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Management of thoracic spine dislocation by spine shortening and total vertebrectomy

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The treatment of thoracic spine fracture-dislocations is now well established with the recent progress in spine surgery. Although most of the patients have a degree of spinal cord injury, early surgical reduction and stabilization of the unstable deformity allow an immediate program of rehabilitation. Vertebrectomy is considered as the last surgical technique reserved for the most persistent spinal deformities that cannot be brought to an acceptable correction with less invasive methods.

We present a case of a 19-year-old male with a sub-acute thoracic spine fracture-dislocation at the level of T7 - T8 who underwent a posterior T8 vertebrectomy with reduction and instrumentation from T4 down to T1. Patient had excellent results during follow-ups regarding alignment, fusion and rehab program.

In this case we present the good outcome of vertebrectomy and spine shortening in the spine fracture-dislocation patients, and the advantages of posterior approach.

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Biography

Turki AlMugren graduated from King Saud Bin Abdul-Aziz University for health sciences in 2016, and finished his residency program at King Abdul-Aziz Medical City in 2021. He is now a board-certified orthopedic surgeon at KAMC, Riyadh. He has been cited over 20 times with over 9 publications, and his publication H-index is 3.

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