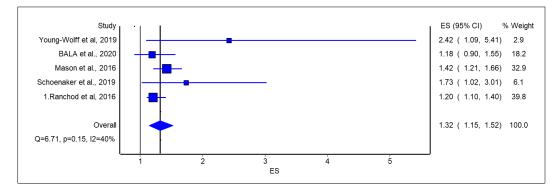
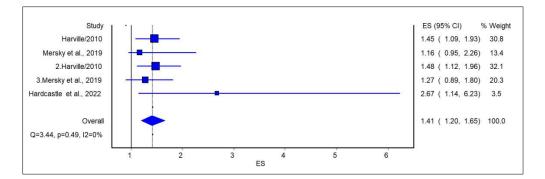


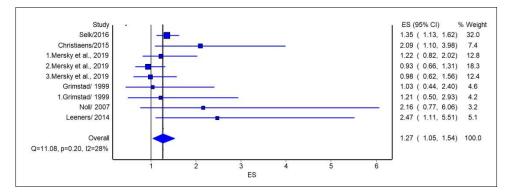
Supplementary figure -1.1: Association of ≥ 4 ACEs and adverse pregnancy complications



Supplementary figure -1.2: Association of <4 ACEs and adverse pregnancy complications



Supplementary figure -2.1: Association of ≥ 4 ACEs and adverse pregnancy outcomes



Supplementary figure -2.2: Association of <4 ACEs and adverse pregnancy outcomes

Supplementary Table S1: Search details

	#							
ACES	1	'Adverse childhood experiences'/exp OR 'adverse						
		childhood experiences'						
	2	'Childhood adversities'						
	3	'Childhood abuse'						
	4	'Childhood maltreatment'						
	5	'Child trauma'						
	6	'Adverse childhood events'						
	7	'Childhood sexual abuse'						
	8	'Childhood physical abuse'						
	9	'Childhood mental abuse'						
	10	'Childhood trauma'						
	11	'Childhood violence'						
	12	'Childhood hardship'						
	13	'Childhood suffering'						
	14	'Childhood stress'						
	15	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR						
		#9 OR #10 OR #11 OR #12 OR #13 OR #14						
Pregnancy complications	16	'Pregnancy complications'						
	17	'depression'						
	18	'anxiety'						
	19	'Prenatal depression'						
	20	'Depressive symptoms'						
	21	'Antenatal depression'						
	22	'Mental health problem'						
	23	'Gestational diabetes mellitus'						
	24	'GDM'						
	25	'Hypertensive disorder of pregnancy'						
	26	'HDP'						

	27	'preeclampsia'
	28	'Maternal body weight'
	29	'Excess weight gain'
Pregnancy outcomes	30	'Abnormal fetal growth'
	31	'Intrauterine growth restriction'
	32	'Low birth weight'
	33	'LBW'
	34	'IUGR'
	35	stillbirth
	36	'Small of gestational age'
	37	'Preterm birth'
	38	#16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR
		#23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR
		#30 OR #31 OR #32 OR #33 OR #34 OR #35 OR #36 OR
		#37
	39	#15 AND #38

Supplementary Table S2: Quality assessment tools

Study Quality Evaluation										
Item	Question	Coding								
1. Question	Was the research question or objective in this paper clearly stated?	0-No 1-Yes								
2. Population	Was the study population clearly specified and defined?	0-No 1-Yes								
3. Participation	Was the participation rate of eligible persons at least 50%?	0-No 1-Yes								
4. Inclusion/Exclusion Criteria	Were all the subjects selected or recruited from the same or similar populations (including the same time period)? Were inclusion and exclusion criteria for being in the study prespecified and applied uniformly to all participants?	0-No 1-Yes								
5. Sample Size	Was a sample size justification, power description, or variance and effect estimates provided?	0-No 1-Yes								
6.	For the analyses in this paper, were the exposure(s) of interest measured prior to the outcome(s) being measured?	0-No 1-Yes								
7. Timeframe	Was the timeframe sufficient so that one could reasonably expect to see an association between exposure and outcome if it existed?	0-No 1-Yes								
8. Levels of Exposure	For exposures that can vary in amount or level, did the study examine different levels of the exposure as related to the outcome (e.g., categories of exposure, or exposure measured as continuous variable)?	0-No 1-Yes								
9. Independent Variable	Were the exposure measures (independent variables) clearly defined, valid, reliable, and	0-No 1-Yes								

