

# Appendix I: Search Strategies

## I.1 Scoping search strategies

### I.1.1 Scoping searches

Scoping searches were undertaken on the following websites and databases (listed in alphabetical order) in June 2014 to provide information for scope development and project planning. Browsing or simple search strategies were employed.

Guidelines/website	Systematic review/economic evaluations
Brain and Spine Foundation	Cochrane Database of Systematic Reviews (CDSR)
Core Outcome measures in effectiveness Trials	Database of Abstracts of Reviews of Effects (DARE)
Canadian Medical Department of Health	DUETS
European Parkinson's Disease Association	Health Economic Evaluations Database (HEED)
Guidelines International Network (GIN)	Health Technology Assessment (HTA) Database
Healthtalk Online	NHS Economic Evaluation Database (NHS EED)
Map of Medicine	NIHR Health Technology Assessment Programme
Ministry of Health NZ	NIHR Health Services and Delivery Research (HS&DR) Programme
National Health and Medical Research Council (Australia)	PROSPERO
National Institute for Health and Care Excellence (NICE) - published & in development guidelines	TRIP Database
National Institute for Health and Care Excellence (NICE) - Topic Selection	
National Parkinson's Foundation (NPF)	
National Prescribing Centre	
NHS Choices	
NHS England	
NICE Clinical Knowledge Summaries	
NICE Evidence	
Parkinson's Disease Society	
Parkinson's UK	
Patient UK	
Royal Colleges	
Scottish Intercollegiate Guidelines Network (SIGN)	
US National Guideline Clearinghouse	
YouthHealthTalk	

## I.2 Review question search strategies

Sources searched for the guideline

- Cochrane Database of Systematic Reviews – CDSR (Wiley)
- Cochrane Central Register of Controlled Trials – CENTRAL (Wiley)
- Database of Abstracts of Reviews of Effects – DARE (Wiley)
- Health Technology Assessment Database – HTA (Wiley)
- EMBASE (Ovid)

- MEDLINE (Ovid)
- MEDLINE In-Process (Ovid)
- PsycINFO (Ovid) (*for review question 21*)

## I.2.1 Identification of evidence for clinical questions

The searches were conducted between October 2014 and February 2016. Re-run searches were carried out in June 2016.

For this guideline the population was limited to people with confirmed Parkinson's disease. Any other populations (hypokinetic rigid syndrome, shaking palsy, paralysis) were excluded.

The MEDLINE search strategies are presented below. These were translated for use in all of the other databases.

## I.2.2 Review question search strategies

### I.2.2.1 Review question 1: What is the comparative effectiveness of pharmacological interventions to treat daytime hypersomnolence associated with PD?

Ovid MEDLINE(R) <1946 to September Week 4 2014>  
Search carried out: 8 October 2014

Search Strategy:

- 
- 1 Parkinson Disease/
  - 2 Parkinson\*.tw.
  - 3 PD.tw.
  - 4 or/1-3
  - 5 "disorders of excessive somnolence"/ or hypersomnolence, idiopathic/
  - 6 (Hypersomnolence\* or hypersomnia\*).tw.
  - 7 ((Excessive\* or day\*) adj4 somnolence\*).tw.
  - 8 ((Excessive\* or prolong\* or long\* or extend\* or persistent\* or contin\* or extreme\* or too much or day\*) adj4 sleep\*).tw.
  - 9 EDS.tw.
  - 10 exp Sleep Disorders/
  - 11 (Sleep\* adj4 (disorder\* or problem\* or issue\* or dysfunction\* or abnormal\* or fragment\*)).tw.
  - 12 (Parasom\* or dyssom\* or sleep\*).tw.
  - 13 ((Nocturnal\* or night\*) adj4 akinesia\*).tw.
  - 14 Hypokinesia/
  - 15 (Hypokinesia\* or Bradykinesia\* or Hypodynamia\*).tw.
  - 16 Movement Disorders/
  - 17 ((Loss\* or less\* or unable\* or impair\* or decrease\* or reduce\* or weak\* or paraly\* or tight\* or stiff\* or freez\* or froze\* or disorder\* or dysfunction\*) adj4 (move\* or motion\* or muscle\* or musculat\* or motor\*)).tw.
  - 18 or/5-17
  - 19 4 and 18
  - 20 Antiparkinson Agents/
  - 21 ((Antiparkinson\* or Anti-parkinson\*) adj4 (agent\* or drug\* or tablet\* or meds or medicat\* or treat\* or therap\*)).tw.
  - 22 (Modafinil\* or Provigil).tw.
  - 23 Amantadine/
  - 24 (Amantadin\* or Symmetrel or Lysovir).tw.
  - 25 Selegiline/
  - 26 (Selegiline or Eldepryl or Zelapar).tw.

