

# NATIONAL COLLABORATING CENTRE FOR CANCER

## Prostate Cancer (Update) Clinical Guideline

### Chapter 3 – Diagnosis and Staging

### Literature search summary

**Topic 1: Does multiparametric/functional MRI before TRUS biopsy increase diagnostic yield of initial biopsy in men with suspected prostate cancer**

#### 1. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	2002 – 6/2012	1468	371	11/06/2012
<i>Premedline</i>	2002 – 6/2012	87	65	18/06/2012
<i>Embase</i>	2002 – 6/2012	2483	350	18/06/2012
<i>Cochrane Library</i>	2002 – 6/2012	116	19	11/06/2012
<i>PsycINFO</i>	2002 – 6/2012	4	0	18/06/2012
<i>Web of Science (SCI &amp; SSCI)</i>	2002 – 6/2012	2080	199	18/06/2012
<i>Biomed Central</i>	2002 – 6/2012	108	0	20/06/2012

**Total References retrieved (after de-duplication): 670**

**Medline search strategy** (*This search strategy is adapted to each database*)

1. exp Prostatic Neoplasms/
2. exp Prostatic Intraepithelial Neoplasia/
3. PIN.tw.
4. (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.
5. 1 or 2 or 3 or 4
6. (transrectal adj ultrasound\*).tw.
7. transrectal ultrasound biops\*.tw.
8. (TRUS or TRUSB).tw.
9. (Multi-parametric MRI\* or multiparametric\*).tw.
10. MP-MRI\*.tw.
11. T2-weighted MRI\*.tw.
12. dynamic contrast-enhanced MR\*.tw.
13. DCE-MRI\*.tw.
14. diffusion weighted imag\*.tw.
15. DWI\*.tw.
16. 1H MR-Spectroscopic Imag\*.tw.
17. magnetic spectroscop\*.tw.
18. MRSI\*.tw.
19. T2W\*.tw.
20. T2W TSE\*.tw.
21. turbo spin echo\*.tw.
22. 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 18 or 19 or 20 or 21
23. 5 and 22
24. limit 23 to yr="2002 -Current"

## 2. Health Economics Literature search details

Database name	No of references found	Finish date of search
<i>Medline</i>	32 (update search: 1)	19/06/2012 (17/05/2013)
<i>Premedline</i>	2 (update search: 8)	19/06/2012 (17/05/2013)
<i>Embase</i>	50 (update search: 5)	19/06/2012 (17/05/2013)
<i>Cochrane Library (except NHSEED)</i>	12 (update search: 0)	19/06/2012 (17/05/2013)
<i>NHSEED</i>	3 (update search: 0)	19/06/2012 (17/05/2013)

Total References retrieved (after de-duplication): 77

## 3. Any further comments

Cinahl, BNI and AMED were not used for this search as not considered relevant to the topic. The GDG subgroup decided to include search results from 2002 onwards because of the introduction of this technique from 2002 onwards. Basic exclusions filter only used. SIGN Health Economics filter & SCHARR Quality of Life filter was added to the search for the health economics literature search.

## 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit 2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	259	36	17/05/2013
<i>Premedline</i>	197	46	17/05/2013
<i>Embase</i>	698	103	17/05/2013
<i>Cochrane Library</i>	9	2	17/05/2013
<i>PsycINFO</i>	3	0	17/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	307	57	17/05/2013

Total References retrieved (after de-duplication): 138

**Topic 3: In men who have been referred with suspected prostate cancer, what are the prognostic factors that determine the need for further investigation following a prior negative biopsy(s)?**

## 1. Literature search details

Database name	Dates Covered	No of references found	Finish date of search
<i>Medline</i>	2000 -	1533	07/01/2013
<i>Premedline</i>	7 Jan 2013	67	07/01/2013
<i>Embase</i>	2000 -	3407	08/01/2013
<i>Cochrane Library</i>	2012 issue 12	149	08/01/2013
<i>Amed</i>	2000 -	1	07/01/2013
<i>Web of Science (SCI &amp; SSCI)</i>	2000 -	3843	09/01/2013
<i>Biomed Central</i>	As per database	25	11/01/2013

Total References retrieved (after de-duplication): 3804

**Medline search strategy** (*This search strategy is adapted to each database*)

1. exp prostatic neoplasms/
2. exp prostatic intraepithelial neoplasia/
3. PIN.tw
4. (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.
5. or/1-4
6. negative.tw.
7. false negative reactions/
8. 6 or 7

9. (rebiops\$ or re-biops\$).tw.
10. ((repeat\$ or review\$ or follow-up or followup) adj3 biops\$).tw.
11. ((saturat\$ or extend\$ or template) adj3 biops\$).tw.
12. exp biopsy/ or biops.tw
13. 5 and 8 and 12
14. or/9-11
15. 5 and 14
16. 13 or 15
17. limit 16 to yr="2000 -Current"

## 2. Health Economics Literature search details

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

## 3. Any further comments

Limited to year 2000 to present in consultation with GDG.

## 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 07/01/2013 onwards for the first update, and then 25/03/2013 for the second update.

Database name	No of references found	Finish date of search
<i>Medline</i>	28	26/03/2013
<i>Premedline</i>	0	26/03/2013
<i>Embase</i>	133	26/03/2013
<i>Cochrane Library</i>	0	25/03/2013
<i>AMED</i>	1	25/03/2013
<i>Web of Science</i>	112	25/03/2013
<i>Biomed central</i>	5	25/03/2013

**Total References retrieved (after de-duplication): 240**

Database name	No of references found	Finish date of search
<i>Medline</i>	33	21/05/2013
<i>Premedline</i>	18	21/05/2013
<i>Embase</i>	181	22/05/2013
<i>Cochrane Library</i>	1	22/05/2013
<i>AMED</i>	0	22/05/2013
<i>Web of Science</i>	78	23/05/2013
<i>Biomed central</i>	2	23/05/2013

**Total References retrieved (after de-duplication): 275**

**Topic 2: In men with suspected prostate cancer whose initial TRUS biopsy is negative what should be the next investigation(s): multiparametric magnetic resonance, 3D ultrasound, template biopsy?**

**1. Literature search details**

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1946-	181	101	20/06/2012
<i>Premedline</i>	All	3	2	19/06/2012
<i>Embase</i>	1947-	352	166	20/06/2012
<i>Cochrane Library</i>	All	51	17	26/06/2012
<i>PsycINFO</i>	1806-	0	0	20/06/2012
<i>Web of Science (SCI &amp; SSCI)</i>	1980-	271	113	25/06/2012
<i>Biomed Central</i>	All	56	2	26/06/2012

