



OrthoWorks

Orthopedic tumor imaging

Osteogenic Sarcoma

Clinical case:

- Teen male with tibial pain
- MRI demonstrates an expansile bone producing aggressive neoplasm arising from the diaphysis
- Note the central ossification clearly delineated on the MRI
- Patient underwent tumor resection with adjuvant therapy

X-Ray



2D PD FSE



NM

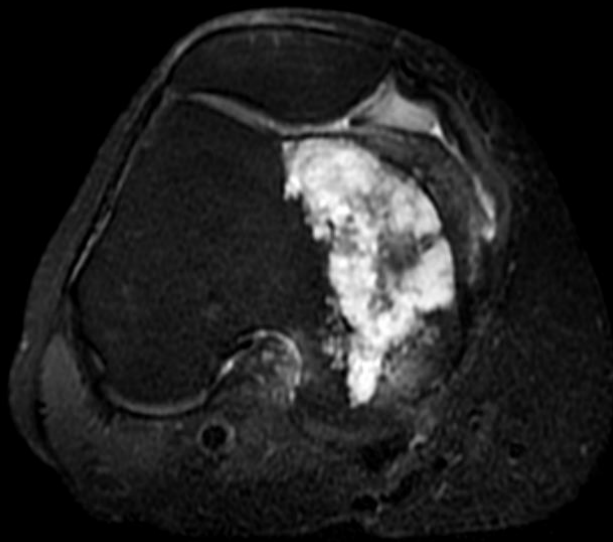


Femoral tumor

AIR™ Anterior Array Coil Coil + Posterior Array



