

- 1 **Supplementary Table 1: Characteristics of patients with CSI captured during secondary interpretation.** Information regarding
- 2 the patients, injury, management, and complication is provided.

Age	Sex	Missed injury on primary interpretation	Outcome at discharge (alive vs deceased)	Injury pattern (stable vs unstable)	Management of injury	Did patient arrive in a cervical collar?	Complications pertaining to CSI	MRI performed following admission?
57	Female	Nondisplaced fracture C7 left transverse process	Alive	Stable	Immobilization with cervical collar	Unknown	None	No
60	Male	Left occipital condyle fracture. C5 transverse process extending into the foramen transversarium	Alive	Stable	Immobilization with cervical collar	Unknown	None	No
48	Female	Right superior facet fracture of C7	Alive	Stable	Immobilization with cervical collar	Unknown	None	No
26	Male	Fracture of the anterior and posterior wall of C4 left vertebral foramina	Alive	Stable	Immobilization with cervical collar	No	None	Yes
52	Female	Nondisplaced fracture of the left transverse process of C7	Alive	Stable	Immobilization with cervical collar	Yes	None	Yes
23	Female	Acute anterior compression fracture of the C7 vertebral body	Alive	Stable	Immobilization with cervical collar	Unknown	None	Yes
49	Male	Transverse fracture right lateral mass of C2	Alive	Stable	Immobilization with cervical collar	Unknown	None	No
6	Male	Separation/fracture of the left synchondrosis of anterior arch of C1	Alive	Stable	Immobilization with cervical collar	Yes	None	Yes
81	Female	C2 left facet fracture, nondisplaced C4 and C5 spinous	Alive	Unstable	Operative repair and cervical collar	Yes	Central Cord Syndrome	Yes

		process fractures, C5 vertebral body fracture						
18	Female	Nondisplaced C2 fracture pedicle and left transverse foramen	Alive	Stable	Immobilization with cervical collar	No	None	No
84	Male	Anterior-inferior corner fracture of the C3 vertebral body  (teardrop fracture)	Alive	Unstable	Immobilization with cervical collar	Yes	Central Cord Syndrome	Yes
65	Female	Acute minimally displaced fracture right lateral mass of C2 extending along the base of the odontoid process	Alive	Stable	Immobilization with cervical collar	Yes	None	Yes
45	Female	Avulsion fracture of the left occipital condyle	Alive	Stable	Immobilization with cervical collar	Yes	None	No
90	Male	Nondisplaced acute fracture of the  superior endplate of C7	Alive	Stable	Immobilization with cervical collar	Yes	None	No
52	Female	Comminuted fracture of spinous process of C4 vertebra	Alive	Stable	Immobilization with cervical collar	Yes	None	No
49	Male	Nondisplaced fracture of the left transverse process of C7, T1 and  T2	Alive	Stable	immobilization with cervical collar	Unknown	None	No
77	Male	Nondisplaced fracture of the anterior tubercle of C7 on the  left	Alive	Stable	Immobilization with cervical collar	Unknown	None	No

75	Male	Nondisplaced fracture of the C7 right inferior articular facet	Deceased	Stable	Immobilization with cervical collar	Unknown	None	Yes
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