



Treatment of maternal birth injuries following vaginal birth

SBU Evidence map, report 250E, 2016

Appendix 1 Search strategies

Cinahl via EBSCO 2 December 2015

Title: systematic reviews – complications after vaginal delivery

Search terms	Items found
Population: women with complications after vaginal delivery	
1. (MH "Labor Complications")	1,699
2. (MH "Abruptio Placentae")	388
3. (MH "Cephalopelvic Disproportion")	44
4. (MH "Dystocia")	315
5. (MH "Fetal Membranes, Premature Rupture")	895
6. (MH "Placenta Accreta")	288
7. (MH "Postpartum Hemorrhage")	1,324
8. (MH "Uterine Rupture")	533
9. (MH "Uterine Inversion")	32
10. (MH "Delivery, Obstetric/AE")	400
11. (MH "Episiotomy/AE/RH")	176
12. (MH "Vacuum Extraction, Obstetrical/AE/RH")	104
13. (MH "Labor, Induced/AE")	228
14. (MH "Vaginal Birth After Cesarean/AE")	156
15. (MH "Postnatal Period") AND (MH "Urinary Incontinence" OR MH "Fecal Incontinence" OR MH "Nociceptive Pain" OR MH "Pain" OR MH "Sexual Health")	198
16. TI (vaginal birth OR postpartum OR intrapartum OR antepartum OR Primiparity OR postnatal OR childbirth OR Obstetric*)	14,120
17. 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 OR 15 OR 16	18,680
Combined sets, limited to systematic reviews (search string from University of Texas¹)	
18. (TI (systematic* n3 review*)) or (AB (systematic* n3 review*)) or (TI (systematic* n3 bibliographic*)) or (AB (systematic* n3 bibliographic*)) or (TI (systematic* n3 literature)) or (AB (systematic* n3 literature)) or (TI (comprehensive* n3 literature)) or (AB (comprehensive* n3 literature)) or (TI (comprehensive* n3 bibliographic*)) or (AB (comprehensive* n3 bibliographic*)) or (TI (integrative n3 review)) or (AB (integrative n3 review)) or (JN "Cochrane Database of Systematic Reviews") or (TI (information n2 synthesis)) or (TI (data n2 synthesis)) or (AB (information n2 synthesis)) or (AB (data n2 synthesis)) or (TI (data n2 extract*)) or (AB (data n2 extract*)) or (TI (medline or pubmed or psyclit or cinahl or (psycinfo not "psycinfo database") or "web of science" or scopus or embase)) or (AB (medline or pubmed or psyclit or cinahl or (psycinfo not "psycinfo database") or "web of science" or scopus or embase)) or (MH "Systematic Review") or (MH "Meta Analysis") or (TI (meta-analy* or metaanaly*)) or (AB (meta-analy* or metaanaly*))	70,431
19. 17 AND 18	656

The search result, usually found at the end of the documentation, forms the list of abstracts.

AB =
Abstract AU
= Author

DE = Term from the thesaurus



MH = Term from the "Cinahl Headings" thesaurus
MM = Major Concept

TI = Title

TX = All Text. Performs a keyword search of all the database's searchable fields
ZC = Methodology Index

* = Truncation

" " = Citation Marks; searches for an exact phrase

¹ http://libguides.sph.uth.tmc.edu/cinahl_filters

Cochrane Library via Wiley 2 December 2012 (CDSR, DARE & CENTRAL)

Title: systematic reviews – complications after vaginal delivery

Search terms		Items found
Population: women with complications after vaginal delivery		
1.	MeSH descriptor: [Obstetric Labor Complications]	2396
2.	MeSH descriptor: [Abruptio Placentae]	20
3.	MeSH descriptor: [Cephalopelvic Disproportion]	4
4.	MeSH descriptor: [Dystocia]	88
5.	MeSH descriptor: [Uterine Inertia]	22
6.	MeSH descriptor: [Placenta Accreta]	10
7.	MeSH descriptor: [Postpartum Hemorrhage]	315
8.	MeSH descriptor: [Uterine Inversion]	0
9.	MeSH descriptor: [Uterine Rupture]	46
10.	MeSH descriptor: [Delivery, Obstetric]	4220
11.	MeSH descriptor: [Episiotomy]	220
12.	MeSH descriptor: [Labor, Induced]	1068
13.	MeSH descriptor: [Vaginal Birth after Cesarean]	53
14.	MeSH descriptor: [Postpartum Period] this term only	743
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	CDSR/306 DARE/493 HTA/109

The search result, usually found at the end of the documentation, forms the list of abstracts.

