
EARLY OR DELAYED SPICA CASTING

Moderate evidence supports early spica casting or traction with delayed spica casting for children age six months to five years with a diaphyseal femur fracture with less than a 2 cm of shortening.

Strength of Recommendation: Moderate 

Description: Evidence from two or more “Moderate” quality studies with consistent findings or evidence from a single “High” quality study for recommending for or against an intervention.

ELASTIC INTRAMEDULLARY NAILS

Strong evidence supports the use of flexible intramedullary nailing to treat children age five to eleven years diagnosed with diaphyseal femur fractures.

Strength of Recommendation: Strong 

Description: Evidence from two or more “High” quality studies with consistent findings for recommending for or against the intervention.

ORIF PEDIATRIC FEMUR FRACTURES

Limited evidence supports rigid trochanteric entry nailing, submuscular plating, and flexible intramedullary nailing as treatment options for children age eleven years to skeletal maturity diagnosed with diaphyseal femur fractures, but piriformis or near piriformis entry rigid nailing are not treatment options.

Strength of Recommendation: Limited 

Description: Evidence from two or more “Low” quality studies with consistent findings or evidence from a single “Moderate” quality study recommending for against the intervention or diagnostic or the evidence is insufficient or conflicting and does not allow a recommendation for or against the intervention.

PAIN CONTROL

Limited evidence supports regional pain management for patient comfort peri-operatively.

Strength of Recommendation: Limited 

Description: Evidence from two or more “Low” quality studies with consistent findings or evidence from a single “Moderate” quality study recommending for against the intervention or diagnostic or the evidence is insufficient or conflicting and does not allow a recommendation for or against the intervention.

View background material and data summaries via the CPG [eAppendix](#)