

Fracture Dislocation of Upper Sacrum in an Adolescent: Case Report and Review of Literature

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Abstract : Although sacral fractures in children are rare due to the fact that the occurrence of pelvic fracture is not common in childhood. Sacral fractures present a high risk of neurological damage. This kind of fracture is often missed because the routine pelvic X-rays imaging scarcely show this fracture. Also, the treatment is controversial, and it ranges from fine reduction to conservative treatments without any try to reduce the dislocation. In this article, a case of fracture dislocation of S1 and S2 along with a suggested diagnostic test and treatment based on similar cases are presented. The case investigates a 14-year-old boy who entered the hospital one week after a car accident that knocked him to the ground in crawling position and a rack fell down on his body. Pain and tenderness in the sacral region and a fracture in the left leg were notable--we detected incomplete bilateral palsy of L5, S1 and S2 roots. In radiographs of the spine fracture dislocation of S1, the sacral fracture was seen. The treatment included a skeletal traction with a halo over the patient's head and two femoral pins. After one week, another surgery was performed in order to stabilize and reduce the fracture, and we employed a posterior approach with CD and a pedicular screw. After two years of follow-up, the fracture is completely cured without any loss of reduction.

Keywords : adolescent, fracture in adolescent, fracture dislocation, sacrum

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