A systematic review and quality analysis of Pediatric Traumatic Brain Injury Clinical Practice Guidelines.

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Citation

Review question
What is the quality of the available clinical practice guidelines for the acute management of pediatric traumatic brain injuries?

Searches
We will search the following electronic bibliographic databases: MEDLINE, EMBASE, Cochrane Library, LILACS, Africa-Wide Information and Global Index Medicus and the Duke University Medical Center Guidelines repository which includes guidelines sourced from the National Guidelines Clearinghouse, American College of Emergency Medicine, Canadian Medical Association-Clinical Practice Guidelines and National Institute of Health and Clinical Excellence Guidelines.

The search strategy will include the following MeSH terms “Craniocerebral Trauma”, “Brain injury”, “Practice Guideline” [Publication Type] and “Evidence-Based Medicine” The search terms will be adapted for use with other bibliographic databases There will be no language or date restrictions. A reference and citation analysis will be perfomed using Google Scholar, Web of Science and a manual search of references where appropriate.

Types of study to be included
No restrictions on the types of study design eligible for inclusion

Condition or domain being studied
Management of acute traumatic brain injury.

Participants/population
Children (0-18 years) with acute traumatic brain injury.

Intervention(s), exposure(s)
The Institute of Medicine defines clinical practice guidelines as "statements that include recommendations intended to optimize patient care that are informed by a systematic review of evidence and an assessment of the benefits and harms of alternative care options." The intention of this systematic review is to evaluate the quality of clinical practice guidelines for the management of acute traumatic brain injury in children.

The inclusion criteria for articles were the following: abstracts must mention either (clinical) recommendations, (clinical) practice guidelines or treatment guidelines for the acute management of TBI(within 24 hours). Articles or guidelines must be published between 1995 to November 11th, 2016 and must include the pediatric population or a pediatric subpopulation.

Exclude literature reviews, opinion papers or editor’s letters and articles or guidelines published prior to 1995. Only the newest versions of the CPGs will be included for review, if multiple editions are available. All levels of TBI severity are to be included in this review.

Comparator(s)/control
None
Primary outcome(s)
This review aims to identify, as best as possible, the available published clinical practice guidelines for the management of acute traumatic brain injury in children with the intended goal of assessing the quality of the development of the guidelines.

Secondary outcome(s)
None

Data extraction (selection and coding)
Four reviewers will independently extracted general characteristics of the CPGs. The information obtained included the following: year of publication, year updated (if multiple versions available), country of guideline development and world bank income delineation of the country, the institution or organization responsible for guideline development and the type of group responsible for the development of the guideline, specific descriptors including professional, academic, non-profit, international provided. Additionally, the focus of the guideline whether prehospital care, early management, imaging, ICU care will be extracted. indicated. The patient population, if present and severity of brain injury reported in the guideline will also be extracted. Discrepancies will be resolved by a fifth reviewer

Risk of bias (quality) assessment
The risk of bias will not be assessed in this study but the quality of the included clinical practice guidelines will be assessed using the AGREE II instrument, the current gold standard for assessing the quality of clinical practice guidelines.

Strategy for data synthesis
The data will be summarized descriptively

Analysis of subgroups or subsets
None

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Organisational affiliation of the review
None
None

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Conflicts of interest
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English

Country
United States of America

Stage of review
Ongoing

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Subject indexing assigned by CRD

Subject index terms
Brain Injuries, Traumatic; Child; Humans; Pediatrics

Date of registration in PROSPERO
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Stage of review at time of this submission

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Versions
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