Supplementary Material

Associations between parental alcohol use and parenting practices: a systematic review

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Table S1: Prisma 2020 for Abstracts Checklist

Section and Topic	Item #	Checklist item	Reported (Yes/No)*
TITLE			
Title	1	Identify the report as a systematic review.	Yes
BACKGROUND			
Objectives	2	Provide an explicit statement of the main objective(s) or question(s) the review addresses.	Yes
METHODS			
Eligibility criteria	3	Specify the inclusion and exclusion criteria for the review.	Yes
Information sources	4	Specify the information sources (e.g., databases, registers) used to identify studies and the date when each was last searched.	Yes
Risk of bias	5	Specify the methods used to assess risk of bias in the included studies.	Yes
Synthesis of results	6	Specify the methods used to present and synthesise results.	Yes
RESULTS			
Included studies	7	Give the total number of included studies and participants and summarise relevant characteristics of studies.	Yes
Synthesis of results	8	Present results for main outcomes, preferably indicating the number of included studies and participants for each. If meta-analysis was done, report the summary estimate and confidence/credible interval. If comparing groups, indicate the direction of the effect (i.e. which group is favoured).	Yes
DISCUSSION			
Limitations of evidence	9	Provide a brief summary of the limitations of the evidence included in the review (e.g. study risk of bias, inconsistency and imprecision).	Yes
Interpretation	10	Provide a general interpretation of the results and important implications.	Yes
OTHER			
Funding	11	Specify the primary source of funding for the review.	Yes
Registration	12	Provide the register name and registration number.	Yes

* Some PRISMA items may be reported and described in a different location.

From: Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ 2021;372:n71. doi: 10.1136/bmj.n71

For more information, visit: http://www.prisma-statement.org/

Table S2: Prisma 2020 Checklist

Section and Topic	Item #	Checklist item	Location where item is reported
TITLE			
Title	1	Identify the report as a systematic review.	Page 1
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	Checklist included.
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Page 2
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Page 2
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Page 3
Information sources	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted.	Page 3
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Appendix A
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	Page 3-4
Data collection process	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	Page 2-4
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g., for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	Table 1.; Appendix B.
	10b	List and define all other variables for which data were sought (e.g., participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	Table 1.; Appendix B.
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	Page 3-4; Sup. material.
Effect measures	12	Specify for each outcome the effect measure(s) (e.g., risk ratio, mean difference) used in the synthesis or presentation of results.	Table 1
Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g., tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).	Page 4; Table 1.
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	N/A
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Page 4; Table 1.
	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	Page 4
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g., subgroup analysis, meta-regression).	N/A
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	N/A

Section and Topic	Item #	Checklist item	Location where item is reported
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	N/A
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	N/A
RESULTS			
Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram.	Figure 1.
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	Page 4; Sup. material; Figure 1;
Study characteristics	17	Cite each included study and present its characteristics.	Table 1. Sup. Material.
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Page 4; Sup. material.
Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g., confidence/credible interval), ideally using structured tables or plots.	Table 1.
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Pages 5-8; Table 1 Sup. material.
	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.	N/A
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	N/A
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	N/A
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	Sup. material.
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	N/A
DISCUSSION			
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Pages 5-8
	23b	Discuss any limitations of the evidence included in the review.	Pages 5-9
	23c	Discuss any limitations of the review processes used.	Pages 8-9
	23d	Discuss implications of the results for practice, policy, and future research.	Pages 8-9
OTHER INFORMATION			
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	3
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	3
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	See protocol.
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Page 4

Section and Topic	Item #	Checklist item	Location where item is reported
Competing interests	26	Declare any competing interests of review authors.	Page 9
Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.	Page 9

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For more information, visit: http://www.prisma-statement.org/

List S1: References of Included Studies

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Table S3: Risk of Bias Assessment

Questions from the Critical Appraisal Skills Programme (CASP)[1,2]
Cohort study and case control study checklists

1. Did the study address a clearly focused issue?
2. Were the cases or the cohort recruited in an acceptable way?
3. Did the authors use an appropriate method to answer their question?
4. Were the controls selected in an acceptable way?
5. Was the exposure accurately measured to minimize bias?
6. Was the outcome accurately measured to minimize bias?
7. Have the authors identified all important confounding factors? Aside from the experimental intervention, were the groups treated equally?
8. Have the authors taken account of the potential confounding factors in the design and/or in their analysis?
9. Do you believe the results?
10. Do the results of this study fit with other available evidence?

