

SUPPLEMENTARY MATERIAL

Supplementary Table 1. Characteristics of studies included for the current systematic review on the global south

| Author (year) | Country | Study design | Sampling Method | Age range (in years) | Sample Size | Screening Tool | Positive case, n (%) | Time since injury |
|---|---------|-----------------|-----------------|----------------------|--------------------------|---|---|---------------------|
| Hoofien et al. (2001) ^{45 *} | Israel | Cross-sectional | Convenience | 23-62 | 76 F = 13 M = 63 | SCL-90-R, PTSD Inventory | Depression = 34 (45.3%); Anxiety = 33 (43.8%); OCD = 23 (29.7%); PTSD (<i>n</i> = 68) = 7 (10.3%) | Mean = 14.1 years |
| Groswasser et al (2018) ^{51 *} | Israel | Cross-sectional | Convenience | 18-68 | 128 F = 32 M = 96 | HADS | Depression = 85 (66.4%) Anxiety = 81 (63.3%) | 3 months – 15 years |
| Fakharian et al. (2015) ^{50 *} | Iran | Cross-sectional | Convenience | 15-65 | 286 F = 58 M = 228 | BSI (short version of the SCL-90-R) | Depression = 55 (19%) | NA |
| Shafiei et al. (2016) ^{54 *} | Iran | Case-control | Convenience | 15-65 | 50 F = 20 M = 80 | BSI (short version of SCL-90-R) | OCD = 21 (42%); Depression = 17 (34%); Anxiety = 18 (36%); | NA |
| Ramezani et al. (2018) ^{53 *} | Iran | Longitudinal | Convenience | 18-65 | 146 F = 33 M = 113 | HADS MMSE PTSWDS | Anxiety = 43(29.45%); Depression = 20(13.69%); Cognitive decline = 73(50%) TBI-SD = 51 (34.93%) | 6 months |
| Chabok et al. (2012) ^{49 *} | Iran | Cross-sectional | Convenience | 18-65 | 60 F = 5 M = 55 | MMSE | Global Cognitive decline = 18 (30%) | Mean = 1 week |
| Rezaei et al. (2014) ^{52 *} | Iran | Longitudinal | Convenience | 18-85 | 155 NA | Clinical impression based on DSM-IV GHQ-28 | Anxiety = 31 (20%); Mood disorder = 50 (32.26%); TBI-SD = 30 (19.34%) | 4 months |
| Al-Adawi et al. (2007) ^{37 *} | Oman | Cross-sectional | Convenience | 22-50 | 68 F=21 M=47 | CIDI | Anxiety: 34 (50%) Depression: 39 (57.4%) | Mean = 18.2 |
| Al-Adawi et al. (2004) ^{43 *} | Oman | Cross-sectional | Convenience | 26-35 | 80 F=27 M=53 | CIDI | Depression: 37 (46.3%) | Mean = 8.3 months |
| Fourtassi et al. (2011) ⁶⁵ | Morocco | Cross-Sectional | Convenience | 64-18 | 42 F = 5 M = 37 | PCL | PCS = 23 (54.8%) | Mean = 15 months |
| Panwar et al. (2019) ^{46 *} | India | Cross-Sectional | Convenience | < 40 vs >40 | 228 F=47 M=181 | MoCA | Global cognitive decline =191(83%) | NA |
| Devi et al. (2020) ^{44 *} | India | Cross-Sectional | Consecutive | 19-67 | 50 F=12 M=38 | MMSE NPI-Q | Cognitive decline: 18 (36%); Depression: 12 (24%); Anxiety: 9 (18%); | NA |
| Dade et al. (2019) ^{48 *} | India | Prospective | Convenience | 15-45 | 187 F=23 M=164 | MINI PLUS | Depression = 36 (19.3%) Anxiety = 18 (9.6%) PTSD = 15 (8%) OCD = 1 (0.5%) | 3 months |
| Sharma et al. (2015) ^{47 *} | India | Cross-Sectional | Convenience | 18-70 | 204 F=45 M=159 | GAD-7 | Anxiety: 24 (11.76%) | NA |
| Singh et al. (2021) ^{64 *} | India | Cross-Sectional | Convenience | 0-80 | 134 F=48 M=86 | MMSE | Global cognitive decline = 76 (56.7%); | NA |
| Nyidol et al. (2017) ⁶⁶ | India | Cross sectional | Convenience | NA | 100 F=12 M=88 | Overt Aggression Scale | Aggression: 55 (55%) | NA |
| Jain et al. (2014) ^{63 *} | India | Cross-Sectional | Convenience | 18-70 | 204 F=42 M=162 | ISI, PHQ-9 | TBI-SD: 82 (40.2%) Depression: 67 (32.84%) | 1 year |
| Keshavan et al. (1981) ^{55 *} | India | Cross-sectional | Random | 15-55 | 60 F=5 M=55 | Semi-structured interview | Depression = 2 (3%) | 3 months |

