**Supplementary Figures**

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| --- | --- | --- |
| **Study** | **RISK OF BIAS** | **APPLICABILITY CONCERNS** |
| **PATIENT SELECTION** | **INDEX TEST** | **REFERENCE STANDARD** | **FLOW AND TIMING** | **PATIENT SELECTION** | **INDEX TEST** | **REFERENCE STANDARD** |
| Storey et al., 2004 | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Rowland et al, 2006 | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Basic et al, 2009a | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Basic et al, 2009b | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Ramos-Rios et al, 2009 | ☺ | ☺ | ? | ? | ☺ | ☺ | ☺ |
| Goncalves et al, 2011 | ☺ | ☺ | ☹ | ☺ | ☺ | ☺ | ☺ |
| Nielsen et al, 2013 | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Cheung et al, 2015 | ☹ | ? | ? | ? | ☺ | ☺ | ? |
| Radford et al, 2015 | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Mateos-Alvarez et al, 2017 | ☺ | ☺ | ☺ | ? | ☺ | ☺ | ☺ |
| Matias-Guiu et al, 2017  | ? | ? | ☺ | ? | ☺ | ☺ | ☺ |
| Goudsmit et al., 2018 | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ? |
| Nielsen et al, 2018a | ☺ | ? | ? | ☺ | ☺ | ☺ | ☺ |
| Nielsen et al, 2018b | ☺ | ☹ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Nielsen et al, 2019 | ☺ | ☹ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Iype et al., 2006 | ☹ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Limpawattana et al, 2012a | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Limpawattana et al, 2012b | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Shabaan et al, 2013 | ☺ | ☺ | ? | ☺ | ☺ | ☺ | ☺ |
| Chen et al, 2015 | ? | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Chaaya et al, 2016 | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Nielsen et al, 2016 | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| de Arauja et al, 2018 | ☹ | ☹ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Silpakit et al, 2018 | ☺ | ☺ | ☺ | ? | ☺ | ? | ☺ |
| Ayan et al, 2019 | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Custodio et al., 2019 | ? | ☺ | ☺ | ☺ | ☺ | ☺ | ? |

☺Low Risk ☹High Risk ? Unclear Risk

**Figure S1. Quality assessment of individual included studies using QUADAS-2**

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 Pooled estimate

 Predictions

**Figure S2. HSROC curve for the RUDAS with 95% confidence region and prediction region (number of studies = 21).**

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 Pooled estimate across settings

 Pooled estimate in HIC settings

 Pooled Estimate in LMIC settings

**Figure S3. HSROC curve for the RUDAS in HIC and LMIC with 95% confidence regions (number of studies = 21).**

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 Pooled estimate across samples

 Higher proportion with no education

 Lower proportion with no education

**Figure S4. HSROC curve for the RUDAS in samples with a higher and lower proportion of participants with no formal education with 95% confidence regions (number of studies = 21).**



Pooled estimate for dementia Pooled estimate for MCI

**Figure S5. HSROC curve for the RUDAS for MCI with 95% confidence region (number of studies = 5).**