**Total References retrieved (after de-duplication): 267**

**Medline search strategy** (*This search strategy is adapted to each database*)

1. exp prostatic neoplasms/
2. exp Prostatic Intraepithelial Neoplasia/
3. PIN.tw.
4. (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.
5. or/1-4
6. ((transrectal or trans-rectal) adj ultraso\$).tw.
7. ((transrectal or trans-rectal) adj3 biops\$).tw.
8. (TRUS or TRUSB).tw.
9. or/6-8
10. negative.tw.
11. false negative reactions/
12. 10 or 11
13. 9 and 12
14. 5 and 13
15. ((repeat\$ or review\$) adj3 biops\$).tw.
16. rebiops\$.tw.
17. ((saturat\$ or extend\$ or template) adj3 biops\$).tw.
18. exp biopsy/ or biops.tw.
19. Elasticity Imaging Techniques/
20. (elastograph\$ or elastogram\$).tw.
21. sonoelastogra\$.tw.
22. (vibroacoustogra\$ or vibro-acoustogra\$).tw.
23. (elasticity adj2 imag\$).tw.
24. (arfi adj imag\$).tw.
25. (acoustic adj2 imag\$).tw.
26. \*Imaging, Three Dimensional/
27. (3DUS or 3D-US or 3d ultraso\$).tw.
28. ((tridimension\$ or three dimension\$) adj (imag\$ or ultraso\$)).tw.
29. (contrast enhance\$ adj2 (imag\$ or ultraso\$)).tw.
30. (CETRUS or CE-TRUS).tw.
31. (DCE adj (imag\$ or ultrso\$ or MR\$)).tw.
32. ((multi-parametric\$ or multiparametric\$) adj2 (MR\$ or imag\$)).tw.
33. (MP-MR\$ or MPMR\$).tw.
34. T2 weighted MR\$.tw.
35. T2W\$.tw.
36. (diffusion adj2 (imag\$ or MR\$)).tw.
37. DWI\$.tw.
38. magnetic spectroscop\$.tw.
39. MRS\*.tw.
40. MR spectroscop\$.tw.

41. or/19-40  
 42. 18 and 41  
 43. 15 or 16 or 17 or 42  
 44. 14 and 43

**2. Health Economics Literature search details**

Database name	No of references found	Finish date of search
<i>Medline</i>	2	14/05/2013
<i>Premedline</i>	0	14/05/2013
<i>Embase</i>	2	14/05/2013
<i>Cochrane Library (except NHSEED)</i>	3	14/05/2013
<i>NHSEED</i>	1	14/05/2013
<i>Web of Science (SCI &amp; SSCI) and ISI Proceedings</i>	2	14/05/2013

**Total References retrieved (after de-duplication): 10**

**3. Any further comments**

No date limit was used as not an exact update from the previous guideline. Basic exclusions filter only used. SIGN Health Economics filter was added to the search for the health economics literature search.

**4. Update Search**

For the update search, the same search criteria/filters were applied as initial search with a date limit of 19/06/2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	50	26	14/05/2013
<i>Premedline</i>	3	2	14/05/2013
<i>Embase</i>	173	61	14/05/2013
<i>Cochrane Library</i>	2	0	14/05/2013
<i>PsycINFO</i>	3	0	14/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	42	16	14/05/2013
<i>Biomed Central</i>	12	0	14/05/2013

**Total References retrieved (after de-duplication): 66**

**Topic 4a and 4b: Does staging with MRI improve outcomes in men with prostate cancer? In which patients with prostate cancer will MRI staging alter treatment?**

**1. Literature search details**

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	2008-	921	99	14/08/2012
<i>Premedline</i>	All	117	12	13/08/2012
<i>Embase</i>	2008-	1528	152	05/09/2012
<i>Cochrane Library</i>	2008-	223	3	10/09/2012
<i>PsycINFO</i>	2008-	6	0	14/08/2012
<i>Web of Science (SCI &amp; SSCI)</i>	2008-	963	75	11/09/2012
<i>Biomed Central</i>	2008	95	1	11/09/2012

**Total References retrieved (after de-duplication): 208**

### Medline search strategy (This search strategy is adapted to each database)

1. exp Prostatic Neoplasms/
2. prostatic intraepithelial neoplasia/
3. PIN.tw.
4. (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.
5. or/1-4
6. limit 5 to yr="2008 –Current"
7. exp Magnetic Resonance Imaging/
8. magnet\$ resonance.tw.
9. (MRI or MR\$2 or NMR\$1).tw.
10. (MP-MR\$ or MPMR\$).tw.
11. (MR adj (imag\$ or scan\$)).tw.
12. (magnet\$ adj (imag\$ or scan\$)).tw.
13. ((magnet\$ or MR) adj spectroscop\$).tw.
14. or/7-13
15. 6 and 14
16. Neoplasm Staging/
17. (staging or stage\$1 or classif\$ or evaluat\$ or tnm).tw.
18. 16 or 17
19. 15 and 18

### 2. Health Economics Literature search details

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

### 3. Any further comments:

Update of previous guideline topic so searched from 2008 onwards. Basic exclusions filter only used.

### 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit 13/08/2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	195	15	14/05/2013
<i>Premedline</i>	21	3	14/05/2013
<i>Embase</i>	513	55	14/05/2013
<i>Cochrane Library</i>	11	0	14/05/2013
<i>PsycINFO</i>	2	0	14/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	220	25	14/05/2013
<i>Biomed Central</i>	17	0	14/05/2013

**Total References retrieved (after de-duplication): 62**

# NATIONAL COLLABORATING CENTRE FOR CANCER

## Prostate Cancer (Update) Clinical Guideline

### Chapter 4 – Localised Prostate Cancer

### Literature search summary

**Topics 5 and 6: Which men with localised prostate cancer should be offered active surveillance? What is the most effective follow up protocol for men for active surveillance?**

#### 1. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	2006 -	610 / 143	402 / 21	29/06/2012
<i>Premedline</i>	June 28, 2012	105 / 7	60 / 2	29/06/2012
<i>Embase</i>	2006 -	1280 / 296	759 / 23	29/06/2012
<i>Cochrane Library</i>	2006 -	181	63	29/06/2012
<i>Web of Science (SCI &amp; SSCI)</i>	2006 -	1080	491	29/06/2012
<i>Biomed Central</i>	2006 -	39	0	29/06/2012
<i>PsycINFO</i>	2006 -	32	16	29/06/2012

**Total References retrieved (after de-duplication): 976**

**Medline search strategy** (*This search strategy is adapted to each database*)

#### Active Surveillance Search

- 1 exp Prostatic Neoplasms/
- 2 Prostatic Intraepithelial Neoplasia/
- 3 (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.
- 4 PIN.tw.
- 5 1 or 2 or 3 or 4
- 6 (active adj1 surveillance).tw.
- 7 (active adj1 monitoring).tw.
- 8 watchful wait\$.tw.
- 9 (watch\$ adj2 wait\$.tw.
- 10 watchful observation.tw.
- 11 watchful surveillance.tw.
- 12 watchful monitoring.tw.
- 13 active surveillance.tw.
- 14 active monitoring.tw.
- 15 expectant manag\$.tw.
- 16 expectant monitoring.tw.
- 17 expectant surveillance.tw.
- 18 deferred treatment\$.tw.
- 19 deferred therap\$.tw.
- 20 delayed treatment\$.tw.
- 21 delayed therap\$.tw.
- 22 conservative monitoring.tw.
- 23 Watchful waiting/
- 24 or/6-23
- 25 5 and 24
26. limit 25 to yr="2006 -Current"

#### Prognostic Search

1. prostatic neoplasms/
2. (prostat\$adj5 (cancer\$ or carcin\$ or tumor\$ or tumour\$ or neoplasm\$)).tw.
3. ((carcinoma or neoplasia or neoplasm\$ or adenocarcinoma or cancer\$ or tumor\$ or tumour\$ or malignan\$) adj3 prostat\$.tw.
4. 1 or 2 or 3

