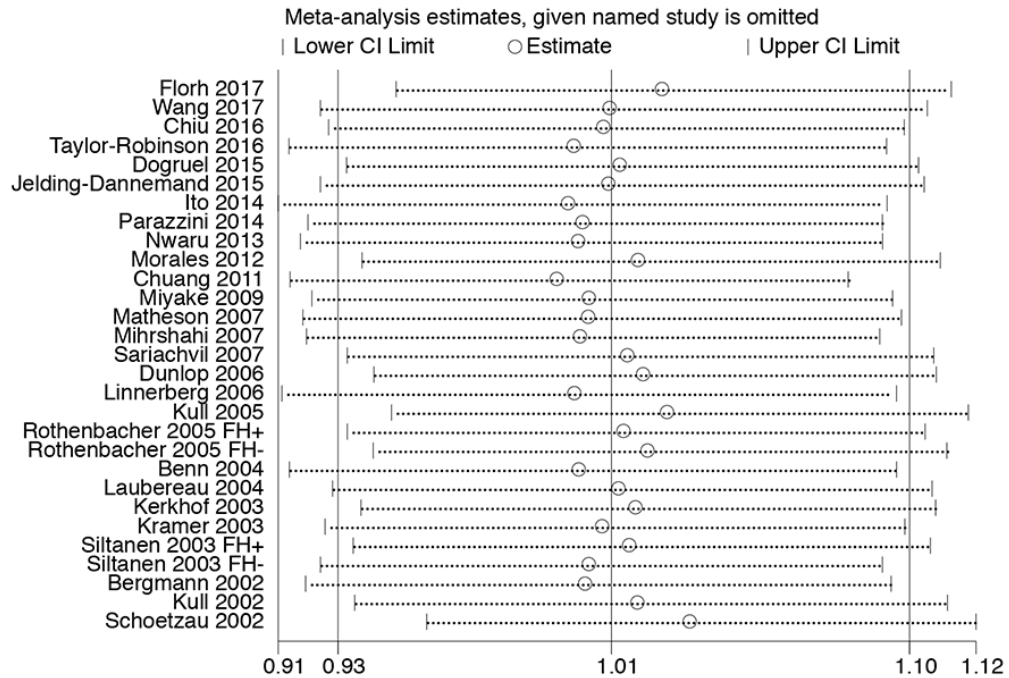
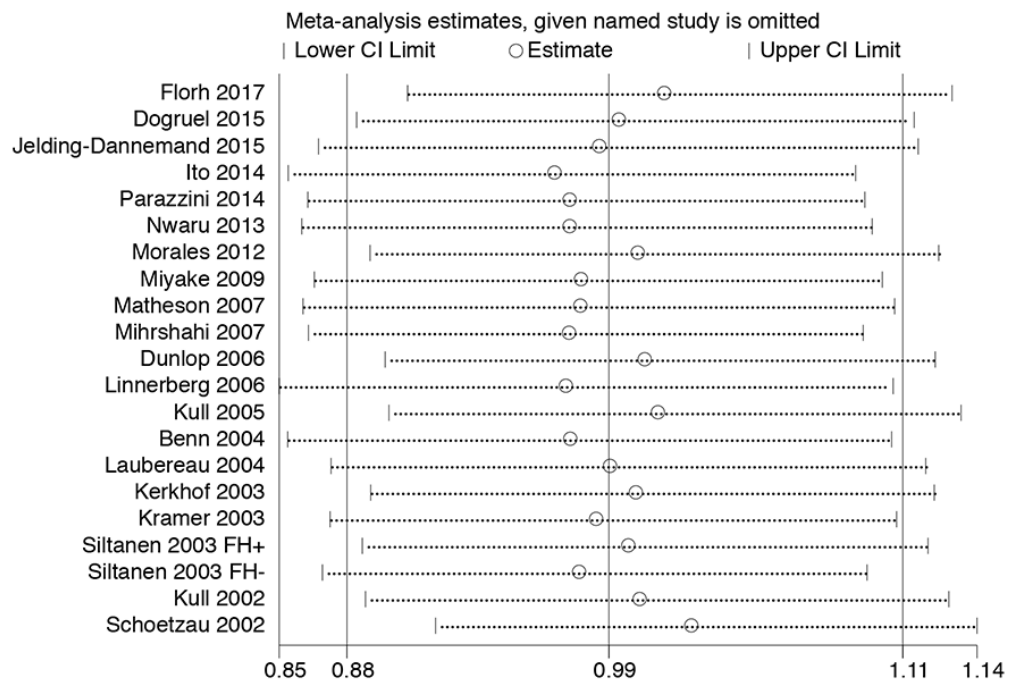