The assessment was conducted independently by two reviewers (BC and SH) using guidance from the Critical Appraisal Skills Programme (CASP). A template was created based on modified CASP checklists and questions suitable for the study design. These were the response alternative to each question:

a) Yes
b) Unclear / Can't tell
c) No
d) Not applicable

There were prompts below the questions that highlight the issues and important guidelines to consider when answering.

Following the independent assessment, each study appraisal was compared and discussed together. It is worth noting that the reviewers considered the overall quality and relevance of the studies when making decisions regarding the critical appraisal. Since a strict cut-off for what constitutes a high risk of bias is not indicated, it was agreed and decided by the research team, that two or more "No" answers would rate this measure. Studies with a global final assessment of high risk of bias were not included in the narrative synthesis in this systematic review.

Table of risk of bias assessment

	Critical Appraisal Questions										
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Risk of bias**
Amundsen et al. (2025) [71]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Anda et al. (2002)[3]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Au et al. (2015)[4]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Au et al. (2014)[5]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Bijttebier & Goethals (2006)[6]	Yes	NA	Yes	NA	Yes	Yes	No	Un	Yes	Yes	Moderate
Bryant et al. (2020)[7]	Yes	NA	Yes	NA	Un	Yes	Yes	Yes	Yes	Yes	Low
Chassin et al. (1996)[8]	Yes	Yes	Yes	Yes	Yes	NA	Un	Un	Yes	Yes	Moderate
Chassin et al. (1993)[9]	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	Low
Edwards et al. (2004)[10]	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes	Un	Yes	Low
Edwards et al. (2009)[11]	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	Low
Eiden et al. (1999)[12]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Un	Yes	Low
Eiden et al. (2009)[13]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Eiden et al. (2004)[14]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Eiden et al. (2002)[15]	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Eiden et al. (2007)[16]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Eiden et al. (2000)[17]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Eiden et al. (2004)[18]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Eiden et al. (2009)[19]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Elam et al. (2020)[20]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Famularo et al. (1992)[21]	Yes	Yes	Yes	Yes	Un	Yes	No	Un	Yes	Yes	Moderate
Finan et al.(2015)[22]	Yes	NA	Yes	NA	Yes	Yes	No	Un	Yes	Yes	Moderate
Finger et al. (2010)[23]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Freisthler, Sarabia & Wolf (2023) [72]	Yes	Un	Yes	Yes	NA	Yes	Yes	Yes	Yes	Yes	Low
Freisthler & Wolf (2023) [73]	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	Yes	Low
Freisthler & Wolf (2016)[24]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Freisthler et al. (2015)[25]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Freisthler et al. (2014)[26]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Freisthler et al. (2020)[27]	Yes	NA	Un	NA	Yes	Yes	Yes	Yes	Un	No	Moderate
Handley & Chassin (2013)[28]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Jacob et al. (1991)[29]	Yes	NA	Un	NA	Yes	Yes	Yes	Yes	Un	Un	Moderate
Jacob et al. (2001)[30]	Yes	NA	Un	NA	Yes	Yes	No	Un	Un	Un	Moderate

