

Part 6: Appendices

Appendix 1. Table of search results

Database	Years	Scanned	Selected	Retrieved
Medline	1966-2001	2030	125	125
Embase	1992-2001	285	14	14
Cinahl	1992-2001	58	7	7
PsycInfo	1992-2001	157	20	20
Sociological abstracts	1992-2001	131	7	7
Dissertation abstracts	1992-2001	157	8	4
Social work	1992-2001	187	12	12
ERIC	1992-2001	167	4	4
WHO Reproductive Health Library No. 3	2000	84	0	0
Cochrane Library	Issue 1, 2002	141	32	32
Social Sc. Citation index	1992-2001	137	0	0
Project Monographs	1994-2001	4	4	4

Appendix 2. Assessment of reviews and meta-analyses included in this report

Author	Type	Abstract	Strategy	Sel. Bias	Sel. Crit.	Validity	Data abstraction	Char. of studies	Data synthesis	Results	Synthesis
AAP (noise) ²²⁵	R	2	3	2	2	2	2	2	2	2	3
Abel ¹⁹⁰	R	2	1	2	2	2	2	2	2	1	3
Abel ¹⁷⁰	R	3	2	2	2	2	1	2	2	2	3
Aghajafari ³⁰⁶	M	1	1	1	1	1	1	1	1	1	1
Andersen ²⁶⁷	R	3	3	3	2	2	2	3	2	2	3
Atallah ⁸⁴	M	1	1	1	1	1	1	1	1	1	1
Blondel ¹⁵⁴	SR	1	2	2	1	2	1	2	1	1	1
Brocklehurst ¹²⁹	M	1	1	1	1	1	1	1	1	1	1
Brocklehurst ¹⁴⁰	M	1	1	1	1	1	1	1	1	1	1
Brocklehurst ¹³⁹	M	1	1	1	1	1	1	1	1	1	1
Brocklehurst ¹²⁴	M	1	1	1	1	1	1	1	1	1	1
Brunton ⁵⁹	SR	1	1	2	1	1	1	1	1	1	1
Carmichael ⁹⁹	SR	1	1	2	1	2	2	2	2	1	2
Carroll ²⁴¹	M	1	1	1	1	1	1	1	1	1	1
Christian ¹⁹⁵	R	2	3	1	2	2	1	2	2	2	3
Crowley ³⁰²	M	1	1	1	1	1	1	1	1	1	1
Crowther ²⁸⁰	M	1	1	1	1	1	1	1	1	1	1
Cuervo ⁷⁸	M	1	1	1	1	1	1	1	1	1	1
De Onis ⁸⁰	SR	2	1	2	1	2	1	2	1	1	2
Devoe ²⁷⁷	R	3	1	1	1	1	1	1	1	1	1
Dolan-Mullen ¹⁷⁸	SR	1	1	2	1	2	1	2	1	1	1
Duley ⁹⁰	M	1	1	1	1	1	1	1	1	1	1
Dye ²¹²	SR	1	2	2	2	2	2	2	2	1	3
Edwards ¹⁷⁹	SR	1	1	1	1	1	1	1	1	1	1
Flynn ¹²³	M	1	1	1	1	2	1	2	1	1	1
Fried ²⁰⁶	R	3	3	3	2	2	2	3	2	2	3
Goldenberg ¹⁴	R	3	3	3	2	2	2	2	2	2	3

Author	Type	Abstract	Strategy	Selection Bias	Selection Crit.	Validity	Data abstraction	Char. of studies	Data synthesis	Results	Synthesis
Goldenberg ²⁷⁹	SR	1	2	2	2	2	1	2	2	1	3
Gulmezoglu ²⁹¹	M	1	1	1	1	1	1	1	1	1	1
Gulmezoglu ²⁹⁰	M	1	2	2	1	1	1	1	1	1	1
Gulmezoglu ³	R	2	1	1	1	2	1	2	1	1	1
Gulmezoglu ¹²⁷	M	1	1	1	1	1	1	1	1	1	1
Gulmezoglu ⁶⁶	M	1	1	1	1	1	1	1	1	1	1
Gulmezoglu ⁶⁷	M	1	1	1	1	1	1	1	1	1	1
Gulmezoglu ²⁷⁸	M	1	1	1	1	1	1	1	1	1	1
Gyetvai ²⁸²	M	1	1	1	1	1	1	1	1	1	1
Hannigan ¹⁸⁶	R	3	3	2	2	2	2	3	2	2	3
Harding ⁶²	R	3	3	3	2	2	2	2	2	2	3
Hearne ²⁸¹	R	3	3	3	2	2	2	2	2	2	3
Hodnett ¹⁵³	M	1	1	1	1	1	1	1	1	1	1
Hodnett ²⁴⁴	M	1	1	1	1	1	1	1	1	1	1
Hoffman ¹⁴⁷	SR	1	2	2	1	2	1	2	2	1	3
Hogue ⁴³	SR	2	3	2	1	2	2	2	2	2	3
Holzman ¹⁹⁹	SR	3	1	2	1	2	1	2	2	1	3
Hueston ²⁶³	M	1	1	1	1	1	1	1	1	1	1
Hughes ¹⁵²	R	2	3	2	2	2	2	2	2	2	3
Kenyon ¹¹²	M	1	1	1	1	1	1	1	1	1	1
King ¹³⁶	M	1	1	1	1	1	1	1	1	1	1
Klesges ¹⁷⁶	R	2	3	3	2	2	2	3	2	2	3
Knight ²⁹²	M	1	1	1	1	1	1	1	1	1	1
Kogan ¹⁴²	R	3	2	2	2	2	2	2	2	2	3
Kramer ¹⁴⁵	R	2	1	2	1	2	1	2	2	2	2
Kramer ¹⁴⁶	R	2	3	2	2	2	2	3	2	2	3
Kramer ⁶⁸	M	1	1	1	1	1	1	1	1	1	1
Kramer ⁷⁰	M	1	1	1	1	1	1	1	1	1	1
Kramer ⁶⁹	M	1	1	1	1	1	1	1	1	1	1
Kramer ²¹¹	M	1	1	1	1	1	1	1	1	1	1
Lamont ¹¹⁶	R	3	3	3	2	2	2	3	2	2	3