**Ovid MEDLINE(R) <1946 to September Week 4 2014>**

**Search carried out: 8 October 2014**

27 Sodium Oxybate/  
28 (Sodium oxybate or Xyrem).tw.  
29 Receptors, Histamine H3/ or Histamine Agonists/ or Histamine Antagonists/  
30 (Histamine\* adj4 (Receptor\* or Agonist\* or Antagonist\*)).tw.  
31 (Pitolisant or Tiprolisant).tw.  
32 Levodopa/  
33 (Levodopa or Co-beneldopa or Madopar).tw.  
34 dopamine agonists/ or apomorphine/ or bromocriptine/ or pergolide/  
35 Dopamine Agonist\*.tw.  
36 (Pramipexole or Mirapexin).tw.  
37 (Ropinirole or Adartrel or Requip).tw.  
38 (Rotigotine or Neupro).tw.  
39 (Bromocriptine or Parlodel).tw.  
40 (Cabergoline or Cabaser or Dostinex).tw.  
41 Pergolide.tw.  
42 (Apomorphine or APO-go).tw.  
43 or/20-42  
44 19 and 43  
45 Meta-Analysis.pt.  
46 Meta-Analysis as Topic/  
47 Review.pt.  
48 exp Review Literature as Topic/  
49 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw.  
50 (review\$ or overview\$).ti.  
51 (systematic\$ adj5 (review\$ or overview\$)).tw.  
52 ((quantitative\$ or qualitative\$) adj5 (review\$ or overview\$)).tw.  
53 ((studies or trial\$) adj2 (review\$ or overview\$)).tw.  
54 (integrat\$ adj3 (research or review\$ or literature)).tw.  
55 (pool\$ adj2 (analy\$ or data)).tw.  
56 (handsearch\$ or (hand adj3 search\$)).tw.  
57 (manual\$ adj3 search\$).tw.  
58 or/45-57  
59 animals/ not humans/  
60 58 not 59  
61 Randomized Controlled Trial.pt.  
62 Controlled Clinical Trial.pt.  
63 Clinical Trial.pt.  
64 exp Clinical Trials as Topic/  
65 Placebos/  
66 Random Allocation/  
67 Double-Blind Method/  
68 Single-Blind Method/  
69 Cross-Over Studies/  
70 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.  
71 (random\$ adj3 allocat\$).tw.  
72 placebo\$.tw.  
73 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw.  
74 (crossover\$ or (cross adj over\$)).tw.  
75 or/61-74  
76 animals/ not humans/

**Ovid MEDLINE(R) <1946 to September Week 4 2014>**

**Search carried out: 8 October 2014**

- 77 75 not 76
- 78 60 or 77
- 79 44 and 78
- 80 limit 79 to (ed=20040101-20141008 and english language)

**I.2.2.2 Review question 2: What is the effectiveness of physiotherapy (physical activity) compared with usual care?**

**Ovid MEDLINE(R) <1946 to October Week 5 2014>**

**Search carried out: 12 November 2014**

Search Strategy:

