

Outcome and Patterns of Traumatic Brain Injury in Paediatric Population of a Developing Country Secondary to TV-Trolley Tip Over

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Introduction

TV trolley tip over incidences are common and can cause significant morbidity and mortality in children. This study was aimed at analyzing the pattern and outcomes of head injury resulting from TV trolley tipover.

Methods

This was a medical chart review of children with TV trolley tipover head injury from January 2009 to October 2015. We collected data on demographics, mechanism of injury, clinical and radiological features of injury and its outcomes. Outcomes of head injury were measured through Glasgow Outcome Scale (GOS) at 6 months. A descriptive analysis was carried out using SPSS v 19 (IBM, Chicago IL).

Results

Twenty one children were included in the study. Fifteen children were male with a mean age of 29.6 months. Most of the children (n=16) were aged between 12 to 35 months. The median GCS score on admission was 15. The median Rotterdam score for the patients was 2.0. The common symptoms on admission were vomiting, irritability, scalp laceration and bruises. The median length of stay was 3 days. Skull bone fractures were present in 11 children. Other CT findings included contusions, extradural and subdural hematomas, intraventricular hemorrhage and pneumocranium. Surgical intervention was required in 4 cases. Although most of the patients made good recovery (GOS=5), 1 patient had develop mild disability and another died in hospital.

Conclusions

TV trolley tipover is mostly common in toddlers, and can lead to significant head injury and mortality. This can be avoided by parental supervision and adjustments in the household.

Learning Objectives

Buy a stand designed specifically for your TV by the manufacturer

All furniture should be stable on its own prior to being used as a support device

Secure the TV to the stand and the stand to the wall or floor

Televisions should be as low to the floor as possible

Push the TV as far back on the stand as possible

Do not put a TV on furniture on drawers that can be pulled out by children and used to climb

References

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