

**Total versus subtotal (supracervical) hysterectomy for
benign gynaecological conditions:
update searches and screening
for
Universitätsklinikum Schleswig-Holstein/Campus Kiel**



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1. PROJECT OBJECTIVES

A key aim of the research project “Making SDM a reality” is to inform patients as part of shared decision making (SDM).

Kleijnen Systematic Reviews (KSR) Ltd has prepared an evidence report with a synthesis of the evidence of total versus subtotal (supracervical) hysterectomy for benign gynaecological conditions.

2. METHODS

LITERATURE SEARCHES

Literature searches were conducted to identify systematic reviews and evidence-based guidelines about hysterectomy to update the 2019 evidence report.

The search strategies were developed specifically for each database and the keywords adapted according to the configuration of each database. Searches were limited by date range to update earlier searches: 2019-2021. Searches were not limited by language or publication status.

SEARCH SOURCES

Systematic reviews and guidelines

The following systematic review and health technology assessment specific databases were searched:

- Cochrane Database of Systematic Reviews (CDSR) (Wiley): issue 9 of 12, September 2021
- KSR Evidence (Internet) (<https://ksrevidence.com/>): 2019-2021
- Epistemonikos (Internet) (<https://www.epistemonikos.org/>): 2019-2021
- International HTA Database (INAHTA) (<https://database.inahta.org/>): 2019-2021

The following guidelines resources were searched:

- Guidelines International Network (GIN) (Internet) (<https://www.g-i-n.net/home>): 2019-2021
- NICE Evidence (Internet) (www.evidence.nhs.uk/): 2019-2021
- NICE Guidance (Internet) (<https://www.nice.org.uk/guidance>): 2019-2021
- ECRI Guidelines Trust (Internet) (<https://guidelines.ecri.org/>): 2019-2021
- Trip Database (<https://www.tripdatabase.com/>): 2019-2021
- Canadian Agency for Drugs and Technologies in Health (CADTH) (www.cadth.ca): 2019-2021

Full details of all search strategies are presented in Appendix 1.

Handling of citations

References identified from the searches were downloaded into EndNote bibliographic management software for further assessment and handling.

Supplementary searches

The bibliographies of included studies and review articles were also checked for additional relevant articles.

Prioritisation

During formal screening of titles and abstracts, studies were subject to a prioritisation process whereby the recency e.g., to most up-to-date clinical practice guidelines (CPG), methodological quality e.g., Cochrane systematic review (CSR), quality of the analyses per outcome (e.g., ratio of RCTs to observational studies), the number of included RCTs, the breadth of the timepoints reported etc. were considered to further prioritise which studies would be used to inform analyses. Studies were categorised into the following three categories: '1' = German, American, European or similar CPG; '2' = CSR or similar quality SR; '3' = potentially lower/other quality SR.

3. RESULTS

The original EBSCO searches were conducted on August 5, 2019; and of the 30 references screened, 5 studies were deemed eligible. In the current update, a total of 697 records were retrieved from the electronic literature searches (see Appendix 1). After the removal of duplicate records 433 titles and abstracts were screened by two reviewers. Four records were found to be potentially eligible and were longlisted after a consensus. Of those, one was subsequently short-listed and included in the analyses (Table 1).¹ See also Table 2 for an overview of primary studies included in the identified CPG.

UPDATE – Concluding Assessment by SHARE-TO-CARE Evidence Team (14/06/22)

Based on the update searches conducted by KSR Ltd in September 2021, we outline the importance of shared decision making between women and physicians when deciding on whether to remove or retain the cervix with hysterectomy, as has been reinforced by the recent NICE guideline from 2018.

Conclusion regarding the evidence report: No full evidence update required. The former evidence report (July, 2019) remains valid until further notice.

Table 1 Evidence sources

Study/year	Evidence type	Primary studies	Number of studies	Intervention	Comparator	Outcome	Date searched	Conclusions
NICE 2018 ¹	CPG	RCTs	3	Transcervical resection of endometrium, thermal balloon ablation, levonorgestrel-releasing intrauterine system	Laparoscopic subtotal hysterectomy	Menstrual blood loss, life quality, adverse effects	November 23, 2016	Please see section 1.5.19
CGP = clinical practice guideline; NICE = National Institute for Health and Care Excellence; RCT = randomised controlled trial.								

Table 2 Overview of primary studies included in the identified SRs/CPGs

Study/year	Primary study(ies)	Reference (first author & journal)
NICE 2018 ¹	RCTs	1. Sesti, F., Piancatelli, R., Pietropolli, A., Ruggeri, V., Piccione, E., Levonorgestrel-releasing intrauterine system versus laparoscopic supracervical hysterectomy for the treatment of heavy menstrual bleeding: a randomized study, <i>Journal of Women's Health</i>, 21, 851-7, 2012 2. Sesti, F., Ruggeri, V., Pietropolli, A., Piancatelli, R., Piccione, E., Thermal balloon ablation versus laparoscopic supracervical hysterectomy for the surgical treatment of heavy menstrual bleeding: a randomized study, <i>Journal of Obstetrics & Gynaecology Research</i>, 37, 1650-7, 2011 3. Zupi, E., Zullo, F., Marconi, D., Sbracia, M., Pellicano, M., Solima, E., Sorrenti, G., Hysteroscopic endometrial resection versus laparoscopic supracervical hysterectomy for menorrhagia: a prospective randomized trial, <i>American Journal of Obstetrics and Gynecology</i>, 188, 7-12, 2003
* = one study was reported in multiple papers NICE = National Institute for Health and Care Excellence; RCT = randomised controlled trial.		

