

## Supplement 1 Search Information

## Pre-designed search terms

Population	Primip* OR nullip* OR multip* OR term gestation* OR intra?partum OR birth* OR childbirth OR labo?r* OR parturition OR planned place birth* OR childbearing wom?n OR expectant wom?n OR expectant mother* OR labo?ring wom?n OR wom?n in labo?r
Intervention/Exposure water	Water OR water?birth OR water birth OR water immersion OR hydrotherapy OR birth* pool OR birth in water OR birth in pool
Interventions during labour	Rupture membrane* OR spontaneous* OR artificial* OR augment*OR induc* OR epidural* OR oxytocin infusion OR opioid injection* OR transfer* OR transfer obstetric unit* OR electronic monitor* OR EFM OR cardiotocograph* OR auscultat* OR intermediate auscultate* OR physiological third stage OR expectant third stage OR physiological 3 <sup>rd</sup> stage OR expectant 3 <sup>rd</sup> stage OR managed third stage OR managed 3 <sup>rd</sup> stage OR active third stage OR active 3 <sup>rd</sup> stage OR placenta delivery OR delivery of the placenta
Outcomes Maternal	spontaneous vaginal birth* OR spont* delivery OR perine* OR perineal OR trauma* OR anal sphincter OR OASIS OR obstetric anal sphincter injur* OR episiotom* OR postpartum h?emorrhage* OR PPH OR h?emorrhage* OR blood transfusion* OR blood product* OR red blood cell* OR infection* OR sepsis OR admission* OR readmission* OR pain OR numerical rating scales OR NRS OR visual analog scales OR VAS OR maternal health OR wom?n health
Outcomes Neonatal	birthweight* OR gestation* OR Apgar score* OR resus* OR resuscitation OR ventilation* OR respiratory OR distress* OR transfer* OR transfer obstetric unit* OR paed* OR neonat* OR neonatal unit OR special care unit* OR antibiotic* OR admission* OR readmission* OR breastfeeding OR infection* OR sepsis OR antibiotic* OR new?born health OR neonat* health
Time	Intrapartum OR intra?partum OR birth* OR child?birth OR labo?r* OR post?natal OR post?partum OR puerperium*

### Pilot Search Terms

Population: Primip\* OR nullip\* OR multip\* OR parturient OR birth\* wom?n  
Exposure : Water OR waterbirth OR water birth OR water immersion OR immersion OR hydrotherapy OR birth\* pool OR tub  
Time: Intrapartum OR intra-partum OR birth\* OR childbirth OR labour\* OR labor\* OR parturition OR dilatation OR expulsion OR delivery of the placenta OR first stage OR second stage OR third stag

### Librarian Search Term Input

BNI (via Proquest)

S1 ab(Intrapartum OR intra-partum OR labor OR laboring OR labour OR labouring OR deliver\* OR childbirth\* OR birth\* OR parturition) OR ti(Intrapartum OR intra-partum OR labor OR laboring OR labour OR labouring OR deliver\* OR childbirth\* OR birth\* OR parturition) 98,180  
S2 MAINSUBJECT.EXACT("Childbirth & labor") 12,308  
S3 S1 OR S2 100,458  
S4 ab((Water N/3 birth) OR waterbirth OR water-birth OR (birth\* N/3 tub) OR (birth\*N/3 pool\*) OR (water N/3 immersion)) OR ti((Water N/3 birth) OR waterbirth OR water-birth OR (birth\* N/3 tub) OR (birth\* N/3 pool\*) OR (water N/3 immersion)) 501  
S5 S3 AND S4 424

CINAHL (via Ebscohost)

