**Supplementary Table S1** **Quality assessment of case-control studies, using the Newcastle-Ottawa Scale (NOS), in alphabetical order**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author year [Ref]** | **Selection** | | | | **Comparability** | | **Outcome/Exposure^** | | | **Total score/9** |
| Item 1 | Item 2 | Item 3 | Item 4 | Item 5a | Item 5b | Item 6 | Item 7 | Item 8 |
| Anderson, et al. 2009 [31] | \* | \* | \* | - | \* | \* | \* | \* | - | 7 |
| Anderson, et al. 2007 [32] | \* | \* | \* | \* | \* | \* | - | \* | - | 7 |
| Bahmanyar, et al. 2006 [33] | \* | \* | \* | - | \* | \* | \* | \* | \* | 8 |
| Bollschweiler, et al. 2002 [34] | \* | \* | \* | - | - | - | - | \* | - | 4 |
| Chen, et al. 2002 [35] | - | - | - | - | \* | \* | - | \* | - | 3 |
| Chen, et al. 2002 [36] | \* | \* | - | - | \* | \* | \* | \* | \* | 7 |
| Chen, et al. 2011 [37] | \* | \* | \* | \* | \* | - | - | - | - | 5 |
| Cheng, et al. 2000 [38] | \* | \* | \* | - | \* | \* | - | \* | \* | 7 |
| Chow, et al. 1998 [39] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| Corley, et al. 2008 [40] | \* | - | \* | \* | \* | \* | \* | \* | \* | 8 |
| Dai, et al. 2016 [41] | \* | \* | \* | \* | \* | \* | - | \* | - | 7 |
| de Jonge, et al. 2006 [42] | \* | \* | - | \* | \* | \* | - | \* | \* | 7 |
| Drahos, et al. 2016 [43] | \* | \* | \* | \* | \* | \* | \* | \* | - | 8 |
| Duan, et al. 2009 [44] | \* | \* | - | - | \* | \* | - | \* | - | 5 |
| Engel, et al. 2003 [45] | \* | \* | \* | - | \* | \* | - | \* | \* | 7 |
| Gammon, et al. 1997 [46] | \* | \* | \* | - | \* | \* | - | \* | \* | 7 |
| Gao, et al. 1994 [47] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Garidou, et al. 1996 [48] | \* | \* | - | - | \* | \* | - | \* | \* | 6 |
| Hashibe, et al. 2007 [49] | \* | \* | - | - | \* | \* | - | \* | \* | 6 |
| Ibiebele, et al. 2012 [50] | \* | \* | \* | - | \* | \* | \* | \* | \* | 8 |
| Ibiebele, et al. 2013 [51] | \* | \* | \* | - | \* | \* | \* | \* | \* | 8 |
| Jansson, et al. 2005 [52] | \* | \* | \* | - | \* | \* | \* | \* | - | 7 |
| Lagergren, et al. 1999 [53] | \* | \* | \* | \* | \* | \* | - | \* | - | 7 |
| Lagergren, et al. 2000 [54] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Lagergren, et al. 2006 [55] | \* | \* | \* | - | \* | - | \* | \* | \* | 7 |
| Lagergren, et al. 2013 [56] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Lagergren, et al. 2014 [57] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Lahmann, et al. 2014 [58] | \* | \* | \* | - | \* | \* | \* | - | - | 6 |
| Li, et al. 2017 [59] | \* | \* | \* | - | \* | \* | \* | \* | - | 7 |
| Lin, et al. 2011 [60] | \* | \* | \* | - | \* | \* | \* | \* | - | 7 |
| Lin, et al. 2014 [61] | \* | \* | \* | - | \* | \* | \* | \* | - | 7 |
| Lin, et al. 2012 [62] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Lindblad, et al. 2005 [63] | - | \* | \* | \* | \* | \* | \* | \* | - | 7 |
| Lu, et al. 2015 [64] | \* | \* | \* | - | \* | \* | \* | \* | - | 7 |
| MassI, et al. 2014 [65] | \* | \* | - | - | \* | - | \* | \* | - | 5 |
| Mayne, et al. 2001 [66] | \* | \* | \* | - | \* | \* | \* | \* | \* | 8 |