- 1 Parkinson Disease/
- 2 Parkinson\*.tw.
- 3 PD.tw.
- 4 or/1-3
- 5 Physical Therapy Modalities/
- 6 "Physical Therapy (Specialty)"/
- 7 Physical fitness/
- 8 Physical therapists/
- 9 Physio\*.tw.
- 10 Exercise Movement Techniques/
- 11 exp Exercise Therapy/
- 12 Exercise/
- 13 (Exercis\* or kinesiotherap\* or kinesiolo\*).tw.
- 14 ((Physical\* or sport\* or motion\* or resistan\* or fit\*) adj4 (activit\* or exercise\* or therap\* or treat\* or train\* or intervent\* or techni\* or modal\* or fit\*)).tw.
- 15 Muscle Stretching Exercises/
- 16 ((Musc\* or strength\* or stretch\*) adj4 (exercis\* or therap\* or treat\* or train\* or contract\* or ton\* or program\* or techni\* or relax\*)).tw.
- 17 Musculoskeletal Manipulations/
- 18 ((Musculoskeletal\* or muscle\* or manual\*) adj4 (manipulat\* or therap\* or treat\* or techni\*)).tw.
- 19 (Manipulat\* adj4 (therap\* or medicine\*)).tw.
- 20 Rehabilitation/
- 21 Hydrotherapy/
- 22 (Rehabilitat\* or Rehab or hydrotherap\* or hydropath\*).tw.
- 23 (Movement\* adj4 (rehabilit\* or enable\* or increas\* or improve\* or more or better)).tw.
- 24 (Muscle\* adj (re learn\* or re-learn\*)).tw.
- 25 (Cue\* adj strateg\*).tw.
- 26 (Compensator\* adj strateg\*).tw.
- 27 Alexander Technique.tw.
- 28 Dancing/ or Dance Therapy/
- 29 Danc\*.tw.
- 30 Walking/
- 31 (Nordic adj4 walk\*).tw.
- 32 video games/
- 33 (Wii\* or Kinect\* or exergam\*).tw.
- 34 (Gam\* adj4 (console\* or video\*)).tw.
- 35 Tai Ji/
- 36 (tai chi or tai-chi or taichi or tai ji or tai-ji or taiji or taijiquan or ji quan tai).tw.
- 37 Postural Balance/
- 38 (Balance\* adj4 (program\* or techni\* or strateg\* or therap\* or treat\* or positi\* or train\* or improve\* control\* or function\* or dysfunct\* or equilibrium\* or sway\*)).tw.
- 39 ((Bod\* or musculoskeletal\*) adj4 (equilibrium\* or sway\*)).tw.
- 40 cues/
- 41 Cue\*.tw
- 42 or/5-41
- 43 4 and 42

**Ovid MEDLINE(R) <1946 to October Week 5 2014>**

**Search carried out: 12 November 2014**

44 Meta-Analysis.pt.  
45 Meta-Analysis as Topic/  
46 Review.pt.  
47 exp Review Literature as Topic/  
48 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw.  
49 review\$.ti.  
50 (systematic\$ adj5 review\$).tw.  
51 (quantitative\$ adj5 review\$).tw.  
52 ((studies or trial\$) adj2 review\$).tw.  
53 (integrat\$ adj3 (research or review\$ or literature)).tw.  
54 (pool\$ adj2 (analy\$ or data)).tw.  
55 (handsearch\$ or (hand adj3 search\$)).tw.  
56 (manual\$ adj3 search\$).tw.  
57 or/44-56  
58 Randomized Controlled Trial.pt.  
59 Controlled Clinical Trial.pt.  
60 Clinical Trial.pt.  
61 exp Clinical Trials as Topic/  
62 Placebos/  
63 Random Allocation/  
64 Double-Blind Method/  
65 Single-Blind Method/  
66 Cross-Over Studies/  
67 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.  
68 (random\$ adj3 allocat\$).tw.  
69 placebo\$.tw.  
70 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw.  
71 (crossover\$ or (cross adj over\$)).tw.  
72 or/58-71  
73 57 or 72  
74 43 and 73  
75 Animals/ not Humans/  
76 74 not 75  
77 limit 76 to (ed=20050228-20141112 and english language)

*The in-house systematic review filter (lines 44-56) was adjusted slightly: overview and qualitative review terms were removed as these were listed in the protocol as excluded study designs.*

**I.2.2.3 Review question 3: What is the effectiveness of nutritional support compared with usual care?**

**Ovid MEDLINE(R) <1946 to November Week 3 2014>**

**Search carried out: 17 December 2014**

Search Strategy:

-----  
1 Parkinson Disease/  
2 Parkinson\*.tw.  
3 PD.tw.  
4 or/1-3  
5 Nutritional Support/ or Nutrition Therapy/ or Nutritionists/  
6 (Nutritionist\* or dietician\*).tw.  
7 ((Nutrition\* or diet\*) adj4 (support\* or treat\* or therap\* or counsel\* or advice\*)).tw.  
8 exp dietary carbohydrates/ or exp dietary fats/ or exp dietary fiber/ or exp dietary proteins/ or  
exp dietary supplements/ or exp diet therapy/  
9 ((Artificial\* or supplement\* or alternative\*) adj4 (diet\* or feed\* or food\* or nutrition\* or nutrient\*  
or intake\*)).tw.  
10 ((Diet\* or food\* of product\*) adj4 (carbohydrate\* or starch\* or fat\* or sugar\* or fiber\* or fibre\* or  
protein\* or dair\*)).tw.