Author	Type	Abstract	Strategy	Sel. Bias	Sel. Crit.	Validity	Data abstraction	Char. of studies	Data synthesis	Results	Synthesis
Lokey ²¹³	M	2	1	1	1	2	1	2	1	2	1
Luke ⁶⁴	R	3	3	2	2	2	2	3	2	2	3
Lumley ¹⁶⁹	R	3	2	2	2	2	2	3	2	2	3
Lumley ¹⁷⁵	M	1	1	1	1	1	1	1	1	1	1
Lumley ²⁹⁷	R	3	3	2	2	2	2	3	2	2	3
Mahomed ⁸²	R	1	1	1	1	1	1	1	1	1	1
Mahomed ⁸⁶	M	1	1	1	1	1	1	1	1	1	1
Mahomed ⁷⁷	M	1	1	1	1	1	1	1	1	1	1
Mahomed ⁸⁷	M	1	1	1	1	1	1	1	1	1	1
Makrides ⁸⁵	M	1	1	1	1	1	1	1	1	1	1
McGregor ¹⁰⁹	R	2	3	2	2	2	1	2	2	2	3
Misra ¹⁰⁷	SR	3	1	1	1	2	1	2	2	2	3
Misra ²¹⁴	SR	1	1	1	1	1	1	1	1	1	1
Morris ¹¹⁵	R	3	3	2	2	2	2	2	2	2	3
Mozurkewich ²²⁹	M	1	1	1	1	1	1	1	1	1	1
Murphy ²³³	SR	1	1	1	1	1	1	1	1	1	1
Nurminen ²²⁴	SR	2	3	2	1	2	1	2	2	2	3
Oleszczuk ¹¹⁰	R	2	3	2	2	2	2	2	2	2	3
Paarlberg ¹⁴⁹	R	2	1	1	1	2	1	2	2	2	3
Ramkrishnan ⁷⁹	SR	1	1	1	1	2	1	2	2	1	3
Rasmussen ⁷³	SR	1	1	1	1	1	1	1	1	1	1
Romero ¹²¹	R	3	2	2	2	2	1	1	2	2	2
Sanchez-Ramos ²⁸⁵	M	1	1	1	1	1	1	1	1	1	1
Simpson ²²⁷	SR	3	2	2	2	2	1	2	2	2	3
Smaill ¹³³	M	1	1	1	1	1	1	1	1	1	1
Stetzer ¹³⁸	R	3	3	2	2	2	1	2	2	2	3
Vazquez ¹³⁴	M	1	1	1	1	1	1	1	1	1	1
Walker ¹³⁰	M	1	1	1	1	1	2	NA	2	1	NA
Walsh ¹⁶⁸	SR	2	1	1	1	1	1	1	2	1	3
Windham ²¹⁵	SR	1	2	1	1	1	1	1	1	1	1
Yost ¹¹⁴	R	3	2	2	2	2	2	2	2	2	3

Abbreviations:

- R = review, SR = systematic review, M = meta-analysis, NA = not available
- Abstract: 1 = detailed, 2 = informative, 3 = non-informative
- Search strategy: 1 = more than one database, 2 = one database, 3 = not defined
- Selection bias: 1 = unlikely, 2 = likely, 3 = highly likely
- Selection criteria: 1 = yes, 2 = no
- Validity assessment: 1 = yes, 2 = no
- Data abstraction: 1 = yes, 2 = no
- Study characteristics: 1 = detailed with homogeneity testing, 2 = detailed homogeneity not tested, 3 = not described
- Data Synthesis methods: 1 = described and performed, 2 = not done
- Results: 1 = description of included and excluded studies given, 2 = description not given
- Synthesis: 1 = performed adequately, 2 = inadequate, 3 = not performed

