Appendix. *Guideline Reference Matrix*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Study** | Carney 2014 | Giza 2013 | Harmon 2019 | Herring 2021 | Herring 2011 | Lumba-Brown 2018 | Marshall 2015 | McCrory 2017 | Silvervberg 2020 | West 2014 | World Health 2004 |
|  | **Diagnostic guideline** |  |  |  |  |  |  |  |  |  |  |  |
| 1 | Warnings/ Red Flags reported |  |  |  |  | 3 |  | 3 | 3 | 3 | 3 |  |
| 2 | Glasgow Coma Scale |  | 3 |  |  |  | 3 | 3 |  | 3 |  | 1 |
| 3 | Head Trauma Physical Examination |  |  | 3 | 3 |  |  | 3 | 3 | 3 | 3 |  |
| 4 | Likely MoI | 3 |  | 3 |  | 3 | 2 | 3 | 3 | 3 |  | 1 |
| 5 | Alteration of Consciousness or Memory | 3 | 3 | 3 | 1 | 3 |  | 1 |  |  | 3 | 1 |
| 6 | Loss of Consciousness < 20 min. |  |  |  |  |  |  |  |  |  |  | 1 |
| 7 | Post Trauma Amnesia < 24 hours |  |  |  |  |  |  |  |  |  |  | 1 |
| 8 | Cervical Spine Exam |  |  |  | 1 | 3 |  | 1 |  | 3 | 3 |  |
| 9 | Diagnosis <48 hrs |  | 3 | 3 | 1 | 3 | 3 | 1 | 3 | 1 |  |  |
| 10 | Health History |  | 3 | 3 | 1 | 3 | 2 | 1 | 3 | 3 | 3 |  |
| 11 | Concussion Symptom Screening |  |  | 3 | 1 | 3 | 3 | 1 | 3 | 3 | 3 | 1 |
| 12 | Neurological Exam | 3 | 2 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |  |
| 13 | Confounding Factors | 3 |  | 3 |  |  | 3 | 3 | 3 | 3 | 3 | 1 |
| 14 | SAC (sports only) |  | 3 | 3 | 3 | 3 |  | 3 | 3 | 3 | 3 |  |
| 15 | mBESS (sports only) | 3 | 3 |  | 3 |  | 3 | 3 |  |  | 3 |  |
| 16 | Care Plans provided |  | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |  |
|  | **Notes:** (1)- Consistent and broad evidence in support, (2)- Inconsistent or limited evidence, (3)- Expert consensus; Blank - no data or not mentioned; MoI-Mechanism of injury; AOC – Alteration of consciousness; PTA - Post-traumatic amnesia; LOC – Loss of consciousness; sports only – recommendation for sports-related concussions, not necessarily general mTBI. | | | | | | | | | | |  |

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