Article title: Neurotrauma Surveillance in National Registries of Low and Middle-Income Countries: A Scoping Review and Comparative Analysis of Data Dictionaries

Journal name: International Journal of Health Policy and Management (IJHPM)

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Supplementary file 1

Table S1. Summary of Neurotrauma-Specific Data Elements From All Studies Included After Systematic Scoping Review and Non-Random Sampling

| Country, WHO Region | World Bank Income Status (2020) | Neurotrauma Specific Data Elements |
|---------------------|--------------------------------|-----------------------------------|
| Cameroon, Africa³¹  | Lower middle income country (L-MIC) | AIS: Head & Neck (1-5); AVPU score, GCS/AVPU qualifier; C-collar in place?; Complications: Seizures (the day of admission to hospital, the day after surgery: yes/no), seizure treatment given in form of medicine? No seizure treatment: Why?; ER Head CT; Follow-up: Head/Neck trauma, GCS, GOS at discharge; Head/Neck severity ICU: Anti-seizure prophylaxis, Seizures (If yes, how many hours?); ICU: C-Spine X rays; ICU: Head CT; ICU: C-Spine CT; |
| Location                        | Anatomic Site | Injury Severity | Disposition/Outcome | Cause/Location |
|--------------------------------|---------------|-----------------|---------------------|----------------|
| China NISS, Western Pacific 14-15, 32 | Upper-middle-income-country (UMIC) | Anatomic site of injury including head, neck, TBI; “Body part injured: nervous system”; Disposition/Outcome; Mechanism / cause of injury | Injury severity (ISS, minor/ moderate/severe) |
| Colombia, Americas (personal contact with Andres Rubiano) | UMIC | AIS: Head & Neck (1-5); Discharge AIS: Head and Neck (1-5); ER Head CT; C-Spine CT; GCS (if head injury); GCS, GOS at discharge; ICU: Anti-seizure prophylaxis, Seizures (If yes, how many hours?); ICU: C-Spine CT; ICU: C-Spine X rays; ICU: Head CT; ICU: Minimum, Maximum GCS of day; ICU: Neuromonitoring; ICU: Pupil Reactivity (For Right and Left Pupils); Injured Part of the Body: Head, Spine; Observation of Head/CNS; Pre-hospital GCS; Pupil reactivity at ER; Surgical re-intervention; Survival Status: GOS at 3, 6, 12 months |
| Egypt, Eastern Mediterranean 27 | L-MIC | Mechanism / cause of injury |
| Fiji, Western Pacific 16-18 | UMIC | Anatomic site of injury including head, neck, TBI; Disposition/Outcome; |
| Location | Database | Required Information |
|----------|----------|----------------------|
| India, South-East-Asia | L-MIC | AIS: Head & Neck (1-5); ER Head CT; GCS (if head injury); History of consciousness; If applicable: Use of Helmet; Injured Part of the Body: Head, Spine; Surgical treatment received; Type of Surgery Performed |
| Iran INTRD, Eastern Mediterranean | UMIC | Disposition /Outcome; Glasgow Coma Scale; ICD-9 or 10 Code; Injury severity (ISS, minor/moderate/severe); Mechanism/cause of injury Spinal Injury score/characteristics* (ASIA, etc); Spine injury; Use of helmet; Use of seatbelt |
| Iran NSCIR-IR, Eastern Mediterranean | UMIC | “Body part injured: nervous system”; Anatomic site of injury including head, neck, TBI; Complications after treatment of spine injury; CSF fluid out of the wound; Disposition/Outcome; Glasgow Coma Scale; ICD-9 or 10 Code; Mechanism / cause of injury Mentions neurosurgery department or intracranial surgery; Spinal Injury score/characteristics* (ASIA, etc); Spinal surgery; Spine injury; Use of helmet; Use of seatbelt; |
| Jamaica ISS, Americas | UMIC | Mechanism / cause of injury; Substance use; Use of helmet |
| Country; Region | Publication | Data Source | Key Epidemiological Information |
|----------------|-------------|-------------|--------------------------------|
| Jamaica NTR, Americas<sup>25</sup> | | | Injury severity (ISS, minor/moderate/severe); Glasgow Coma Scale; Glasgow Outcome Scale at discharge; Head/Brain imaging; Mechanism/cause of injury |
| Malaysia, Western Pacific<sup>26, 34</sup> | UMIC | Anatomic site of injury including head, neck, TBI; Disposition/Outcome; Glasgow Coma Scale; Head/Brain imaging; Spinal surgery; Injury severity (ISS, minor/moderate/severe); Mechanism/cause of injury; Mentions neurosurgery department or intracranial surgery; Spinal Injury score/characteristics* (ASIA, etc); Urgent surgery (< 24h); |
| Mexico<sup>30</sup> | UMIC | Affected anatomy: head, neck, spinal column, back and gluteal region; Major sequelae: contusion, fracture, “depression” = (mechanical) depression, scars; Protective equipment: helmet, seatbelt |
| Myanmar, South-East-Asia<sup>35</sup> | L-MIC | History of consciousness; If applicable: Use of Helmet; Injured Part of the Body: Head, Spine; Outcome |
| Pakistan, Eastern Mediterranean<sup>28, 36</sup> | L-MIC | Disposition/Outcome; Glasgow Coma Scale; Head/Brain imaging; Mechanism/cause of injury |
| Rwanda, Africa<sup>29</sup> | Low income country | Anatomic site of injury including head, neck, TBI; Disposition/Outcome; Glasgow Coma Scale; Injury severity (ISS, minor/moderate/severe); Mechanism / cause of injury; Spine injury |
| Thailand, South-East-Asia<sup>37</sup> | UMIC | History of consciousness; If applicable: Use of Helmet; Injured Part of the Body: Head, Spine; Observation of Head/CNS; Outcome |
Search Query Used for Literature Review

