

Supplementary Table 1. Search strategy

Databases & registers	No. of initial hits	No. of updated results
Central (clinical trial register)	5	0
Embase	282	14
MEDLINE	37	1
Scopus	225	11
Web of Science	37	1
Totals	586	27

Cochrane Central Register of Controlled Trials (CCTR) via Ovid (1991+):

#Query

1 (prostat* adj1 (hypertroph* or hyperplasia* or adenofibromyomatosis or adenoma* or enlarge*)).ab,ti,hw. or BPH.ab,hw,ti.
(((alpha1 or alpha) adj1 (adren* or block*)) or tamsulosin or silodosin or alfu?osin* or terazosin* or doxazosin* or prazosin* or flomax* or alna or amsulosin or hanlosin or hanmitams or har?al* or josir or mapelor or mecir or omexel or omic or omix or omnic or pradif or secotex or tamfrefx or tamsu* or urolodin or rapaflo or silodyx or thrupas or urief or urorec or alphuzosine or urion or xatral or alcinin or alfabax or alfetim or alfoten or alfu* or altofen or alugen or azosin or benestan or besavar or dalfaz or danafusin or faralzin or flotral or fuzatal or lafunomyl or mittoval or furancarboxamide or ofuxal or prostazosin or rilif or taurazil or unibenestan or urobene or uroxatral or urozodin or vasran or xatger or zocek or zoprost or adecur or dysalfa or hytrin* or flotrin or h?itrin* or deflox or sutif or tazusin or terazoflo or zayasel or conmy or hydrin or hydracin or itrin or kinzodin or magnurol or olyster or sinalfa or teradrin or terafluss or teralfa or terapam or teraprost or terasin or terazosab or urodie or uroflo or uroprost or vasocard or vasomet or vicard or alfamedin or cardular or cardura* or diblocin or doxa-puren or doxauro or doxacor or doxagamma or doxamax or doxatensa or doxazomerck or jutalar or progandol
2 or uriduct or zoxan or uroprost or alfamedin or diblocin or adversuten or alpress or atodel or decliten or deprezolin or duramipress or eurex or furazosin or hexapress or hypotens or hypovase or hyprosin or lentopres or minesin or minipres* or minison or mizodin or patsolin or peripress or prasig or prazosin or pratisol or pratsiol or prazac or prazopress or pressin or prozodin or vasoflex or polypress or loppres or hyposin or ensibest or alphapress or praten or mima or damin or cp-prazo or alfaprost or benph or extersin or ezosina or hykor or hyron or hytroz or hyzin or ibiprovir or kornam or jun-yi or ke-pai or kozodin or lotencin or luo-di-er or ma-sha-ni or mayul or mei-li-chang or ou-de-man or pai-su or prostatil or prostera or ralsin or setegis or shi-ai-te or tai-le or terablock or tera or teranar or terapress or teraumon or terazid or terazo or alfirum or alzmeran or bundisarin or dalfusin or fetamozin or fozal or fuzocim or innosensitive or kofuzin or nuo-shu-an or profuzodin or ranfuzodin or ranplasia or rantral or spedamyl or tevax or weiping or xalfu or sidarso or combodart or duodart or jalyn or jelnu or juteo or minizide).ab,ti,hw.
3 (cogniti* or neurocogniti* or amentia* or dementia* or MCI or mental-deterioration* or overinclusion or response-interference or memor* or mental*).ab,ti,hw.
4 1 and 2 and 3

Embase via Ovid (1974+):