S1 TI ( Intrapartum OR intra-partum OR labor OR laboring OR labour OR labouring OR deliver\* OR childbirth\* OR birth\* OR parturition ) OR AB ( Intrapartum OR intra-partum OR labor OR laboring OR labour OR labouring OR deliver\* OR childbirth\* OR birth\* OR parturition ) 252,840  
S2 (MH "Childbirth+") OR (MH "Labor+") 36,176  
S3 S1 OR S2 263,207  
S4 TI ( (Water N3 birth) OR waterbirth OR water-birth OR (birth\* N3 tub) OR (birth\* N3 pool\*) OR (water N3 immersion) ) OR AB ( (Water N3 birth) OR waterbirth OR water-birth OR (birth\* N3 tub) OR (birth\* N3 pool\*) OR (water N3 immersion) ) 1,264  
S5 (MH "Water Birth") 600  
S6 S4 OR S5 1,572  
S7 S3 AND S6 824

PsycInfo (via Ebscohost)

S1 TI ( Intrapartum OR intra-partum OR labor OR laboring OR labour OR labouring OR deliver\* OR childbirth\* OR birth\* OR parturition ) OR AB ( Intrapartum OR intra-partum OR labor OR laboring OR labour OR labouring OR deliver\* OR childbirth\* OR birth\* OR parturition ) 187,428  
S2 DE "Intrapartum Period" OR DE "Birth" OR DE "Labor (Childbirth)" OR DE "Natural Childbirth" OR DE "Premature Birth" 14,070  
S3 S1 OR S2 190,598  
S4 TI ( (Water N3 birth) OR waterbirth OR water-birth OR (birth\* N3 tub) OR (birth\* N3 pool\*) OR (water N3 immersion) ) OR AB ( (Water N3 birth) OR waterbirth OR water-birth OR (birth\* N3 tub) OR (birth\* N3 pool\*) OR (water N3 immersion) ) 461  
S5 S3 AND S4 68

## Medline (via Ebscohost)

S1 TI ( Intrapartum OR intra-partum OR labor OR laboring OR labour OR labouring OR deliver\* OR childbirth\* OR birth\* OR parturition ) OR AB ( Intrapartum OR intra-partum OR labor OR laboring OR labour OR labouring OR deliver\* OR childbirth\* OR birth\* OR parturition ) 971,137

S2 (MH "Parturition+") OR (MH "Labor, Obstetric+") 60,186

S3 S1 OR S2 989,569

S4 TI ( (Water N3 birth) OR waterbirth OR water-birth OR (birth\* N3 tub) OR (birth\* N3 pool\*) OR (water N3 immersion) ) OR AB ( (Water N3 birth) OR waterbirth OR water-birth OR (birth\* N3 tub) OR (birth\* N3 pool\*) OR (water N3 immersion) ) 6,075

S5 S3 AND S4 892

## CINAHL Search

[Accessibility Information and Tips](#) Revised Date: 07/2015

[Print Search History](#)

Monday, March 09, 2020 9:20:23 AM

#	Query	Limiters/Expanders	Last Run Via	Results
S8	((MH water birth) OR (S4 OR S5)) AND (S3 AND S6)	Limiters - Published Date: 20000101-20201231 Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases Search Screen - Advanced Search	719
S7	((MH water birth) OR (S4 OR S5)) AND (S3 AND S6)	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL	826

S6	(MH water birth) OR (S4 OR S5)	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	1,577
		Search modes - Boolean/Phrase	Search Screen - Advanced Search	
			Database - CINAHL	
S5	MH water birth	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	602
		Search modes - Boolean/Phrase	Search Screen - Advanced Search	
			Database - CINAHL	
S4	TI water N3 birth OR TI ( waterbirth or water-birth ) OR TI birth* N3 tub OR TI birth* N3 pool* OR TI water N3 immersion OR AB water N3 birth OR AB ( waterbirth or water-birth ) OR AB birth* N3 tub OR AB birth* N3 pool* OR AB water N3 immersion	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	1,270
		Search modes - Boolean/Phrase	Search Screen - Advanced Search	
			Database - CINAHL	
S3	((((MH childbirth+ OR MH labor+) OR (S1 OR S2)) AND (S1 OR S2)) AND (S1 OR S2))	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	263,754
		Search modes - Boolean/Phrase	Search Screen - Advanced Search	
			Database - CINAHL	
S2	MH childbirth+ OR MH labor+	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	36,225
		Search modes - Boolean/Phrase	Search Screen - Advanced Search	