**Ovid MEDLINE(R) <1946 to November Week 3 2014>**

**Search carried out: 17 December 2014**

- 11 Foods, Specialized/ or Food, Formulated/ or exp Food, Fortified/ or Functional Food/ or Health Food/
- 12 ((Diet\* or feed\* or food\* or nutrition\* or protein\* or intake\*) adj2 (special\* or formul\* or function\* or fortif\* or health\* or modif\* or enrich\* or consisten\* or thick\* or puree\* or elemental\*)).tw.
- 13 (Prebiotic\* or probiotic\* or synbiotic\*).tw.
- 14 (nutriceutical\* or nutraceutical\* or neutraceutical\*).tw.
- 15 Micronutrients/
- 16 (micronutrient\* or micro nutrient\* or micro-nutrient\* or macronutrient\* or macro nutrient\* or macro-nutrient\* or multinutrient\* or multi nutrient\* or multi-nutrient\*).tw.
- 17 ((nutrition\* or nutrient\* or food\* or feed\* or sip\* or diet\*) adj2 (food\* or feed\* or intake\* or drink\*)).tw.
- 18 ((calori\* or energy or oral\*) adj2 (supplement\* or food\* or feed\* or intake\* or drink\*)).tw.
- 19 (trace\* adj4 element\*).tw.
- 20 Dietetics/
- 21 Dietetic\*.tw.
- 22 Vitamins/
- 23 ((Vitamin\* or multivitamin\* or multi vitamin\* or multi-vitamin\*) adj4 supplement\*).tw.
- 24 Minerals/
- 25 (Mineral\* adj4 supplement\*).tw.
- 26 or/5-25
- 27 4 and 26
- 28 Meta-Analysis.pt.
- 29 Meta-Analysis as Topic/
- 30 Review.pt.
- 31 exp Review Literature as Topic/
- 32 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw.
- 33 review\$.ti.
- 34 (systematic\$ adj5 review\$).tw.
- 35 ((studies or trial\$) adj2 review\$).tw.
- 36 (integrat\$ adj3 (research or review\$ or literature)).tw.
- 37 (pool\$ adj2 (analy\$ or data)).tw.
- 38 (handsearch\$ or (hand adj3 search\$)).tw.
- 39 (manual\$ adj3 search\$).tw.
- 40 or/28-39
- 41 Randomized Controlled Trial.pt.
- 42 Controlled Clinical Trial.pt.
- 43 Clinical Trial.pt.
- 44 exp Clinical Trials as Topic/
- 45 Placebos/
- 46 Random Allocation/
- 47 Double-Blind Method/
- 48 Single-Blind Method/
- 49 Cross-Over Studies/
- 50 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.
- 51 (random\$ adj3 allocat\$).tw.
- 52 placebo\$.tw.
- 53 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw.
- 54 (crossover\$ or (cross adj over\$)).tw.
- 55 or/41-54
- 56 40 or 55
- 57 27 and 56
- 58 Animals/ not Humans/
- 59 57 not 58
- 60 limit 59 to english language

*The in-house systematic review filter (lines 28-39) was adjusted slightly: overview and qualitative review terms were removed as these were listed in the protocol as excluded study designs.*

**I.2.2.4 Review question 4: What are the needs of people with Parkinson's disease for advance directives and palliative care plans throughout the course of their disease?**

**Ovid MEDLINE(R) <1946 to January Week 1 2015>**

**Search carried out: 14 January 2015**

Search Strategy:

