**Appendix 2. List of excluded articles with reason**

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| --- | --- | --- | --- |
| Author | Year | Reason for exclusion | Comment |
| Alemany | 2013 | Inadequate outcome | Too broad. Only Strength and Difficulties Questionaire total-score, not subscale for hyperactivity |
| Antoniou | 2014 | Inadequate study design |  |
| Antshel | 2003 | Duplication |  |
| Axelsson | 2019 | Duplication |  |
| Babinska | 2017 | Inadequate age of exposure |  |
| Bailet | 2000 | Inadequate age of exposure |  |
| Barnes | 2013 | Inadequate outcome |  |
| Bartels | 2009 | Inadequate outcome |  |
| Biederman | 2009 | Inadequate study design | Comparisons between families only |
| Boisvert | 2008 | Inadequate age of exposure |  |
| Bornovalova | 2014 | Inadequate age of exposure |  |
| Brimacombe | 2007 | Inadequate study design and control group |  |
| Butwicka | 2015 | Inadequate study design | No intra-sibling comparison |
| Butwicka | 2017 | Inadequate age of exposure |  |
| Carballo | 2013 | Inadequate study design | No sibling comparison |
| Carlton-Conway | 2005 | Inadequate age of exposure |  |
| Caspi | 2000 | Inadequate outcome | No standardized outcome measure |
| Castellheim | 2018 | Inadequate age of exposure |  |
| Cecil | 2012 | Inadequate outcome |  |
| Cecil | 2012 | Duplication |  |
| Claassen | 2008 | Inadequate study design | Case study |
| Cordova-Palomera | 2015 | Inadequate outcome |  |
| Cordova-Palomera | 2014 | Inadequate outcome |  |
| Crawford | 1995 | Inadequate age of exposure |  |
| Croen | 2019 | Inadequate study design |  |
| Curtin | 2018 | Inadequate study design |  |
| D'Onofrio | 2009 | Inadequate outcome |  |
| Danese | 2017 | Inadequate age of exposure |  |
| Davis | 1987 | Inadequate outcome |  |
| De Santis | 2017 | Inadequate age of exposure |  |
| De Santis | 2017 | Inadequate age of exposure |  |
| DiMaggio | 2011 | Inadequate outcome |  |
| Dinkler | 2017 | Inadequate age of exposure |  |
| Dostanic | 2018 | Inadequate study design |  |
| Ee | 2014 | Inadequate age of exposure |  |
| Ekblad | 2017 | Inadequate outcome |  |
| Fletcher | 2011 | Inadequate study design | No intra-sibling comparison  |
| Foley | 2004 | Inadequate age of exposure |  |
| Forrest | 1968 | Only protocol |  |
| Gardner | 1998 | Inadequate age of exposure |  |
| Geier | 2007 | Inadequate age of exposure |  |
| Gittelman | 1983 | Inadequate age of exposure |  |
| Gondalia | 2012 | Inadequate age of exposure |  |
| Gong | 2014 | Inadequate study design | No intra-twin comparison. |
| Grjibovski | 2005 | Inadequate outcome |   |
| Groen-Blokhuis | 2011 | No exposure |  |
| Groen-Blokhuis | 2011 | Duplication |  |
| Grossi | 2016 | Pilot study |  |
| Hendrix | 2011 | No peer review |  |
| Honma | 1999 | Inadequate study design | No intra-twin comparison |
| Huijbregts | 2007 | Inadequate study design |  |
| Hviid | 2019 | Inadequate study design |  |
| Jackson | 2013 | Inadequate age of exposure |  |
| Jain | 2015 | Inadequate study design |  |
| Khaled | 2016 | Inadequate age of exposure | In sibling control group |
| King | 2000 | Inadequate age of exposure |  |
| Knopik | 2005 | Inadequate study design |  |
| Knopik | 2009 | Inadequate study design | No intra-pair comparison |
| Kollins | 2009 | Inadequate age of exposure |  |
| Levy-Zaks | 2014 | Inadequate study design |  |