#	Query
1	prostate hypertrophy/
2	(prostat* adj1 (hypertroph* or hyperplasia* or adenofibromyomatosis or adenoma* or enlarge*)).ab,kf,ti,dq,hw. or BPH.ab,kf,ti,dq.
3	exp alpha 1 adrenergic receptor blocking agent/ (((alpha1 or alpha) adj1 (adren* or block*)) or tamsulosin or silodosin or alfu?osin* or terazosin* or doxazosin* or prazosin* or flomax* or alna or amsulosin or hanlosin or hanmitams or har?al* or josir or mapelor or mecir or omexel or omic or omix or omnic or pradif or secotex or tamfrex or tamsu* or urolosin or rapaflo or silodyx or thrupas or urief or urorec or alphuzosine or urion or xatral or alcinin or alfabax or alfetim or alfoten or alfu* or altofen or alugen or azosin or benestan or besavar or dalfaz or danafusin or faralzin or flotral or fuzatal or lafunomyl or mittoval or furancarboxamide or ofuxal or prostazosin or rilif or taurazil or unibenestan or urobene or uroxatral or urozosin or vasran or xatger or zocek or zoprost or adecur or dysalfa or hytrin* or flotrin or h?itritin* or deflox or sutif or tazusin or terazoflo or zayasel or conmy or hydrin or hytracin or itrin or kinzosin or magnurol or olyster or sinalfa or teradrin or terafluss or teralfa or terapam or teraprost or terasin or terazosab or urodie or uroflo or uroprost or vasocard or vasomet or vicard or alfamedin or cardular or cardura* or diblocin or doxa-puren or doxauro or doxacor or doxagamma or doxamax or doxatensa or doxazomerck or jutalar or progandol or uriduct or zoxan or uroprost or alfamedin or diblocin or adversuten or alpress or atodel or decliten or deprazolin or duramipress or eurex or furazosin or hexapress or hypotens or hypovase or hyprosin or lentopres or minesin or minipres* or minison or mizosin or patsolin or peripress or prasig or prazosin or pratisol or pratsiol or prazac or prazopress or pressin or prozosin or vasoflex or polypress or loproress or hyposin or ensibest or alphapress or praten or mima or damin or cp-prazo or alfaprost or benph or extersin or ezosina or hykor or hyron or hytroz or hyzin or ibiprovir or kornam or jun-yi or ke-pai or kozosin or lotencin or luo-di-er or ma-sha-ni or mayul or mei-li-chang or ou-de-man or pai-su or prostatil or prostera or ralsin or setegis or shi-ai-te or tai-le or terablock or tera or teranar or terapress or teraumon or terazid or terazo or alfirum or alzmeran or bundisarin or dalfusin or fetamozin or fozal or fuzocim or innosensitive or kofuzin or nuo-shu-an or profuzosin or ranfuzosin or ranplasia or rantral or spedamyl or tevax or weiping or xalfu or sidarso or combodart or duodart or jalyn or jelnu or juteo or minizide).ab,kf,ti,dq,dy,tn.
4	
5	exp cognitive defect/
6	(cogniti* or neurocogniti* or amentia* or dementia* or MCI or mental-deterioration* or overinclusion or response-interference or memor* or mental*).ab,kf,ti,hw.
7	(1 or 2) and (3 or 4) and (5 or 6)
8	(exp animal/ or animal experiment/ or nonhuman/) not (exp human/ or human experiment/)

9 exp juvenile/ not exp adult/
10 or/8-9
11 7 not 10
12 limit 11 to (english language and yr="1975 -Current")
13 limit 12 to conference abstract
14 12 not 13

MEDLINE via Ovid (1946+ and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) Daily):