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- 1 Parkinson Disease/
- 2 Parkinson\*.tw.
- 3 or/1-2 (77959)
- 4 Palliative Care/
- 5 exp Terminal Care/
- 6 "Hospice and Palliative Care Nursing"/
- 7 ((Palliative\* or terminal\* or hospice\* or bereave\*) adj4 (care\* or therap\* or treat\* or medicine\* or drug\* or surg\* or nurs\* or program\* or plan\* or schedule\* or scale\* or patient\*)).tw.
- 8 Palliation\*.tw.
- 9 (End\* adj4 (life\* or liv\*) adj4 (care\* or therap\* or treat\* or medicine\* or drug\* or surg\* or nurs\* or program\* or plan\* or schedule\* or scale\* or patient\*)).tw.
- 10 EOL.tw.
- 11 Withholding treatment/
- 12 ((Withhold\* or discontin\* or stop\* or finish\* or end\* or refus\*) adj4 (care\* or therap\* or treat\* or medicine\*)).tw.
- 13 Right to die/
- 14 ((Right or dignit\* or dignifi\*) adj4 (die\* or death\* or dying or patient\*)).tw.
- 15 Advance Care Planning/
- 16 exp Advance Directives/
- 17 Advance directive adherence/
- 18 ((Advance\* or personal\*) adj4 (directive\* or decisi\* or care\* or plan\* or statement\*)).tw.
- 19 ((Liv\* or life\* or psych\*) adj4 will\*).tw.
- 20 (Ulysses adj4 (contract\* or pact\*)).tw.
- 21 (Power\* adj4 attorne\*).tw.
- 22 (Patient\* adj4 decree\*).tw.
- 23 LPA.tw.
- 24 Third-Party Consent/
- 25 Proxy/
- 26 ((Surrogat\* or prox\* or substitute\* or third\* or inform\*) adj4 (decid\* or decis\* or consent\*)).tw.
- 27 Liverpool care pathway\*.tw.
- 28 or/4-27
- 29 3 and 28
- 30 Animals/ not Humans/
- 31 29 not 30
- 32 Meta-Analysis.pt.
- 33 Meta-Analysis as Topic/
- 34 Review.pt.
- 35 exp Review Literature as Topic/
- 36 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw.
- 37 review\$.ti.
- 38 (systematic\$ adj5 review\$).tw.
- 39 (quantitative\$ adj5 review\$).tw.
- 40 ((studies or trial\$) adj2 review\$).tw.
- 41 (integrat\$ adj3 (research or review\$ or literature)).tw.
- 42 (pool\$ adj2 (analy\$ or data)).tw.
- 43 (handsearch\$ or (hand adj3 search\$)).tw.
- 44 (manual\$ adj3 search\$).tw.
- 45 or/32-44
- 46 Qualitative Research/
- 47 Nursing Methodology Research/
- 48 Interview.pt.
- 49 exp Interviews as topic/
- 50 Questionnaires/
- 51 Health Care Surveys/

**Ovid MEDLINE(R) <1946 to January Week 1 2015>**

**Search carried out: 14 January 2015**

- 52 (qualitative\$ or interview\$ or focus group\$ or questionnaire\$ or narrative\$ or narration\$ or survey\$).tw.  
53 (ethno\$ or emic or etic or phenomenolog\$ or grounded theory or constant compar\$ or (thematic\$ adj4 analys\$) or theoretical sampl\$ or purposive sampl\$).tw.  
54 (hermeneutic\$ or heidegger\$ or husser\$ or colaizzi\$ or van kaam\$ or van manen\$ or giorgi\$ or glaser\$ or strauss\$ or ricoeur\$ or spiegelberg\$ or merleau\$).tw.  
55 (metasynthes\$ or meta-synthes\$ or metasummar\$ or meta-summar\$ or metastud\$ or meta-stud\$ or metathem\$ or meta-them\$).tw.  
56 or/46-55  
57 exp Patients/px  
58 exp Family/px  
59 Caregivers/px  
60 ((patient\$ or parent\$ or famil\$ or relative\$ or carer\$ or caregiver\$ or care-giver\$ or inpatient\$ or in-patient\$ or spous\$ or husband\$ or wife\$ or wive\$ or partner\$ or mother\$ or father\$ or sibling\$ or sister\$ or brother\$) adj6 (experience\$ or belief\$ or stress\$ or emotion\$ or anx\$ or fear\$ or concern\$ or uncertain\$ or unsure or thought\$ or feeling\$ or felt\$ or view\$ or opinion\$ or perception\$ or perspective\$ or attitud\$ or satisfact\$ or know\$ or understand\$ or aware\$)).ti.  
61 Stress, Psychological/  
62 Adaptation, psychological/  
63 exp Consumer Satisfaction/  
64 patient\$ report\$ outcome\$.tw.  
65 or/57-64  
66 exp Patients/  
67 exp Family/  
68 Caregivers/  
69 (patient\$ or parent\$ or famil\$ or relative\$ or carer\$ or caregiver\$ or care-giver\$ or inpatient\$ or in-patient\$ or spous\$ or husband\$ or wife\$ or wive\$ or partner\$ or mother\$ or father\$ or sibling\$ or sister\$ or brother\$).ti.  
70 or/66-69  
71 Needs Assessment/  
72 Information Centers/  
73 Information Services/  
74 Health Education/  
75 Information Dissemination/  
76 Counseling/  
77 Social Support/  
78 Self-Help Groups/  
79 ((patient\$ or parent\$ or famil\$ or relative\$ or carer\$ or caregiver\$ or care-giver\$ or spous\$ or husband\$ or wife\$ or wive\$ or partner\$) adj6 (educat\$ or informat\$ or communicat\$ or pamphlet\$ or handout\$ or hand-out\$ or hand out\$ or booklet\$ or leaflet\$ or support\$ or need\$ or advice\$ or advis\$)).ti.  
80 ((patient\$ or parent\$ or famil\$ or relative\$ or carer\$ or caregiver\$ or care-giver\$ or spous\$ or husband\$ or wife\$ or wive\$ or partner\$) adj6 (counsel\$ or selfhelp\$ or self-help\$ or self help\$ or selfcar\$ or self-car\$ or self car\$)).ti.  
81 Patient Education as Topic/  
82 Patient Education Handout/  
83 Consumer Health Information/  
84 or/71-83  
85 70 and 84  
86 56 or 65 or 85  
87 45 or 86  
88 31 and 87  
89 Animals/ not Humans/  
90 88 not 89  
91 limit 90 to english language

