

CT Children's CLASP Guideline

Joint Pain with Swelling

INTRODUCTION	Joint pain in a child or adolescent can present with or without swelling. Swelling is indicative of an inflammatory response or reaction and can be intra- or extra-articular. Joint swelling may be associated with pain, stiffness and limited range of motion and can be indicative of a structural/mechanical (orthopedic), systemic inflammatory (rheumatologic) or infectious problem. Differential Diagnosis for joint pain with swelling: ▪ Acute onset swelling <u>with</u> injury mechanism: Ligamentous, meniscal, cartilage tear or injury, joint sprain or strain (typically ankle), intra-articular fracture, patellar or joint dislocation ▪ Acute onset swelling <u>without</u> clear injury: Septic arthritis, Lyme disease, reactive arthritis/transient synovitis (post-viral/preceding illness), IgA Vasculitis [formerly known as Henoch-Schonlein Purpura (HSP)] ▪ Insidious (over weeks to months) onset swelling (without injury): – Intra-articular: Juvenile idiopathic arthritis (JIA), congenital discoid meniscus, osteochondral defect – Extra-articular: Bursitis, Osgood-Schlatter Disease, “overuse” injuries
INITIAL EVALUATION AND MANAGEMENT	INITIAL EVALUATION for JOINT PAIN WITH SWELLING: ▪ <u>Targeted History and Physical Exam:</u> – Determine if acute injury-related onset vs. insidious onset – Evaluate for intra-articular vs. extra-articular (periarticular) swelling, pain, limited ROM – Examine joints above and below the reported affected joint (for example, to differentiate reported knee pain from true hip pain such as in SCFE) ▪ <u>Useful x-rays to obtain based on affected joint as follows:</u> – Knee: AP & lateral views (for ALL patients), notch view (for ACL tears, tibial spine fracture, Osteochondritis Dissecans lesions), sunrise view (for patella dislocations) – Hip: Pelvis, AP, and frog leg lateral – Ankle: AP, lateral, and internal oblique – Elbow: AP, lateral, and internal oblique – Shoulder: AP & scapular Y, and axillary view (if suspecting dislocation) ▪ <u>Useful laboratory studies to consider:</u> – CBC, ESR, CRP, Lyme screen with reflex to Western blot – If systemic symptoms (fever, rash, weight loss, ill appearing, etc.) and concern for systemic autoimmune disease, contact Rheumatology to discuss (contact information below) **Note: Routine ANA testing is not useful in the diagnosis of arthritis and typically does not need to be included in screening laboratory studies unless systemic symptoms are present/suspicion of Lupus**

	INITIAL MANAGEMENT: ▪ RICE (Rest, Ice, Compression, Elevation) ▪ Crutches if difficulty ambulating/cannot bear weight (See Appendix A: Orthopedic DME Companies) ▪ Splint or brace for stabilization if sprain, strain, or non-displaced closed fracture ▪ NSAIDs: Ibuprofen 10 mg/kg/dose Q6 hours (max dose: 600 mg/dose; max daily dose: 2,400/day) or Naproxen 5 mg/kg/dose Q12 hours (max daily dose: 1,000 mg/day) If sprain or overuse injury suspected and x-rays are normal, referral to Physical Therapy
WHEN TO REFER	REFERRAL TO EMERGENCY DEPARTMENT: ▪ Open fracture or obvious deformity ▪ Single joint pain or swelling associated with fever (concern for septic joint) ▪ Severe symptoms (e.g. ill appearing, severely abnormal labs, and/or inability to bear weight, ambulate or move extremity) – may call One Call to discuss with on-call Rheumatologist URGENT REFERRAL TO ORTHOPEDICS (within 1 week): ▪ Acute injury with notable swelling ▪ Acute injury with persistent limping or difficulty with ambulation ▪ Closed/non-displaced fracture in splint/sling ▪ Persistent complete inability to bend a joint (“locked knee”) ROUTINE REFERRAL TO ORTHOPEDICS: ▪ Persistent (non-severe) joint pain or swelling for more than 2 weeks following injury ▪ Mechanical symptoms such as joint locking or giving out URGENT REFERRAL TO RHEUMATOLOGY (within 1-2 week): ▪ Inability to ambulate or worsening severe joint pain with swelling without noted injury ▪ Multiple joints with pain and swelling associated with fever, rash, weight loss, significant laboratory abnormalities ROUTINE REFERRAL TO RHEUMATOLOGY: ▪ Joint swelling (with or without pain) with insidious onset, more chronic in nature ▪ Persisting or recurrent episode joint swelling (with or without pain) without mechanism of injury ▪ Lyme arthritis (typically single joint swelling, Lyme screen positive and ≥5/10 IgG bands on Western blot confirmation), refer if symptoms persist after completion of 28 days of antibiotic treatment (doxycycline or amoxicillin as per treatment guidelines) OR if symptoms recur. DELAY REFERRAL (initial management by PCP per above) IF: ▪ Underlying condition identified and treated ▪ Overuse injury suspected – plan to refer to Orthopedics or Sports Medicine if no improvement after 4 weeks of initial management/physical therapy ▪ Lyme arthritis as above

