

Supplementary File 2: Search algorithms**Medline Ovid RCT only**

- 1 exp Cervical Intraepithelial Neoplasia/
- 2 CIN.mp.
- 3 (cervi* and (intraepithel* or epithel*)).mp.
- 4 (cervi* and dysplasia).mp.
- 5 (cervi* and carcinoma in situ).mp.
- 6 (cervi* and cancer in situ).mp.
- 7 (cervi* and (precancer* or pre-cancer*)).mp.
- 8 1 or 2 or 3 or 4 or 5 or 6 or 7
- 9 surgery.fs.
- 10 exp Gynecologic Surgical Procedures/
- 11 (surg* or ablat* or excis* or cryotherapy or laser* or cone or conisation or biopsy or transformation zone or LLETZ or LEEP).mp.
- 12 9 or 10 or 11
- 13 8 and 12
- 14 randomized controlled trial.pt.
- 15 controlled clinical trial.pt.
- 16 randomized.ab.
- 17 placebo.ab.
- 18 clinical trials as topic.sh.
- 19 randomly.ab.
- 20 trial.ti.
- 21 14 or 15 or 16 or 17 or 18 or 19 or 20
- 22 13 and 21

Medline Ovid NON RCT only

1. exp Cervical Intraepithelial Neoplasia/
2. CIN.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
3. (cervi* and (intraepithel* or epithel*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
4. (cervi* and dysplasia).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]

5. (cervi* and carcinoma in situ).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
6. (cervi* and cancer in situ).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
7. (cervi* and (precancer* or pre-cancer*)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
8. 1 or 2 or 3 or 4 or 5 or 6 or 7
9. surgery.fs.
10. exp Gynecologic Surgical Procedures/
11. (surg* or ablat* or excis* or cryotherapy or laser* or cone or conisation or biopsy or transformation zone or LLETZ or LEEP).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
12. 9 or 10 or 11
13. 8 and 12
14. randomized controlled trial.pt.
15. controlled clinical trial.pt.
16. randomized.ab.
17. placebo.ab.
18. clinical trials as topic.sh.
19. randomly.ab.
20. trial.ti.
21. groups.ab.
22. exp cohort studies/
23. exp case-control studies/
24. (cohort* or prospective* or retrospective* or (case* and (control* or series))).mp.
25. 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24
26. (animals not (humans and animals)).sh.
27. 25 not 26
28. 13 and 27

Embase Ovid RCT only

- 1 exp Uterine Cervix Carcinoma in Situ/

- 2 CIN.mp.
- 3 (cervi* and (intraepithel* or epithel*)).mp.
- 4 (cervi* and dysplasia).mp.
- 5 (cervi* and carcinoma in situ).mp.
- 6 (cervi* and cancer in situ).mp.
- 7 (cervi* and (precancer* or pre-cancer*)).mp.
- 8 1 or 2 or 3 or 4 or 5 or 6 or 7
- 9 su.fs.
- 10 exp gynecologic surgery/
- 11 (surg* or ablat* or excis* or cryotherapy or laser* or cone or conisation or biopsy or transformation zone or LLETZ or LEEP).mp.
- 12 9 or 10 or 11
- 13 8 and 12
- 14 crossover procedure/
- 15 double-blind procedure/
- 16 randomized controlled trial/
- 17 single-blind procedure/
- 18 random*.mp.
- 19 factorial*.mp.
- 20 (crossover* or cross over* or cross-over*).mp.
- 21 placebo*.mp.
- 22 (double* adj blind*).mp.
- 23 (singl* adj blind*).mp.
- 24 assign*.mp.
- 25 allocat*.mp.
- 26 volunteer*.mp.
- 27 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26
- 28 13 and 27

Embase Ovid All Studies

1. exp Uterine Cervix Carcinoma in Situ/
2. CIN.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word]
3. (cervi* and (intraepithel* or epithel*)).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word]

4. (cervi* and dysplasia).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word]
5. (cervi* and carcinoma in situ).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word]
6. (cervi* and cancer in situ).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word]
7. (cervi* and (precancer* or pre-cancer*)).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word]
8. 1 or 2 or 3 or 4 or 5 or 6 or 7
9. su.fs.
10. exp gynecologic surgery/
11. (surg* or ablat* or excis* or cryotherapy or laser* or cone or conisation or biopsy or transformation zone or LLETZ or LEEP).mp.
12. 9 or 10 or 11
13. 8 and 12
14. exp controlled clinical trial/
15. randomized.ab.
16. randomly.ab.
17. trial.ab.
18. groups.ab.
19. exp cohort analysis/
20. cohort*.mp.
21. exp retrospective study/
22. exp prospective study/
23. (case* and series).mp.
24. 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23
25. 13 and 24

CENTRAL

- #1 MeSH descriptor Cervical Intraepithelial Neoplasia explode all trees
- #2 CIN
- #3 cervi* and (intraepithel* or epithel*)
- #4 cervi* and dysplasia
- #5 cervi* and carcinoma in situ
- #6 cervi* and cancer in situ
- #7 cervi* and (precancer* or pre-cancer*)
- #8 (#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7)

#9 Any MeSH descriptor with qualifier(s): [Surgery - SU]
#10 MeSH descriptor: [Gynecologic Surgical Procedures] explode all trees
#11 surg* or ablat* or excis* or cryotherapy or laser* or cone or conisation or biopsy
or transformation zone or LLETZ or LEEP
#12 #9 or #10 or #11
#13 #8 and #12