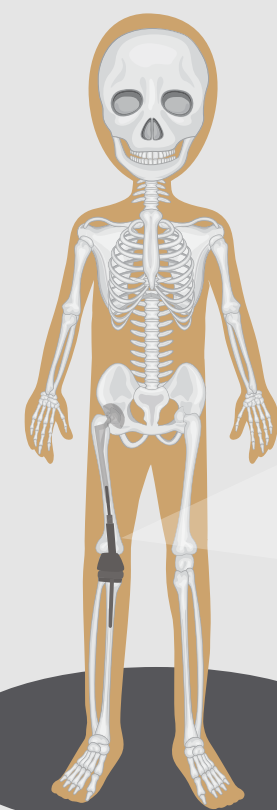
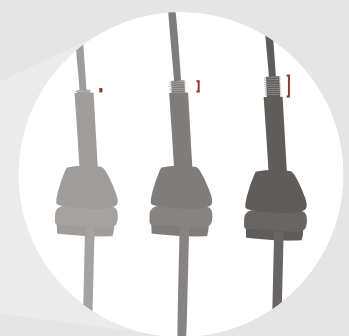


# Long-Term Outcomes for Extendable Endoprostheses



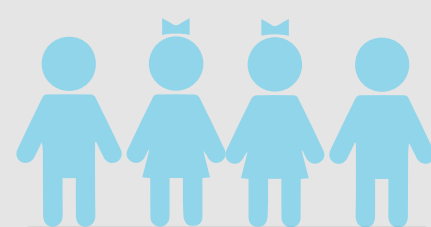
Extendable endoprostheses are a useful treatment modality after bone resection for sarcoma in children



Extendable endoprostheses

However, studies are still needed to determine long-term outcomes

124 skeletally immature children



Extendable endoprosthetic replacement

Follow-up  
10–36 years

Implant survival

Complications

## Advantages



Limb salvage  
91%



Mean limb length  
discrepancy  
1 cm



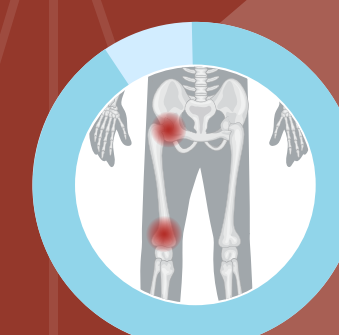
Musculoskeletal  
Tumor Society  
functional score  
82%

## Disadvantages

10-year  
failure rate  
28%

Complication  
rate  
90%

Mean surgical  
procedures per  
patient  
2.7



Proximal  
part of the  
femur

77%  
Soft-tissue  
failure

Distal part  
of the  
femur

52%  
Aseptic  
loosening

55%  
Structural  
failure



Despite high complication rates and a need for additional surgical procedures, extendable endoprostheses in children are a reliable option for limb-length restoration, limb salvage, and long-term function

Extendable Endoprostheses in Skeletally Immature Patients: A Study of 124 Children  
Surviving More Than 10 Years After Resection of Bone Sarcomas

Tsuda et al. (2020)

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