

#### Musculoskeletal infections include:

- Septic arthritis
- Osteomyelitis
- Pyomyositis

**Signs and symptoms** concerning for MSK infection include **one or more:** 

- Painful fixed joint (psuedoparalysis)
- Point tenderness over the bony metaphysis
- Hip rests in a position of flexion, abduction, and external rotation
- Fever > 38.0C (100.4F)
- Limb pain in absence of trauma
- Refusal to bear weight or use an extremity
- Previous health care visit for the same problem
- Chronic infection: infection >6 weeks with/without drainage

#### Kingella kingae

High index of suspicion:

- Typically 6 months to 4 years of age
- Often indolent course, frequently >3 days of symptoms
- Often well-appearing
- May have preceding viral URI or viral stomatitis infection
- Often attends daycare
- No h/o previous MRSA infection

#### Diagnosis:

- Joint fluid PCR (preferred)
- · Joint fluid culture

#### **Discharge Considerations**

- Is suspicion for MSK infection low?
- Is pain well controlled?
- Is there access to timely follow-up?
- Lack of social factors limiting care?
- Provider comfort for discharge?

If any "No" consider admission.

#### Can pt. be managed at CMH-K?

- MRI must be obtained in the Emergency Department PRIOR to admission
- Ortho, Hospitalist, ED and ID attending agree case can be managed at CMH-K
- Transfer to Adele Hall campus if MRI is unavailable or pt. requires surgery (typically direct admit)

# Assessment and treatment of suspected musculoskeletal (MSK) infection

### Initial evaluation for suspected acute or chronic MSK infection

- · History and physical exam
- Plain radiographs of the affected area
- Hip ultrasound if suspected effusion
- CBC with differential
- Blood Culture
- Infection site culture
- Inflammatory markers (CRP and ESR)

If concern for sepsis or necrotizing fasciitis, please refer to:

- Sepsis CPM
- Necrotizing fasciitis



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## Abbreviations (laboratory & radiology excluded):

pt. = patient

CMH-K = Children's Mercy Kansas

ID = Infectious Disease

MRSA = Methicillin-resistant

Staphylococcus aureus

MSKI = Musculoskeletal Infection

Ortho = Orthopedics

URI = Upper respiratory infection



- Consider alternative diagnosis
- Arrange follow up within 24-48 hours if patient is discharged

- Consult Ortho
- · Determine need for MRI
- Disucss with ID regarding antibiotic timing/need
  - Most common antibiotics include clindamycin 10 mg/kg/dose every 6 hours OR if suspected Kingella kingae, cefazolin 50 mg/kg/dose

**kingae**, cefazolin 50 mg/kg/dos every 8 hours

every 8 nours

