

Pediatric Anterior Uveitis

Causes

- Primarily Ocular
 - Infectious
 - post-surgical (P. Acnes)
 - herpes viruses
 - Post-traumatic iritis
 - Fuchs heterochromic iridocyclitis
 - Lens-related
 - IOL related
 - Glaucomacyclitic crisis (Posner Schlossman)
- Systemic Non-infectious Disease
 - [Juvenile Idiopathic Arthritis](#)
 - [Behçet syndrome](#)
 - [Tubulointerstitial Nephritis and Uveitis \(TINU\)](#)
 - Sarcoidosis
 - Kawasaki syndrome
 - Juvenile onset spondyloarthropathies (HLA-B27 associated)
 - Juvenile Ankylosing spondilitis
 - Reactive arthritis
 - Inflammatory Bowel disease related
 - Psoriatic arthritis
- Systemic Infectious Diseases
 - Post Infectious Autoimmune uveitis (streptococcal pharyngitis)
 - Herpes Viruses (VZV, HSV)
 - Syphilis
 - Tuberculosis
 - Lyme

Work-up for cases without an obvious cause

- Consider working up for:
 - Sarcoidosis
 - **angiotensin-converting enzyme (ACE)** and serum lysozyme levels
 - followed by chest x-ray
 - followed by Chest CT
 - Syphilis
 - Non-treponemal testing
 - **RPR** -or-
 - VDRL
 - Followed by treponemal testing
 - fluorescent treponemal antibody absorption (FTA-ABS) -or-

- Treponema pallidum particle agglutination (TPPA)
- Tuberculosis
 - **Serum QuantiFERON Gold** or PPD
- Herpes viruses
 - **HSV PCR**
 - VZV PCR
- JIA without significant arthritis- **ANA**
- TINU
 - **urinary β 2 microglobulin**
 - **BUN, Creatinine**
 - **urinalysis** (looking for proteinuria, normoglycemic glycosuria, microheaturia, sterile pyuria)
- Lyme titers in endemic areas or travel to endemic areas
 - **Lyme DNA PCR** or Lyme Disease AB Western Blot
- HLA-B27 in teenagers
- Mascarade diseases (leukemia, lymphoma)
 - **CBC**

Work up based on history and exam findings

- Arthritis
 - ANA
- Joint pain with chronic diarrhea and abdominal pain
 - HLA-B27
- Rash
 - Psoriasis
 - rash areas are red, pink, or purple, dry, itchy, and scaly
 - associated with arthritis
 - Lyme
 - erythema migrans
 - red, blue or pink circular or oval with clear center, expands over several days, may reach up to 12 inches and have a raised border
 - Travel to endemic areas, exposure to ticks
 - Borrelia burgdorferi antibodies IgG, IgM
- Fever, Weight loss, fatigue, malaise, abdominal pain
 - urinary β 2 microglobulin, BUN, Creatinine, UA. ANA, HLA-B27, CBC
- Previous Strep throat (group A strep infection suspected)
 - Antistreptolysin O titers

Masquerades of Anterior Uveitis

- Leukemia
- [Retinoblastoma](#)
- Juvenile Xanthogranuloma

References

- [AAO Pediatric Anterior Uveitis](#)

[ddx, uveitis](#)

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