5. prognostic methods.mp.
6. predictive factors.mp.
7. (prognos\$ adj10 (relapse\$ or recurrence\$ or survival\$ or death\$ or mortality or progress\$ or disease free or psa failure\$ or biochemical failure\$)).ti,ab.
8. (predict\$ adj10 (relapse\$ or recurrence\$ or survival\$ or death\$ or mortality or progress\$ or disease free or psa failure\$ or biochemical failure\$)).ti,ab.
9. (neural network\$ adj10 (relapse\$ or recurrence\$ or survival\$ or death\$ or mortality or progress\$ or disease free or psa failure\$ or biochemical failure\$)).ti,ab.
10. survival rate/
11. exp prognosis/and (relapse\$ or recurrence\$ or survival\$ or death\$ or mortality or progress\$ or disease free or psa failure\$ or biochemical failure\$).ti,ab.
12. disease free survival/
13. mortality/
14. recurrence/
15. neural networks computer/and (relapse\$ or recurrence\$ or survival\$ or death\$ or mortality or progress\$ or disease free or psa failure\$ or biochemical failure\$).ti,ab.
16. exp models statistical/and (relapse\$ or recurrence\$ or survival\$ or death\$ or mortality or progress\$ or disease free or psa failure\$ or biochemical failure\$).ti,ab.
17. algorithms/and (relapse\$ or recurrence\$ or survival\$ or death\$ or mortality or progress\$ or disease free or psa failure\$ or biochemical failure\$).ti,ab.
18. (algorithm\$ adj10 (relapse\$ or recurrence\$ or survival\$ or death\$ or mortality or progress\$ or disease free or psa failure\$ or biochemical failure\$)).ti,ab.
19. exp survival analysis/
20. nomogram\$.mp.
21. ((marker\$ or biomarker\$) adj10 (prognos\$ or predict\$)).mp.
22. or/5-21
23. letter.pt.
24. comment.pt.
25. (animal or cell line\$ or vitro or invitro or rat or rats or mouse or mice).ti,ab.
26. or/23-25
27. (4 and 22) not 26
28. limit 27 to yr="2006 -Current"

## 2. Health Economics Literature search details

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

## 3. Any further comments

Cinahl, BNI, AMED were checked and no unique references were found.

Basic Active Surveillance search, for Topic 6 requirements, update topic so searched from 2006 onwards with basic exclusions filter only used.

Prognostic search, for Topic 5 requirements, with systematic reviews filter executed in Medline and Embase only. Update of the following HTA Report from 2006 onwards:

**Sutcliffe, P. et al. Use of classical and novel biomarkers as prognostic risk factors for localised prostate cancer: a systematic review. Health Technology Assessment 2009; 13 (5)**



#### 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	301 / 81	48 / 1	20/05/2013
<i>Premedline (17 May, 2013)</i>	144 / 8	71 / 2	20/05/2013
<i>Embase</i>	588 / 155	174 / 4	20/05/2013
<i>Cochrane Library</i>	51	5	20/05/2013
<i>PsycINFO</i>	9	2	20/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	329	77	20/03/2013
<i>Biomed Central</i>	22	0	20/05/2013

Total References retrieved (after de-duplication): 234

**Topic 7: Which is the most effective radical prostatectomy method for prostate cancer: retropubic, transperineal, laparoscopic or robot-assisted laparoscopic radical prostatectomy?**

#### 1. Literature search details

Database name	Dates Covered	No of references found	Finish date of search
<i>Medline</i>	2010 -	627	10/12/2012
<i>Premedline</i>	All	60	10/12/2012
<i>Embase</i>	2010 -	1392	10/12/2012
<i>Cochrane Library</i>	2010	65	10/12/2012
<i>Web of Science (SCI &amp; SSCI)</i>	2010 -	226	10/12/2012
<i>BIOSIS</i>	2010	252	10/12/2012

Total References retrieved (after de-duplication and sifting): 1220

**Medline search strategy** (*This search strategy is adapted to each database*)

1. exp Prostatic Neoplasms/su
2. Prostatectomy/
3. (radical adj5 prostatectom\$.tw.
4. or/1-3
5. Prostatic Neoplasms/
6. (cancer adj3 (prostate or prostatic)).tw.
7. (carcinoma adj (prostate or prostatic)).tw.
8. (neoplas\$ adj3 (prostate or prostatic)).tw.
9. (malignan\$ adj3 (prostate or prostatic)).tw.
10. or/5-9
11. Surgical Procedures, Operative/
12. su.fs.
13. (surgery or surgical or surgeon\$.tw.
14. (resect\$ or operation\$ or operat\$.tw.
15. or/11-14
16. 10 and 15
17. 4 or 16
18. Laparoscopy/
19. Endoscopy/
20. Video-Assisted Surgery/
21. Surgical Procedures, Minimally Invasive/
22. laparoscop\$.tw.
23. endoscop\$.tw.
24. (minimal\$ adj3 (invasiv\$ or access\$)).tw.
25. (key hole or keyhole or robot\$.tw.

26. video assist\$.tw.
27. (trans peritoneal or transperitoneal or extra peritoneal).tw.
28. (montsouris or heilbronn).tw.
29. (da vinci or zeus).tw.
30. or/18-29
31. 17 and 30
32. meta analysis.pt.
33. review.pt.
34. Meta Analysis/
35. exp "Review Literature as Topic"/
36. Randomized Controlled Trial/
37. (controlled or design or evidence or extraction).ab.
38. (sources or studies).ab.
39. or/32-38
40. exp Clinical Trial/
41. randomized controlled trial.pt.
42. controlled clinical trial.pt.
43. randomi?ed.ab.
44. placebo.ab.
45. drug therapy.fs.
46. randomly.ab.
47. trial.ab.
48. groups.ab.
49. or/40-48
50. Comparative Study/
51. Follow-Up Studies/
52. Time Factors/
53. (preoperat\$ or pre operat\$).mp.
54. (chang\$ or evaluat\$ or reviewed or baseline).tw.
55. (prospective\$ or retrospectiv\$).tw.
56. (cohort\$ or case series).tw.
57. (compare\$ or compara\$).tw.
58. or/50-57
59. 31 and (39 or 49 or 58)
60. animals/ not (humans/ and animals/)
61. 59 not 60
62. limit 61 to ed=20100901-20121210

## 2. Health Economics Literature search details

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

## 3. Any further comments

Undertook an update of the following HTA Report from October 2010 onwards:

**Ramsey, C. et al Systematic review and economic modelling of the relative clinical benefit and cost-effectiveness of laparoscopic surgery and robotic surgery for removal of the prostate in men with localised prostate cancer Health Technology Assessment 2012; 16 (41)**

#### 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 10/12/2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	94	49	14/05/2013
<i>Premedline</i>	6	3	14/05/2013
<i>Embase</i>	182	81	14/05/2013
<i>Cochrane Library</i>	7	2	14/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	45	13	14/05/2013
<i>BIOSIS</i>	147	53	14/05/2013

Total References retrieved (after de-duplication): 100

**Topic 8: Is the combination of brachytherapy with external beam radiotherapy more effective than either method alone for localised or locally advanced non metastatic prostate cancer?**