| Lie | 2017 | Inadequate outcome | Inadequate outcome for the sibling comparison |
| Lundstrom | 2010 | Inadequate study design | No intra-pair comparison |
| Lussu | 2017 | Inadequate age of exposure |  |
| Mankuta | 2010 | Inadequate outcome |  |
| Marin | 2014 | Inadequate study design | No intra-sibling comparison |
| Mascheretti | 2013 | Inadequate study design |  |
| Massey | 1997 | Only abstract |  |
| McGrath | 2007 | Inadequate study design |  |
| Melnyk | 2012 | Inadequate age of exposure |  |
| Micalizzi | 2018 | Inadequate outcome |  |
| Milberger | 1996 | Inadequate study design |  |
| Mulligan | 2013 | Inadequate age of exposure |  |
| Mura | 1974 | Inadequate outcome |  |
| Napolioni | 2013 | Inadequate age of exposure |  |
| Neufeld | 2008 | Inadequate study design |  |
| Neuman | 2007 | Inadequate study design | No intra-pair comparison |
| O'Leary | 2019 | Inadequate outcome | Categorical measure not equivalent with a DSM 5 diagnosis |
| Ortibus | 2009 | Inadequate study design | No twin comparison |
| Palmer | 2016 | Inadequate study design | No intra-twin comparison |
| Park | 2001 | Inadequate study design |  |
| Parracho | 2005 | Inadequate age of exposure |  |
| Pearsall-Jones | 2009 | Inadequate outcome | No odds ratio between trait and exposure |
| Petik | 2008 | Inadequate outcome |  |
| Pike | 2006 | Inadequate study design |  |
| Piras | 2014 | Inadequate study design |  |
| Plamondon | 2018 | Inadequate study design |  |
| Quadros | 2018 | Inadequate age of exposure | Unclear age of exposure <5 years |
| Reddick | 2014 | Inadequate age of exposure |  |
| Regehr | 1988 | No exposure |  |
| Rooney | 2003 | Inadequate study design |  |
| Rotem | 2018 | Inadequate study design |  |
| Rydhstrom | 1990 | Inadequate study design |  |
| Safer | 1973 | Inadequate outcome | No measure of association |
| Schou | 1976 | Inadequate outcome |  |
| Sharman | 2009 | Inadequate age of exposure |  |
| Shen | 2011 | Inadequate age of exposure |  |
| Singh | 2003 | Inadequate age of exposure |  |
| Smith | 2014 | Inadequate study design |  |
| Spiker | 2001 | Inadequate study design |  |
| Stern | 2018 | Inadequate age of exposure |  |
| Sujan | 2017 | Duplication |  |
| Taylor | 1993 | Inadequate outcome |  |
| Taylor | 2018 | Inadequate outcome |  |
| Titman | 2008 | Inadequate age of exposure |  |
| Tollanes | 2016 | No exposure |  |
| Tomova | 2015 | Inadequate age of exposure |  |
| Tully | 2004 | Inadequate study design and control group |  |
| Turan Akyol | 2015 | Inadequate age of exposure |  |
| van Os | 2001 | Inadequate outcome | Too broad. Child Behavioral Checklist total-score only |
| Wagner | 2009 | Inadequate study design |  |
| Whitmore | 1993 | Inadequate age of exposure |  |
| Wichers | 2002 | Inadequate outcome | Too broad. Child Behavioral Checklist total-score only |
| Wright | 2012 | Inadequate age of exposure |  |
| Yenkoyan | 2018 | Inadequate age of exposure |  |

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| --- | --- |
| **Summary** | **Number** |
| Age of exposure | 39 |
| Study design | 36 |
| Outcome | 25 |
| Duplication | 5 |
| Exposure | 3 |
| Study design and control group | 2 |
| No peer review | 1 |
| Only protocol | 1 |
| Only abstract | 1 |
| Pilot study | 1 |
| **In total** | **114** |

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