[AU] = Author

[MAJR] = MeSH Major Topic

[MeSH] = Term from the Medline controlled vocabulary, including terms found below this term in the MeSH hierarchy
 [MeSH:NoExp] = Does not include terms found below this term in the MeSH hierarchy

Systematic[SB] = Filter for retrieving systematic reviews
 [TI] = Title

[TIAB] = Title or abstract
 [TW] = Text Word

* = Truncation

“ “ = Citation Marks; searches for an exact phrase



Appendix 1 Search strategies

CDSR = Cochrane Database of Systematic Review

CENTRAL = Cochrane Central Register of Controlled Trials, “trials”

CRM = Method Studies

DARE = Database Abstracts of Reviews of Effects, “other reviews”

EED = Economic Evaluations

HTA = Health Technology Assessments

Embase via Elsevier 2 December 2015

Title: systematic reviews – complications after vaginal delivery

Search terms		Items found
Population: women with complications after vaginal delivery		
1.	'labor complication'/de	10,244
2.	'cephalopelvic disproportion'/de	468
3.	'dystocia'/exp	5,901
4.	'obstetric hemorrhage'/exp	11,486
5.	'uterine complication'/exp	6,913
6.	'postpartum pain'/de	269
7.	'puerperal infection'/de	2,687
8.	'placenta accreta'/exp/dm_dt,dm_su,dm_th,dm_dr,dm_co,dm_rt,dm_dm	971
9.	'placenta previa'/exp/dm_dt,dm_su,dm_th,dm_dr,dm_co,dm_rt,dm_dm	1,108
10.	'solutio placentae'/exp/dm_dt,dm_su,dm_th,dm_dr,dm_co,dm_rt,dm_dm	1,301
11.	'delivery'/exp/dm_th,dm_rh,dm_co	392
12.	'vaginal delivery'/exp/dm_th,dm_rh,dm_co	0
13.	'instrumental delivery'/exp/dm_th,dm_rh,dm_co	161
14.	'forceps delivery'/exp/dm_th,dm_rh,dm_co	1
15.	'vacuum extraction'/exp/dm_th,dm_rh,dm_co	0
16.	'labor induction'/exp/dm_th,dm_rh,dm_co	14
17.	'birth injury'/de AND [female]/lim	2,533
18.	'episiotomy'/de AND ('complication'/lnk OR 'therapy'/lnk)	830
19.	'intrapartum hemorrhage'/de OR 'postpartum hemorrhage'/exp	9,573
20.	'puerperium'/dm_co	831
21.	('childbirth'/de OR 'puerperium'/de) AND ('uterus disease'/exp OR 'incontinence'/exp OR 'dyspareunia'/exp OR 'sexual behavior'/de)	3,279
22.	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 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21	43,239
Combined sets		
23.	22 AND ([cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim)	700

/de= Term from the EMTREE controlled vocabulary

/exp= Includes terms found below this term in the EMTREE hierarchy

/mj = Major Topic

:ab = Abstract

:au = Author

:ti = Article Title

:ti:ab = Title or abstract

* = Truncation



“ “ = Citation Marks; searches for an exact phrase “ “ = Citation Marks; searches for an exact phrase

Epistemonicos 2 December 2015

Title: systematic reviews – complications after vaginal delivery

Search terms		Items found
Population: women with complications after vaginal delivery		
1.	("vaginal birth" OR postpartum OR intrapartum OR antepartum OR Primiparity OR postnatal OR childbirth OR Obstetric*) Limit: interventions Limit: systematic review	106

The search result, usually found at the end of the documentation, forms the list of abstracts.

[AU] = Author

[MAJR] = MeSH Major Topic

[MeSH] = Term from the Medline controlled vocabulary, including terms found below this term in the MeSH hierarchy [MeSH:NoExp] = Does not include terms found below this term in the MeSH hierarchy

Systematic[SB] = Filter for retrieving systematic reviews [TI] = Title

[TIAB] = Title or abstract

[TW] = Text Word

* = Truncation

“ ” = Citation Marks; searches for an exact phrase

CDSR = Cochrane Database of Systematic Review

CENTRAL = Cochrane Central Register of Controlled Trials, “trials”

CRM = Method Studies

DARE = Database Abstracts of Reviews of Effects, “other reviews” EED = Economic Evaluations

HTA = Health Technology Assessments

Joanna Briggs Institute Database via OvidSP 2 December 2015 Title: systematic reviews – complications after vaginal delivery

Search terms		Items found
Population: women with complications after vaginal delivery		
1.	'labor complication'/de OR 'cephalopelvic disproportion'/de OR 'dystocia'/de OR 'obstetric hemorrhage'/de OR 'uterine complication'/de OR 'postpartum pain'/de OR 'puerperal infection'/de OR 'placenta accreta'/de OR 'placenta previa'/de OR 'solutio placentae'/de OR 'delivery'/de OR 'vaginal delivery'/de OR 'instrumental delivery'/de OR 'forceps delivery'/de OR 'vacuum extraction'/de OR 'labor induction'/de OR 'birth injury'/de OR 'episiotomy'/de OR 'intrapartum hemorrhage'/de OR 'postpartum hemorrhage'/de OR 'puerperium'/de OR 'childbirth'/de OR exp gestational age/ or postpartum period/ or or exp pregnancy/ or exp parturition/ or exp sex/ or exp sexuality/	76
Study types: systematic review		
2.	1 limited to ("systematic review protocols" or systematic reviews)	7

The search result, usually found at the end of the documentation, forms the list of abstracts.

