

Appendix 1: Search Strategy

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Medline via Ovid

1. unplanned pregnancy/
2. unwanted pregnancy/
3. unintended pregnan*.tw.
4. unplanned pregnan*.tw.
5. unwanted pregnan*.tw.
6. mistimed pregnan*.tw.
7. ((unintended or unwanted or unplanned) adj3 pregnan*).tw.
8. 1 or 2 or 3 or 4 or 5 or 6 or 7
9. exp Substance-Related Disorders/
10. Addiction Medicine/
11. exp Alcohol Drinking/
12. exp Illicit Drugs/
13. Designer Drugs/
14. exp Drug Misuse/
15. alcohol*.tw.
16. amphetamine*.tw.
17. methamphetamine*.tw.
18. cocaine*.tw.
19. ((dependence or overdose or misuse) adj3 drug*).tw.
20. inhalant*.tw.
21. marijuana*.tw.
22. narcotic*.tw.
23. Phencyclidine*.tw.
24. ((dependence or overdose or misuse) adj3 substance*).tw.
25. addict*.tw.
26. opioid*.tw.
27. opiate*.tw.
28. heroin*.tw.
29. 9 or 10 or 11 or 12 or 13 or 14 or 15 or 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
30. 8 and 29

Embase

1. exp unplanned pregnancy/
2. exp unwanted pregnancy/
3. unintended pregnan*.mp.
4. unplanned pregnan*.mp.
5. unwanted pregnan*.mp.
6. mistimed pregnan*.mp.
7. ((unintended or unwanted or unplanned) adj3 pregnan*).mp.
8. 1 or 2 or 3 or 4 or 5 or 6 or 7
9. exp substance abuse/
10. exp drug dependence/
11. exp addiction medicine/
12. exp drinking behavior/
13. exp illicit drug/
14. exp designer drug/
15. exp drug misuse/
16. alcohol*.mp.
17. amphetamine*.mp.
18. cocaine*.mp.
19. ((dependence or overdose or misuse) adj3 drug*).mp.
20. inhalant*.mp.
21. marijuana*.mp.
22. narcotic*.mp.
23. Phencyclidine*.mp.
24. ((dependence or overdose or misuse) adj3 substance*).mp.
25. addict*.mp.
26. opioid*.mp.
27. opiate*.mp.
28. heroin*.mp.
29. 9 or 10 or 11 or 12 or 13 or 14 or 15 or 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
30. 8 and 29

Scopus

(TITLE-ABS-KEY (pregnan* W/3 (uninten* OR unplan* OR unwanted* OR intention)) AND TITLE-ABS-KEY ("substance use disorder" OR "addiction w/3 medicin*" OR (substance W/3 (use OR misuse OR dependenc* OR overdose)) OR "drug use" OR "illicit w/3 drug*" OR alcohol OR amphetamine* OR methamphet* OR cocaine OR opioid* OR opiate* OR marijuana OR cannib* OR narcotic* OR phencyclidine* OR addict* OR heroin OR inhalant*))

Cinahl

- S1. (MH "Pregnancy, Unplanned")
- S2. (MH "Pregnancy, Unwanted")
- S3. unintended pregnan*
- S4. unplanned pregnan*
- S5. unwanted pregnan*.tw
- S6. unwanted pregnan*
- S7. mistimed pregnan*
- S8. (unintended or unwanted or unplanned) N3 pregnan*)
- S9. S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8
- S10. (MH "Substance Use Disorders+")
- S11. (MH "Substance Dependence+")
- S12. (MH "Street Drugs+") OR (MH "Designer Drugs")
- S13. alcohol*
- S14. amphetamine*
- S15. methamphetamine*
- S16. cocaine*
- S17. (dependence or overdose or misuse) N3 drug*
- S18. inhalant*
- S19. marijuana*
- S20. narcotic*
- S21. Phencyclidine*
- S22. (dependence or overdose or misuse) N3 substance*
- S23. addict*
- S24. opioid*
- S25. opiate*
- S26. heroin*
- S27. S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22
OR S23 OR S24 OR S25 OR S26
- S28. S9 AND S27

Google Scholar

("unplanned pregnancy" OR "unintended pregnancy" OR "unwanted pregnancy" OR "mistimed pregnancy") AND ("substance use" OR "drug use" OR "alcohol*" OR "amphetamine*" OR "methamphetamine*" OR "inhalant" OR "marijuana" OR "narcotic" OR "phencyclidine" OR "addict*" OR "opioid*" OR "opiate*" OR "heroin*")

Cochrane Database

1. unplanned pregnancy/
2. unwanted pregnancy/
3. unintended pregnan*
4. unplanned pregnan*
5. unwanted pregnan*
6. mistimed pregnan*
7. (unintended or unwanted or unplanned) NEAR/3 pregnan*
8. #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7
9. exp Substance-Related Disorders/
10. Addiction Medicine/
11. exp Alcohol Drinking/
12. exp Illicit Drugs/
13. Designer Drugs/
14. exp Drug Misuse/
15. alcohol*
16. amphetamine*
17. methamphetamine*
18. cocaine*
19. (dependence or overdose or misuse) NEAR/3 drug*
20. inhalant*
21. marijuana*
22. narcotic*
23. Phencyclidine*
24. (dependence or overdose or misuse) NEAR/3 substance*
25. addict*
26. opioid*
27. opiate*
28. heroin*
29. #9 or #10 or #11 or #12 or #13 or #14 or #15 or #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
30. #8 and #29