#### 1. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1946 -	716	304	19/09/2012
<i>Premedline</i>	Sept 18, 2012	21	9	19/09/2012
<i>Embase</i>	1974 -	1242	545	21/09/2012
<i>Cochrane Library</i>	As per database	194	105	10/09/2012
<i>Web of Science (SCI &amp; SSCI)</i>	1970 -	1596	367	25/09/2012
<i>Biomed Central</i>	As per database	46	5	24/09/2012

Total References retrieved (after de-duplication): 680

**Medline search strategy** (*This search strategy is adapted to each database*)

- 1 exp Prostatic Neoplasms/
- 2 prostatic intraepithelial neoplasia/
- 3 PIN.tw.
- 4 (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?\$ or neoplas\$ or intraepithelial\$)).tw.
- 5 1 or 2 or 3 or 4
- 6 BRACHYTHERAPY/
- 7 brachytherap\$.tw.
- 8 ((interstitial or intracavity or implant\$) adj (irradiation or radiation\$ or radiotherap\$)).tw.
- 9 surface radiotherap\$.tw.
- 10 curietherap\$.tw.
- 11 ((seed\$ or permanent\$) adj implant\$).tw.
- 12 6 or 7 or 8 or 9 or 10 or 11
- 13 5 and 12
- 14 (high adj2 dose adj2 rate\$).tw.
- 15 hdr.tw.
- 16 (low adj2 dose adj2 rate\$).tw.
- 17 ldr.tw.
- 18 ((high\$ or full\$ or supplemental or low\$) adj2 dose\$).tw.
- 19 14 or 15 or 16 or 17 or 18
- 20 13 and 19

#### 2. Health Economics Literature search details

This topic was identified as medium priority and further health economics work was undertaken but no additional searches were required. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

### 3. Any further comments

Cinahl, BNI, AMED and PsyclINFO were not used for this search as not considered relevant to the topic. No date limit was used as not an exact update from the previous guideline. Basic exclusions filter only used.

### 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	68	4	16/05/2013
<i>Premedline (15 May, 2013)</i>	51	23	16/05/2013
<i>Embase</i>	313	60	16/05/2013
<i>Cochrane Library</i>	21	3	16/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	232	42	16/05/2013
<i>Biomed Central</i>	20	4	16/05/2013

Total References retrieved (after de-duplication): 99

### Topic 11a: What is the most effective intervention for bowel toxicity following radical radiotherapy for prostate cancer?

#### 1. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	2005 -	619	48	08/05/2012
<i>Premedline</i>	May 7, 2012	17	2	08/05/2012
<i>Embase</i>	2005 -	698	82	10/05/2012
<i>Cochrane Library</i>	2005 -	698	61	09/05/2012
<i>Web of Science (SCI &amp; SSCI)</i>	2005 -	1622	102	11/05/2012

Total References retrieved (after de-duplication): 195

#### Medline search strategy (This search strategy is adapted to each database)

- 1 exp Prostatic Neoplasms/
- 2 Prostatic Intraepithelial Neoplasia/
- 3 (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.
- 4 PIN.tw.
- 5 1 or 2 or 3 or 4
- 6 exp Radiation Effects/
- 7 exp Radiation Injuries/
- 8 (radi\$ adj (induce\$ or relate\$ or toxic\$ or injur\$ or effect\$)).mp
- 9 (pelvi\$ adj3 radiotherap\$).mp
- 10 (pelvi\$ adj3 radiation therapy).mp
- 11 Pelvic Neoplasms/rt [Radiotherapy]
- 12 or/6-11
- 13 Diarrhea/
- 14 diarrh?ea.mp
- 15 Steatorrhea/
- 16 steatorrh\$.mp
- 17 ((gastrointestinal or intestinal) adj (toxicity or problem\$ or symptom\$ or dysfunction\$ or complication\$)).mp
- 18 (GI adj toxicity).mp
- 19 (rect\$ adj pain).mp
- 20 (rect\$ adj bleed\$).mp
- 21 (gastrointestinal adj bleed\$).mp
- 22 anorectal dysfunction.mp
- 23 (bowel adj (damage or toxicity or injury or discomfort)).mp

24 or/13-23  
25 (radiation induced fibrosis or RIF).mp  
26 (radiation adj (gastritis or proctitis or enteritis or colitis)).mp  
27 proctopathy.mp  
28 proctosigmoiditis.mp  
29 exp Proctitis/  
30 or/25-29  
31 prostat\$.mp  
32 30 and 31  
33 exp Diet/  
34 exercise movement techniques/ or exercise therapy/  
35 Sucralfate/  
36 (sucralfate or carafate).mp.  
37 exp Antidiarrheals/  
38 Loperamide/  
39 (loperamide or diamode or diar-aid or imodium or imotil).mp.  
40 Diphenoxylate/  
41 (colonaid or lomotil or lomanate or logen or lonox).mp.  
42 exp Aminosalicylic Acids/  
43 Sulfasalazine/  
44 (sulfasalazine or azulfidine).mp.  
45 (Asacol or Asacol HD or Pentasa or Salofalk or Dipentum or Colazal or Apriso or Lialda).mp.  
46 Octreotide/  
47 (octreotide or sandostatin).mp.  
48 Formalin.mp. or Formaldehyde/  
49 Misoprostol/  
50 (misoprostol or cytotec).mp.  
51 Butyrates/  
52 butyrate.mp.  
53 YAG laser.mp. or Lasers, Solid-State/  
54 Hyperbaric oxygen therapy.mp. or Hyperbaric Oxygenation/  
55 Codeine/  
56 codeine.tw.  
57 diet\$.tw.  
58 or/33-57  
59 5 and (12 or 24)  
60 12 and 24  
61 12 and 30  
62 5 and 58  
63 12 and 58  
64 12 and 24 and 58  
65 30 and 58  
66 or/59-65

## 2. Health Economics Literature search details

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

## 3. Any further comments

Cinahl, BNI, AMED were not used for this search as not considered relevant to the topic. PsycINFO was checked and no unique references were found. Update topic so searched from 2005 onwards. Basic exclusions filter and Systematic Reviews and RCT filters were used as an intervention topic.

#### 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	206	12	14/05/2013
<i>Premedline (13 May, 2013)</i>	45	7	14/05/2013
<i>Embase</i>	235	21	14/05/2013
<i>Cochrane Library</i>	203	10	14/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	889	17	14/05/2013

Total References retrieved (after de-duplication): 47

#### Topic 11b: What is the diagnostic yield of screening sigmoidoscopy in the detection of radiation induced bowel cancer?

