

# Case Report: Thoracic Neuroblastoma

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## Patient history

2-year-old\* boy presented with fever and limp. Nuclear Medicine Bone Scan showed increased uptake in the left ilium. Inflammatory markers continued to increase despite IV antibiotic treatment. Suspicion of Ewings Sarcoma, Abscess, Cellulitis.

## Sequence details

Targeted T2-weighted FS imaging of the pelvis was performed on our 3T MAGNETOM Trio, A Tim System, using the Spine and Body Matrix coils. The images demonstrated abnormal widespread bone marrow signal intensity suggestive of a more complex pathology. STIR whole-body imaging was performed.

## Image findings

Coronal whole-body STIR imaging demonstrated extensive marrow involvement in the pelvis, upper and lower extremities and L3 vertebral body. Targeted transverse T2-weighted imaging was performed on a large lobulated anterior mediastinal mass. The findings were consistent with a primary thoracic neuroblastoma with extensive marrow deposits and local lymph node involvement.

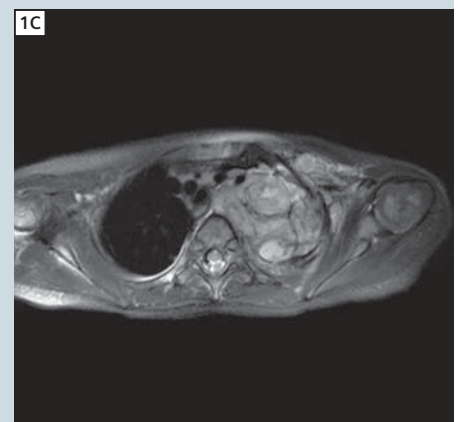
\* The safety of imaging fetuses/infants has not been established.



**1A** T2-weighted TIRM images of the pelvis with spectral fat suppression, demonstrating the abnormal widespread bone marrow signal intensity. Also, a large anterior mediastinal tumor was found in this 2-year-old\* boy.



**1B** The craniocaudal extent of this large tumor mass is well visualized on the sagittal T2-weighted whole-spine image.



**1C** Demonstrates the expansive spread of the thoracic lesion. Histopathology revealed a neuroblastoma.