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| **S4 Table. Quality of eligible studies for prevalent diabetes/ impaired glucose tolerance assessed by The Newcastle-Ottawa Quality Assessment Scale for cohort studies** |
| First author, year | Cooper,2000[27] | Pierce,2012[26] | Saquib, 2015 [18] | Heys,2007[32] | Lakshman,2008[19] | Akter,2012[33] | Dreyfus,2012[42] | Stockl,2012[28] | Qiu,2012[34] | Mueller,2014[43] | Baek,2015[35] | Day,2015[24] | Hwang,2015[36] | Lim,2015[37] | Cao,2016[21] | Won,2016[38] | Yang,2016[39] | Au Yeung,2017[13] | Farahmand,2017[30] | Petersohn,2019[45] |
| 1. Truly or somewhat representative of the general population
 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| 1. Selection of the non-exposed cohort from the same community as the exposed cohort
 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1. At least some description of assessment
 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 1. Demonstration that the outcome was not present at the start of study
 | 1 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 5a) Controls for age  | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5b) Controls for additional factors (ethnicity, diet, physical activity) | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| 1. Assessment of outcome – oral glucose tolerance test or record linkage
 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| 1. At least 5 years follow-up for outcomes to occur
 | 1 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1. Adequate ≥70% of original cohort
 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Total (max 7 or 9) | 5 | 5 | 6 | 6 | 5 | 6 | 6 | 6 | 7 | 6 | 7 | 5 | 6 | 6 | 6 | 5 | 5 | 7 | 6 | 6 |