#	Query
1	Prostatic Hyperplasia/
2	(prostat* adj1 (hypertroph* or hyperplasia* or adenofibromyomatosis or adenoma* or enlarge*)).ab,kf,ti,hw. or BPH.ab,kf,ti.
3	exp Adrenergic alpha-1 Receptor Antagonists/ (((alpha1 or alpha) adj1 (adren* or block*)) or tamsulosin or silodosin or alfu?osin* or terazosin* or doxazosin* or prazosin* or flomax* or alna or amsulosin or hanlosin or hanmitams or har?al* or josir or mapelor or mecir or omexel or omic or omix or omnic or pradif or secotex or tamfrefx or tamsu* or urolodin or rapaflo or silodyx or thrupas or urief or urorec or alphuzosine or urion or xatral or alcinin or alfabax or alfetim or alfoten or alfu* or altofen or alugen or azosin or benestan or besavar or dalfaz or danafusin or faralzin or flotral or fuzatal or lafunomyl or mittoval or furancarboxamide or ofuxal or prostazosin or rilif or taurazil or unibenestan or urobene or uroxatral or urosin or vasran or xatger or zocek or zoprost or adecur or dysalfa or hytrin* or flotrigin or h?itigin* or deflox or sutif or tazusin or terazoflo or zayasel or conmy or hydrin or hytracin or itigin or kinzosin or magnurol or olyster or sinalfa or teradrin or teraflus or teralfa or terapam or teraprost or terasin or terazosab or urodie or uroflo or uroprost or vasocard or vasomet or vicard or alfamedin or cardular or cardura* or diblocin or doxa-puren or doxauro or doxacor or doxagamma or doxamax or doxatensa or doxazomerck or jutalar or progandol or uriduct or zoxan or uroprost or alfamedin or diblocin or adversuten or alpress or atodel or decliten or deprezolin or duramipress or eures or furazosin or hexapress or hypotens or hypovase or hyprosin or lentopres or minesin or minipres* or minison or mizosin or patsolin or peripress or prasig or prazosin or pratisol or pratsiol or prazac or prazopress or pressin or prozosin or vasoflex or polypress or loproress or hyprosin or ensibest or alphapress or praten or mima or damin or cp-prazo or alfaprost) or benph or extersin or ezosina or hykor or hyron or hytroz or hyzin or ibiprovir or kornam or jun-yi or ke-pai or kozosin or lotencin or luo-di-er or ma-sha-ni or mayul or mei-li-chang or ou-de-man or pai-su or prostatil or prostera or ralsin or setegis or shi-ai-te or tai-le or terablock or tera or teranar or terapress or teraumon or terazid or terazo or alfirum or alzmeran or bundisarin or dalfusin or fetamozin or fozal or fuzocim or innosensitive or kofuzin or nuo-shu-an or profuzosin or ranfuzosin or ranplasia or rantral or spedamyl or tevax or weiping or xalfu or sidarso or combodart or duodart or jalyn or jelnu or juteo or minizide).ab,kf,ti,nm.
4	
5	exp Cognitive Dysfunction/ or exp Dementia/
6	(cogniti* or neurocogniti* or amentia* or dementia* or MCI or mental-deterioration* or overinclusion or response-interference or memor* or mental*).ab,kf,ti,hw.
7	(1 or 2) and (3 or 4) and (5 or 6)

- 8 exp animals/ not humans/
- 9 (exp infant/ or exp child/ or adolescent/) not exp adult/
- 10 or/8-9
- 11 7 not 10
- 12 limit 11 to (english language and yr="1975 -Current")

Scopus via Elsevier (1788+):

((TITLE-ABS-KEY((alpha1 or alpha) W/1 (adren* or block*))) OR (TITLE-ABS-KEY (tamsulosin or silodosin or alfuzosin* or terazosin* or doxazosin* or prazosin* or flomax* or alna or amsulosin or hanlosin or hanmitams or harmal* or harnal* or josir or mapelor or mecir or omexel or omic or omix or omnic or pradif or secotex or tamfrex or tamsu* or urolosin or rapaflo or silodyx or thrupas or urief or urorec or alphuzosine or urion or xatral or alcinin or alfabax or alfetim or alfoten or alfu* or altofen or alugen or azosin or benestan or besavar or dalfaz or danafusin or faralzin or flotral or fuzatal or lafunomyl or mittoval or furancarboxamide or ofuxal or prostazosin or rilif or taurazil or unibenestan or urobene or uroxatral or urozosin or vasran or xatger or zocek or zoprost or adecur or dysalfa or hytrin* or flotrin or hitrin* or heitrin or deflox or sutif or tazusin or terazoflo or zayasel or conmy or hydrin or hytracin or itrin or kinzosin or magnurol or olyster or sinalfa or teradrin or teraflus or teralfa or terapam or teraprost or terasin or terazosab or urodie or uroflo or uroprost or vasocard or vasomet or vicard or alfamedin or cardular or cardura* or diblocin or doxa-puren or doxauro or doxacor or doxagamma or doxamax or doxatensa or doxazomerck or jutalar or progandol or uriduct or zoxan or uroprost or alfamedin or diblocin or adversuten or alpress or atodel or decliten or deprazolin or duramipress or eurex or furazosin or hexapress or hypotens or hypovase or hyprosin or lentopres or minesin or minipres* or minison or mizosin or patsolin or peripress or prasig or prazosin or pratisol or pratsiol or prazac or prazopress or pressin or prozosin or vasoflex or polypress or loppres or hyposin or ensibest or alphapress or praten or mima or damin or cp-prazo or alfaprost or benph or extersin or ezosina or hykor or hyron or hytroz or hyzin or ibiprovir or kornam or jun-yi or ke-pai or kozosin or lotencin or luo-di-er or ma-sha-ni or mayul or mei-li-chang or ou-de-man or pai-su or prostatil or prostera or ralsin or setegis or shi-ai-te or tai-le or terablock or tera or teranar or terapress or teraumon or terazid or terazo or alfirum or alzmeran or bundisarin or dalfusin or fetamozin or fozal or fuzocim or innosensitive or kofuzin or nuo-shu-an or profuzosin or ranfuzosin or ranplasia or rantral or spedamyl or tevox or weiping or xalfu or sidarso or combodart or duodart or jalyn or jelnu or juteo or minizide))) AND ((TITLE-ABS-KEY(prostat* W/1 (hypertroph* or hyperplasia* or adenofibromyomatosis or adenoma* or enlarge*)) OR TITLE-ABS-KEY(BPH))) AND (TITLE-ABS-KEY(cogniti* or neurocogniti* or amentia* or dementia* or MCI or mental-deterioration* or overinclusion or response-interference or memor* or mental*)) AND (LIMIT-TO (LANGUAGE,"English")))

