**Guideline topic: Ovarian Cancer**

**General comments**
Update of SIGN 75 Epithelial Ovarian Cancer. 2003

**Search coverage**

**Patient searches**
The patient search was conducted using the search strategy outlined below in conjunction with the new patient search filter.  
*Databases covered: Medline, Embase, CINAHL, PsycINFO*  
**Dates covered:** 2007-2011

Total hits: 2877  
*Sifted result:* 101

**Systematic reviews**

*Databases covered: Medline, Embase, CINAHL, PsycINFO,*  
*Cochrane*  
**Dates covered:** 2003-2012

Total hits: 897  
*Sifted result:* 126  
**Papers requested:** 82

**RCTs**

*Databases covered: Medline, Embase, CINAHL, PsycINFO,*  
*Cochrane*  
**Dates covered:** Various depending on topic; see Scope of Searches below

**Observational studies/ Searches without filter**

*Databases covered: Medline, Embase, CINAHL, PsycINFO*  
**Dates covered:** Various depending on topic; see Scope of Searches below

**Supplementary search on Histological subtypes (no filter search)**

*Databases covered: Medline, Embase*  
**Dates covered:** 2008-2012

Total hits: 1330  
*Sifted result:* 28  
**Papers requested:** 17

**Search strategies**
The following are listings of the main Medline strategies used for this guideline. All conventions and symbols are from the Ovid implementation of Medline. Strategies used in other databases were substantially the same, though different terminology may have been used to take account of different thesauri used in non-Medline databases. Search filters were added to identify studies of a particular type (systematic review, RCT etc.) Listings of the search filters used by SIGN can be found on the SIGN Web site.

**Patient/Generic Stem:**

Generic stem - Medline
1. exp Ovarian Neoplasms/
2. (ovar* adj5 (cancer* or tumor* or tumour* or neoplas* or malignan* or carcinoma*)).tw.
3. 1 or 2

Generic stem - Embase
1. exp ovary tumor/
2. (ovar* adj5 (cancer* or tumor* or tumour* or neoplas* or malignan* or carcinoma*)).tw.
3. 1 or 2

Scope of searches for RCTs, observational studies and searches without filter

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Medline Search strategies used for specific key questions are given below. These search strategies were combined with the generic stem strategy.

KQ 1 (lymphadenectomy in early stage ovarian cancer)
1. exp Lymph Node Excision/
2. lymphadenectom*.tw.
3. lymph node*.tw.
4. or/1-3

KQ 2 (fertility-sparing surgery)
1. exp Surgical Procedures, Operative/
2. surg*.tw.
3. surgery.fs.
4. or/1-3
5. exp Fertility Preservation/
6. Fertility/
7. Infertility/
8. Infertility, Female/
9. Organ Sparing Treatments/
11. (fertility adj3 preserv*).tw.
12. (preserv* adj5 function*).tw.
14. (unilateral adj3 oophorectom*).tw.
15. (minimally adj3 invasive).tw.
16. or/5-15
17. 4 and 16

KQ 3 (complete versus standard cytoreduction)
1. exp Surgical Procedures, Operative/
2. surg*.tw.
3. surgery.fs.
4. or/1-3
5. debulk*.tw.
6. cytoreduc*.tw.
7. (ultraradical or ultra-radical or ultra radical).tw.
8. exp Omentum/
9. omentum.tw.
10. bowel.tw.
11. abdom*.tw.
12. exp Spleen/
13. spleen.tw.
14. exp Liver/
15. liver.tw.
16. exp Diaphragm/
17. diaphragm.tw.
18. exp Lymph Nodes/
19. (lymph adj node*).tw.
20. exp Peritoneum/
21. peritone*.tw.
22. exp Urinary Tract/
24. exp Splenectomy/
26. exp Hysterectomy/
27. hysterectom*.tw.
28. exp Lymph Node Excision/
29. (bilateral adj salpingo adj oophorectomy).tw.
30. omentectom*.tw.
31. exp Surgical Stomas/
32. stoma*.tw.
33. or/5-32
34. 4 and 33

KQ 4 (NACT plus surgery for advanced ovarian cancer)
1. exp Surgical Procedures, Operative/
2. surg*.tw.
3. surgery.fs.
4. or/1-3
5. (interval or debulk* or cytoreduc* or secondary).tw.
6. 4 and 5
7. nact.tw.
8. exp Neoadjuvant Therapy/
9. exp Chemotherapy, Adjuvant/
10. exp Antineoplastic Agents/
11. exp Antineoplastic Protocols/
12. exp Induction Chemotherapy/
13. chemotherap*.tw.
14. or/7-13
15. 6 and 14

KQ 5 (surgery for relapsed ovarian cancer)
1. exp Surgical Procedures, Operative/
2. surg*.tw.
3. surgery.fs.
4. or/1-3
5. (interval or debulk* or cytoreduc* or secondary).tw.
6. 4 and 5

