A 30-year-old man presented to the emergency department after a motorcycle accident at high speed. He reported neck pain and referred paresthesia along the fourth and fifth fingers of both the left and the right hand. The patient arrived at hospital hemodynamically stable. His Glasgow Coma Scale was 15 and the physical examination revealed numbness of the ulnar side of the left and the right hand as well as pain located at the lower cervical spine. Initial radiograph image of the cervical spine did not show any spine injury (Figure, part A). Since this initial radiograph had not included the vertebral spine below C6, the image was then repeated to include the whole cervical spine (Figure, part B; see arrow). A dislocation C6 to C7 injury was then disclosed. Computerized tomography and magnetic resonance imaging were performed as well so as to complete the study, depicting a comminuted fracture dislocation C6 to C7 injury by a mechanism of extension-compression (Figure, parts C and D). The patient was taken early to the operating room so as to be operated through a double approach in lateral decubitus under halo traction.

An accurate detailed history and physical examination are essential if a diagnosis of cervical spinal injury is not to be missed. The reported frequency of missed injuries ranges from 4% to 30%, and the most common cited reason for this is inadequate radiologic examination.2,3 Lateral cervical spine radiograph images must visualize the entire cervical spine. When lower vertebrae are not included, repeated radiograph images showing the entire cervical spine are mandatory. When an injury is missed initially, the delay in diagnosis puts the patient at risk for progressive instability and neurologic deterioration.4 Prompt reduction and internal stabilization has been advocated to achieve full recovery.

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Figure. A, Initial radiography showing the lateral view of the cervical spine. No significant injuries are depicted, but the lowest cervical vertebra is not seen. B, The repetition of the radiography including the whole cervical spine disclosed a fracture dislocation C6 to C7 injury. C, Magnetic resonance image (sagittal view) showing a dislocation of the C6 vertebral soma anterior to the C7 vertebra, associated to a bilateral fracture of the pedicles of C6 and the posterior elements. The medullary cord is significantly displaced but shows no signs of injury. D, Computerized tomography (axial view) showing a significant anterior displacement of the vertebral soma as well as a fracture dislocation with involvement of both the vertebral pedicles and the laminae, which determined a widening of the medullary canal.