

Case Report: Cervical Spine Trauma

Michael Kean; Michael Ditchfield, M.D.

Children's MRI Centre, Royal Children's Hospital, Parkville, Victoria, Australia

Patient history

4-year-old female patient was involved in a high-speed vehicle accident. At the scene the girl was distressed, bradycardic and not moving limbs. She was transferred to the Pediatric Trauma Centre and MR imaging requested for prognostic information regarding treatment.

Sequence details

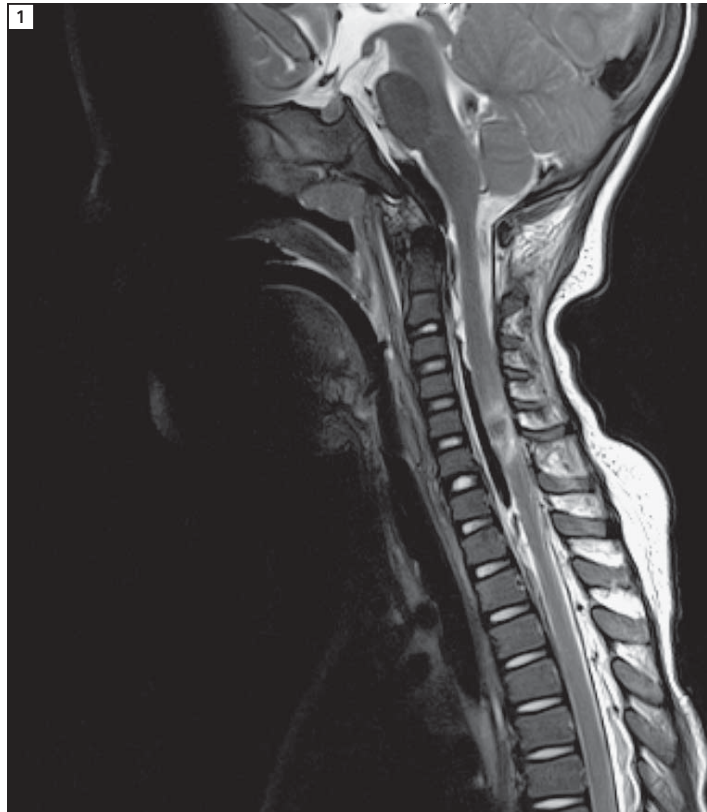
All images have been acquired at our MAGNETOM Trio, A Tim System using the Spine Matrix coil.

Sagittal Turbo Spin Echo (TSE) images with TR 4300 ms, TE 107 ms, BW = 240 Hz/Px, Turbo Factor 25, slice thickness 2.5 mm, FOV 230 mm, matrix 346 x 384.

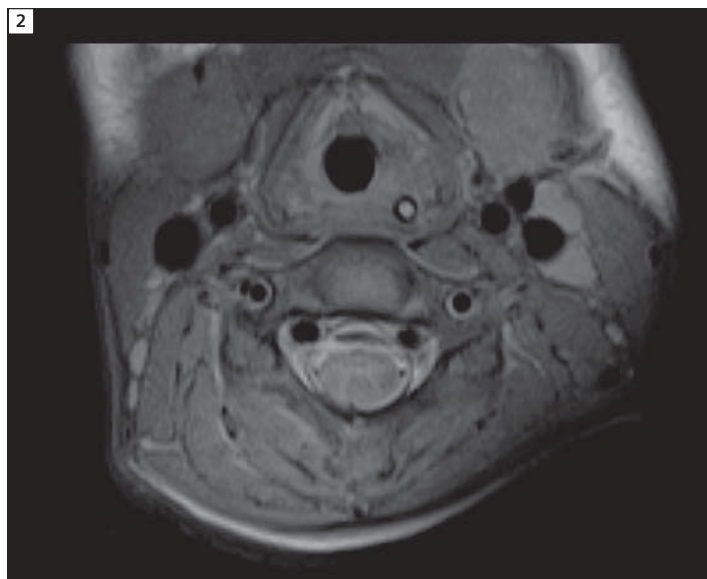
Transverse images with TR 2000 ms, TE 12 ms, Turbo Factor 5, BW = 132 Hz/Pixel, slice thickness 3.5 mm, FOV 160 mm, using SPAIR.

Image findings

Images show a transection of the cervical cord at the level of C5–C6 with approximately 6 mm of separation.



1 The sagittal T2-weighted Turbo Spin Echo image demonstrates a traumatic transection of the spinal cord at the level of C5–C6.



2 The corresponding transverse image supports the diagnoses of the separation of the cervical cord.

Contact

Michael Kean
Children's MR Centre
Royal Children's Hospital
Melbourne, Australia
michael.kean@rch.org.au