

Distractive Atlantoaxial Dislocation

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– Abstract –

Atlantoaxial dislocations usually present with fatal brain injury, but rarely with clinical problems. With the development of newer imaging techniques, as well as improved preoperative and perioperative care, the likelihood of survival from an atlantoaxial dislocation has increased. Survivors usually suffer incomplete neurological deficits, including Brown-Séquard syndrome or central cord syndrome.

The authors describe a distractive atlantoaxial dislocation, with neurological sequelae, in a younger patient who had been involved in a car accident. This case was treated surgically, but the patient suffered paraplegia due to thoracic myelopathy.

Key Word: Cervical spine, Atlantoaxial dislocation, Arthrodesis

1-2
가
가 가
20^{1,2)}
17
2,3,4,5,6) 70%
가
Brown-Sequard
22
VI, XI, XII
50%^{2,5)}
halo vest
halo vest
1
15
36.7 °C, 130/80 mmHg, 130
5 cm 가
(III-IV/V)

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1-2 4
11 mm 1-2 10 mm 10-11
(Fig. 1)
4 halo vest 48
1-2 (detrusor areflexia)
(Fig. 2). halo
halo ring vest 가
3 가 halo-vest 가
12 (Fig. 3). 가 가
16 가 가



Fig. 1. (A) Initial lateral plain radiograph shows isolated C1-C2 dislocation with 11 mm of vertical C1-C2 gap and 10 mm of ADI. (B) Open mouth view.

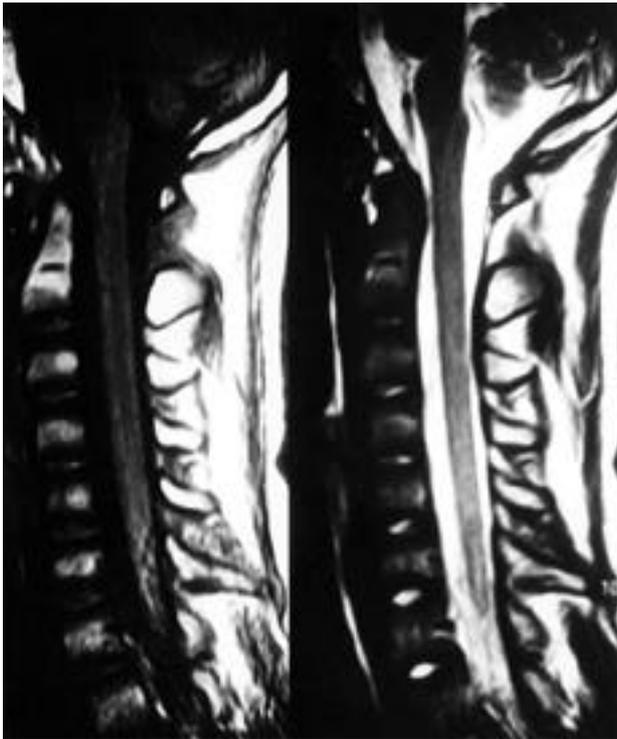


Fig. 2. Noncontrast T1 and T2-weighted sagittal magnetic resonance imaging of cervical spine shows vertical migration and anterior displacement of atlas.



Fig. 3. Postoperative one year roentgenogram showing solid arthrodesis between C1-C2.



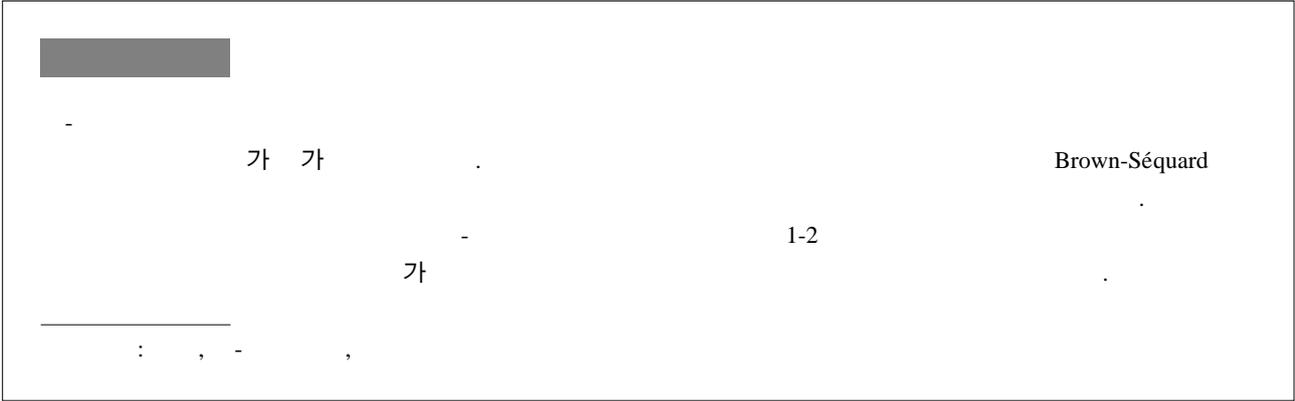
Fig. 4. Noncontrast T1 and T2-weighted sagittal scan demonstrates the atrophy of spinal cord and epidural fat at T10-T11 level.

가
 2,3,4,5,6,7,8) / 5,9,10)
 5,11)
 (ligamentum
 nuchae)
 fibroelastic mem-
 brane
 Traynelis⁸⁾ 가
 가 1 가
 가 2
 2 mm

가 3 가 , 1
 5). Traynelis 1
 2 (respiratory distress syndrome)
 (medulla oblongata)
 1, 2
 12). 가
 가
 halo ring halo vest , 가
 , halo ring
 가 1-2 pound ,
 Trendelenburg
 halo vest . halo vest 7),
 -
 -
 halo vest .
 vest halo ring .
 가 ,
 12). 가
 Bohlman 가
 20-gauge halo vest 12
 -

9-11

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