

# Neurofibromatosis with pathologic fracture

Joseph Junewick, MD FACR

12/28/2009

---

## History

9 year old female with neurofibromatosis.

## Diagnosis

Neurofibromatosis with pathologic fracture

## Discussion

The cystic lucencies in this case likely represent a combination of non-ossifying fibroma, fibrocortical defects and mesodermal dysplasia. Osseous dysplasia weakens the bone and consequently predisposes to fracture. Nonunion and pseudoarthrosis occur in as many as 13% of these pathologic fractures.

## Findings

CR-Lateral view of the leg demonstrates multilocular cystic lucency with segmental sclerosis in the anterior proximal tibial diaphysis with associated apex anterior tibial bowing. Note the transverse fracture through the anterior aspect of the tibia.

## Reference

Ozonoff M. Pediatric Orthopedic Radiology, 2nd Ed. WB Saunders (1992).

---



R  
L

---

## Sponsored By



### Disclaimer

This teaching site is partially funded by an educational grant from GE Healthcare and Advanced Radiology Services, PC. The material on this site is independently controlled by Advanced Radiology Services, PC, and GE Healthcare and Spectrum Health have no influence over the content of this site  
Content Download Agreement

The cases and images on this website are owned by Spectrum Health. Permission is granted (for nonprofit educational purposes) to download and print materials to distribute for the purpose of facilitating the education of health professionals. The authors retain all rights to the material and users are requested to acknowledge the source of the material.

### Site Disclaimer

This site is developed to reach healthcare professionals and medical students. Nothing this site should be considered medical advice.

Only your own doctor can help you make decisions about your medical care. If you have a specific medical question or are seeking medical care, please contact your physician.

The information in this website is provided for general medical education purposes only and is not meant to substitute for the independent medical judgment of a physician relative to diagnostic and treatment options of a specific medical condition.

The viewpoints expressed in these cases are those of the authors. They do not represent an endorsement. In no event will Advanced Radiology Associates, PC, Spectrum Health Hospitals (Helen DeVos Children's Hospital) or GE Healthcare be liable for any decision made or action taken in reliance upon the information provided through this website.