.ab. =Abstract

.ab,ti. = Abstract or title

.af.= All fields

Exp= Term from the Medline controlled vocabulary, including terms found below this term in the MeSH hierarchy

.sh.= Term from the Medline controlled vocabulary

.ti. = Title

/ = Term from the Medline controlled vocabulary, but does not include terms found below this term in the MeSH hierarchy

* = Focus (if found in front of a MeSH-term)

* or \$= Truncation (if found at the end of a free text term)
.mp=text, heading word, subject area node, title

Medline via OvidSP 1 December 2015

Title: systematic reviews – complications after vaginal delivery

Search terms	Items found
Population: women with complications after vaginal delivery	
1. obstetric labor complications/	15312
2. abruptio placentae/	1884
3. cephalopelvic disproportion/	80
4. dystocia/	2803
5. uterine inertia/	765
6. placenta accreta/	1453
7. postpartum hemorrhage/	5311
8. uterine inversion/	203
9. uterine rupture/	3259
10. Delivery, Obstetric/ae, co, rh [Adverse Effects, Complications, Rehabilitation]	1832
11. episiotomy/ae, co, rh [Adverse Effects, Complications, Rehabilitation]	552
12. labor, induced/ae, co, rh [Adverse Effects, Complications, Rehabilitation]	685
13. vaginal birth after cesarean/ae, co, rh [Adverse Effects, Complications, Rehabilitation]	311
14. Postpartum Period/co [Complications]	973
15. (vaginal birth.ti. OR postpartum.ti. OR intrapartum.ti. OR antepartum.ti. OR Primiparity.ti. OR postnatal.ti. OR childbirth.ti. OR Obstetric*.ti.) OR ((labour.ti. OR labor.ti. OR delivery.ti. OR deliveries.ti. OR birth.ti.) AND (vaginal.ti,ab. OR obstetric*.ti,ab. OR childbirth.ti,ab.))	4995
Limited to (in process or "pubmed not medline")	
16. 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 OR 15	36749
Study types: systematic review (Search filter: Centre for Reviews and Dissemination, Strategy 2.2)	
17. (meta-analysis/ OR review literature/ OR meta-analy\$.tw. OR metaanal\$.tw. OR (systematic\$ adj4 (review\$ or overview\$)) OR meta-analysis.pt. OR review.pt. OR review.ti. OR review literature.pt.) NOT (case report/ OR letter.pt. OR historical article.pt. OR review of reported cases.pt. OR review,multicase.pt.)	2114443
Combined sets	
18. 16 AND 17	2965

The search result, usually found at the end of the documentation, forms the list of abstracts.

.ab. =Abstract

.ab,ti. = Abstract or title

.af.= All fields

Exp= Term from the Medline controlled vocabulary, including terms found below this term in the MeSH hierarchy

.sh.= Term from the Medline controlled vocabulary

.ti. = Title



/ = Term from the Medline controlled vocabulary, but does not include terms found below this term in the MeSH hierarchy

* = Focus (if found in front of a MeSH-term)

* or \$= Truncation (if found at the end of a free text term)
.mp=text, heading word, subject area node, title

Scopus via Elsevier 3 December 2015

Title: systematic reviews – treatment of complications after vaginal delivery

Search terms		Items found
Population: women with complications after vaginal delivery		
1.	KEY ("Labor complication" OR "Obstetric Labor Complications" OR "Puerperium" OR "Postpartum Period" OR "Puerperal Disorders" OR "Postpartum Hemorrhage")	63,313
Complications		
2.	KEY("Injury" OR "Perineum injury" OR "Urinary Incontinence Stress" OR "Stress incontinence" OR "Continence" OR "Pain" OR "Fecal Incontinence" OR "Feces incontinence" OR "Anus sphincter disorder")	1,593,278
Interventions		
3.	KEY("Disease Management" OR "Suture" OR "Sutures" OR "Surgical technique" OR "Suture Techniques" OR "Suturing method") OR TITLE(Management OR treatment* OR Techniques OR intervention* OR surgical OR repair*)	3,018,139
Study types: systematic review		
4.	KEY("Systematic review") OR KEY("Meta analysis") OR TITLE(systematic W/2 review*) OR TITLE(meta-analysis)	197,311
Combined sets		
5.	2 OR 3	4,351,185
6.	1 AND 4 AND 5	308

The search result, usually found at the end of the documentation, forms the list of abstracts.

TITLE-ABS-KEY = Title or abstract or keywords

ALL = All fields

PRE/n = "precedes by". The first term in the search must precede the second by a specified number of terms (n).

W/n = "within". The terms in the search must be within a specified number of terms (n) in any order.

***** = Truncation

“ ” = Citation Marks; searches for an exact phrase

LIMIT-TO (SRCTYPE , "j" = Limit to source type journal
LIMIT-TO (DOCTYPE , "ar" = Limit to document type article

LIMIT-TO (DOCTYPE , "re" = Limit to document type review