*The term PD.tw has now been excluded from the population search string (lines 1-2) on request by the analyst.*



Ovid MEDLINE(R) <1946 to January Week 1 2015>

Search carried out: 14 January 2015

*The in-house systematic review filter (lines 32-44) was adjusted slightly: overview and qualitative review terms were removed as these were listed in the protocol as excluded study designs.*

**I.2.2.5 Review question 5: What is the effectiveness of speech and language therapy (SLT) compared with usual care?**

Ovid MEDLINE(R) <1946 to January Week 2 2015>

Search carried out: 16 January 2015

Search Strategy:

- 1 Parkinson Disease/
- 2 parkinson\*.tw.
- 3 or/1-2
- 4 Speech-Language Pathology/
- 5 Language Therapy/
- 6 Speech Therapy/
- 7 Voice Training/
- 8 Speech Disorders/
- 9 Language Disorders/
- 10 Voice Disorders/
- 11 ((speech or language or speak\* or verbal fluenc\* or voice\* or vocal\*) adj4 (therap\* or patholog\* or rehabilitat\* or exercise\* or train\* or treat\* or disorder\* or impair\* or unintelligib\*)).tw.
- 12 SLT\*.tw.
- 13 (cluttering\* or dyslalia\* or rhinolalia\* or aprosidi\* or dysglossia\*).tw.
- 14 Articulation Disorders/
- 15 ((articulat\* or phonolog\* or disarticulat\*) adj4 (disorder\* or impair\* or unintelligib\*)).tw.
- 16 misarticulat\*.tw.
- 17 Aphonia/
- 18 (aphonia\* or (voice adj4 absence\*)).tw.
- 19 ((lee adj4 silverman) or LSVT).tw.
- 20 ((speech or speak\* or vocal\* or voice\* or breath\*) adj4 (control\* or regulat\* or regiment\*)).tw.
- 21 Speech/
- 22 Voice/
- 23 Auditory Perception/
- 24 Speech Intelligibility/
- 25 Voice Quality/
- 26 ((auditory or audio or hear\*) adj4 (feedback or alter\*)).tw.
- 27 Singing/
- 28 Music Therapy/
- 29 (sing or singing or sings or chant\* or rhythmic vocal\* or whist!\* or harmoni\*).tw.
- 30 ((music\* or song\* or melod\*) adj4 (therap\* or treat\* or heal\* or rehabilitat\* or exercise\* or train\*)).tw.
- 31 Deglutition/ or exp Deglutition Disorders/
- 32 ((swallow\* or deglutition or dysphagia\*) adj4 (therap\* or treat\* or disorder\* or impair\*)).tw.
- 33 Dysarthria/
- 34 (dysarthria\* or dysarthos\*).tw.
- 35 Dysphonia/
- 36 dysphonia\*.tw.
- 37 or/4-36
- 38 Randomized Controlled Trial.pt.
- 39 Controlled Clinical Trial.pt.
- 40 Clinical Trial.pt.
- 41 exp Clinical Trials as Topic/
- 42 Placebos/
- 43 Random Allocation/
- 44 Double-Blind Method/
- 45 Single-Blind Method/
- 46 Cross-Over Studies/
- 47 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.