##### 1. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1946 -	480	45	26/04/2012
<i>Premedline</i>	Apr 20, 2012	13	2	26/04/2012
<i>Embase</i>	1974 -	797	56	26/04/2012
<i>Cochrane Library</i>	As per database	82	7	26/04/2012
<i>Web of Science (SCI &amp; SSCI)</i>	1970 -	455	43	27/04/2012
<i>Biomed Central</i>	As per database	8	0	27/04/2012
<i>PsycINFO</i>	1806 -	12	1	26/04/2012

Total References retrieved (after de-duplication): 156

##### Medline search strategy (This search strategy is adapted to each database)

- 1 exp Prostatic Neoplasms/
- 2 Prostatic Intraepithelial Neoplasia/
- 3 PIN.tw.
- 4 (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tumo?r\$ or neoplas\$ or intraepithelial\$)).tw.
- 5 or/1-4
- 6 exp Sigmoidoscopy/
- 7 sigmoidoscop\$.mp.
- 8 proctosigmoidoscop\$.mp.
- 9 rectosigmoidoscop\$.mp.
- 10 6 or 7 or 8 or 9
- 11 exp Colorectal Neoplasms/
- 12 ((colorect\$ or colo rect\$) adj3 (cancer\$ or neoplas\$ or oncolog\$ or malignan\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$)).tw.
- 13 ((colon or colonic) adj3 (cancer\$ or neoplas\$ or oncolog\$ or malignan\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$)).tw.
- 14 ((rectal\$ or rectum\$) adj3 (cancer\$ or neoplas\$ or oncolog\$ or malignan\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$)).tw.
- 15 11 or 12 or 13 or 14
- 16 5 and 15
- 17 Neoplasms, Radiation-Induced/
- 18 radiotherap\$.tw.
- 19 ((irradiation or radiation) adj (therap\$ or treatment\$)).tw.
- 20 ((pelvis or pelvic) adj3 (irradiation or radiation or radiotherap\$)).tw.
- 21 (prostat\$ adj3 (irradiation or radiotherap\$ or radiation)).tw.
- 22 exp Radiotherapy/
- 23 17 or 18 or 19 or 20 or 21 or 22
- 24 16 and 23

25 5 and 10  
26 24 or 25  
27 Neoplasms, Second Primary/  
28 (second\$ adj primar\$.ti.  
29 27 or 28  
30 5 and 23 and 29  
31 26 or 30

## 2. Health Economics Literature search details

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

## 3. Any further comments

Cinahl, BNI, AMED were not used for this search as not considered relevant to the topic. No date limit was used as not an exact update from the previous guideline. Basic exclusions filter only used.

## 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	83	4	14/05/2013
<i>Premedline (13 May, 2013)</i>	16	0	14/05/2013
<i>Embase</i>	296	15	14/05/2013
<i>Cochrane Library</i>	27	0	14/05/2013
<i>PsycINFO</i>	3	0	14/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	74	3	14/05/2013
<i>Biomed Central</i>	3	0	14/05/2013

**Total References retrieved (after de-duplication): 19**

# NATIONAL COLLABORATING CENTRE FOR CANCER

## Prostate Cancer (Update) Clinical Guideline

### Chapter 6 – Locally Advanced Prostate Cancer

### Literature search summary

**Topic 9a and 9b: Which patients with non-metastatic prostate cancer benefit from a combination of hormones and external beam radiotherapy? What is the optimal duration of hormone therapy when combined with external beam radiotherapy?**

#### 1. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	2006 -	276	80	19/03/2012
<i>Premedline</i>	Mar 16, 2012	11	3	19/03/2012
<i>Embase</i>	2006 -	866	90	19/03/2012
<i>Cochrane Library</i>	2006 -	190	55	19/03/2012
<i>Web of Science (SCI &amp; SSCI)</i>	2006 -	654	101	20/03/2012
<i>Biomed Central</i>	2006 -	9	2	19/03/2012

**Total References retrieved (after de-duplication): 215**

#### Medline search strategy (This search strategy is adapted to each database)

- 1 exp Prostatic Neoplasms/
- 2 Prostatic Intraepithelial Neoplasia/
- 3 (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.
- 4 PIN.tw.
- 5 1 or 2 or 3 or 4
- 6 exp Radiotherapy/
- 7 Radiotherapy, Adjuvant/
- 8 radiotherap\$.tw.
- 9 (radiation adj (therap\$ or treatment\$)).tw.
- 10 external beam irradiation.tw.
- 11 external beam therap\*.tw.
- 12 external beam treatment\*.tw.
- 13 (EBRT or XRT).tw.
- 14 (CRT or 3DCRT or IMRT).tw.
- 15 conformal irradiation.tw.
- 16 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15
- 17 5 and 16
- 18 exp Antineoplastic Agents, Hormonal/
- 19 exp Androgen Antagonists/
- 20 antiandrogens.mp.
- 21 ((androgen\$ or hormon\$) adj3 (ablat\$ or block\$ or withdraw\$ or depriv\$ or supress\$)).mp.
- 22 gonadotrophin releasing hormone analogue\$.mp.
- 23 (luteinizing hormone releasing hormone or LHRH).mp.
- 24 grha.tw.
- 25 (zoladex or decapeptide).mp.
- 26 (eligard or leuprorelin or enatone or a-43818 or lupron or tap-144).mp.
- 27 exp Gonadotropin-Releasing Hormone/
- 28 exp Cyproterone/
- 29 (bicalutamide or casodex).mp.
- 30 exp Estrogens/
- 31 oestrogen.mp.
- 32 exp Flutamide/
- 33 (niftolid\$ or eulexin).mp.



34 (nilutamide or nilandron\$.mp.  
35 exp Diethylstilbestrol/  
36 exp Progestins/  
37 exp Finasteride/  
38 proscar.mp.  
39 adjuvant hormon\$ therap\$.tw.  
40 (neoadjuvant or neo-adjuvant hormon\$ therap\$.tw.  
41 exp Orchiectomy/  
42 (orchiectom\$ or orchidectom\$.tw.  
43 or/18-42  
44 17 and 43

## 2. Health Economics Literature search details

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

## 3. Any further comments

Cinahl, BNI, AMED were not used for this search as not considered relevant to the topic. PsycINFO was checked and no unique references were found. Update topic so searched from 2006 onwards. Basic exclusions filter and Systematic Reviews and RCT filters were used as an intervention topic.

## 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	115	22	16/05/2013
<i>Premedline (15 May, 2013)</i>	16	3	16/05/2013
<i>Embase</i>	356	39	16/05/2013
<i>Cochrane Library</i>	73	3	16/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	290	36	16/05/2013
<i>Biomed Central</i>	6	2	16/05/2013

**Total References retrieved (after de-duplication): 70**

# NATIONAL COLLABORATING CENTRE FOR CANCER

## Prostate Cancer (Update) Clinical Guideline

### Chapter 7 – Hormone Therapy

### Literature search summary

**Topic 10: Is intermittent hormone therapy as effective as continuous hormone therapy in men receiving long-term hormonal therapy for prostate cancer?**

#### 1. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1946 -	678	130	21/05/2012
<i>Premedline</i>	May 18, 2012	23	6	21/05/2012
<i>Embase</i>	1974 -	628	189	21/05/2012
<i>Cochrane Library</i>	As per database	183	47	28/02/2012
<i>Web of Science (SCI &amp; SSCI)</i>	1970 -	731	163	21/05/2012
<i>Biomed Central</i>	As per database	8	1	21/05/2012