| Mayne, et al. 2006 [67] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Mulholland, et al. 2011 [68] | \* | \* | \* | \* | \* | \* | - | \* | \* | 8 |
| Murphy, et al. 2010 [69] | \* | \* | \* | \* | \* | \* | - | \* | - | 7 |
| Navarro Silvera, et al. 2014 [72] | \* | \* | \* | - | \* | \* | \* | \* | - | 7 |
| Navarro Silvera, et al. 2008 [70] | \* | \* | \* | - | \* | \* | \* | \* | - | 7 |
| Navarro Silvera, et al. 2011 [71] | \* | \* | \* | - | \* | \* | \* | \* | - | 7 |
| O'Doherty, et al. 2010 [73] | \* | \* | \* | \* | \* | \* | - | \* | - | 7 |
| O'Doherty, et al. 2011 [74] | \* | \* | \* | \* | \* | \* | - | \* | - | 7 |
| Olsen, et al. 2011 [75] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Pandeya, et al. 2008 [76] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Pandeya, et al. 2009 [77] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Pandeya, et al. 2010 [78] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Petrick, et al. 2015 [79] | \* | \* | \* | - | \* | \* | \* | \* | \* | 8 |
| Pohl, et al. 2013 [80] | \* | \* | - | \* | \* | \* | - | \* | - | 6 |
| Ryan, et al. 2006 [81] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Sharp, et al. 2013 [82] | \* | - | \* | \* | \* | \* | \* | \* | - | 7 |
| Terry, et al. 2000 [83] | \* | \* | \* | - | \* | \* | - | \* | \* | 7 |
| Terry, et al. 2001 [84] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Terry, et al. 2003 [85] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Thrift, et al. 2014 [86] | \* | - | \* | \* | \* | \* | \* | \* | - | 7 |
| Tzonou, et al. 1996 [87] | \* | \* | - | - | \* | \* | \* | \* | \* | 7 |
| Veugelers, et al. 2006 [88] | \* | \* | - | - | \* | \* | - | \* | - | 5 |
| Vigen, et al. 2006 [89] | \* | \* | \* | - | \* | \* | \* | \* | - | 7 |
| Ward, et al. 1997 [90] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Ward, et al. 2012 [92] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Ward, et al. 2008 [91] | \* | \* | \* | - | \* | \* | - | \* | \* | 7 |
| Whiteman, et al. 2008 [93] | \* | \* | \* | - | \* | \* | - | \* | - | 6 |
| Wolfgarten, et al. 2001 [94] | \* | \* | \* | - | - | - | \* | \* | - | 4 |
| Wu, et al. 2007 [96] | \* | \* | \* | \* | \* | \* | - | \* | - | 7 |
| Wu, et al. 2001 [95] | \* | \* | \* | \* | \* | \* | - | \* | - | 7 |
| ^based on study design. For case-control the NOS assessed the exposure, for cross-sectional and cohort studies the outcome. | | | | | | | | | | |

**Supplementary Table S2** **Quality assessment of cohort studies, using the Newcastle-Ottawa Scale (NOS), , in alphabetical order**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author year [Ref]** | **Selection** | | | | **Comparability** | | **Outcome/Exposure^** | | | **Total score/9** |
| Item 1 | Item 2 | Item 3 | Item 4 | Item 5a | Item 5b | Item 6 | Item 7 | Item 8 |
| Abnet, et al. 008 [97] | \* | \* | \* | \* | \* | \* | \* | - | \* | 8 |
| Allen, et al. 2009 [98] | \* | \* | - | \* | \* | \* | \* | - | \* | 7 |
| Carman, et al. 2009 [99] | \* | \* | \* | \* | \* | \* | \* | - | \* | 8 |