Jacques et al. (2025) [74]	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Jacques et al. (2021)[31]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Jacques et al. (2020)[32]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Kachadourian et al. (2009)[33]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Keller et al. (2024)[75]	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Keller et al. (2023)[76]	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Keller et al. (2021)[34]	Yes	NA	No	NA	Yes	Yes	Yes	Yes	Yes	Yes	Moderate
Kelley et al. (2011)[35]	Yes	Yes	NA	Yes	Yes	Yes	Un	No	Yes	Yes	Moderate
Kim et al. (2010)[36]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Lang et al. (1999)[37]	Yes	Yes	Un	Un	Yes	Yes	Yes	Yes	Yes	Yes	Moderate
Laslett et al. (2022)[77]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Lee et al. (2011)[38]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Lloyd & Kepple (2017)[39]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Maggs & Staff (2018)[40]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Maggs et al. (2021)[41]	Yes	NA	Yes	NA	Un	Yes	Yes	Yes	Yes	Yes	Low
Mares et al. (2011)[42]	Yes	NA	Yes	NA	Yes	Yes	Un	No	Yes	Yes	Moderate
Moser & Jacob (1997)[43]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Un	Yes	Yes	Low
Ohannessian (2012)[44]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Rangarajan (2008)[45]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Roberts et al. (2010)[46]	Yes	NA	Yes	NA	Yes	Yes	No	Un	Yes	Un	Moderate
Rochat et al. (2019)[47]	Yes	NA	Yes	NA	Yes	Yes	Yes	No	Yes	Yes	Moderate
Rutherford et al. (1998)[48]	Yes	NA	Yes	NA	Yes	Yes	Yes	No	Un	Yes	Moderate
Schacht et al. (2009)[49]	Yes	NA	Yes	NA	Yes	Yes	Un	No	Yes	Yes	Moderate
Seay (2026)[78]	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	Un	Un	Moderate
Senchak et al. (1995)[50]	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	Low
Smyth et al. (2010)[51]	Yes	Un	Yes	NA	No	Un	Yes	Yes	Yes	Yes	Moderate
Spieker et al. (2001)[52]	Yes	NA	Yes	NA	Yes	Yes	Un	No	Yes	Yes	Moderate
Su et al. (2018)[53]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Taber-Thomas & Knutson (2020)[54]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Tweed & Ryff (1996)[55]	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes	Un	No	Moderate
Tyrlík & Konecný (2011)[56]	Yes	NA	Yes	NA	Yes	Yes	No	Un	Yes	Yes	Moderate
Van der Vorst et al. (2006)[57]	Yes	NA	Yes	NA	Yes	Yes	No	Un	Yes	Yes	Moderate
Van der Zwaluw et al. (2008)[58]	Yes	NA	Yes	NA	Yes	Yes	No	Un	Yes	Un	Moderate
Ward & Snow (2011)[59]	Yes	NA	Yes	NA	Yes	Yes	Yes	No	Yes	Yes	Moderate

Wolf & Freisthler (2025)[79]	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Wolf et al. (2021)[60]	Yes	NA	Un	NA	Yes	Yes	Yes	Yes	Yes	Un	Moderate
Zhang et al. (1999)[61]	Yes	NA	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	Low
Dumka & Roosa (1995)[62]	Yes		Yes		Yes	Yes	No	No	Un	Un	High
Dumka & Roosa (1993)[63]	Yes		Yes		Yes	Yes	No	No	Un	Un	High
Hyphantis et al. (1991)[64]	No		No	*	*	*	*	*	*	*	High
Mahato et al. (2009)[65]	No	No	*	*	*	*	*	*	*	*	High
Reich et al. (1988)[66]	No	No	*	*	*	*	*	*	*	*	High
Sebre et al. (2004)[67]	Yes		Yes		Un	Yes	No	No	Un	Un	High
Seilhamer et al. (1993)[68]	Yes	No	Un		Yes	Yes	No	No	No	Un	High
Stout & Mintz (1996)[69]	No	Un	No	*	*	*	*	*	*	*	High
Zincir et al. (2010)[70]	No		Un		No	*	*	*	*	*	High

Risk of bias final rating:
Low (only YES ratings with one Unclear at the most)
Moderate or unclear risk (one NO or more than one Unclear)
High (two or more NO ratings) – highlighted in red

Un: Unclear
NA: Not applicable
* Not worth proceeding

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Table S4: Studies Excluded on Critical Appraisal

Author (year)	Risk of bias
Dumka & Roosa (1993)[1]	a) c)
Dumka & Roosa (1995)[2]	a) c)
Hyphantis et al. (1991)[3]	e)
Mahato et al. (2009)[4]	a) b) e)
Reich et al. (1988)[5]	a) c) d)
Sebre et al. (2004)[6]	a) b) c)
Seilhamer et al. (1993)[7]	a) c) d)
Stout & Mintz (1996)[8]	a) c) d)
Zincir et al. (2010)[9]	e)

Reasons for the higher risk of bias assessed using the CASP checklists:

a) Selection bias that might compromise the generalizability/validity of the findings: Was the sample recruited in an acceptable way? Was it representative of a defined population? Was there a sufficient number of cases/participants?
b) Measurement or classification bias: Was the exposure/outcome accurately measured to minimize bias?
c) Confounding factors: Have the authors identified all the important confounding factors? Have they taken account of the confounding factors in the design and/or analysis?
d) Are the design and methods of the study appropriate for the research question? Are the results reliable, or could they be due to bias, chance, or confounding?
e) The lack of a description or incomplete/unclear information fundamental for the quality assessment, such as information related to sample recruitment, methods, results, and the measurement of the exposure and outcome variables.

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