Supplemental Digital Content 4. Quality of systematic reviews according to Assessing the Methodological Quality of Systematic Reviews (AMSTAR) – 2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Item**  **Study** | **#1** | **#2** | **#3** | **#4** | **#5** | **#6** | **#7** | **#8** | **#9** | **#10** | **#11** | **#12** | **#13** | **#14** | **#15** | **#16** | **Rating** |
| **Head computed tomography** | | | | | | | | | | | | | | | | | |
| Pandor 2011 | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | 🗶 | NA | ✓ | ✓ | ✓ | NA | ✓ | Moderate |
| Easter 2015 | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | Critically low |
| **Repeat head computed tomography** | | | | | | | | | | | | | | | | | |
| Stippler 2012 | ✓ | 🗶 | 🗶 | ✓ | ✓ | 🗶 | 🗶 | 🗶 | ✓ | 🗶 | 🗶 | 🗶 | 🗶 | 🗶 | 🗶 | ✓ | Critically low |
| Almenawer 2013 | ✓ | 🗶 | 🗶 | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | 🗶 | 🗶 | 🗶 | 🗶 | ✓ | Critically low |
| Reljic 2014 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | Low |
| Chauny 2016 | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | 🗶 | ✓ | ✓ | 🗶 | 🗶 | Critically low |
| Marincowitz 2016 | ✓ | ✓ | ✓ | ✓ | ✓ | ? | ✓ | ✓ | ✓ | 🗶 | ✓ | 🗶 | 🗶 | ✓ | 🗶 | ✓ | Critically low |
| **Plasma transfusion** | | | | | | | | | | | | | | | | | |
| Yang 2012 | ✓ | ✓ | ✓ | ✓ | ✓ | ? | 🗶 | ✓ | ✓ | 🗶 | ✓ | 🗶 | ✓ | NA | NA | ✓ | Moderate |
| **Platelet transfusion** | | | | | | | | | | | | | | | | | |
| Nishijima 2012 | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | NA | 🗶 | 🗶 | 🗶 | 🗶 | 🗶 | Critically low |
| Kumar 2015 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | Moderate |
| Leong 2015 | ✓ | 🗶 | ✓ | ✓ | ✓ | ? | 🗶 | ✓ | ✓ | 🗶 | ✓ | 🗶 | ✓ | ✓ | 🗶 | 🗶 | Critically low |
| **Antibiotic prophylaxis** | | | | | | | | | | | | | | | | | |
| Ratilal 2010 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | High |
| Ratilal 2015 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | Moderate |
| **Antiseizure prophylaxis** | | | | | | | | | | | | | | | | | |
| Temkin 2001 | ✓ | 🗶 | 🗶 | ✓ | 🗶 | 🗶 | 🗶 | ✓ | 🗶 | 🗶 | ✓ | 🗶 | 🗶 | 🗶 | 🗶 | ✓ | Critically low |
| Chang 2003 | ✓ | 🗶 | ✓ | ✓ | ? | ? | 🗶 | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | 🗶 | 🗶 |  | Critically low |
| Teasell 2007 | ✓ | 🗶 | 🗶 |  | ? | ? | 🗶 | ✓ | ✓ | 🗶 | NA | ✓ | ✓ | 🗶 | 🗶 | ✓ | Critically low |
| Thompson 2015 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | Moderate |
| Wilson 2018 | ✓ | 🗶 | 🗶 | ✓ | ✓ | ? | 🗶 | ✓ | ✓ | 🗶 | ✓ | 🗶 | ✓ | 🗶 | 🗶 | ✓ | Critically low |
| **Neuromuscular blocking agents** | | | | | | | | | | | | | | | | | |
| Sanfilippo 2015 | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | 🗶 | NA | 🗶 | 🗶 | ✓ | 🗶 | ✓ | Critically low |
| **Hypothermia** | | | | | | | | | | | | | | | | | |
