

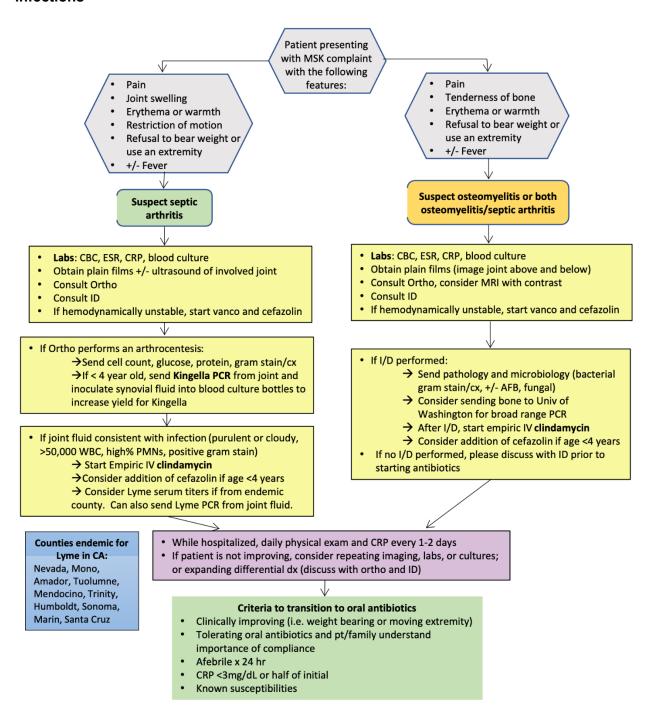
PEDIATRIC MUSCULOSKELETAL INFECTIONS GUIDELINE

Exclusion Criteria

- Age less than 6 months (may need to consider lumbar puncture, unusual organisms)
- Chronic infection or previous septic joint/osteomyelitis
- Immunocompromised
- Hardware infection
- Penetrating trauma injuries

Updated: [P&T Committee, 9/2020]

Guidelines for management of pediatric patients with suspected musculoskeletal infections



How to send special labs

- Place a miscellaneous order with the following information:
 - Kingella DNA PCR from joint fluid: Send out to Quest (Test Code 18872)
 - Lyme PCR from joint fluid: Send out to ARUP (Test Code 0055570)
 - University of Washington broad range PCR (bacterial, fungal, AFB)
 - Needs a separate fluid/bone sample to be sent directly to send out lab
 - Needs additional lab form faxed to sendout lab (734-5665) available at: http://depts.washington.edu/molmicdx/forms/order.pdf

Most commonly used antibiotics for musculoskeletal infections with typical dosing and side effects

	Cefazolin (IV)	Cephalexin (PO)	Ceftriaxone (IV)	Vancomycin (IV)	Clindamycin (IV or PO)	Ampicillin (IV)	Amoxicilli n (PO)	Bactrim (IV or PO)	Linezolid (IV)	Daptomycin (IV)
Daily amount	150 mg/kg/da y divided Q8H	100-150 mg/kg/day divided TID or QID	50-100 mg/kg/day divided Q12- 24h	Start at 15mg/kg Q6H	40mg/kg/day divided Q6H or Q8H	200 mg/kg/day divided Q6H	100 mg/kg/day divided TID	12mg/kg/ day divided BID	<12 years: 10mg/kg Q8H ≥12 years: 10mg/kg Q12h	6-10 mg/kg daily (more frequent dosing < 2mo)
Single daily max for MSK infection	2000 mg max dose	1000 mg max dose	2000 mg max dose	Adjust based on vanc trough level and renal function	900 mg max IV dose 600 mg max PO dose	2000 mg max dose	1000 mg max dose	160 mg max dose	600mg max dose	No max dose
Side Effects										
Diarrhea including C. difficile colitis	+	+	+	+	++	+	+	+	++	+
Bone marrow suppression	+	+	+	+		+	+	+	++	
Rash, including Stevens-Johnson syndrome	+	+	+	+	+	++	++	++	+	+
Nephrotoxicity	+	+		++		+	+	+		+
Elevated transaminases			+					+	+	+
Elevated CK										+
Optic neuropathy									+	
Serotonin syndrome									+	
Lactic acidosis									+	

Updated: [P&T Committee, 9/2020]_

Discharge and Outpatient Management

- General length of therapy:
 - Septic arthritis 3-4 weeks
 - Osteomyelitis 4-6 weeks
- If indicated, arrange for outpatient parenteral (IV) antimicrobial therapy (OPAT) with ID and discharge planner
- Ortho outpatient referral for follow-up in 1-2 weeks
- ID outpatient referral for follow-up in 2-3 weeks
- Weekly labs if receiving parenteral therapy to monitor side effects while on IV antibiotics
 - o All will need CBC, CRP, ESR, BMP
 - Additional labs:
 - Ceftriaxone: LFTs
 - Vancomycin: weekly trough
 - Daptomycin: CK

Medical Legal Disclaimer:

Welcome to the UC Davis Health, Department of Pediatrics, Clinical Practice Guidelines Website. All health and health-related information contained within the Site is intended chiefly for use as a resource by the Department's clinical staff and trainees in the course and scope of their approved functions/activities (although it may be accessible by others via the internet).

This Site is not intended to be used as a substitute for the exercise of independent professional judgment. These clinical pathways are intended to be a guide for practitioners and may need to be adapted for each specific patient based on the practitioner's professional judgment, consideration of any unique circumstances, the needs of each patient and their family, and/or the availability of various resources at the health care institution where the patient is located. Efforts are made to ensure that the material within this Site is accurate and timely but is provided without warranty for quality or accuracy. The Regents of the University of California; University of California, Davis; University of California, Davis, Health nor any other contributing author is responsible for any errors or omissions in any information provided or the results obtained from the use of such information. Some pages within this Site, for the convenience of users, are linked to or may refer to websites not managed by UC Davis Health. UC Davis Health does not control or take responsibility for the content of these websites, and the views and opinions of the documents in this Site do not imply endorsement or credibility of the service, information or product offered through the linked sites by UC Davis Health. UC Davis Health provides limited personal permission to use the Site. This Site is limited in that you may not:

- Use, download or print material from this site for commercial use such as selling, creating course packets, or posting information on another website.
- Change or delete propriety notices from material downloaded or printed from it. · Post
 or transmit any unlawful, threatening, libelous, defamatory, obscene, scandalous,
 inflammatory, pornographic, or profane material, any propriety information belonging
 to others or any material that could be deemed as or encourage criminal activity, give
 rise to civil liability, or otherwise violate the law.
- Use the Site in a manner contrary to any applicable law.

You should assume that everything you see or read on this Site is copyrighted by University of California or others unless otherwise noted. You may download information from this Site as long as it is not used for commercial purposes, and you retain the proprietary notices. You may not use, modify, make multiple copies, or distribute or transmit the contents of this Site for public or commercial purposes without the express consent of UC Davis Health.