| Cook, et al. 2013 [100] | \* | \* | - | \* | \* | \* | \* | \* | - | 7 |
| Cross, et al. 2011 [101] | \* | \* | \* | \* | \* | \* | \* | \* | - | 8 |
| Dawsey, et al. 2014 [102] | \* | \* | \* | \* | \* | \* | \* | \* | - | 8 |
| De Jonge, et al. 2007 [103] | \* | - | \* | - | \* | \* | \*\* | \* | n.a. | 7 |
| Engeland, et al. 2004 [104] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| Freedman, et al. 2007 [105] | \* | \* | - | \* | \* | \* | \* | - | \* | 7 |
| Freedman, et al. 2007 [106] | \* | \* | \* | - | \* | \* | \* | - | \* | 7 |
| Gatenby, et al. 2008 [107] | \* | \* | \* | \* | \* | - | \* | \* | - | 7 |
| Gonzalez, et al. 2006 [108] | \* | \* | \* | - | \* | \* | \* | - | \* | 7 |
| Gonzalez, et al. 2006 [109] | \* | \* | \* | - | \* | \* | \* | - | \* | 7 |
| Hardikar, et al. 2013 [110] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| Huerta, et al. 2010 [111] | \* | \* | \* | - | \* | \* | \* | \* | \* | 8 |
| Jakszyn, et al. 2013 [112] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| Ji, et al. 2016 [113] | \* | - | \* | - | \* | \* | \* | \* | \* | 7 |
| Keszei, et al. 2012 [114] | \* | \* | \* | - | \* | \* | \* | \* | \* | 8 |
| Keszei, et al. 2013 [115] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| Levi, et al. 2013 [116] | \* | \* | - | - | \* | \* | \* | \* | \* | 7 |
| Li, et al. 2013 [117] | \* | \* | - | \* | \* | \* | \* | \* | - | 7 |
| Lin, et al. 2015 [118] | \* | \* | \* | \* | \* | \* | \* | \* | - | 8 |
| Merry, et al. 2007 [119] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| O'Doherty, et al. 2012 [120] | \* | \* | \* | \* | \* | \* | \* | \* | - | 8 |
| O'Doherty, et al. 2012 [121] | \* | \* | - | - | \* | \* | \* | \* | \* | 7 |
| Petrick, et al. 2017 [122] | \* | \* | - | \* | \* | \* | \* | \* | \* | 8 |
| Reeves, et al. 2007 [123] | \* | \* | - | \* | \* | \* | \* | - | - | 6 |
| Ren, et al. 2010 [124] | \* | \* | \* | \* | \* | \* | \* | - | \* | 8 |
| Samanic, et al. 2006 [125] | \* | \* | \* | - | \* | \* | \* | \* | \* | 8 |
| Sanikini, et al. 2020 [126] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| Steevens, et al. 2010 [127] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| Steevens, et al. 2010 [128] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| Steevens, et al. 2011 [129] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| Steffen, et al. 2009 [130] | \* | \* | \* | \* | \* | \* | \* | - | \* | 8 |
| Steffen, et al. 2015 [131] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| Vermeulen, et al. 2013 [132] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| Xiao, et al. 2014 [134] | \* | \* | - | \* | \* | \* | \* | \* | \* | 8 |
| Yates, et al. 2014 [133] | \* | \* | \* | \* | \* | - | \* | \* | \* | 8 |
| Zamora-Ros, et al. 2014 [135] | \* | \* | \* | \* | \* | \* | \* | \* | \* | 9 |
| Zendehdel, et al. 2008 [136] | \* | \* | \* | - | \* | \* | \* | \* | \* | 8 |
| ^based on study design. For case-control the NOS assessed the exposure, for cross-sectional and cohort studies the outcome. | | | | | | | | | | |