Appendix 3. List of excluded reviews

1. Alexander GR, Korenbrot CC. The role of prenatal care in preventing low birth weight. *Future Child* 1995;5:103-20.
2. Bucher HC, Guyatt GH, Cook RJ, Hatala R, Cook DJ, Lang JD et al. Effect of calcium supplementation on pregnancy-induced hypertension and preeclampsia: a meta-analysis of randomized controlled trials. *JAMA* 1996;275:1113-17.
3. Chamberlin RW. Preventing low birth weight, child abuse, and school failure: the need for comprehensive, community-wide approaches. *Pediatr Rev* 1992;13:64-71.
4. Colton T, Kayne HL, Zhang Y, Heeren T. A metaanalysis of home uterine activity monitoring. *Am J Obstet Gynecol* 1995;173:1499-505.
5. Devriendt K. Genetic control of intra-uterine growth. *Eur J Obstet Gynecol Reprod Biol* 2000;92:29-34.
6. Heaman MI, Sprague AE, Stewart PJ. Reducing the preterm birth rate: a population health strategy. *J Obstet Gynecol Neonatal Nurs* 2001;30:20-29.
7. Johnson JW, Yancey MK. A critique of the new recommendations for weight gain in pregnancy. *Am J Obstet Gynecol* 1996;174:254-58.
8. Lamont RF. New approaches in the management of preterm labour of infective aetiology. *BJOG* 1998;105:134 -7.
9. Leitich H, Egarter C, Husslein P, Kaidler A, Schemper M. A meta-analysis of low dose aspirin for the prevention of intrauterine growth retardation. *BJOG* 1997;104:450-59.
10. Lin CC, Santolaya-Forgas J. Current concepts of fetal growth restriction: part II. Diagnosis and management. *Obstetr Gynecol* 1999;93:140-46.
11. Moodley P, Sturm AW. Sexually transmitted infections, adverse pregnancy outcome and neonatal infection. *Semin Neonatol* 2000;5:255-69.
12. Murphy PA. Preterm birth prevention programs. A critique of current literature. *J Nurse Midwifery* 1993;38:324-35.
13. Osrin D, de LCA. Maternal nutrition and fetal growth: practical issues in international health. *Semin Neonatol* 2000;5:209-19.
14. Price WA, Stiles AD. Determinants of fetal and neonatal growth. *Curr Opin Pediatr* 1994;6:135-41.
15. Rosen LJ, Zucker D, Oppenheimer-Gazit V, Yagel S. The great tocolytic debate: some pitfalls in the study of safety. *Am J Obstet Gynecol* 2001;184:1-7.
16. Stevens-Simon C, Orleans M. Low-birthweight prevention programs: the enigma of failure. *Birth* 1999;26:184-91.
17. Stewart PJ, Nimrod C. The need for a community-wide approach to promote healthy babies and prevent low birth weight. *CMAJ* 1993;149:281-85
18. Vandenbosche RC, Kirchner JT. Intrauterine growth retardation. *Am Fam Phys* 1998;58:1384-90.

Appendix 4. Criteria for assessment of systematic reviews and meta-analyses²⁸

1. Abstract

- a. Objectives
- b. Search strategy
- c. Methods of review
- d. Results
- e. Conclusions

2. Methodology

- a. Search strategy
- b. Selection criteria
- c. Validity assessment
- d. Data abstraction
- e. Characteristics of studies
- f. Data synthesis

3. Results

- a. Included and excluded studies
- b. Synthesis

4. Discussion

- a. Implications for practice
- b. Implications for research

Appendix 5. Placental causes of IUGR¹⁰⁴

1. Twins
2. Chorioangioma
3. Villitis
4. Avascular villi
5. Ischemic venous necrosis
6. Vasculitis
7. Multiple infarcts
8. Syncytial knots
9. Chronic placental separation
10. Diffuse fibrinosis
11. Abnormal cord insertion
12. Fetal vessel thrombosis
13. Reduced capillarization or terminal villous branching
14. Confined placental mosaicism
15. Others

Appendix 6. Pharmacological substances affecting fetal growth¹⁰⁴

1. Amphetamine
2. Antimetabolites
3. Bromides
4. Cocaine
5. Heroin
6. Hydantoin
7. Isotretinoin
8. Methadone
9. Methylmercury
10. Phencyclidine
11. Polychlorinated biphenyls
12. Propranolol
13. Steroids
14. Toluene
15. Trimethadione
16. Warfarin
17. Others

Appendix 7. Genetic causes of IUGR

Chromosomal disorders associated with IUGR¹⁰⁴

1. Trisomy 8, 13, 18, 21
2. 4p syndrome
3. 5p syndrome
4. 13q, 18p, 18q syndrome
5. Triploidy
6. XO
7. XXY, XXXY, XXXXY
8. XXXXX
9. Others

Syndromes associated with reduced birth weight

1. Aarskog-Scott syndrome
2. Anencephaly
3. Bloom syndrome
4. Cornelia de Lange syndrome
5. Dubowitz syndrome
6. Ellis van Creveld syndrome
7. Meckel Gruber syndrome
8. Moebius syndrome
9. Potter syndrome
10. Prader Willi syndrome
11. Progeria
12. Robert syndrome
13. Robinow syndrome
14. Seckel syndrome
15. Russel-Silver syndrome
16. Smith Lemli Opitz syndrome
17. Williams syndrome
18. Others