

		Risk of bias domains							
		D1	D2	D3	D4	D5	D6	D7	Overall
Study	Sultana, 2025								
	Walters, 2024 (x2)								
	Dalziel, 2006								
	Gyami-Banerman, 2024								
	McEvoy, 2017								
		D1: Random sequence generation D2: Allocation concealment D3: Blinding of participants and personnel D4: Blinding of outcome assessment D5: Incomplete outcome data D6: Selective reporting D7: Other bias							Judgement Low Unclear High

Figure S1. Quality assessment of included RCTs [8, 11, 16, 22, 25, 26].

Table S1. Quality assessment of cohort studies based on Newcastle-Ottawa scale.

Studies	Selection				Comparability	Assessment of outcome	Outcome		Quality
	Representative ness of the exposed cohort	Selection of the non- exposed cohort	Ascertainment of exposure	Demonstration that outcome of interest was not present at start of study			Was follow-up long enough for outcomes to occur	Adequacy of follow-up of cohorts	
Aviram, 2022 [6]	★	★	★	★	★★	★	★	★	good
Ushida, 2020 [23]	★	★	★	★	★	★	★		good
Liu, 2012 [15]	★	★	★	★	★★		★	★	good
Kelly, 2012 [13]	★	★	★	★	★★	★	★		good
Wong, 2014 [27]	★	★	★	★	★	★	★	★	good
Nixon, 2013 [18]	★	★	★	★	★	★	★	★	good
LeFlore, 2002 [14]		★	★	★	★	★	★	★	good
Räikkönen, 2020 [20]; Räikkönen, 2022 [21]	★	★	★	★	★★	★	★	★	good
de Vries, 2008 [24]	★	★	★	★	★	★	★	★	good
Eriksson, 2012 [10]	★	★	★	★	★★	★	★	★	good
Darlow, 2022 [9]	★	★	★	★	★★	★	★	★	good
Melamed, 2019 [17]	★	★	★	★	★★	★	★	★	good
Carballo-Magdaleno, 2011 [7]		★	★	★	★	★	★	★	good
Norberg, 2013 [19]		★	★	★	★★	★	★	★	good
Ho, 2025 [12]	★	★	★	★	★★	★	★	★	good

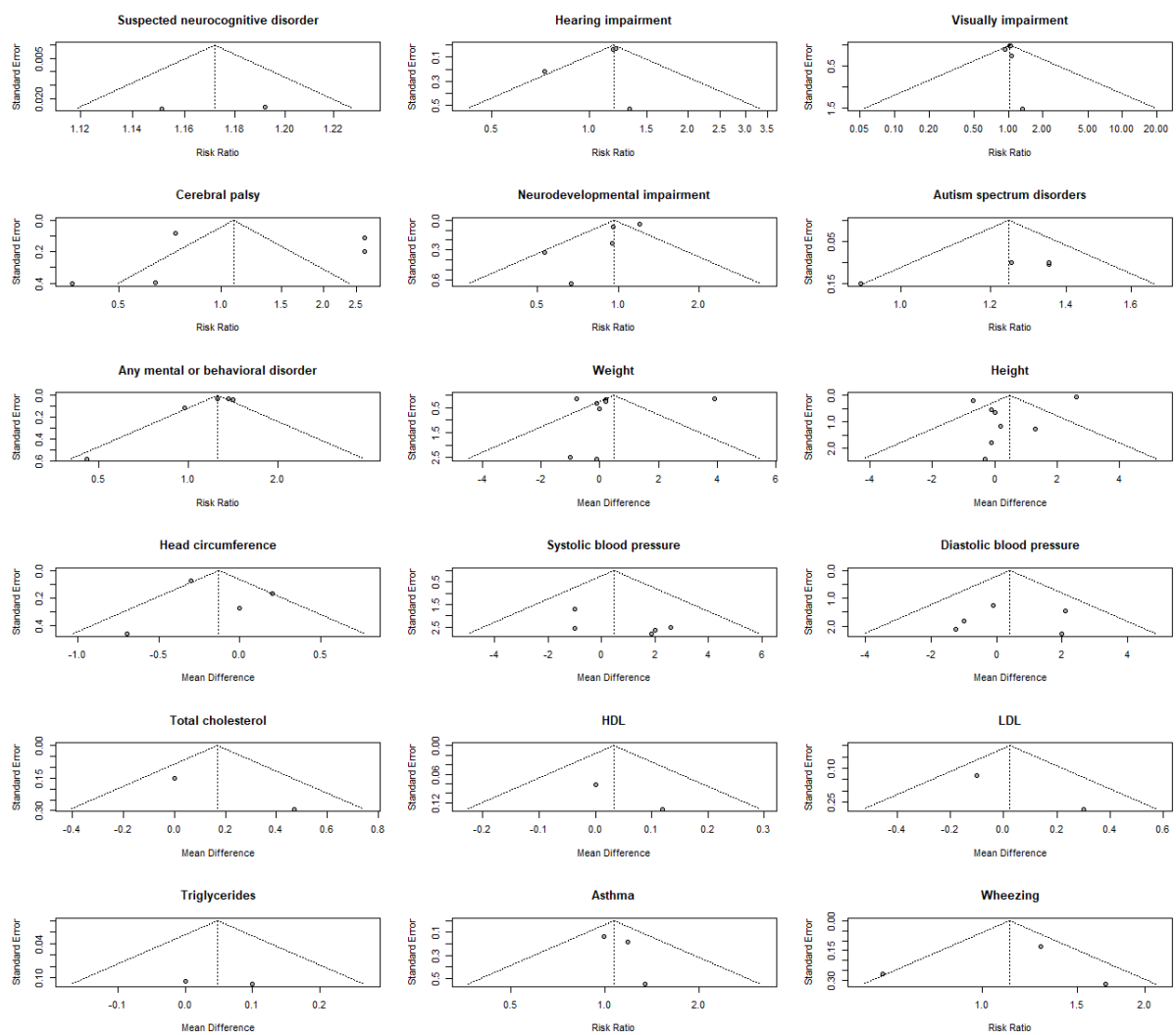


Figure S2. Funnel plots for the association between ASC exposition and outcomes.