conferenceseriescom

Epidemiology (Sunnyvale) 2017, 7:5(Suppl) DOI: 10.4172/2161-1165-C1-018

RISK FACTORS FOR 14-DAY REHOSPITALIZATION FOLLOWING TRAUMA WITH NEW TRAUMATIC SPINAL CORD INJURY DIAGNOSIS: A 10-YEAR NATIONWIDE STUDY IN TAIWAN

Carlos Lam, Ping-Ling Chen Jiunn-Horng Kang, Kuang-Fu Cheng Ray-Jade Chenand Kuo-Sheng Hung Taipei Medical University, Taiwan

Objectives: Fourteen-day rehospitalisation with new traumatic spinal cord injury (tSCI) diagnosis is used as an indicator for the diagnostic quality of the rst hospitalization. In this nationwide population-based cohort study, we identified risk factors for this indicator.

Methods: We performed a nested case-control study by including patients who had rst hospitalization for trauma in the National Health Insurance Research Database between 2001 and 2011. Variables including demographic and traum characteristics were compared between patients diagnosed with tSCI at the rst hospitalization and those having 14-day rehospitalisation with new tSCI diagnosis.

Results: Of 23617 tSCI patients, 997 had 14-day rehospitalisation with new tSCI diagnosis (incidence rate, 4.22%). e risk of 14-day rehospitalisation with new tSCI diagnosis was signi cantly lower in patients with severe (injury severity score [ISS] = 16–24; odds ratio [OR], 0.17; 95% con dence interval [CI], 0.13–0.21) and profound (ISS > 24; OR, 0.11; 95% CI, 0.07–0.18 injuries. Interhospital transfer (OR, 8.20; 95% CI, 6.48–10.38) was a signi cant risk factor, along with injuries at the thoracic (OR, 1.62; 95% CI, 1.21–2.18), lumbar (OR, 1.30; 95% CI, 1.02–1.65), and multiple (OR, 3.23; 95% CI, 1.86–5.61) levels. Br (OR, 2.82), chest (OR, 2.99), and abdominal (OR, 2.74) injuries were also identi ed as risk factors. In addition, the risk was higher in patients treated at the orthopaedic department (OR, 2.26; 95% CI, 1.78–2.87) and those of other surgical discipline (OR, 1.89; 95% CI, 1.57–2.28) than in those treated at the neurosurgery department.

Conclusions: Delayed tSCI diagnoses are not uncommon, particularly among trauma patients with ISSs <16 or those transferred from lower-level hospitals. Further validation and implementation of evidence-based decision rules is essential for improving the diagnostic quality of traumatic thoracolumbar SCI.

В	١	_	1	_	_	
- 1	NΙ	n	т	\boldsymbol{a}	c	-