## Supplementary materials

**Fig. S1. Sensitivity analysis of studies on the association between AD and total breastfeeding**



**Fig. S2. Sensitivity analysis of studies on the association between AD and exclusive breastfeeding**



**Table S1. Newcastle-Ottawa quality assessment of the included studies**

Study	Representativeness of the exposed cohort	Selection of the non-exposed cohort	Ascertainmen t of exposure	Demonstration that outcome of interest was not present at start of study	Comparability of cohorts on the basis of the design or analysis	Assessment of outcome	Was the follow-up long enough for outcome to occur	Adequacy of follow up of cohorts	Total
Flohr 2017	1	1	1	1	2	1	1	1	9
Wang 2017	1	1	0	1	2	0	1	1	7
Chiu 2016	1	1	1	1	2	1	1	0	8
Taylor-Robinson 2016	1	1	1	1	2	1	1	1	9
Doğruel 2015	1	1	1	1	2	1	1	1	9
Jelding-Dannemand 2015	1	1	1	1	2	1	1	1	9
Ito 2014	1	1	0	1	2	0	1	1	7
Parazzini 2014	1	1	1	1	2	1	1	1	9
Nwaru 2013	0	1	0	0	2	1	1	1	6
Morales 2012	0	1	0	1	2	0	1	1	6
Chuang 2011	1	1	0	1	2	1	1	1	8
Miyake 2009	1	1	0	1	2	0	1	1	7
Matheson 2007	1	1	0	1	2	0	1	1	7
Mihrshahi 2007	1	1	1	1	2	1	1	1	9
Sariachvil 2007	1	1	1	1	2	0	1	1	8
Dunlop 2006	1	1	1	1	1	1	1	0	7
Linnerberg 2006	1	1	0	1	2	0	1	1	7
Kull 2005	1	1	1	0	1	1	1	1	7
Rothenbacher 2005	1	1	1	1	2	0	1	1	8

Benn 2004	1	1	0	1	2	1	1	1	8
Laubereau 2004	1	1	1	1	2	1	1	1	9
Kerkhof 2003	1	1	0	1	2	1	1	1	8
Kramer 2003	1	1	1	1	2	1	1	1	9
Siltanen 2003	1	1	0	1	2	0	1	1	7
Bergmann 2002	1	1	0	1	2	1	1	1	8
Kull 2002	1	1	0	1	2	1	1	1	8
Schoetzau 2002	1	1	1	1	2	1	1	1	9

**Table S2. Comparison of Newcastle-Ottawa Scale (NOS) scores between our study and Lodge *et al.***

Study	Lin <i>et al.</i>	Lodge <i>et al.</i> <sup>1</sup>
Parazzini 2014	9	9
Nwaru 2013	6	7
Morales 2012	6	7
Chuang 2011	8	9
Miyake 2009	7	8
Matheson 2007	7	6
Mihrshahi 2007	9	9
Sariachvil 2007	8	8
Dunlop 2006	7	7
Linnerberg 2006	7	6
Kull 2005	7	7
Benn 2004	8	8
Kerkhof 2003	8	7
Kramer 2003	9	8
Schoetzau 2002	9	9

Notes: no difference of NOS score is found between our study and Lodge *et al.* analyzed by Wilcoxon-Signed-Ranks test ( $p > 0.05$ )