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Title: Cervical Spine Fracture through a Cervical Disc Replacement

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HIGHLIGHTS:

- Case of patient with posterior fixation for traumatic cervical spine fracture in previously fixated cervical spine
- History of a cervical disc replacement (CDR) with adjacent segment degeneration and fusion yielded an unusual injury pattern
- Highlights the decompressive nature of bi-pedicle fractures and a satisfactory outcome with posterior stabilisation
- Protective role of CDR in high velocity trauma has yet to be established

ABSTRACT

INTRODUCTION: We report a rare case of cervical spine trauma through a cervical disc replacement and adjacent multilevel disc fusions. Cervical disc replacement (CDR) is a viable option for the surgical treatment of degenerative disc disease however long term follow up data regarding this operative technique is poor specifically relating to traumatic complications. We know of no previous reports of bilateral cervical pedicle fractures occurring adjacent to CDR and anterior cervical spine instrumentation.

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