

**Table S1.** Search strategy of existing systematic reviews

Ovid MEDLINE(R) 1948 to January Week 2 2011 (Date : Jan. 25, 2011)		Ovid MEDLINE(R) 1948 to January Week 2 2011 (Date : Jan. 25, 2011)	
Searched term	Results		
1 exp Prostate-Specific Antigen/ 2 prostate specific antigen.mp. 3 psa.mp. 4 digital rectal examination.mp. 5 dre.mp. 6 transrectal ultrasound\$.mp. 7 TRUS.mp. 8 or/1-7 9 exp Mass Screening/ 10 screening.mp 11 or/9-10 12 Prostatic Neoplasms/pc, di [Prevention & Control, Diagnosis] 13 prostat\$ cancer.mp 14 or/12-13 15 Meta-Analysis as Topic/ 16 meta analy\$.tw. 17 Meta analy\$.tw. 18 Meta-Analysis/ 19 (systematic adj [review\$1 or overview\$1]).tw. 20 exp Review Literature as Topic/ 21 15 or 16 or 17 or 18 or 19 or 20 22 cochrane.ab. 23 embase.ab. 24 (psychlit or psyclit).ab. 25 (psychinfo or psycinfo).ab. 26 (cinahl or cinhal).ab. 27 science citation index.ab. 28 bids.ab. 29 cancerlit.ab. 30 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 31 reference list\$.ab. 32 bibliograph\$.ab. 33 hand-search\$.ab. 34 relevant journals.ab. 35 manual search\$.ab. 36 31 or 32 or 33 or 34 or 35 37 selection criteria.ab. 38 data extraction.ab. 39 37 or 38 40 Review/	14,957 19,289 16,504 2,484 1,574 2,326 1,288 27,265 82,691 274,229 280,110 13,197 51,189 55,595 10,658 30,312 949 26,037 23,430 5,185 64,035 14,493 12,062 783 3,860 4,735 1,161 283 465 22,700 5,502 8,393 2,432 418 1,382 16,256 12,887 5,999 17,884 1,549,697	41 39 and 40 42 Comment/ 43 Letter/ 44 Editorial/ 45 animal/ 46 human/ 47 45 not (45 and 46) 48 42 or 43 or 44 or 47 49 21 or 30 or 36 or 41 50 49 not 48 51 8 and 11 and 14 and 50	1,217 421,911 690,790 264,367 4,583,636 11,324,471 3,397,015 4,383,404 82,971 76,887 48
		Ovid-EMBASE 1980 to 2011 Week 03 (Date : Jan. 25, 2011)	
Searched term	Results		
1 Exp Prostate-Specific Antigen/ 2 prostate specific antigen.mp 3 psa.mp. 4 digital rectal examination.mp. 5 dre.mp. 6 transrectal ultrasound\$.mp. 7 TRUS.mp. 8 1 or 2 or 3 or 4 or 5 or 6 or 7 9 Mass Screening/ 10 screening.mp 11 9 or 10 12 Prostate Tumor/pc, di [Prevention, Diagnosis] 13 prostat\$ cancer.mp 14 12 or 13 15 exp Meta Analysis/ 16 ([meta adj analy\$] or metaanalys\$).tw. 17 (systematic adj [review\$1 or overview\$1]).tw. 18 15 or 16 or 17 19 cancerlit.ab. 20 cochrane.ab. 21 embase.ab. 22 (psychlit or psyclit).ab. 23 (psychinfo or psycinfo).ab. 24 (cinahl or cinhal).ab. 25 science citation index.ab. 26 bids.ab. 27 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 28 reference lists.ab.	26,457 28,760 22,880 4,470 1,965 3,084 1,986 40,974 40,572 457,305 457,305 5,103 86,323 88,604 52,449 41,997 30,756 90,693 593 19,935 16,447 907 3,933 6,021 1,506 355 29,317 6,562		

Ovid-EMBASE 1980 to 2011 Week 03 (Date : Jan. 25, 2011)	
29	bibliograph\$.ab. 10,885
30	hand-search\$.ab. 2,996
31	manual search\$.ab. 1,674
32	relevant journals.ab. 593
33	28 or 29 or 30 or 31 or 32 20,486
34	data extraction.ab. 8,513
35	selection criteria.ab. 16,668
36	34 or 35 23,892
37	review.pt. 1,668,881
38	36 and 37 15,445
39	letter.pt. 714,786
40	editorial.pt. 363,331
41	animal/ 1,640,084
42	human/ 12,116,994
43	41 not (41 and 42) 1,244,286
44	39 or 40 or 43 2,310,117
45	18 or 27 or 33 or 38 115,085
46	45 not 44 110,095
47	8 and 11 and 14 and 46 87

Cochrane Database of Systematic review (Date : Jan. 25, 2011)	
Searched term	Results
1	(PROSTATE-SPECIFIC ANTIGEN) in Cochrane Reviews, Other reviews, Technology Assessments, Economic Evaluations 169
2	(prostate next specific next antigen) in Cochrane Reviews, Other reviews, Technology Assessments, Economic Evaluations 168
3	psa in Cochrane Reviews, Other reviews, Technology Assessments, Economic Evaluations 150
4	(digital next rectal next examination) in Cochrane Reviews, Other reviews, Technology Assessments, Economic Evaluations 41
5	dre in Cochrane Reviews, Other reviews, Technology Assessments, Economic Evaluations 25
6	(transrectal next ultrasound*) in Cochrane Reviews, Other reviews, Technology Assessments, Economic Evaluations 23

Cochrane Database of Systematic review (Date : Jan. 25, 2011)	
7	trus in Cochrane Reviews, Other reviews, Technology Assessments, Economic Evaluations 22
8	(#1 or #2 or #3 or #4 or #5 or #6 or #7) 228
9	MASS SCREENING in Cochrane Reviews, Other reviews, Technology Assessments, Economic Evaluations 2,520
10	screening in Cochrane Reviews, Other reviews, Technology Assessments, Economic Evaluations 8,800
11	(#9 or #10) 8,800
12	PROSTATIC NEOPLASMS in Cochrane Reviews, Other reviews, Technology Assessments, Economic Evaluations 481
13	(prostat* next cancer) in Cochrane Reviews, Other reviews, Technology Assessments, Economic Evaluations 474
14	(#12 or #13) in Cochrane Reviews, Other reviews, Technology Assessments, Economic Evaluations 595
15	(#8 and #11 and #14) 90

Centre of Reviews and Dissemination (Date : Jan. 25, 2011)	
Searched Term	Results
1	MeSH Prostate-Specific Antigen EXPLODE 1 2 3 4 90
2	PSA 126
3	prostate AND specific AND antigen 115
4	MeSH Digital Rectal Examination EXPLODE 1 2
5	digital AND rectal AND examination* 39
6	DRE 21
7	transrectal AND ultrasound\$ 23
8	TRUS 15
9	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 205
10	MeSH Mass Screening EXPLODE 1 2 3 4 5 6 7 2,318
11	screening 3,786
12	#10 or #11 4,224
13	MeSH Prostatic Neoplasms EXPLODE 1 2 3 4 459
14	prostat* AND cancer 499
15	#13 or #14 594
16	#9 AND #12 AND #15 72