**Ovid MEDLINE(R) <1946 to January Week 2 2015>**

**Search carried out: 16 January 2015**

48 (random\$ adj3 allocat\$).tw.  
49 placebo\$.tw.  
50 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw.  
51 (crossover\$ or (cross adj over\$)).tw.  
52 or/38-51  
53 animals/ not humans/  
54 52 not 53  
55 Meta-Analysis.pt.  
56 Meta-Analysis as Topic/  
57 Review.pt.  
58 exp Review Literature as Topic/  
59 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw.  
60 review\$.ti.  
61 (systematic\$ adj5 review\$).tw.  
62 (quantitative\$ adj5 review\$).tw.  
63 ((studies or trial\$) adj2 review\$).tw.  
64 (integrat\$ adj3 (research or review\$ or literature)).tw.  
65 (pool\$ adj2 (analy\$ or data)).tw.  
66 (handsearch\$ or (hand adj3 search\$)).tw.  
67 (manual\$ adj3 search\$).tw.  
68 or/55-67  
69 54 or 68  
70 3 and 37 and 69  
71 Animals/ not Humans/  
72 70 not 71  
73 limit 72 to english language  
74 limit 73 to ed=20050126-20150114

*The term PD.tw has now been excluded from the population search string (lines 1-2) on request by the analyst.*

*The in-house systematic review filter (lines 55-67) was adjusted slightly: overview and qualitative review terms were removed as these were listed in the protocol as excluded study designs.*

**I.2.2.6 Review question 6: What are the specific information needs of women of child-bearing age with Parkinson's disease**

**Ovid MEDLINE(R) <1946 to February Week 4 2015>**

**Search carried out: 26 February 2015**

Search Strategy:

-----  
1 Parkinson Disease/  
2 Parkinson\*.tw.  
3 or/1-2  
4 (Childbear\* or child bear\*).tw.  
5 Pregnancy/  
6 Pregnant Women/  
7 Pregnancy Complications/  
8 Pregnancy outcome/  
9 Pregnant\*.tw.  
10 Parturition/  
11 (Birth\* or childbirth\* or partus or parturition).tw.  
12 Labor, Obstetric/  
13 Delivery, Obstetric/  
14 (Labour\* or labor\*).tw.

**Ovid MEDLINE(R) <1946 to February Week 4 2015>**

**Search carried out: 26 February 2015**

- 15 (Deliver\* adj4 (obstetric\* or child\* or bab\* or fetus\* or foetus\*)).tw.
- 16 Peripartum Period/
- 17 Peripart\*.tw.
- 18 Fertility/
- 19 Fertilit\*.tw.
- 20 Reproduction/
- 21 (Reproduction\* or reproductive\*).tw.
- 22 Breast Feeding/
- 23 (Breastfeed\* or breast feed\*).tw.
- 24 Maternal age/
- 25 Maternal\*.tw.
- 26 or/4-25
- 27 3 and 26
- 28 Qualitative Research/
- 29 Nursing Methodology Research/
- 30 Interview.pt.
- 31 exp Interviews as topic/
- 32 Questionnaires/
- 33 Narration/
- 34 Health Care Surveys/
- 35 (qualitative\$ or interview\$ or focus group\$ or questionnaire\$ or narrative\$ or narration\$ or survey\$).tw.
- 36 (ethno\$ or emic or etic or phenomenolog\$ or grounded theory or constant compar\$ or (thematic\$ adj4 analys\$) or theoretical sampl\$ or purposive sampl\$).tw.
- 37 (hermeneutic\$ or heidegger\$ or husser\$ or colaizzi\$ or van kaam\$ or van manen\$ or giorgi\$ or glaser\$ or strauss\$ or ricoeur\$ or spiegelberg\$ or merleau\$).tw.
- 38 (metasynthes\$ or meta-synthes\$ or metasummar\$ or meta-summar\$ or metastud\$ or meta-stud\$ or metathem\$ or meta-them\$).tw.
- 39 or/28-38
- 40 exp Patients/px
- 41 exp Family/px
- 42 Caregivers/px
- 43 ((patient\$ or parent\$ or famil\$ or relative\$ or carer\$ or caregiver\$ or care-giver\$ or inpatient\$ or in-patient\$ or spous\$ or husband\$ or wife\$ or wive\$ or partner\$ or mother\$ or father\$ or sibling\$ or sister\$ or brother\$) adj6 (experience\$ or belief\$ or stress\$ or emotion\$ or anx\$ or fear\$ or concern\$ or uncertain\$ or unsure or thought\$ or feeling\$ or felt\$ or view\$ or opinion\$ or perception\$ or perspective\$ or attitud\$ or satisfact\$ or know\$ or understand\$ or aware\$)).ti.
- 44 Stress, Psychological/
- 45 Adaptation, psychological/
- 46 Emotions/
- 47 Anxiety/
- 48 Fear/
- 49 exp Consumer Satisfaction/
- 50 patient\$ report\$ outcome\$.tw.
- 51 or/40-50
- 52 exp Patients/
- 53 exp Family/
- 54 Caregivers/
- 55 (patient\$ or parent\$ or famil\$ or relative\$ or carer\$ or caregiver\$ or care-giver\$ or inpatient\$ or in-patient\$ or spous\$ or husband\$ or wife\$ or wive\$ or partner\$ or mother\$ or father\$ or sibling\$ or sister\$ or brother\$).ti.
- 56 or/52-55