S1	TI ( intrapartum or intra-partum or labor or laboring or labour or labouring or deliver* or childbirth* or birth* or parturition ) OR AB ( intrapartum or intra-partum or labor or laboring or labour or labouring or deliver* or childbirth* or birth* or parturition )	Expanders - Apply equivalent subjects	Database - CINAHL Interface - EBSCOhost Research Databases	253,388
		Search modes - Boolean/Phrase	Search Screen - Advanced Search Database - CINAHL	

## Psychinfo Search

[Accessibility Information and Tips](#) Revised Date: 07/2015

[Print Search History](#)

Monday, March 09, 2020 9:59:32 AM

#	Query	Limiters/Expanders	Last Run Via	Results
S5	(TI water N3 birth OR TI ( waterbirth or water-birth ) OR TI birth* N3 tub OR TI birth* N3 pool OR TI water N3 immersion OR AB water N3 birth OR AB ( waterbirth or water-birth ) OR AB birth* N3 tub OR AB birth* N3 pool OR AB water N3 immersion) AND (S3 AND S4)	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	58
		Search modes - Boolean/Phrase	Search Screen - Advanced Search	
S4	TI water N3 birth OR TI ( waterbirth or water-birth ) OR TI birth* N3 tub OR TI birth* N3 pool OR TI water N3 immersion OR AB water N3 birth OR AB ( waterbirth or water-birth ) OR AB birth* N3 tub OR AB birth* N3 pool OR AB water N3 immersion	Expanders - Apply equivalent subjects	Database - APA PsycInfo Interface - EBSCOhost Research Databases	451
		Search modes - Boolean/Phrase	Search Screen - Advanced Search	

Database - APA PsycInfo				
S3	((((MM "Intrapartum Period") OR (MM "Birth" OR MM "Birth Weight" OR MM "Caesarean Birth" OR MM "Labor (Childbirth)" OR MM "Natural Childbirth" OR MM "Premature Birth"))) OR (MM "Labor (Childbirth)" OR MM "Caesarean Birth" OR MM "Intrapartum Period"))) OR (S1 OR S2)	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	190,277
		Search modes - Boolean/Phrase	Search Screen - Advanced Search	
Database - APA PsycInfo				
S2	((MM "Intrapartum Period") OR (MM "Birth" OR MM "Birth Weight" OR MM "Caesarean Birth" OR MM "Labor (Childbirth)" OR MM "Natural Childbirth" OR MM "Premature Birth"))) OR (MM "Labor (Childbirth)" OR MM "Caesarean Birth" OR MM "Intrapartum Period")	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	12,875
		Search modes - Boolean/Phrase	Search Screen - Advanced Search	
Database - APA PsycInfo				
S1	TI ( intrapartum or intra-partum or labor or laboring or labour or labouring or deliver* or childbirth* or birth* or parturition ) OR AB ( intrapartum or intra-partum or labor or laboring or labour or labouring or deliver* or childbirth* or birth* or parturition )	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	187,669
		Search modes - Boolean/Phrase	Search Screen - Advanced Search	
Database - APA PsycInfo				

