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## Correlation of Injury Severity Score and Average Length of Stay

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**Objective:** The purpose of this study was to determine trauma patient length of stay (LOS) and the association between LOS and trauma patient demographic and clinical characteristics.

**Methods:** This was a retrospective study. We ascertained the differences and correlations between gender, age, injury severity score (ISS), surgical status, and intensive care unit (ICU) stay and LOS among trauma patients admitted to a Tainan medical center in 2013.

**Results:** The ISS was significantly correlated with ICU stay and LOS. The ICU stay and LOS in patients with extremely severe trauma ( $ISS \geq 25$ ) who underwent surgery were significantly longer than any other group. In addition, the ICU stay and LOS increased by 0.496 and 0.656 days per incremental increase in ISS. The ICU stay and LOS of patients who underwent surgery were 3.432 and 3.12 days longer than patients who did not have surgery.

**Conclusions:** The ISS in trauma patients who underwent surgery was a major predictor of ICU stay and LOS. The results of this study can serve as a reference for managing LOS of trauma patients in medical centers.

### Biography

Shu Ting Yen has completed her Master's degree from I-Shou University. She is now the registry staff of trauma team in National Cheng Kung University Hospital and published trauma related manuscripts during the past 4 years.

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