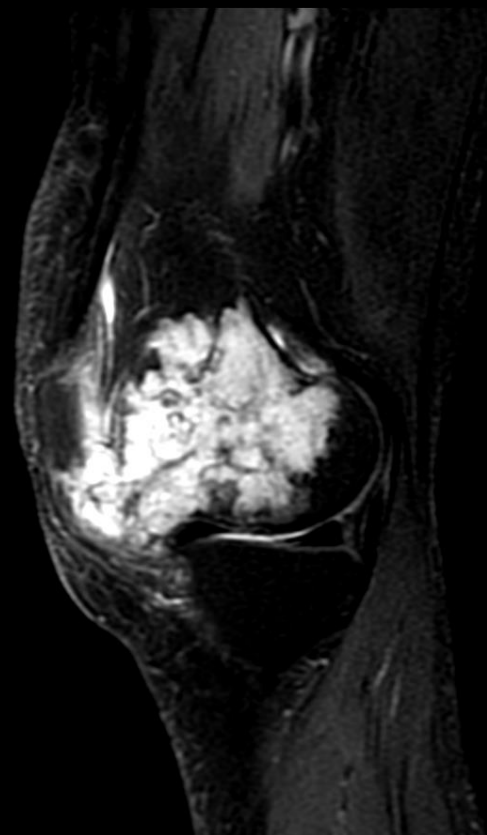
T2 FSE
0.4 x 0.4 x 4 mm
2:08 min



T2 FSE **Flex** - water
0.6 x 0.8 x 4 mm
2:30 min



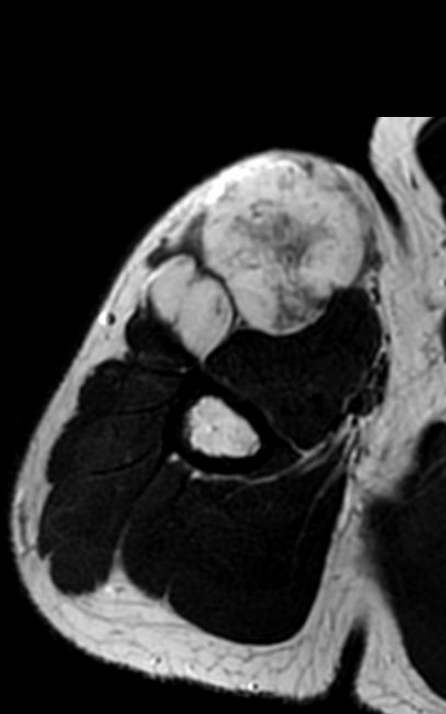
T1 FSE
0.6 x 0.4 x 4 mm
2:17 min



T2 FSE **Flex** - water
0.6 x 0.9 x 4 mm
2:13 min

Upper arm tumor

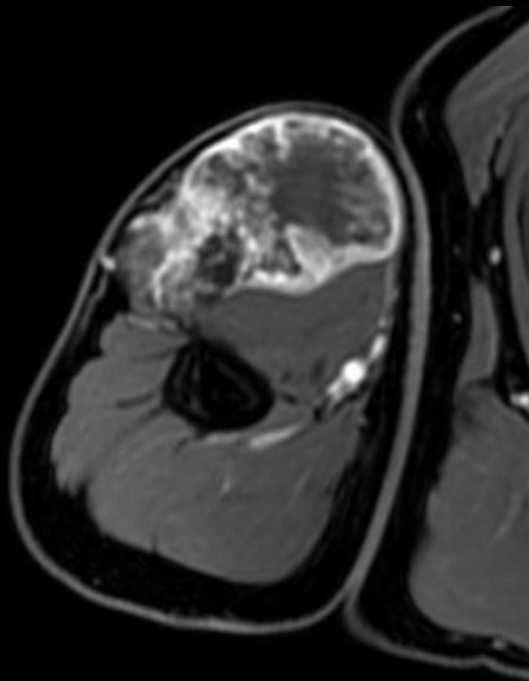
Posterior Array Coil + GEM Flex



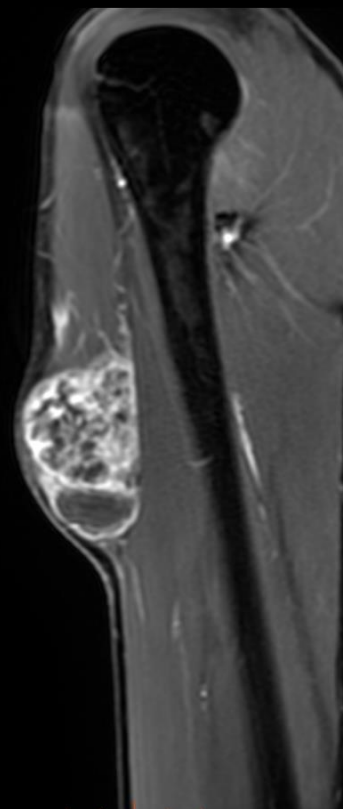
T2 FSE
0.6 x 0.6 x 3 mm
2:57 min



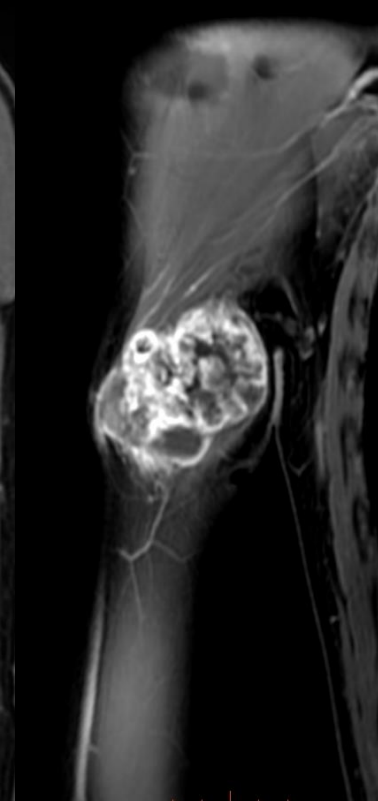
