

Arachnoiditis ossificans in a pediatric patient

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A 14-year-old girl with spastic quadriplegic cerebral palsy and progressive neuromuscular scoliosis presented with back pain 6 months after posterior spinal fixation. CT of the lumbar spine revealed numerous ossified dural plaques (Fig. 1, arrows). Semitransparent volume-rendered CT reconstruction shows the distribution of intraspinal ossifications (gray amorphous regions with white stippling) in

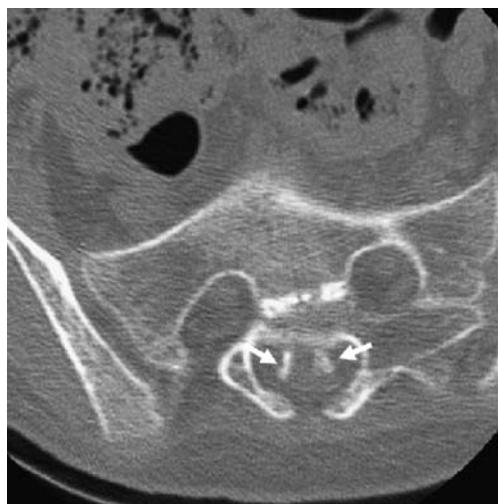


Fig. 1 Axial non-contrast CT image of the spine

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Fig. 2 Volume-rendered CT reconstruction

the nerve root sleeves and caudal recess (Fig. 2). The pedicle screws (white areas) at L5 are evident superiorly.

Arachnoiditis ossificans is a rare chronic meningeal inflammatory process that typically affects adults [1]. The pathogenesis is unknown but thought to be the result of end-stage adhesive arachnoiditis secondary to prior spinal surgery or trauma, subarachnoid hemorrhage or previous lumbar taps/injections [1, 2]. Ossified dural plaques can be asymptomatic or might cause pain, myelopathy, radicular signs, sensory disturbance or incontinence [1, 2].

References

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