| Harris 2002 | ✓ | 🗶 | ✓ | ✓ | ✓ | ? | 🗶 | ✓ | ✓ | 🗶 | ✓ | 🗶 | 🗶 | 🗶 | ✓ | 🗶 | Critically low |
| Henderson 2003 | ✓ | 🗶 | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | 🗶 | ✓ | 🗶 | 🗶 | ✓ | ✓ | 🗶 | Critically low |
| McIntyre 2003 | ✓ | 🗶 | ✓ | ✓ | ? | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Low |
| Bratton 2007 | ✓ | 🗶 | ✓ | ✓ | ? | ? | ✓ | ✓ | ? | 🗶 | ✓ | 🗶 | ✓ | ✓ | 🗶 | 🗶 | Critically low |
| Peterson 2008 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | 🗶 | 🗶 | Low |
| Sydenham 2009 | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | 🗶 | 🗶 | ✓ | Low |
| Fox 2010 | ✓ | ✓ | ✓ | ✓ | 🗶 | 🗶 | 🗶 | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Moderate |
| Lu 2012 | ✓ | 🗶 | ✓ | ✓ | ✓ | ? | 🗶 | ✓ | 🗶 | 🗶 | NA | 🗶 | 🗶 | 🗶 | 🗶 | ✓ | Critically low |
| Georgiou 2013 | ✓ | 🗶 | ✓ | ✓ | ? | ? | 🗶 | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | Low |
| Crossley 2014 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | High |
| Li 2014 | ✓ | 🗶 | ✓ | ✓ | ? | ✓ | 🗶 | ✓ | 🗶 | 🗶 | ✓ | 🗶 | 🗶 | ✓ | ✓ | ✓ | Critically low |
| Saxena 2014 | ✓ | ✓ | ✓ | ✓ | ✓ | NA | ✓ | NA | NA | NA | NA | NA | NA | NA | NA | ✓ | NA |
| Zhu 2016 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Moderate |
| Crompton 2017 | ✓ | 🗶 | 🗶 | ✓ | ? | ? | ? | ✓ | 🗶 | 🗶 | ✓ | 🗶 | 🗶 | 🗶 | ✓ | ✓ | Critically low |
| Dunkley 2017 | ✓ | 🗶 | 🗶 | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | NA | 🗶 | 🗶 | 🗶 | 🗶 | 🗶 | Critically low |
| Leng 2017 | ✓ | 🗶 | 🗶 | 🗶 | 🗶 | ✓ | 🗶 | ✓ | 🗶 | 🗶 | ✓ | 🗶 | 🗶 | 🗶 | 🗶 | 🗶 | Critically low |
| Zang 2017 | ✓ | 🗶 | ✓ | ✓ | ✓ | ? | 🗶 | ✓ | ✓ | 🗶 | ✓ | 🗶 | 🗶 | ✓ | ✓ | ✓ | Critically low |
| Olah 2018 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Moderate |
| Watson 2018 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | Low |
| **Decompressive craniectomy** | | | | | | | | | | | | | | | | | |
| Barthelemy 2016 | 🗶 | 🗶 | ✓ | ✓ | ✓ | 🗶 | 🗶 | ✓ | ✓ | 🗶 | 🗶 | 🗶 | 🗶 | 🗶 | 🗶 | ✓ | Critically low |
| Wang 2016 | ✓ | 🗶 | ✓ | ✓ | ✓ | 🗶 | 🗶 | ✓ | ✓ | 🗶 | ✓ | 🗶 | 🗶 | 🗶 | 🗶 | ✓ | Critically low |
| Abraham 2017 | 🗶 | 🗶 | ✓ | ✓ | ✓ | 🗶 | 🗶 | ✓ | 🗶 | 🗶 | NA | NA | 🗶 | 🗶 | NA | ✓ | Critically low |
| Zhang 2017 | 🗶 | 🗶 | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | 🗶 | 🗶 | 🗶 | ✓ | ✓ | Critically low |
| Tsaousi 2018 | ✓ | ✓ | ✓ | ✓ | ✓ | 🗶 | 🗶 | ✓ | ✓ | 🗶 | ✓ | 🗶 | 🗶 | 🗶 | ✓ | ✓ | Critically low |
| Fatima 2019 | ✓ | 🗶 | ✓ | 🗶 | 🗶 | 🗶 | 🗶 | ✓ | ? | 🗶 | ? | 🗶 | 🗶 | 🗶 | 🗶 | ✓ | Critically low |
| Lu 2019 | ✓ | 🗶 | ✓ | ✓ | ✓ | ✓ | 🗶 | ✓ | ✓ | 🗶 | ✓ | 🗶 | 🗶 | 🗶 | ✓ | ✓ | Critically low |

Items 2, 4, 9, 11, 13 and 15 are considered as critical flaws.

NA, not applicable; P, partial; ?, unclear

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