**Total References retrieved (after de-duplication): 271**

#### Medline search strategy (This search strategy is adapted to each database)

- 1 exp Prostatic Neoplasms/
- 2 Prostatic Intraepithelial Neoplasia/
- 3 (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.
- 4 PIN.tw.
- 5 1 or 2 or 3 or 4
- 6 (intermittent adj3 (androgen therap\$ or androgen treatment or androgen ablation or androgen deprivation or androgen blockade or androgen suppress\$ or anti-androgen)).tw.
- 7 (intermittent adj3 (hormon\$ therap\$ or hormon\$ treatment or hormon\$ ablation or hormon\$ deprivation or hormon\$ blockade or hormon\$ suppress\$ or hormonotherap\$ or estrogentherap\$)).tw.
- 8 (intermittent adj3 (ADT or HT or AD or PADT or LHRH)).tw.
- 9 (intermittent adj3 (endocrine therap\$ or endocrine treatment)).tw.
- 10 ((continuous or complete) adj3 (androgen therap\$ or androgen treatment or androgen ablation or androgen deprivation or androgen blockade or androgen suppress\$ or anti-androgen)).tw.
- 11 ((continuous or complete) adj3 (hormon\$ therap\$ or hormon\$ treatment or hormon\$ ablation or hormon\$ deprivation or hormon\$ blockade or hormon\$ suppress\$ or hormonotherap\$ or estrogentherap\$)).tw.
- 12 ((continuous or complete) adj3 (ADT or HT or AD or PADT or LHRH)).tw.
- 13 ((continuous or complete) adj3 (endocrine therap\$ or endocrine treatment)).tw.
- 14 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13
- 15 exp Androgen Antagonists/
- 16 antineoplastic agents/ or antineoplastic agents, hormonal/
- 17 exp Gonadotropin-Releasing Hormone/
- 18 Drug Administration Schedule/
- 19 (intermittent adj (dose or dosage or therap\$ or treatment or therap\$ or schedule or regimen)).tw.
- 20 ((continuous or complete) adj (dose or dosage or therap\$ or treatment or therap\$ or schedule or regimen)).tw.
- 21 15 or 16 or 17
- 22 18 or 19 or 20
- 23 21 and 22
- 24 5 and 14
- 25 5 and 23
- 26 24 or 25

#### 2. Health Economics Literature search details

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

### 3. Any further comments

Cinahl, BNI, AMED were not used for this search as not considered relevant to the topic. PsycINFO was checked and no unique references were found. No date limit was used as not an exact update from the previous guideline. Basic exclusions filter only used.

### 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	88	16	14/05/2013
<i>Premedline (13 May, 2013)</i>	31	9	14/05/2013
<i>Embase</i>	143	45	14/05/2013
<i>Cochrane Library</i>	13	2	14/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	134	34	14/05/2013
<i>Biomed Central</i>	4	0	14/05/2013

Total References retrieved (after de-duplication): 63

### Topic 12a: What are the adverse cardiovascular effects of long-term androgen deprivation and how prevalent are they?

#### 1. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1946 -	384	95	18/07/2012
<i>Premedline</i>	July 17, 2012	26	13	18/07/2012
<i>Embase</i>	1974 -	736	151	19/07/2012
<i>Cochrane Library</i>	As per database	127	63	18/07/2012
<i>Web of Science (SCI &amp; SSCI)</i>	1970 -	596	109	19/07/2012
<i>Biomed Central</i>	As per database	52	2	19/07/2012

Total References retrieved (after de-duplication): 216

#### Medline search strategy (This search strategy is adapted to each database)

1 exp Prostatic Neoplasms/  
2 Prostatic Intraepithelial Neoplasia/  
3 (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.  
4 PIN.tw.  
5 1 or 2 or 3 or 4  
6 exp Androgen Antagonists/  
7 exp Antineoplastic Agents, Hormonal/  
8 Orchiectomy/  
9 exp Gonadotropin-Releasing Hormone/  
10 ((androgen\$ or hormon\$ or endocrine) adj3 (therapy or treatment or ablat\$ or block\$ or withdraw\$ or depriv\$ or suppress\$ or effect\$)).tw.  
11 ADT.tw.  
12 orchiectom\$.tw.  
13 6 or 7 or 8 or 9 or 10 or 11 or 12  
14 5 and 13  
15 exp Cardiovascular Diseases/  
16 exp Thromboembolism/  
17 exp Stroke/  
18 ((cardiac or cardiovascular) adj3 (disease or mortality or morbidity or events or risk or complications or death)).tw.  
19 15 or 16 or 17 or 18  
20 14 and 19

## 2. Health Economics Literature search details

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

## 3. Any further comments

No date limit was used as not an exact update from the previous guideline. Basic exclusions filter only used.

## 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	65	6	14/05/2013
<i>Premedline (13 May, 2013)</i>	31	12	14/05/2013
<i>Embase</i>	173	23	14/05/2013
<i>Cochrane Library</i>	24	0	14/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	194	17	14/05/2013
<i>Biomed Central</i>	16	1	14/05/2013

Total References retrieved (after de-duplication): 45

## Topic 12e: What is the most effective intervention for hot flushes as a result of long term androgen suppression for prostate cancer?

### 1. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1946 -	137	30	10/08/2012
<i>Premedline</i>	Aug 8, 2012	19	4	10/08/2012
<i>Embase</i>	1974 -	529	49	13/08/2012
<i>Cochrane Library</i>	As per database	117	15	10/08/2012
<i>Web of Science (SCI &amp; SSCI)</i>	1970 -	314	71	10/08/2012
<i>Biomed Central</i>	As per database	5	1	10/08/2012
<i>PsycINFO</i>	1806 -	15	5	10/08/2012
<i>AMED</i>	1985 -	4	2	10/08/2012

Total References retrieved (after de-duplication): 93

### Medline search strategy (This search strategy is adapted to each database)

- 1 exp Prostatic Neoplasms/
- 2 Prostatic Intraepithelial Neoplasia/
- 3 (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.
- 4 PIN.tw.
- 5 or/1-4
- 6 (hot adj2 (flash\$ or flush\$)).mp.
- 7 (vasomotor adj4 (symptom\$ or response\$)).mp.
- 8 (sweat\$ or nightsweat\$ or perspir\$).ti,ab.
- 9 exp Vasomotor System/
- 10 exp Hot Flashes/
- 11 progestogens.tw.
- 12 or/6-11
- 13 5 and 12

## 2. Health Economics Literature search details

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

### 3. Any further comments

No date limit was used as not an exact update from the previous guideline. Basic exclusions filter and Systematic Reviews and RCT filters were used as an intervention topic.

### 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	20	1	14/05/2013
<i>Premedline (May 13, 2013)</i>	10	0	14/05/2013
<i>Embase</i>	91	2	14/05/2013
<i>Cochrane Library</i>	14	0	14/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	52	4	14/05/2013
<i>Biomed Central</i>	2	1	14/05/2013
<i>PsycINFO</i>	4	0	14/05/2013
<i>AMED</i>	0	0	14/05/2013

Total References retrieved (after de-duplication): 4

**Topic 12b: What are the most effective interventions (singly or in combination) for sexual dysfunction as a result of long term androgen suppression for prostate cancer?**

#### 1. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	2006 -	212	74	23/07/2012
<i>Premedline</i>	July 20, 2012	8	1	23/07/2012
<i>Embase</i>	2006 -	505	71	23/07/2012
<i>Cochrane Library</i>	2006 -	164	41	23/07/2012
<i>Web of Science (SCI &amp; SSCI)</i>	2006 -	450	68	23/07/2012
<i>Biomed Central</i>	2006 -	6	0	23/07/2012
<i>PsycINFO</i>	2006 -	148	25	23/07/2012
<i>AMED</i>	2006 -	6	0	23/07/2012

Total References retrieved (after de-duplication): 154

**Medline search strategy** (*This search strategy is adapted to each database*)

- 1 exp Prostatic Neoplasms/
- 2 exp Prostatic Intraepithelial Neoplasia/
- 3 (pin adj5 prostat\$).tw.
- 4 (prostat\$ adj3 (cancer\$ or carcinoma\$ or malignan\$ or tumo?r\$ or neoplas\$ or intraepithelial\$ or adeno\$)).tw.
- 5 or/1-4
- 6 exp Sexual Dysfunction, Physiological/
- 7 Sexual Dysfunctions, Psychological/
- 8 exp Impotence/
- 9 exp Dyspareunia/
- 10 exp Coitus/
- 11 exp Penile Erection/
- 12 exp Orgasm/
- 13 exp Priapism/
- 14 exp Libido/
- 15 dyspareun\$.mp.
- 16 priap\$.mp.
- 17 orgasm\$.mp.
- 18 libido.mp.

