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A new trauma score - "Trauma Severity Score" to predict the outcome in trauma patients

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Background & Aim: Multiple factors have been implicated by various workers around the world to predict the outcome in the patients of poly trauma. A numbers of trauma scoring systems also prevail. We conducted a study in a tertiary level trauma centre so as to find out various factors and formulate a clinical scoring system which can be used as a tool for exact prediction of outcome of trauma patients in terms of mortality and morbidity.

Materials & Methods: A prospective study was done at Trauma Centre, Institute of Medical Sciences-BHU. 500 trauma patients were enrolled in the study depending upon inclusion and excluding criteria. The patients were assessed clinically and management started as per protocol. HR, RR, SBP, MBP, GCS, AIS, delay in arrival and mode of trauma was recorded. A clinical scoring system based on organ systems injured and severity of injury was used for scoring. Further the management done, course during hospital stay, complications and final outcome were also recorded. Final correlation and analysis was done.

Result & Discussion: It was found that patients who met with high velocity trauma and associated with head injury have high mortality rate. Mortality has also been more when head injury was associated with chest trauma. Spine trauma was found to be associated with high morbidity in form of para or quadriparesis. Patient having associated with extremity fracture along and degloving injuries have prolonged hospital stay.

Conclusion: In poly trauma patients various physiological, anatomical, biochemical parameters are important to predict the outcome of trauma patients. The scoring system used was also validated and found rational and useful.

Biography`

Awaneesh Katiyar is a Post-graduate student in Master of Surgery. He is working as Junior Resident at Sir Sunder Lal Hospital and Trauma Centre and Super Specialty Hospital. He has special interest in Trauma Surgery and Evaluation of Trauma Patients. During his Post-graduation, he developed a trauma score for proper assessment and prognosis of trauma patients in terms of mortality and morbidity.

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