

# **HLA-B27 Associations**

HLA-B27, human leukocyte antigen B27, is a class I surface antigen associated with seronegative arthropathies (no rheumatoid factor in serum). The diseases psoriatic arthritis, ankylosing spondylitis, inflammatory bowel disease and reactive arthritis are all associated with positive HLA-B27 status.



**PLAY PICMONIC** 

### Associations

#### **PAIR Acronym**

Pair of bombers

The acronym P-A-I-R can be used to represent the associated arthropathies of psoriatic arthritis, ankylosing spondylitis, irritable bowel disease and reactive arthritis

### **Psoriatic Arthritis**

Sorcerer King-Arthur

Psoriatic arthritis is defined as joint pain and stiffness with psoriatic involvement. The psoriasis typically shows up in a patchy asymmetric pattern. Other associations include a pencil-in-cup deformity of joints seen on x-ray and sausage fingers.

### **Ankylosing Spondylitis**

**Anchor Spine** 

Ankylosing spondylitis is characterized as chronic inflammation of the spine and sacroiliac joints. Patients complain of a stiff spine and ultimately, fusion occurs and a "bamboo spine" is seen on x-ray. Uveitis and aortic regurgitation are pathologies associated with this disease.

### **Inflammatory Bowel Disease**

Bowel-bowl in Flames

Crohn's disease and ankylosing spondylitis often involve peripheral arthritis and are associated with HLA-B27.

## **Reactive Arthritis**

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Reactive arthritis is another HLA-B27 positive arthropathy, which is characterized by the triad of conjunctivitis, urethritis and arthritis. This can be remembered by the phrase "Can't see, can't pee, can't bend my knee."