19 (erecti\$ adj (dysfunct\$ or failure)).mp.  
 20 (sex\$ adj (dysfunct\$ or satisf\$ or problem\$ or symptom\$ or arous\$ or activit\$ or disorder\$)).mp.  
 21 (sex\$ adj3 pain\$).mp.  
 22 sexual intercourse.mp.  
 23 erect\$.mp.  
 24 impoten\$.mp.  
 25 or/6-24  
 26 exp Fertility/  
 27 fertil\$.mp.  
 28 26 or 27  
 29 25 or 28  
 30 5 and 29

## 2. Health Economics Literature search details

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

## 3. Any further comments

Update topic so searched from 2006 onwards. Basic exclusions filter and Systematic Reviews and RCT filters were used as an intervention topic.

## 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	77	4	16/05/2013
<i>Premedline (May 15, 2013)</i>	19	4	16/05/2013
<i>Embase</i>	217	16	16/05/2013
<i>Cochrane Library</i>	55	1	16/05/2013
<i>PsycINFO</i>	11	0	16/05/2013
<i>AMED</i>	0	0	16/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	183	10	16/05/2013
<i>Biomed Central</i>	2	1	16/05/2013

Total References retrieved (after de-duplication): 27

**Topic 12c: What is the most effective intervention for osteoporosis as a result of long term androgen suppression for prostate cancer?**

## 1. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1946 -	201 & 275 & 83	136 & 71 & 44	26/09/2012
<i>Premedline</i>	Aug 13, 2012	18	14	26/09/2012
	Sept 07, 2012	27	10	26/09/2012
	Sept 25, 2012	2	2	26/09/2012
<i>Embase</i>	1974 -	684 & 812 & 260	246 & 153 & 93	26/09/2012
<i>Cochrane Library</i>	As per database	304 & 117 & 216	138 and 29 and 8	26/09/2012
<i>Web of Science (SCI &amp; SSCI)</i>	1970 -	1177 together & 125	185 together & 59	26/09/2012

Note – first search result is the bisphosphonates and second search result relates to the other drug interventions and third relates to exercise.

Total References retrieved (after de-duplication): 509 for bisphosphonates, denosumab, calcium and vitamin D; 116 for exercise

**Medline search strategy** (*This search strategy is adapted to each database*)

**Bisphosphonates Search**

- 1 exp Prostatic Neoplasms/
- 2 exp Prostatic Intraepithelial Neoplasia/
- 3 (pin adj5 prostat\$).tw.
- 4 (prostat\$ adj3 (cancer\$ or carcinoma\$ or malignan\$ or tumo?r\$ or neoplas\$ or intraepithelia\$ or adeno\$)).mp.
- 5 or/1-4
- 6 exp bone neoplasms/sc
- 7 exp Neoplasm Metastasis/
- 8 exp "Bone and Bones"/
- 9 7 and 8
- 10 ((bone\$ or skelet\$ or osseous or osteo\$) adj5 (second\$ or metast\$ or spread\$ or advanc\$ or lesion\$)).af.
- 11 or/6,9-10
- 12 exp Prostate/
- 13 prostat\$.af.
- 14 12 or 13
- 15 11 and 14
- 16 exp Diphosphonates/
- 17 exp Organophosphorus Compounds/
- 18 exp Phosphoric Acids/
- 19 (bisphosphonat\$ or diphosphonat\$).af.
- 20 etidron\$.af.
- 21 didron\$.af.
- 22 difosfen.af.
- 23 osteodidronel.af.
- 24 osteum.af.
- 25 "disodium dihydrogen(1-hydroxyethylidene)diphosphonate".af.
- 26 pamidronate.af.
- 27 APD.af.
- 28 aredia.af.
- 29 "disodium 3-amino-1-hydroxypropylidenebisphosphonate".af.
- 30 clodronate.af.
- 31 bonefos.af.
- 32 loron.af.
- 33 ascredar.af.
- 34 lodronat.af.
- 35 lytos.af.
- 36 ostac.af.
- 37 clastoban.af.
- 38 clasteon.af.
- 39 difosfonal.af.
- 40 ossiten.af.
- 41 mebonat.af.
- 42 "disodium (dichloromethylene) diphosphonate tetrahydrate".af.
- 43 tiludron\$.af.
- 44 skelid.af.
- 45 "disodium dihydrogen{[(p-chlorophenyl)thio]methylene}diphosphonate hemihydrate".af.
- 46 risedron\$.af.
- 47 actonel.af.
- 48 "sodium trihydrogen[1-hydroxy-2-(3-pyridyl)ethylidene]diphosphonate".af.
- 49 alendron\$.af.
- 50 fosamax.af.
- 51 adronat.af.
- 52 alendros.af.
- 53 dronal.af.
- 54 "aminohydroxybutylidene diphosphonic acid".af.
- 55 neridron\$.af.
- 56 AHDP.af.

57 "(6-amino-1-hydroxyhexylidene)diphosphonic acid".af.  
58 zoledron\$.af.  
59 zometa.af.  
60 ibandron\$.af.  
61 bondronat.af.  
62 "(1-hydroxy-3-[methylpentylamino]propylidene)diphosphonic acid".af.  
63 olpadron\$.af.  
64 OPD.af.  
65 "(3-dimethylamino-1-hydroxypropylidene)bisphosphonate".af.  
66 incadron.af.  
67 YM175.af.  
68 YM 175.af.  
69 minodron\$.af.  
70 YM529.af.  
71 YM 529.af.  
72 or/16-71  
73 5 or 15  
74 72 and 73  
75 limit 74 to yr="2006 –Current"

### **Denosumab, Calcium and Vitamin D Search**

1 exp Prostatic Neoplasms/  
2 Prostatic Intraepithelial Neoplasia/  
3 (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.  
4 PIN.tw.  
5 1 or 2 or 3 or 4  
6 exp Calcium/  
7 exp Calcium, Dietary/  
8 calcium.tw.  
9 exp Vitamin D/  
10 (vitamin D or vitamin D2 or vitamin D3).tw.  
11 (calcitriol or cholecalciferol or colecalciferol or ergocalciferol\$ or alphacalcidol or alfacalcidol or hydroxycholecalciferol or dihydrotachysterol).tw.  
12 exp Ergocalciferols/  
13 exp Cholecalciferol/  
14 Denosumab.tw.  
15 (prolia or Xgeva).tw.  
16 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15  
17 5 and 16

