**Supplementary Table 1. Quality assessment checklist**

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| **Quality criteria** | **Score** |
| **Type of study** |  |
| Cross-sectional, case-control | 1 |
| Cohort | 2 |
| **Exposure** |  |
| Explicitly defines ethnic density exposure | 1 |
| **Ethnicity** |  |
| Self-ascribed ethnicity | 1 |
| **Language of interview** |  |
| Language of interview in own language if English not preferred language | 1 |
| **Outcome** |  |
| Assessed with structured instrument | 1 |
| Validated instrument used to assess outcome | 1 |
| Reliable instrument used to assess outcome | 1 |
| Instrument validated in racial/ ethnic group | 1 |
| Outcome assessment blind to exposure status | 1 |
| **Sample size and power calculation** |  |
| n>500 | 1 |
| **Response rates** |  |
| For case-control/ cross-sectional studies – Response rates |  |
| >60% | 1 |
| For cohort studies – Rate of attrition compared to baseline |  |
| >60% | 1 |
| Response rates similar across racial/ ethnic groups or weighted to allow for differential non-response | 1 |
| **Methods** |  |
| Estimate available adjusted for area-level deprivation  Adjusts with one variable for area-level deprivation  Adjusts with composite measure of area-level deprivation | 1  2 |
| Appropriate statistical methods used (eg. multi-level modelling or robust standard errors to account for clustered data) | 1 |
| Cohort studies - Assesses dose-response | 1 |