## Medline Search

[Accessibility Information and Tips](#) Revised Date: 07/2015

## Print Search History

Monday, March 09, 2020 11:32:22 AM

#	Query	Limiters/Expanders	Last Run Via	Results
S5	(TI Water N3 birth OR TI ( waterbirth or water-birth ) OR TI birth N3 tub OR TI birth N3 pool OR TI water N3 immersion OR AB Water N3 birth OR AB ( waterbirth or water-birth ) OR AB birth N3 tub OR AB birth N3 pool OR AB water N3 immersion) AND (S3 AND S4)	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	697
		Search modes - Boolean/Phrase	Search Screen - Advanced Search  Database - MEDLINE with Full Text	
S4	TI Water N3 birth OR TI ( waterbirth or water-birth ) OR TI birth N3 tub OR TI birth N3 pool OR TI water N3 immersion OR AB Water N3 birth OR AB ( waterbirth or water-birth ) OR AB birth N3 tub OR AB birth N3 pool OR AB water N3 immersion	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	5,881
		Search modes - Boolean/Phrase	Search Screen - Advanced Search  Database - MEDLINE with Full Text	
S3	(MH Parturition+ OR MH Labor, Obstetric+) OR (S1 OR S2)	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	988,860
		Search modes - Boolean/Phrase	Search Screen - Advanced Search  Database - MEDLINE with Full Text	

S2	MH Parturition+ OR MH Labor, Obstetric+	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	60,125
		Search modes - Boolean/Phrase	Search Screen - Advanced Search	
			Database - MEDLINE with Full Text	
S1	TI ( intrapartum or intra-partum or labor or laboring or labour or labouring or deliver* or childbirth* or birth* or parturition ) OR AB ( intrapartum or intra-partum or labor or laboring or labour or labouring or deliver* or childbirth* or birth* or parturition )	Expanders - Apply equivalent subjects	Interface - EBSCOhost Research Databases	970,439
		Search modes - Boolean/Phrase	Search Screen - Advanced Search	
			Database - MEDLINE with Full Text	

## Embase Search

# ▼	Searches	Results	Type	Actions	Annot ations
7	3 and 6	552	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
6	4 or 5	55859	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
5	exp labor/	34388	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
4	exp childbirth/	55859	Advanced	<a href="#">Display Results</a>	



3	1 and 2	39342	Advanced	<a href="#">More</a> <a href="#">Display Results</a>
2	(water or waterbirth or water birth or water immersion or hydrotherapy or birth* pool).ti. or (water or waterbirth or water birth or water immersion or hydrotherapy or birth* pool).ab.	883990	Advanced	<a href="#">More</a> <a href="#">Display Results</a>
1	(intrapartum or intra-partum or labor or laboring or labour or labouring or deliver* or childbirth* or birth* or parturition).ti. or (intrapartum or intra-partum or labor or laboring or labour or labouring or deliver* or childbirth* or birth* or parturition).ab.	1283598	Advanced	<a href="#">Display Results</a>

*Cochrane Central Search*

## Search

Name: water

Date Run: 3/9/2020 4:18:27 PM

Comment:

ID	Search	Hits
#1	intrapartum or intra-partum or labor or laboring or labour or labouring or deliver* or childbirth* or birth* or parturition	109154
#2	MeSH descriptor: [Labor, Obstetric] explode all trees	2298
#3	MeSH descriptor: [Parturition] explode all trees	408
#4	#1 or #2 or #3 (water NEAR birth):ti,ab,kw OR (water NEAR immersion):ti,ab,kw OR (waterbirth* or water-birth*):ti,ab,kw OR (birth* NEAR tub):ti,ab,kw OR (birth* NEAR pool):ti,ab,kw	109322
#5	#4 AND #5	788
#6		87

*Results*

Database	Number of hits
CINAHL	719
pyshinfo	58
MEDLINE	697
EMBASE	552

COCHRANE	87	
	<b>2113</b>	
Duplicates removed	446	
	1667	
Screened		
title/abstract	1667	
Excluded	1561	
Included for full text	<b>106</b>	
Full text EXCLUDED	49	
<b>Full text INCLUDED</b>	<b>57</b>	
BMC update	1	
	58	INCLUDED

#### *Excluded Reasons*

<b>Reasons for exclusions</b>	<b>Number</b>
Unable to obtain text	11
Wrong study outcomes	7
Wrong study design	6
Conference abstract	5
Discussion paper not research	2
Reprinted publication	1
Unable to translate text	9
Duplicate	4
Letter not research	2
Wrong publication type	1
Poster	1
	<b>49</b>