### **Exercise Search**

1 Osteoporosis/  
2 (osteoporos\$ or osteopenia).mp.  
3 Bone Density/  
4 bone densit\$.mp.  
5 exp "Bone and Bones"/  
6 (bone adj (loss\$ or mass\$)).mp.  
7 bone mineral densit\$.mp.  
8 bone mineral content\$.mp.  
9 bone age.mp.  
10 bone defect\$.mp.  
11 bone deminerali?ation.mp.  
12 bone mineral\$.mp.  
13 bone strength.mp.  
14 decalcifi\$.mp.  
15 deminerali?ed bone.mp.  
16 or/1-15  
17 Prostate/  
18 exp Prostatic Neoplasms/



19 prostat\$.mp.  
 20 or/17-19  
 21 16 and 20  
 22 exp Exercise/ or exp Exercise Therapy/  
 23 exp Sports/  
 24 Physical Fitness/  
 25 (exercis\$ or sport\$).mp.  
 26 physical fitness.mp.  
 27 physical activit\$.mp.  
 28 or/22-27  
 29 21 and 28

**2. Health Economics Literature search details**

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

**3. Any further comments**

Update topic for bisphosphonates intervention so searched from 2006 onwards, no date limit used on other interventions as not an exact update from the previous guideline. Basic exclusions filter and Systematic Reviews and RCT filters were used as appropriate an intervention topic. Cinahl, BNI, AMED and PsycINFO were checked and no unique references were found.

**4. Update Search**

For the update search, the same search criteria/filters were applied as initial search with a date limit of 2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	76 & 88 & 18	17 & 11 & 2	16/05/2013
<i>Premedline (15 May 2013)</i>	19 & 35 & 5	9 & 11 & 2	16/05/2013
<i>Embase</i>	347 & 259 & 101	49 & 31 & 5	16/05/2013
<i>Cochrane Library</i>	29 & 13 & 37	0	16/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	198 together & 31	28 together & 3	16/05/2013

Note – first search result is the bisphosphonates and second search result relates to the other drug interventions and third relates to exercise.

**Total References retrieved (after de-duplication): 89 combined**

**Topic 12d: What is the most effective intervention for fatigue as a result of long term androgen suppression for prostate cancer?**

**1. Literature search details**

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1946 -	253	40	07/08/2012
<i>Premedline</i>	Aug 6, 2012	64	1	07/08/2012
<i>Embase</i>	1974 -	1414	61	08/08/2012
<i>Cochrane Library</i>	As per database	238	37	07/08/2012
<i>Web of Science (SCI &amp; SSCI)</i>	1970 -	1108	62	09/08/2012
<i>Biomed Central</i>	As per database	33	7	09/08/2012
<i>PsycINFO</i>	1806 -	77	12	07/08/2012
<i>AMED</i>	1985 -	23	6	07/08/2012

**Total References retrieved (after de-duplication): 101**

**Medline search strategy (This search strategy is adapted to each database)**

1 exp Prostatic Neoplasms/

2 Prostatic Intraepithelial Neoplasia/  
 3 (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.  
 4 PIN.tw.  
 5 1 or 2 or 3 or 4  
 6 exp Fatigue/  
 7 fatigu\$.ti,ab.  
 8 (exhaust\$ or tired\$ or weary or weariness).ti,ab.  
 9 (low adj energy).ti,ab.  
 10 or/6-9  
 11 5 and 10  
 12 exp Exercise/ or exp Exercise Therapy/  
 13 exercise.ti,ab.  
 14 ((strength or physical or resistance) adj3 (activity or intervention or train\$)).ti,ab.  
 15 exp Diet/  
 16 exp Life Style/  
 17 exp Counseling/  
 18 social support/  
 19 ((psychosocial or psychological or lifestyle or dietary or social) adj3 (support or intervention or advice)).ti,ab.  
 20 (counselling or counseling).ti,ab.  
 21 or/12-20  
 22 5 and 21  
 23 11 or 22

## 2. Health Economics Literature search details

This topic was not selected for health economic modelling. The health economics search undertaken across the population identified any general health economics papers on prostate cancer.

## 3. Any further comments

No date limit was used as not an exact update from the previous guideline. Basic exclusions filter and Systematic Reviews and RCT filters were used as an intervention topic.

## 4. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 2012 onwards.

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	59	4	16/05/2013
<i>Premedline (May 15, 2013)</i>	12	3	16/05/2013
<i>Embase</i>	322	15	16/05/2013
<i>Cochrane Library</i>	50	3	16/05/2013
<i>PsycINFO</i>	11	3	16/05/2013
<i>AMED</i>	0	0	16/05/2013
<i>Web of Science (SCI &amp; SSCI)</i>	212	16	16/05/2013
<i>Biomed Central</i>	18	6	16/05/2013

**Total References retrieved (after de-duplication): 32**

# NATIONAL COLLABORATING CENTRE FOR CANCER

## Prostate Cancer (Update) Clinical Guideline

### Health Economics

#### 1. Literature search details

Database name	No of references found	Finish date of search
<i>Medline (2010 onwards, SIGN HE filter)</i>	165	16/11/2011
<i>Premedline (Nov 15, 2011)</i>	40	16/11/2011
<i>Embase (2010 onwards, SIGN HE filter)</i>	508	16/11/2011
<i>Cochrane: HTA</i>	185	16/11/2011
<i>Cochrane: NHSEED</i>	109	16/11/2011

Total References retrieved (after de-duplication): 827

#### Medline search strategy (This search strategy is adapted to each database)

1. exp Prostatic Neoplasms/
2. prostatic intraepithelial neoplasia/
3. PIN.tw.
4. (prostat\$ adj3 (cancer\$ or carcinoma\$ or adeno\$ or malignan\$ or tum?r\$ or neoplas\$ or intraepithelial\$)).tw.
5. or/1-4

#### 2. Any further comments

SIGN Health Economics filter used on the guideline population search for Medline/Premedline and Embase, no filter used the HTA and EED databases. A full search was undertaken with no date limit to ensure full coverage of topics for the economic plan and for dealing with different health economic analyses from the last guideline.

#### 3. Update Search

For the update search, the same search criteria/filters were applied as initial search with a date limit of 16/11/2011 onwards for the first update, and then 27/03/2013 onwards for the second update.

Database name	No of references found	Finish date of search
<i>Medline (SIGN HE filter)</i>	221	27/03/2013
<i>Premedline (Mar 26, 2013)</i>	111	27/03/2013
<i>Embase (SIGN HE filter)</i>	382	27/03/2013
<i>Cochrane: HTA &amp; EED (2010 onwards)</i>	78	27/03/2013

Total References retrieved (after de-duplication): 581

Database name	No of references found	Finish date of search
<i>Medline (SIGN HE filter)</i>	17 (1)	17/05/2013
<i>Premedline (May 16, 2013)</i>	112 (11)	17/05/2013
<i>Embase (SIGN HE filter)</i>	42 (3)	17/05/2013
<i>Cochrane: HTA (2012 onwards)</i>	12 (3)	17/05/2013
<i>Cochrane EED (2012 onwards)</i>	19 (3)	17/05/2013

Total References retrieved (after de-duplication & sifting): 18