	General note on where to refer: Refer to Orthopedics if there is acute joint swelling with a clear mechanism of injury. There are 2 Orthopedic divisions that can care for children with joint swelling: Orthopedics and Sports Medicine. Both divisions can see patients of all ages. Typically, Orthopedics will see children and adolescents and Sports Medicine will see older adolescents with sports-associated injuries. Refer to Rheumatology if there is joint swelling without injury, particularly if there was a slow/insidious onset of symptoms, if multiple joints are involved or if Lyme testing was positive.
HOW TO REFER	Referral to Orthopedics, Elite Sports Medicine, or Rheumatology (as noted above), Physical Therapy via CT Children's One Call Access Center Phone: 833.733.7669 Fax: 833.226.2329 For more information on how to place referrals to Connecticut Children's, click here. Information to be included with the referral: - Any pertinent lab results - Any x-rays, MRI or other radiology images (actual images preferred over report alone)
WHAT TO EXPECT	What to expect from CT Children's visit: - Focused physical examination - Additional x-rays may be performed at the visit, x-rays are available in all of our offices - MRI or other imaging may be considered and scheduled - Potential referral to Physical Therapy - Bracing or crutches may be suggested, as indicated - Anti-inflammatory or other medications may be prescribed

APPENDIX A: Orthopedic DME Companies

- [Rainbow Medical](#)
[Address:](#) 807 Wethersfield, Avenue, Hartford,
[Insurance:](#) One of the only options for Husky patients
[Other:](#) One of the better options for getting equipment same day/on a walk-in basis in the Hartford area
- [Doyle's Medical; Covers Litchfield County \(delivery as far as Farmington\)](#)
[Address:](#) 25 Coe Place, Torrington
[Insurance:](#) Accepts all insurances (Will NOT accept Husky for wheelchairs or hospital beds)
[Equipment:](#) Walker: Junior and bigger Wheelchair: 12 inch, 14 inch, 16 inch, 18 inch and bigger. They carry Hospital Beds and Hoyer Lifts
(P) 860-489-4415 (F) 860-489-8885
- [Ellsworth Medical](#)
[Address:](#) 540 Windsor Avenue, Windsor
[Insurance:](#) Medicaid and BlueCross only
[Equipment:](#) Has no Pediatric Equipment. They carry Hospital Beds (rental only/private pay)
[Contact:](#) (P) 860-298-9333 (F) 860-298-9248
- [Home Health Pavilion \(Office in Newington\); can deliver on case by case](#)
[Address:](#) 87 Danbury Road, New Milford
[Insurance:](#) Commercial/Husky
[Equipment:](#) Pediatric equipment: Walker (Toddler, Child, and Junior). Wheelchairs all sizes.
Carries Hoyer Lifts for under 100 pounds, Sleep Safe beds
[Contact:](#) (P) 860-210-1313 x6072/6075 (F) 860-354-1123
- [Medical Pharmacy; Windham county \(From Waterford to Stafford\)](#)
[Address:](#) 1213 Main Street, Willimantic
[Insurance:](#) Accepts all insurances except Aetna, Oxford, Cigna
[Equipment:](#) Has no Pediatric Equipment; Adult DME
[Contact:](#) (P) 860-423-1661
- [Lighthouse; Can deliver to home or family can pick up](#)
[Address:](#) 246 Terryville Road, Bristol
[Insurance:](#) Does not accept Medicare, Aetna, CC, Cigna
[Equipment:](#) Walkers: Junior walker in stock. Wheelchair: can order a wheelchair
[Contact:](#) (P) 860-283-6248 (F) 860-506-4380
- [Ford Pharmacy and Medical Supply; does Saturday delivery ; only delivers to Naugatuck](#) [Address:](#) 2 Church Street, Naugatuck
[Insurance:](#) Does not accept Medicare, Aetna, ConnectiCare, Cigna; not in network
[Equipment:](#) Can take up to 3-5 business days. Pediatric Walkers, Wheelchairs: Order only
[Contact:](#) (P) 203-729-2680 (F) 203-720-1626
- [DME Living Well; delivery to hospital or home; cover all of CT](#)
[Address:](#) 297 East Center Street, Manchester
[Insurance:](#) Does not accept Cigna, Aetna, ConnectiCare; not in network

Equipment: Pedi wheelchair: none in stock, Pedi Walkers: Junior rolling walker

Contact: (P) 860-674-1601 (F) 888-897-3010

- Free Equipment: Windham area

Contact: WAIM Windham Area Interfaith Ministry (P) 860-456-7270

Equipment: Call to see what they have in stock

Bariatric Equipment:

- Size Wise: delivery to home

Insurance: Does not take Blue Cross

Equipment: Bariatric Equipment: Wheelchair: 24", 34" and 26"-36"

Contact: (P) 203-284-1588, Customer Services # 1800-814-9389, Sales Representative # 203-627-6870, (F) 203-284-1787

- CHARM Medical Supply; No delivery, it is pick up mostly

Address: 141 South St, West Hartford

Insurance: Medicaid and Blue Cross

Equipment: Pedi Walkers: Can order. Pedi wheelchair: Can order; may take time 3-5 business to get in stock.

Bariatric Equipment: some wheelchairs and walkers in stock but can order any size.

Contact: (P) 860-967-3560 (F) 844-639-9655