T2 FSE
0.5 x 0.9 x 3 mm
2:04 min



LAVA Flex - CE
0.6 x 0.8 x 3 mm
58 sec



LAVA Flex - CE
0.9 x 1.1 x 3 mm
40 sec



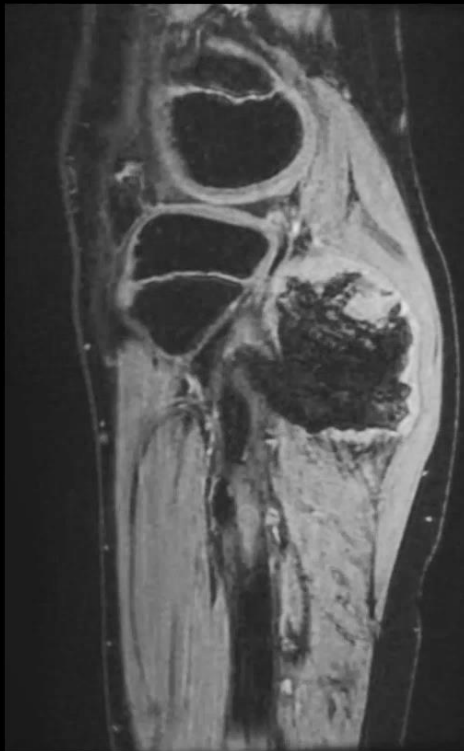
LAVA Flex - CE
1.1 x 1.3 x 3 mm
1:00 min

Pediatric muscle tumor

AIR™ Anterior Array Coil



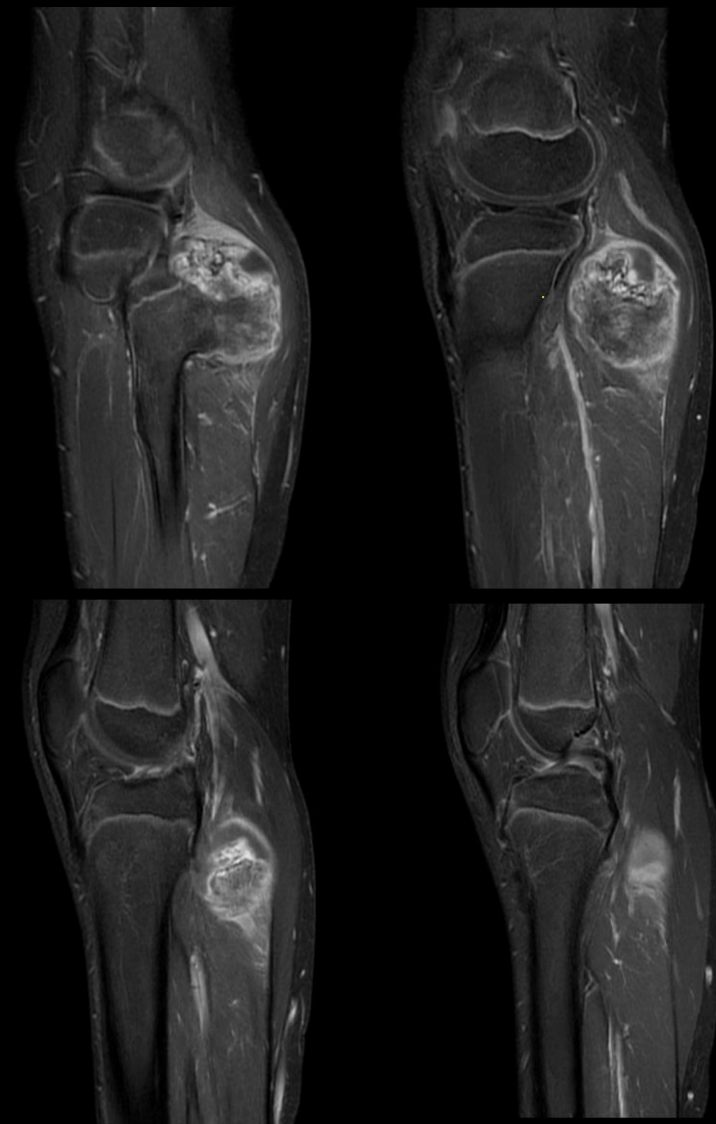
Inhance 3D Velocity
NCE MRA



3D MERGE



3D MERGE - VR
fusion of NCE MRA with FSE Flex



T1 FSE - Post Contrast
0.5 x 0.7 x 3 mm
3:44 min

