Accepted Manuscript

Title: Preventable diagnostic errors in fatal cervical spine injuries: a nationwide register-based study from 1987 to 2010

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PII:	S1529-9430(17)30905-1
DOI:	http://dx.doi.org/doi: 10.1016/j.spinee.2017.08.231
Reference:	SPINEE 57460
To appear in:	The Spine Journal
Received date:	13-4-2017
Revised date:	17-7-2017
Accepted date:	9-8-2017

Please cite this article as: Tuomo Thesleff, Tero Niskakangas, Teemu Luoto, Grant L Iverson, Juha Öhman, Antti Ronkainen, Preventable diagnostic errors in fatal cervical spine injuries: a nationwide register-based study from 1987 to 2010, *The Spine Journal* (2017), http://dx.doi.org/doi: 10.1016/j.spinee.2017.08.231.

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ACCEPTED MANUSCRIPT

1 Preventable diagnostic errors in fatal cervical spine injuries: a nationwide register-based

- 2 study from 1987 to 2010
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- 16

Abstract

- 17 **Background:** Fall-induced injuries in patients are increasing in number and they often lead to
- 18 serious consequences, such as cervical spine injuries (CSI). CSI diagnostics remain a challenge
- 19 despite improved radiological services.
- 20 **Purpose:** Our aim is to define the incidence and risk factors for diagnostic errors among patients
- 21 who died following a CSI.
- 22 Study Design/Setting: Retrospective death certificate-based study of the whole population of
- 23 XXX.
- 24 **Patient sample:** We identified 2,041 patients whose death was, according to the death certificate,
- 25 either directly or indirectly caused by a CSI.
- 26 **Outcome measures:** Demographics, injury- and death-related data, and adverse event-related data.
- 27 Methods: All death certificates between the years 1987 and 2010 from Statistics XXX that
- 28 identified a CSI as a cause death were reviewed to identify preventable adverse events (PAE) with
- 29 the emphasis on diagnostic errors.
- **Results:** Of the 2,041 patients with CSI-related deaths, 36.5% (n=744) survived at least until the
- next day. Errors in CSI diagnostics were found in 13.8% (n=103) of those who died later than the

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