country*[tiab] OR nation*[tiab] OR sovereign*[tiab] OR royal*[tiab] OR imperial*[tiab] OR public*[tiab] OR state*[tiab] OR civil*[tiab] AND (trauma*[tw] OR injur*[tw]) AND (regist*[tiab] OR databank*[tiab] OR database*[tiab]) AND ("developing countries"[mesh] OR developing countr*[tiab] OR developing nation*[tiab] or less
developed countr*[tiab] or less developed nation*[tiab] or third world nation*[tiab] or third world countr*[tiab] or under
developed nation*[tiab] or underdeveloped nation*[tiab] or under developed countr*[tiab] or underdeveloped
nation*[tiab] or middle income countr*[tiab] or middle income nation*[tiab] or low income countr*[tiab] or low
income nation*[tiab] or poor countr*[tiab] or poor nation*[tiab] OR lmic*[tiab] or lmic*[tiab] or "africa"[mesh] or
"asia"[mesh] or "south america"[mesh] or "latina americ*a"[mesh] or "central america"[mesh] or afric*[tiab] or
asia*[tiab] or south america*[tiab] or latin america*[tiab] or central america*[tiab] or afghanistan*[tiab] or
albania*[tiab] or algeria*[tiab] or angola*[tiab] or armenia*[tiab] or argentin*[tiab] or azerbai jan*[tiab] or bangladesh*[tiab] or belgia*[tiab] or belarus*[tiab] or belize*[tiab] or benin*[tiab] or bhutan*[tiab] or bolivia*[tiab] or bosnia*[tiab] or herzegovina*[tiab] or botswana*[tiab] or brazil*[tiab] or
bulgaria*[tiab] or burkina faso*[tiab] or burundi*[tiab] or cabo verd*[tiab] or cape verd*[tiab] or cambodia*[tiab] or
cameroon*[tiab] or central african*[tiab] or Chad*[tiab] or china*[tiab] or china*[tiab] or colombia*[tiab] or
comoros*[tiab] or congo*[tiab] or costa rica*[tiab] or cote d ivoire*[tiab] or ivory coast*[tiab] or croatia*[tiab] or
cuba*[tiab] or cuban*[tiab] or djibouti*[tiab] or dominica*[tiab] or ecuador*[tiab] or egypt*[tiab] or el salvador*[tiab]
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or kenya*[tiab] or kiribati*[tiab] or democratic people's republic of korea*[tiab] or north korea*[tiab] or kosovo*[tiab]
or kosova*[tiab] or kyrgyz*[tiab] or lao*[tiab] or laos*[tiab] or laotian*[tiab] or lebanon*[tiab] or lebanes*[tiab] or
lesotho*[tiab] or liberia*[tiab] or libya*[tiab] or macedonia*[tiab] or madagascar*[tiab] or malawi*[tiab] or
malaysia*[tiab] or maldives*[tiab] or mal[tia*b] or malian*[tiab] or marshall island*[tiab] or mauritania*[tiab] or
mauriti*[tiab] or mexico*[tiab] or mexican*[tiab] or micronesia*[tiab] or moldova*[tiab] or mongolia*[tiab] or
montenegro*[tiab] or morocco*[tiab] or mozambique*[tiab] or myanmar*[tiab] or burmese*[tiab] or burma*[tiab] or
namibia*[tiab] or nauру*[tiab] or nepal*[tiab] or nicaragua*[tiab] or niger*[tiab] or pakistan*[tiab] or palau*[tiab] or
panama*[tiab] or paraguay*[tiab] or peru*[tiab] or philippin*[tiab] or romania*[tiab] or rwanda*[tiab] or
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leone*[tiab] or solomon island*[tiab] or somalia*[tiab] or south africa*[tiab] or sri lanka*[tiab] or st lucia*[tiab] or
saint lucia*[tiab] or st vincent*[tiab] or saint vincent*[tiab] or grenadines*[tiab] or sudan*[tiab] or suriname*[tiab]
or swaziland*[tiab] or syria*[tiab] or tajik*[tiab] or tanzania*[tiab] or thai*[tiab] or thailand*[tiab] or timor*[tiab] or
togo*[tiab] or tonga*[tiab] or tunisia*[tiab] or turkey*[tiab] or turkisch*[tiab] or turkmen*[tiab] or tuvalu*[tiab] or
uganda*[tiab] or ukrain*[tiab] or uzbeki*[tiab] or vanuatu*[tiab] or venezuela*[tiab] or vietnam*[tiab] or viet
nam*[tiab] or west bank*[tiab] or gaza*[tiab] or palestin*[tiab] or yemen*[tiab] or zambia*[tiab] or zimbabwe*[tiab])