

inflammatory bowel disease

- **Acute peripheral arthritis:**
- **1-2 weeks episodes**
- **Recurrent**
- **Longer if GI disease is active**

inflammatory bowel disease

- **Eritema nodosum**
- **Pyoderma gangrenosum**
- **Vasculitis**
- **Takayazu's arteritis**

inflammatory bowel disease

- **Uveitis:**
- **Bilateral, posterior, chronic**
- **+Fq catarata, glaucoma, cystoid macular edema**
- **Episcleritis, scleritis**

inflammatory bowel disease

- **IBD and IL-10r defects**
- **Very early onset**
- **Symptoms within 1 year of age**
- **Without musculoskeletal symptoms**

psoriasis

- Papulosquamous skin disease
- Affect 2.0-8.5% of the global population (**Ch 1/3**)
- Represents 4% of the skin diseases (<16y)
- Children F:M= **1.48**
- Children mean age of onset: **8-11y**
- Children affected family member: **30%**

psoriasis

- Children's prevalence: 3.8%
- German children's prevalence: age 1y 0.1% / **18y 0.8%**
- **UK children's prevalence: 0-9y 0.55% / 10-19y 1.37%**
- Children's incidence: 62.7%
- Onset 10% <10y / **2% <2y**
- **20-30% arthritis+**
- Prevalence: children w psoriasis: **1-10% Arthritis**

psoriasis

- Juvenile psoriatic arthritis (JPsA):
- 2-15% children with chronic arthritis
- Age <16 years, Arthritis and Psoriasis
- Arthritis, Psoriasis, Family history, dactylitis, nail pitting
- Rheumatoid factor negative
- All JIA: 7% (range 0-11%) JPsA

Predictors

- Joint activity
- Inflammatory markers

- Age
- Gender
- BMI

- Disease duration
- Timing of diagnosis

- Genetic factors

Remission
minimal disease activity

Clinical and radiographic joint
damage

Physical dysfunction
work disability

Co-morbidities
mortality

Sequence of events
of disease-related
outcomes



psoriasis

- **Juvenile psoriatic arthritis:**
- Age of onset is bimodal
- Preschool age peak
- Second peak around 10 years of age

psoriasis

- **Juvenile psoriatic arthritis:**
 - Oligoarticular form
 - At onset: symmetrical polyarthrititis is rare
 - +freq: small joints arthritis
 - Interphalangeal joints arthritis 29%

psoriasis

- **Juvenile psoriatic arthritis:**
 - Psoriasis begins after arthritis
 - Simultaneous onset <10%
 - More frequent in girls
 - Dactylitis 49%
 - Uveitis: 15-20%
 - asymptomatic, anterior