	implemented consistently across all study participants?	
10. Longitudinal/Repeated ACEs	Was the exposure(s) assessed more than once over time?	0-No 1-Yes
11. Dependent Variable	Were the outcome measures (dependent variables) clearly defined, valid, reliable, and implemented consistently across all study participants?	0-No 1-Yes
12. Objectivity independent variable	Does the study use objective reports or multiple- methods to measure maternal ACEs? Objective measure = child abuse reports	0-self report 1-objective measure/mult iple methods
	Multiple methods = self-report and corroborated reports.	
13. Objective dependent variables	Does the study use different reporters or multiple- methods to measure maternal health/mental health outcomes?	0-self report 1-objective measure/mult iple methods
	Objective measure = hospital report, diagnosis by physician, measurement by health care professional	
14. Lost to Follow-Up	Was loss to follow-up after baseline 20% or less?	0-No 1-Yes
15. Confounder	Were key potential confounding variables measured and adjusted statistically for their impact on the relationship between exposure(s) and outcome(s)?	0-No 1-Yes
Total	A sum of all items was calculated to obtain a total quality score (0-15).	

Supplementary Table S3: Quality of the study

SI#	First Author/Pub Date	Question	Population	Participation	Inclusion/Exclusi on Criteria	Sample Size	Exposures	Timeframe	Levels of	Independent	Longitudinal/Rep eated ACEs	Dependent Variable	Objectivity independent variable	Objective dependent variables	Lost to Follow-	Confounder	Overall	Quality score
	ub				ISi						lep							
1	Christiaens/2015	1	1	0	1	1	1	1	1	1	0	0	1	0	0	1	10	Moderate
2	Grimstad/ 1999	1	1	1	1	1	1	1	0	0	0	0	1	1	0	0	9	Low
3	Hardcastle et al., 2022	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	14	High
4	Noll/ 2007	1	1	1	0	0	1	1	0	0	0	0	1	1	0	0	7	Low
5	Leeners/ 2014	0	1	1	0	0	1	0	0	0	0	0	0	0	0	1	10	Moderate
6	Selk/2016	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	13	High
7	Harville/2010	1	1	1	0	1	1	1	1	1	1	1	0	1	0	1	12	Moderate
8	Versteegen et al., 2021	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	14	High
9	Stanhope et al., 2020	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	14	High
10	Schoenaker et al., 2019	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	14	High
11	Miller et al., 2017	1	1	1	1	1	1	0	0	1	0	1	0	1	0	0	9	Low
12	Mersky et al., 2019	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	13	High
13	Mason et al., 2016	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	13	High
14	Cammack et al., 2018	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	13	High
15	BALA et al., 2020	1	1	1	1	1	1	1	0	1	0	1	1	1	0	1	12	Moderate
16	Ben Salah et al, 2019	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	13	High
17	Bhengu, 2019	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	12	Moderate
18	Gillespie et al. (2017)	1	1	1	0	1	1	1	0	1	1	1	1	0	0	0	10	Moderate
19	Leeners et al, 2014	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15	High
20	McDonnell and Val et al, 2014	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	14	High
21	Shaikh et al., 2019	1	1	1	1	0	0	1	1	1	0	1	0	1	1	1	11	Moderate
22	Smith et al., 2016	1	1	1	1	0	0	1	1	1	0	1	0	0	1	1	10	Moderate
23	Ranchod et al, 2016	1	1	1	1	0	0	1	0	1	0	1	0	0	0	1	8	Low
24	Appleton et al, 2019	1	1	1	1	0	0	1	0	1	0	1	0	1	1	0	9	Low
25	Fredriksen et al, 2017	1	1	1	1	0	0	1	1	1	0	1	0	0	0	0	8	Low

26	Hantsoo et al,2019	1	1	1	1	0	0	1	0	1	0	1	0	0	0	1	8	Low
27	Letourneau et al, 2019	1	1	1	1	0	0	1	1	1	0	1	0	0	1	1	10	Moderate
28	Howell1,2020	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	12	Moderate
29	Narayan et al, 2018	1	1	1	1	0	0	1	1	1	0	1	0	0	1	0	9	Low
30	Racine et al, 2020	1	1	1	1	0	0	1	0	1	0	1	0	0	0	1	8	Low
31	Young-Wolff et al, 2019	1	1	1	1	0	0	1	1	1	0	1	0	1	1	1	11	Moderate
32	Barrios et al, 2015	1	1	1	1	0	0	1	1	1	0	1	0	1	1	1	11	Moderate