Web of Science Core Collection via Clarivate Analytics (Science Citation Index Expanded 1975+ & Emerging Sources Citation Index 2015+):

#4	#1 AND #2 AND #3 and English (Languages)
#3	TS=(cogniti* or neurocogniti* or amentia* or dementia* or MCI or mental-deterioration* or overinclusion or response-interference or memor* or mental*)
#2	TS=(((alpha1 or alpha) NEAR/1 (adren* or block*)) or tamsulosin or silodosin or alfu\$osin* or terazosin* or doxazosin* or prazosin* or flomax* or alna or amsulosin or hanlosin or hanmitams or har\$al* or josir or mapelor or mecir or omexel or omic or omix or omnic or pradif or secotex or tamfrex or tamsu* or urolosin or rapaflo or silodyx or thrupas or urief or uorec or alphuzosine or urion or xatral or alcinin or alfabax or alfetim or alfoten or alfu* or altofen or alugen or azosin or benestan or besavar or dalfaz or danafusin or faralzin or flotral or fuzatal or lafunomyl or mittoval or furancarboxamide or ofuxal or prostazosin or rilif or taurazil or unibenestan or urobene or uroxatral or urozosin or vasran or xatger or zocek or zoprost or adecur or dysalfa or hytrin* or flotrin or h\$itrin* or deflox or sutif or tazusin or terazoflo or zayasel or conmy or hydrin or hytracin or itrin or kinzosin or magnurol or olyster or sinalfa or teradrin or terafluss or teralfa or terapam or teraprost or terasin or terazosab or urodie or uroflo or uroprost or vasocard or vasomet or vicard or alfamedin or cardular or cardura* or diblocin or doxa-puren or doxauro or doxacor or doxagamma or doxamax or doxatensa or doxazomerck or jutalar or progandol or uriduct or zoxan or uroprost or alfamedin or diblocin or adversuten or alpress or atodel or decliten or deprazolin or duramipress or eurex or furazosin or hexapress or hypotens or hypovase or hyprosin or lentopres or minesin or minipres* or minison or mizosin or patsolin or peripress or prasig or prazosin or pratisol or pratsiol or prazac or prazopress or pressin or prozosin or vasoflex or polypress or lopress or hyposin or ensibest or alphapress or praten or mima or damin or cp-prazo or alfaprost or benph or extersin or ezosina or hykor or hyron or hytroz or hyzin or ibiprovir or kornam or jun-yi or ke-pai or kozosin or lotencin or luo-di-er or ma-sha-ni or mayul or mei-li-chang or ou-de-man or pai-su or prostatil or prostera or ralsin or setegis or shi-ai-te or tai-le or terablock or tera or teranar or terapress or teraumon or terazid or terazo or alfirum or alzmeran or bundisarin or dalfusin or fetamozin or fozal or fuzocim or innosensitive or kofuzin or nuo-shu-an or profuzosin or ranfuzosin or ranplasia or rantral or spedamyl or tevax or weiping or xalfu or sidarso or combodart or duodart or jalyn or jelnu or juteo or minizide)
#1	prostat* NEAR/1 (hypertroph* or hyperplasia* or adenofibromyomatosis or adenoma* or enlarge*) (Topic) or BPH (Topic)