

SUPPLEMENTARY MATERIAL

Table S1. Search strategies used for this review.

Search Strategy	Articles
Pubmed ("probiotic*"[Title/Abstract] OR "symbiotic"[Title/Abstract] OR "prebiotic"[Title/Abstract] OR "Lactobacil*"[Title/Abstract] OR "bifidobacteri*"[Title/Abstract] OR "oligosaccharid*"[Title/Abstract] OR "fructo*"[Title/Abstract] OR "galacto*"[Title/Abstract]) AND ("pregnan*"[Title/Abstract] OR "gestation"[Title/Abstract] OR "lactation"[Title/Abstract] OR "breastfeeding"[Title/Abstract] OR "formula"[Title/Abstract]) AND ("cesarean"[Title/Abstract] OR "caesarean"[Title/Abstract] OR "c-section"[Title/Abstract]) AND ("trial"[Title/Abstract]) NOT ("mice"[Title/Abstract] OR "mouse" [Title/Abstract] OR "rat"[Title/Abstract] OR "vitro"[Title/Abstract] OR "pig"[Title/Abstract] OR "monkey"[Title/Abstract]) NOT ("review"[Title/Abstract])	19
Scopus TITLE-ABS-KEY (probiotic* OR prebiotic* OR symbiotic* OR Lactobacill* OR Bifidobacteri* OR oligosaccharide* OR fructo* OR galacto*) AND TITLE-ABS-KEY (mother OR pregnan* OR gestation OR lactation OR breastfeeding OR formula) AND TITLE-ABS-KEY (cesarean OR caesarean OR c-section) AND TITLE-ABS (trial) AND NOT TITLE-ABS-KEY (mice OR mouse OR rats OR vitro OR pig* OR monkey) AND (LIMIT-TO (DOCTYPE,"ar")) AND (LIMIT-TO (LANGUAGE,"English"))	38
Web of Science AB=(probiotic* OR Lactobacill* OR Bifidobacteri* OR symbiotic* OR prebiotic* OR oligosaccharide OR fructo* OR galacto*) AND AB=(mother OR pregnan* OR lactation OR breastfeeding OR formula OR gestation) AND AB=(cesarean OR caesarean OR c-section) AND (AB=(trial) OR TI=(trial)) NOT AB=(mice OR mouse OR rats OR vitro OR pig* OR monkey)	18

ABS, AB: Abstract; TS: Topic; TI: Title

Table S2. Summary of assessing risk of bias according to ROB2 checklist

Author, year [Ref]	Selection bias		Performance bias	Detection bias	Attrition bias	Reporting bias	Overall Risk of Bias
	Random sequence generation	Allocation concealment					
Yunati, 2013[28]	High	Unclear	Unclear	Low	Low	Low	High
Mastromarino, 2015[29]	Low	Low	Low	Low	Low	Low	Low
Baglatzi, 2016[30]	Low	Low	Low	Low	Low	Low	Low
Cooper, 2016[31]	Unclear	Low	Low	Low	Low	Low	Unclear
García-Ródenas, 2016[32]	Unclear	Low	Low	Low	Low	Low	Low
Bazanella, 2017[33]	Low	Low	Low	Low	Low	Low	Low
Chien-Chua, 2017[34]	Unclear	Low	Low	Low	Low	Low	Unclear
Frese, 2017[35]	High	Unclear	Low	Low	Low	Low	High
Korpela, 2018[36]	Low	Low	Low	Low	Low	Low	Low
Hurkala, 2020[37]	Low	Low	Unclear	Low	Low	Low	Low
Estorninos, 2021[38]	Low	Low	Low	Low	Low	Low	Low
Phavichitr, 2021[39]	Unclear	Low	Low	Low	Low	Low	Unclear

Considerations:

Selection bias (including Random sequence generation & Allocation concealment)

Performance bias (Blinding of participants and personnel)

Detection bias (Blinding of outcome assessment)

Attrition bias (Incomplete outcome data)

Reporting bias (Selective reporting)

Overall Risk of bias: Low (for all domains), Unclear (in at least one domain), High (in at least one domain/ or unclear for multiple domains).