### Green Amber Infection (SA/OM) red Flags

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Green</th>
<th>Amber</th>
<th>Infection (SA/OM) red Flags</th>
<th>Malignancy red flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptoms less than 72 hours or &gt;72 hours and improving</td>
<td></td>
<td></td>
<td>Temperature &gt;38.5°C in preceding week</td>
<td>Fatigue, anorexia, weight loss, night sweats</td>
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<tr>
<td>Mobile but limping</td>
<td></td>
<td></td>
<td>Unable to weight bear</td>
<td>Pain waking child at night</td>
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<tr>
<td>Well</td>
<td></td>
<td></td>
<td>Pain on moving joint (passive)</td>
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### Green Action
- Provide with age appropriate advice sheet
- Regular analgesia with ibuprofen and paracetamol
- If any safeguarding concerns or concerns about slipped upper femoral epiphysis, low threshold for same day X-rays.
- Review in 48-72 hours if not improving

### Amber Action
- Send Home

### Senior review – to consider:
- X-rays (2 views only needed if over 8 years or clinical concern on AP view)
- Bloods – FBC & film, CRP, blood culture (see table 3 for Kocher criteria re: septic arthritis)
- Follow-up

### Urgent Action
- X-rays (2 views: AP & frog-lateral hips)
- Bloods – FBC & film, CRP, blood culture (see table 3 for Kocher criteria re: septic arthritis)
- Orthopaedic review
- Further investigation and management as appropriate

### Urgent Action
- Paediatric review

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This document was arrived at after careful consideration of the evidence available including but not exclusively NICE, SIGN, EBM data and NHS evidence, as applicable. Healthcare professionals are expected to take it fully into account when exercising their clinical judgement. The guidance does not, however, override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient in consultation with the patient and / or carer.
### Table 2: Causes of limp by age

<table>
<thead>
<tr>
<th>Age Less than 3 Years</th>
<th>Age 3 – 10 years</th>
<th>Older than 10 years</th>
<th>Any Age</th>
</tr>
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</table>
| **Septic arthritis (SA) / osteomyelitis (OM)**<br>• Usually febrile.<br>• Most commonly occurs under 4 years of age.<br>• Pain + inability to bear weight.<br>• If SA hip, hip often held flexed and abducted.<br>• Child often looks unwell and passive movement of the joint extremely painful.<br>• **Septic arthritis is a medical emergency requiring urgent treatment.**<br>• Femoral osteomyelitis presents similarly to septic arthritis with fever and pain but children have some passive range of motion unless there is extension of the infection into the joint.<br>**Transient synovitis**<br>• Typically acute onset following a viral infection.<br>• No systemic upset.<br>• Peak onset age 5/6 years, more common in boys.<br>• Managed with oral analgesia.<br>• No pain at rest and passive movements are only painful at the extreme range of movement.<br>• Recurs in up to 15% of children.<br>**Septic arthritis (SA) / osteomyelitis (OM)**<br>**Fracture/soft tissue injury**<br>**Perthes disease**<br>• Usually occurs in children aged 4-10 years (peak 5 and 7 years.)<br>• Affects boys more than girls<br>• Bilateral in 10%
| **Septic arthritis (SA) / osteomyelitis (OM)**<br>**Slipped upper femoral epiphysis**<br>• Usually occurs aged 11-14 years.<br>• More common in obese children and in boys.<br>• Bilateral in 20-40%.<br>• May present as knee pain<br>• **Same day Xray essential** – delayed treatment associated with poor outcome.<br>**Perthes disease**<br>**Fracture/soft tissue injury**
| **Septic arthritis (SA) / osteomyelitis (OM)**<br>Malignancy including leukaemia<br>Non-malignant haematological disease e.g. haemophilia, sickle cell<br>Metabolic disease e.g. rickets<br>Neuromuscular disease e.g. cerebral palsy, spina bifida<br>Limb abnormality e.g. length discrepancy<br>Inflammatory joint or muscle disease e.g. JIA<br>• Affects the hips in 30-50% of cases and is usually bilateral.<br>• Uncommon for hip monarthritis to be the initial manifestation.<br>• Children typically present with groin pain but may have referred thigh or knee pain. Often have morning stiffness, with gradual resolution of pain with activity.<br>• There is painful or decreased range of motion, especially in internal rotation.

### Table 3: Amended Kocher’s criteria for septic arthritis

<table>
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<tr>
<th>Fever &gt;38.5°C, Unable to weight bear, CRP&gt;20mg/L, WCC &gt;12</th>
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<tbody>
<tr>
<td>(1 criterion = 3% probability for septic arthritis / 2 criteria = 40% probability / 3 criteria = 93% probability / 4 criteria = 99.6% probability)</td>
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