Appendix 1 (as supplied by the authors)

Appendix 1A: Search Strategy for Ovid MEDLINE

MEDLINE (Ovid)

- 1. exp Infant, Newborn/
- 2. Infant, Low Birth Weight/
- 3. Infant, Premature/
- 4. Infant, Extremely Premature/
- 5. Intensive Care Units, Neonatal/
- 6. Intensive Care, Neonatal/
- (Neonat* or newborn or NICU or premature or preterm or ((newborn or neonat*) adj2 (intensive or critical) adj2 (care or unit))).mp
- 8. Trinitroglycerin.mp
- 9. Nitrol.mp
- 10. Nitroglycerin/
- 11. Nitroglycerin.mp
- 12. Glyceryl trinitrate.mp
- 13. 1 or 2 or 3 or 4 or 5 or 6 or 7

1

15. 13 and 14

Appendix 1B: PRESS Guideline - Search Submission & Peer Review Assessment

SEARCH SUBMISSION: THIS SECTION TO BE FILLED IN BY THE SEARCHER

Searcher: K. Sushko	Email: sushkokj@mcmaster.ca	
Date submitted: October 9, 2020	Date requested: by: October 19, 2020	

Systematic Review Title: Topical Nitroglycerin Ointment as Salvage Therapy for Peripheral Tissue Ischemia in Newborn Infants:

A Systematic Review

This search strategy is ...

 X
 My PRIMARY (core) database strategy — First time submitting a strategy for search question and database

 My PRIMARY (core) strategy — Follow-up review NOT the first time submitting a strategy for search question and database. If this is a response to peer review, itemize the changes made to the review suggestions

 SECONDARY search strategy — First time submitting a strategy for search question and database

 SECONDARY search strategy — First time submitting a strategy for search question and database

 SECONDARY search strategy — NOT the first time submitting a strategy for search question and database. If this is a response to peer review, itemize the changes made to the review suggestions

 Database

Database

(i.e., MEDLINE,CINAHL...): *MEDLINE*

Interface

(i.e., Ovid, EBSCO...): *Ovid*

[mandatory]

[mandatory]

[mandatory]

Research Question

(Describe the purpose of the search)

What is the effect of topical nitroglycerine products (TNG ointment, TNG spray, or GTN patch) compared to standard care or any other therapeutic intervention without the application of topical nitroglycerin products, on neonatal peripheral tissue ischemia?

PICO Format

(Outli	ine the PICOs for your question — i.e., Patient, Intervention, Comparison, Outcome, and Study Design — as applicable)
Р	Preterm and term newborn infants in the neonatal intensive care unit with peripheral tissue ischemia
Ι	Topical nitroglycerin products
С	Standard of care or any other therapeutic intervention without the application of topical nitroglycerin products
0	Effect on the area of peripheral tissue ischemia
S	n/a

Inclusion Criteria

(List criteria such as age groups, study designs, etc., to be included) [optional]

Exclusion Criteria

(List criteria such as study designs, date limits, etc., to be excluded) [optional]

Was a search filter applied?

Yes, No

If YES, which one(s) (e.g., Cochrane RCT filter, PubMed Clinical Queries filter)? Provide the source if this is a published filter. [mandatory if YES to previous question — textbox]

Other notes or comments you feel would be useful for the peer reviewer? [optional]

Please copy and paste your search strategy here, exactly as run, including the number of hits per line. [mandatory]

Appendix to: Sushko K, Litalien C, Ferruccio L, et al. Topical nitroglycerin ointment as salvage therapy for peripheral tissue ischemia in newborns: a systematic review. *CMAJ Open* 2021. doi: 10.9778/cmajo.20200129. Copyright © 2021 The Author(s) or their employer(s). To receive this resource in an accessible format, please contact us at cmajgroup@cmaj.ca.

Medline (Ovid)	
Searches	Results
Exp Infant, Newborn/	611659
Infant, Low Birth Weight/	18600
Infant, Premature/	54189
Infant, Extremely Premature/	2611
Intensive Care Units, Neonatal/	14981
Intensive Care, Neonatal/	5712
Neonat*.mp	295846
Nitroglycerin/	12299
Nitroglycerin.mp	15924
Glyceryl trinitrate.mp	2475
1 or 2 or 3 or 4 or 5 or 6 or 7	747670
8 or 9 or 10	16652
11 and 12	164

PEER REVIEW ASSESSMENT: THIS SECTION TO BE FILLED IN BY THE REVIEWER

Reviewer: Denise Smith	Email:	dsmith@mcmaster.ca	Date completed: October 19
	dsdsmidsmith@		
	mcmaster		

1. TRANSLATION

A No revisions	Х
B Revision(s) suggested	
C Revision(s) required	

If "B" or "C," please provide an explanation or example:

2. BOOLEAN AND PROXIMITY OPERATORS

Appendix to: Sushko K, Litalien C, Ferruccio L, et al. Topical nitroglycerin ointment as salvage therapy for peripheral tissue ischemia in newborns: a systematic review. *CMAJ Open* 2021. doi: 10.9778/cmajo.20200129. Copyright © 2021 The Author(s) or their employer(s). To receive this resource in an accessible format, please contact us at cmajgroup@cmaj.ca.

A No revisions	Х
B Revision(s) suggested	
C Revision(s) required	

If "B" or "C," please provide an explanation or example:

3. SUBJECT HEADINGS

A No revisions	
B Revision(s) suggested	Х
C Revision(s) required	

If "B" or "C," please provide an explanation or example:

1. Lines 2-4 are redundant, remove them. They are accounted for and included in in the search noted on line 1

4. TEXT WORD SEARCHING

A No revisions	
B Revision(s)suggested	
C Revision(s) required	Х

If "B" or "C," please provide an explanation or example:

- 1. This search is not comprehensive enough to meet the standard for a systematic review literature search. In order to reach this standard, add the following keyword terms:
 - a. Change line 7 to:
 - (Neonat* or newborn or NICU or premature or preterm or ((newborn or neonat*) adj2 (intensive or critical) adj2 (care or unit))).mp.
 - b. Add a keyword for the trade name of nitroglycerin: *nitrol.mp*.
 - c. Another name for nitroglycerin: *trinitroglyrin.mp*.

5. SPELLING, SYNTAX, AND LINE NUMBERS

A No revisions	Х
B Revision(s)suggested	
C Revision(s) required	

If "B" or "C," please provide an explanation or example:

6. LIMITS AND FILTERS	
-----------------------	--

A ---No revisions

Appendix to: Sushko K, Litalien C, Ferruccio L, et al. Topical nitroglycerin ointment as salvage therapy for peripheral tissue ischemia in newborns: a systematic review. *CMAJ Open* 2021. doi: 10.9778/cmajo.20200129. Copyright © 2021 The Author(s) or their employer(s). To receive this resource in an accessible format, please contact us at cmajgroup@cmaj.ca.

Х

B Revision(s) suggested	
C Revision(s) required	

If "B" or "C," please provide an explanation or example: No applicable.

OVERALL EVALUATION (Note: If one or more "revision required" is noted above, the response below must be "revisions required".)

A No revisions	
B Revision(s) suggested	
C Revision(s) required	Х

Additional comments:

Improve the comprehensiveness and rigor of your search strategy by adding the keyword terms noted in section 4. Revisions to subject headings are advised but not required.