Table 2. Synthesis of results for diagnostic interventions

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **First author and year of publication of review** | **Studies (n)**  (RCT; prospective;  retrospective; other) | **Patients**  **(n)** | **AMSTAR-2**† | **Patients with primary outcome (%)** | **Heterogeneity**  χ2, **Q or I2** | **Reported risk of bias in original studies** |
| **Head CT in adults with acute mild TBI at low-risk on a validated clinical decision rule** | | | | | | |
| Intracranial injury | | | | | | |
| Pandor et al. 2011  *CCHR (high risk criteria)*  *CHIP*  *New Orleans Criteria*  *NEXUS-II* | 0; 5; 1; 0  0; 1; 0; 0  0; 5; 1; 0  0; 2; 0; 0 | 17,152  3,181  13,334  21,683 | Moderate | 0 to 4.52%\*, 1  1.21%\*, 1  0 to 2.89%\*, 1  0.46 to 0.90%\*, 1 | NA | #studies ≥ 70% items  0/6  0/1  0/6  0/2 |
| **Routine repeat head CT in absence of neurological deterioration in adults with acute mild complicated TBI¥** | | | | | | |
| Progression of intracranial traumatic hemorrhage on repeat CT | | | | | | |
| Stippler et al. 2012 | 0; 8; 7; 4 | 1,630 | Critically low | 19.9%2 | NR | Low: 0/19 |
| Almenawer et al. 2013 | 0; 8; 4; 0 | 2,120 | Critically low | 22.4%2 | NR | Moderate to high |
| Marincowitz et al. 2018 | 0; 2; 12; 0 | NR | Critically low | 20.4% (14.7-26.7)3 | I2=97.9% | NR |
| **Routine repeat head CT in absence of neurological deterioration in adults with acute mild TBI on anticoagulant or antiplatelet therapy‡** | | | | | | |
| Delayed intracranial hemorrhage | | | | | | |
| Chauny et al. 2016 | 0; 3; 4; 0 | 1,594 | Critically low | 0.6% (0.0-1.2)3 | NR | Low, moderate: 2/7 |

AMSTAR, Assessing the Methodological Quality of Systematic Reviews; CCHR, Canadian CT Head Rule; CHIP, CT in Head Injury Patients; CI, confidence intervals; CT, computed tomography; NA, not applicable; NEXUS-II, the National Emergency X-Radiography Utilisation Study II; NR, not reported; P, proportion; RCT, randomized controlled trials; TBI, traumatic brain injury

†Interpretation of AMSTAR-2: High: no or one non-critical weakness, Moderate: more than one non-critical weakness, Low: one critical flaw with or without non-critical weaknesses, Critically low: more than one critical flaw with or without non-critical weaknessess

**\***False omission rate, calculated as «1 – negative predictive value (i.e., true negatives / [true negatives + false negatives])»

¥Mild TBI with abnormal initial head CT

‡Mild TBI with normal initial head CT

1Range of values from included studies

2Pooled estimate from included studies (CI not reported)

3Pooled estimate from included studies (CI reported)