TRIP database

("unplanned pregnancy" OR "unintended pregnancy" OR "unwanted pregnancy" OR "mistimed pregnancy") AND ("substance use" OR "drug use" OR "alcohol*" OR "amphetamine*" OR "methamphetamine*" OR "inhalant" OR "marijuana" OR "narcotic" OR "phencyclidine" OR "addict*" OR "opioid*" OR "opiate*" OR "heroin*")

Selected "Primary Research" and "Systematic Review"

Appendix 2: High Income Countries as listed by The World Bank, June 2020

Andorra	Gibraltar	Norway
Antigua and Barbuda	Greece	Oman
Aruba	Greenland	Palau
Australia	Guam	Panama
Austria	Hong Kong SAR, China	Poland
Bahamas, The	Hungary	Portugal
Bahrain	Iceland	Puerto Rico
Barbados	Ireland	Qatar
Belgium	Isle of Man	Romania
Bermuda	Israel	San Marino
British Virgin Islands	Italy	Saudi Arabia
Brunei Darussalam	Japan	Seychelles
Canada	Korea, Rep.	Singapore
Cayman Islands	Kuwait	Sint Maarten (Dutch part)
Channel Islands	Latvia	Slovak Republic
Chile	Liechtenstein	Slovenia
Croatia	Lithuania	Spain
Curacao	Luxembourg	St. Kitts and Nevis
Cyprus	Macao SAR, China	St. Martin (French part)
Czech Republic	Malta	Sweden
Denmark	Mauritius	Switzerland
Estonia	Monaco	Taiwan, China
Faroe Islands	Nauru	Trinidad and Tobago
Finland	Netherlands	Turks and Caicos Islands
France	New Caledonia	United Arab Emirates
French Polynesia	New Zealand	United Kingdom
Germany	Northern Mariana Islands	United States

Uruguay

Virgin Islands (U.S.)

Appendix 3: Data Extraction Template (Covidence)

Summary of outcomes and association with unintended pregnancy

Preview

General information

Study ID:

Citation:

Type of Publication:

- Peer reviewed publication
- Guidelines
- Public health organisation reports
- Unpublished academic research
- Other (Specify.....)

Methodology

Study design:

- Prospective cohort study
- Retrospective cohort study
- Analytical Cross sectional study
- Case control study
- Health Economic evaluation
- Systematic review
- Meta-analysis
- Scoping review
- Cochrane Collaboration systematic review
- Other (Specify.....)

Methods

Study setting:

- Antenatal
- Retrospective (assessment of pregnancy)
- Paediatric datasets
- National Survey
- Drug and Alcohol Clinics
- Other

Country/Countries in which the study is conducted:

- North America
- Europe
- Asia
- Australia/New Zealand
- Other (Specify.....)

Time period of recruitment:

Method of recording of pregnancy intention

Timing of recording of pregnancy intention:

- Prospective (before pregnancy)
- During pregnancy
- Retrospective (after pregnancy)
- Other

Tools used to assess unintended pregnancy:

- London Measure of Unplanned Pregnancy
- Dichotomous question
- Other

Participants

Total number of participants:

Population Characteristics:

- Age range
- Socio-economic group(s)
- Ethnicities
- Gravidity
- Parity
- Other

Principal drug(s) of choice:

Pattern of drug use:

Severity of drug use:

Results

Outcome(1):

Outcome(2):

Outcome(3):

Type of outcomes assessed (1)

- Maternal
- Fetal
- Neonatal
- Childhood

Type of outcomes assessed (2)

- Health
- Social
- Economic

Frequency of Outcome in Study Population (Outcome 1)

	Frequency	95% Confidence Intervals	Measure of frequency used (e.g. incidence, prevalence)
All women in the study			
Women with unintended pregnancy			

Comparator group			
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Frequency of Outcome in Study Population (Outcome 2)

	Frequency	95% Confidence Intervas	Measure of frequency used (e.g. incidence, prevalence)
All women in the study			
Women with unintended pregnancy			
Comparator group			

Frequency of Outcome in Study Population (Outcome 3)

	Frequency	95% Confidence Intervas	Measure of frequency used (e.g. incidence, prevalence)
All women in the study			
Women with unintended pregnancy			
Comparator group			

Effect of unintended pregnancy on outcomes

	Size of effect 95% Confidence intervals & P-values Measure of effect (e.g. RR, OR)	Size of effect 95% Confidence intervals & P-values Measure of effect (e.g. RR, OR)	Size of effect 95% Confidence intervals & P-values Measure of effect (e.g. RR, OR)
Outcome 1			
Outcome 2			
Outcome 3			

Summary of outcomes and association with unintended pregnancy

	Association between unintended pregnancy and measured outcome (positive, negative, none)
Health outcome	
Social outcome	
Economic outcome	
Maternal outcome	
Fetal outcome	
Neonatal outcome	
Childhood outcome	