KQ 6, 7, 9 (Chemotherapy for early, advanced and relapsed ovarian cancer)
1. chemotherap*.tw.
2. dt.fs.
3. exp Antineoplastic Protocols/
4. exp chemotherapy, adjuvant/
5. exp consolidation chemotherapy/
6. exp Drug Administration Schedule/
7. Drug Therapy, Combination/
8. exp Induction Chemotherapy/
9. exp Maintenance Chemotherapy/
10. exp Antineoplastic Agents/
11. or/1-10
12. exp Carboplatin/
13. exp Cisplatin/
14. exp Paclitaxel/
15. exp Platinum Compounds/
16. exp Organoplatinum Compounds/
17. exp Taxoids/
18. exp Angiogenesis Inhibitors/
19. exp Antibodies, Monoclonal/
20. exp Enzyme Inhibitors/
21. exp Piperazines/
22. exp Protein Kinase Inhibitors/
23. exp Pyrimidines/
24. exp "Poly(ADP-ribose) Polymerases"/
25. exp Recombinant Fusion Proteins/
26. exp Vascular Endothelial Growth Factor A/
27. or/12-26
28. carboplatin*.tw.
29. cisplatin*.tw.
30. paclitaxel*.tw.
31. taxane*.tw.
32. bevacizumab.tw.
33. docetaxel*.tw.
34. PARP*.tw.
35. trabectedin.tw.
36. platinum*.tw.
37. gemcitabine*.tw.
38. doxorubicin*.tw.
39. pld.tw.
40. topotecan*.tw.
41. or/28-40
42. 11 or 27 or 41

NOTE: One search for chemotherapy KQs limited to 2008-2012; then sifted according to stage of disease (early, advanced, relapsed)

KQ 9 - additional search to cover 2006-2007

KQ 8 (Intraperitoneal administration of chemotherapy)
1. exp Injections, Intraperitoneal/
2. intraperitoneal.tw.
3. intra-peritoneal.tw.
4. exp Infusions, Parenteral/
5. peritone*.tw.
6. parenteral.tw.
7. regional.tw.
8. or/1-7

KQ 10 (Hormonal therapies for relapsed ovarian cancer)
1. exp Tamoxifen/
2. tamoxifen*.tw.
3. exp Aromatase Inhibitors/
4. (aromatase adj3 inhibitor*).tw.
5. exp Megestrol Acetate/
6. megace*.tw.
7. LHRH analogues.tw.
8. exp Gonadotropin-Releasing Hormone/
9. exp Luteinizing Hormone/
10. (hormon* adj3 therap*).tw.
11. letrozole*.tw.
12. exp Nitriles/
13. exp Triazoles/
14. exp Hormones/ad, ae, ag, tu, th [Administration & Dosage, Adverse Effects, Agonists, Therapeutic Use, Therapy]
15. exp Antineoplastic Agents, Hormonal/
16. or/1-15

KQ 11 (Follow-up)
1. exp Follow-Up Studies/
2. (follow up or follow-up).tw.
3. exp Aftercare/
4. (aftercare or after care or after-care).tw.
5. surveillance.tw.
6. routine review*.tw.
7. (early and delayed).tw.
8. or/1-7

KQ 12 (Symptoms which prompt GPs to consider ovarian cancer)
1. exp Ovarian Neoplasms/
2. (ovar* adj5 (cancer* or tumor* or tumour* or neoplas* or malignan* or carcinoma*)).tw.
3. 1 or 2
4. (ovar* adj10 symptom*).tw.
5. 3 and 4
6. ((ovar* adj10 sign) or (ovar* adj10 signs)).tw.
7. 3 and 6
8. 5 or 7

KQ 13 (Scoring systems for ovarian cancer)
1. exp Risk Assessment/
2. exp "Predictive Value of Tests"/
3. exp "Sensitivity and Specificity"/
4. exp ROC Curve/
5. "Diagnostic Techniques, Obstetrical and Gynecological"/
6. (risk* adj3 scor*).tw.
7. (risk* adj3 malignan*).tw.
8. (predict* adj3 malignan*).tw.
9. (predict* adj3 model*).tw.
10. (scor* adj3 (model* or system*)).tw.
11. exp "early detection of cancer"/
12. exp ca-125 antigen/
13. or/1-12

KQ 14 (MRI or PET-CT versus CT for diagnosis/staging of ovarian cancer)
1. exp Magnetic Resonance Imaging/
2. mri.tw.
3. magnetic resonance imag*.tw.
4. exp Tomography, X-Ray Computed/
5. exp Positron-Emission Tomography/
6. exp "Positron-Emission Tomography and Computed Tomography"/
7. pet-ct.tw.
8. or/1-7

KQ 15 (Frozen section for diagnosis/staging of ovarian cancer)
1. exp Frozen Sections/
2. frozen section*.tw.
3. 1 or 2

KQ 16 (Genetic testing for BRCA mutations)
1. exp Genetic Testing/
2. exp Genetic Markers/
3. exp Genetic Predisposition to Disease/
4. exp Mutation/
5. exp Genes, BRCA1/
6. exp Genes, BRCA2/
7. (Gene* adj3 mutat*).tw.
8. (genetic adj3 (test* or screen*)).tw.
9. (BRCA1 or BRCA2).tw.
10. exp "Early Detection of Cancer"/
11. exp Early Diagnosis/
12. exp Mass Screening/
13. (early adj3 (detect* or diagnos*)).tw.
14. or/1-13

**Supplementary search on Histological subtypes**
1. exp Adenocarcinoma, Clear Cell/
2. clear cell.tw.
3. ccc.tw.
4. exp Adenocarcinoma, Mucinous/
5. mucinous.tw.
6. exp Cystadenocarcinoma, Mucinous/ or exp Cystadenocarcinoma, Serous/
7. low grade serous.tw.
8. low-grade serous.tw.
9. LOSC.tw.
10. OVLGSCA.tw.
11. or/1-10