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| Seth et al. (2021) ⁶⁷ | India | Cross-sectional | NA | 30–55 | 30 F=0 M=30 | Rey–Osterrieth Complex Figure Test (ROCFT) Symbol Digit Modality Test (SDMT) | ROCFT = 31.7 ± 3.21 SDMT = 45.7 ± 1.2 | NA |
| Sinha et al. (2013) ⁵⁶ * | India | Cross-sectional | Consecutive | 20–46 | 77 F=10 M=67 | Postgraduate Institute Memory Scale | Global Cognitive decline = 45 (58.5%) | 1 year |
| Varghese et al. (2018) ⁶² * | India | Cross-sectional | Consecutive | 18–60 | 154 F=102 M=52 | Hamilton Rating Scale for Depression | Depression = 111 (72%) | >3 months |
| Madaan et al. (2021) ⁵⁷ * | India | Cross-sectional | Convenience | 6–16 years | 74 F=22 M=52 | Children's Sleep Habits Questionnaire | TBI-SD = 6 (12.3%) | 3 months |
| Dhakal et al. (2022) ⁵⁸ * | Nepal | Prospective | Consecutive | 18–73 | 97 F=20 M=77 | DASS | Depression = 30 (31.3 %) Anxiety = 9 (9.4%) Stress = 19 (19.8%) | NA |
| Sameh et al. (2021) ⁶¹ * | Tunisia | Cross-sectional | All patients | Above 15 | 50 F=10 M=40 | MMSE HADS | Global cognitive decline = 24 (48%) Depressive symptoms = 32 (64%), Anxiety symptoms = 20 (40%) | NA |
| Bedaso et al. (2018) ⁶⁸ | Ethiopia | Cross sectional | All patients | Above 18 | 275 F=114 M=161 | Rivermead Post- Concussion Symptoms Questionnaire | Post-concussion syndrome = 114 (41.5%) | 1 week — 1 month |
| Nuhu & Yusuf (2012) ⁵⁹ * | Nigeria | Cross-sectional | All patients | NA | 75 F=7 M=68 | Clinical impression based on ICD- 10 and DSM-IV | Observational based Global Cognitive decline = 25.3% (n=19) Depression = 5 (6.7%) | NA |
| Bangirana et al. (2019) ⁶⁰ * | Uganda | Prospective cohort | NA | 1–69 | 171 F = 29 M = 142 | Cogstate computer- administered neuropsycholog ical test battery PCL-C Self-Reporting Questionnaire (depression) | Neurocognitive impairment = 49 (28.4%) PTSD = 75 (43.9%), Depression = 95 (55.4%) | 6 months |

* studies have been included in the meta-analysis; All studies were conducted in the hospital setting; NA = Not available; SCL-90-R = Symptom checklist 90, revised; PTSD = Post Traumatic stress disorder; GSI = Global Severity Index; SF-36 = 36-Item Short Form Health Survey; HADS = Hospital Anxiety and Depression Scale; BSI = Brief Symptom Inventory; TBI-SD = TBI-related sleep disturbances; OCD = Obsessive compulsive disorder; EF = Executive function; MMSE = Mini-Mental State Exam; PTSWDS = Post-Traumatic Sleep-Wake Disturbances Scale; PSQI = Pittsburg sleep quality index; ISI = insomnia severity index; ESS = Epworth sleepiness scale; DSM-IV = Diagnostic and statistical manual of mental disorders; GHQ-28 = General Health Questionnaire; DASS = Depression, anxiety, stress scale; CIDI = Composite International Diagnostic Interview; PCS = Post Concussive Symptoms; PCL = Problem Checklist from New York Head Injury Family Interview; MoCA = Montreal Cognitive Assessment; NPI-Q = Neuropsychiatric inventory questionnaire; MINI PLUS = Mini-International Neuropsychiatric Interview; GAD-7 = General Anxiety Disorder-7; ROCFT = Rey-Osterrieth Complex Figure Test; SDMT = Symbol Digit Modality Test; PHQ-9 = Patient health questionnaire – 9; ICD-10 = International Classification of Diseases; PCL-C = PTSD Checklist – Civilian Version.

22 **Supplementary Figure 1.** The PRISMA flow diagram describing the systematic review proces



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