**Supplement Table 1.** Risk of bias assessment using Newcastle Ottawa Scale

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **Quality assessment criteria** | | | | | | | | **†Overall risk of bias** |
| **Selection** | | | **Comparability** | | **Outcome** | | |
| Representativeness of exposed cohort (stroke)? | Ascertainment of Exposure (stroke)? | Demonstration that outcome of interest was not present at start of study? | Study controls (TICI-3) for age/sex? | Study controls (TICI-3) for at least 3 additional risk factors? | Assessment of Outcome (mRS or NIHSS)? | Was follow-up long enough for outcome to occur? | Adequacy of follow-up of cohorts? |
| **Acceptable (\*)** | | | **Acceptable (\*)** | | **Acceptable (\*)** | | |
| Representative of average adult in community (age/sex/being at risk of stroke) | Secured records, Structured interview | No or only incident cases of mRS ≤2 at day 90 or NIHSS ≤5 at discharge at start of study | Yes | HTN, DM, Smoking, Hyperlipidemia, CAD | Independent blind assessment, record linkage | Follow-up ≥90 days for mRS or at discharge for NIHSS | Complete follow-up, or subjects lost to follow-up unlikely to introduce bias |
| ***Roth et al, 20101*** | \* | \* | \* | \* | - | \* | \* | \* | Low |
| ***Wehrschuetz et al, 20112*** | \* | - | \* | \* | - | - | \* | \* | Medium |
| ***Almekhlafi et al, 20143*** | \* | \* | \* | \* | - | \* | \* | \* | Low |
| **Goktekin et al, 20144** | \* | \* | \* | \* | \* | - | \* | \* | Medium |
| ***Turk et al, 20145*** | \* | \* | \* | \* | - | \* | \* | - | Low |
| ***Sung et al, 20156*** | \* | \* | \* | \* | \* | \* | \* | \* | Low |
| ***Tomsick et al, 20157*** | \* | \* | \* | \* | \* | \* | \* | \* | Low |
| ***Klinger-Gratz et al, 20158*** | \* | \* | \* | \* | - | \* | \* | \* | Low |
| ***Massari et al, 20159*** | \* | \* | \* | \* | - | - | \* | \* | Medium |
| ***Schmitz et al, 201610*** | \* | \* | \* | - | - | \* | \* | \* | Medium |
| ***Ahn et al, 201711*** | \* | \* | \* | \* | - | \* | \* | \* | Low |
| ***Carvalho et al, 201712*** | \* | \* | \* | \* | \* | - | \* | \* | Medium |
| ***Chamorro et al, 201713*** | \* | \* | \* | \* | \* | \* | \* | \* | Low |
| ***Dargazanli et al, 201714*** | \* | \* | \* | \* | \* | \* | \* | \* | Low |
| ***Dargazanli et al, 201715*** | \* | \* | \* | \* | \* | \* | \* | \* | Low |
| ***Imahori et al, 201716*** | \* | \* | \* | \* | \* | - | \* | \* | Medium |
| ***Kaesmacher et al, 201717*** | \* | \* | \* | \* | - | - | \* | \* | Medium |
| ***Kaesmacher et al, 201718*** | \* | \* | \* | \* | \* | - | \* | \* | Medium |
| ***Kleine et al, 201719*** | \* | \* | \* | \* | - | \* | \* | \* | Low |
| ***Prabhakaran et al, 201720*** | \* | \* | \* | \* | - | - | \* | \* | Medium |
| ***Dargazanli, et al, 201821*** | \* | \* | \* | \* | \* | \* | \* | \* | Low |
| **†**Overall risk of bias: *Low* (if it satisfies these 2 questions; 1. Study controls [TICI-3] for age/sex, and 2. Independent blind assessment, record linkage); *Medium* (if it satisfies only one of these 2 questions); or *High* (if it does not satisfy either of these 2 questions). | | | | | | | | | |

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