REFERENCES

[1] National Institute for Health and Care Excellence (NICE). *Heavy menstrual bleeding: assessment and management. NICE guideline 88 [Internet]*. London: National Institute for Health and Care Excellence, 2018 [accessed 22.9.21] Available from: <https://www.nice.org.uk/guidance/ng88>

APPENDIX 1: SEARCH STRATEGIES

Shared Decision Making: Total versus subtotal (supracervical) hysterectomy for benign gynaecological conditions update (EBSCO)

Table 3. Systematic reviews and guideline search results

Database	Dates	Results
CDSR	2019 - Issue 9, September 2021	14
KSR Evidence	2019-2021	217
Epistemonikos	2019-2021	244
INAHTA	2019-2021	3
NICE Evidence	01/01/2019 - 21/09/2021	24
NICE Guidance	2019-2021	11
GIN	2019-2021	0
ECRI	2019-2021	2
Trip	2019-2021	182
CADTH	2019-2021	0
Total		697
Total after de-duplication		433

Search strategies

Cochrane Database of Systematic Reviews (CDSR) (Wiley): Issue 9 of 12, September 2021 Searched: 21.9.21

#1 MeSH descriptor: [Hysterectomy] explode all trees 1842
#2 (hysterectomy or hysterectomies):ti,ab,kw 7330
#3 (colpohysterectomy or colpohysterectomies or trachelectomy or trachelectomies or cervicectomy or cervicectomies or hysterocolpectom* or panhysterectom*):ti,ab,kw 32
#4 ((uterus or uterine or uteri or supracervical or supervaginal) near/3 (excis* or amputat* or extirpat*)):ti,ab,kw 33
#5 #1 or #2 or #3 or #4 with Cochrane Library publication date Between Jan 2019 and Dec 2021, in Cochrane Reviews, Cochrane Protocols 14

KSR Evidence (Internet): Database last updated 21 September 2021

www.ksrevidence.com

Searched: 21.9.21

1 hysterectomy or hysterectomies in All text 440 results
2 colpohysterectomy or colpohysterectomies or trachelectomy or trachelectomies or cervicectomy or cervicectomies or hysterocolpectom* or panhysterectom* in All text 20 results
3 (uterus or uterine or uteri or supracervical or supervaginal) near/3 (excis* or amputat* or extirpat*) in All text 2 results
4 #1 or #2 or #3 in All text Date published: 2019 - 2021 217 results
Search run Tue Sep 21 2021

Epistemonikos (Internet): up to 21 September 2021

<https://www.epistemonikos.org/en/>

Searched: 21.9.21

(title:(hysterectomy* OR colpohysterectomy* OR trachelectomy* OR cervicectomy* OR hysterocolpsectomy* OR panhysterectomy*) OR abstract:(hysterectomy* OR colpohysterectomy* OR trachelectomy* OR cervicectomy* OR hysterocolpsectomy* OR panhysterectomy*)) Publication year: Custom year range: From 2019 To 2021; Publication Type: Systematic Review

Records retrieved 244

International HTA Database (INAHTA): up to 21 September 2021

<https://database.inahta.org/>

Searched: 21.9.21

1 "Hysterectomy"[mh] 29
2 hysterectomy* OR colpohysterectomy* OR trachelectomy* OR cervicectomy* OR hysterocolpsectomy* OR panhysterectomy* 78
3 #1 OR #2 YEAR 2019 TO 2021 3

NICE Evidence Search (Internet): up to 21 September 2021

<https://www.evidence.nhs.uk/>

Searched: 21.9.21

Search terms	Results (Guidance): 01/01/2019-20/09/2021
hysterectomy*	46
Total retrieved	46
Sifted for relevance	24

National Institute for Health and Care Excellence (NICE): Guidelines

<https://www.nice.org.uk/>

Searched: 20.9.21

hysterectomy

2019-2021

Guidance 6

Advice 0

Quality standards 0

Pathways 5

Total 11

Guidelines International Network (GIN). International Guidelines Library (Internet): up to 22 September 2021

<https://g-i-n.net/international-guidelines-library/>

Searched: 22.9.21

hysterectomy

2019-2021

0 records retrieved

ECRI Institute Guidelines Trust (Internet): up to 22 September 2021

<https://guidelines.ecri.org/>

Searched: 22.9.21

hysterectomy

2019-2021

2 records retrieved

Trip Database: up to 20 September 2021

<https://www.tripdatabase.com/>

Searched: 20.9.21

hysterectomy OR hysterectomies OR colpohysterectomy* OR trachelectomy* OR
cervicectomy* OR hysterocolpsectomy* OR panhysterectomy*; in the Document; 2019, 2021

Guidelines: 123 records retrieved

hysterectomy OR hysterectomies OR colpohysterectomy* OR trachelectomy* OR
cervicectomy* OR hysterocolpsectomy* OR panhysterectomy*; in the Title; 2019, 2021

Systematic Reviews: 59 records retrieved

182 records retrieved

Canadian Agency for Drugs and Technologies in Health (CADTH): up to 22 September 2021

<https://www.cadth.ca/>

Searched: 22.9.21

hysterectomy

Advanced Search; Project Line; Health Technology Assessment; 2019-2021

0 records retrieved