**Ovid MEDLINE(R) <1946 to February Week 4 2015>**

**Search carried out: 26 February 2015**

- 57 Pamphlets/
- 58 Needs Assessment/
- 59 Information Centers/
- 60 Information Services/
- 61 Health Education/
- 62 Information Dissemination/
- 63 Counseling/
- 64 Social Support/
- 65 Self-Help Groups/
- 66 Self Care/
- 67 ((patient\$ or parent\$ or famil\$ or relative\$ or carer\$ or caregiver\$ or care-giver\$ or spous\$ or husband\$ or wife\$ or wive\$ or partner\$) adj6 (educat\$ or informat\$ or communicat\$ or pamphlet\$ or handout\$ or hand-out\$ or hand out\$ or booklet\$ or leaflet\$ or support\$ or need\$ or advice\$ or advis\$)).ti.
- 68 ((patient\$ or parent\$ or famil\$ or relative\$ or carer\$ or caregiver\$ or care-giver\$ or spous\$ or husband\$ or wife\$ or wive\$ or partner\$) adj6 (counsel\$ or selfhelp\$ or self-help\$ or self help\$ or selfcar\$ or self-car\$ or self car\$)).ti.
- 69 Patient Education as Topic/
- 70 Patient Education Handout/
- 71 Consumer Health Information/
- 72 patient\* diar\*.tw.
- 73 or/57-72
- 74 56 and 73
- 75 39 or 51 or 74
- 76 27 and 75
- 77 Animals/ not Humans/
- 78 76 not 77
- 79 limit 78 to english language

*The term PD.tw has now been excluded from the population search string (lines 1-2) on request by the analyst.*

**I.2.2.7 Review question 7: What is the effectiveness of occupational therapy (OT) compared with usual care on the complications of PD?**

**Ovid MEDLINE(R) <1946 to March Week 1 2015>**

**Search carried out: 5 March 2015**

Search Strategy:

- 1 Parkinson Disease/
- 2 Parkinson\*.tw.
- 3 or/1-2
- 4 Occupational Therapy/
- 5 ((Occupation\* or Occ) adj4 (therap\* or treat\* or care\* or medicine\* or physical\* or nurs\* or center\* or centre\* or vocation\*)).tw.
- 6 (OT or ergotherap\*).tw.
- 7 "Activities of Daily Living"/
- 8 exp Recreation/
- 9 Leisure Activities/
- 10 ((Activit\* or function\* or task\* or independ\*) adj4 (living or life or leisure\* or everyday\* or every day\*)).tw.
- 11 (ADL or ADLs).tw.
- 12 Occupational Health Nursing/ or Rehabilitation Nursing/ or Rehabilitation Centers/ or Rehabilitation/ or Rehabilitation, Vocational/

**Ovid MEDLINE(R) <1946 to March Week 1 2015>**

**Search carried out: 5 March 2015**

- 13 ((Rehab\* or industrial\*) adj4 (therap\* or treat\* or care\* or medicine\* or physical\* or nurs\* or center\* or centre\* or vocation\* or equipment\* or patient\*).tw.
- 14 Recreation Therapy/
- 15 (Recreat\* adj4 (therap\* or treat\* or care\*).tw.
- 16 Self Care/
- 17 ((Self\* or personal\*) adj4 (care\* or manage\* or treat\*).tw.
- 18 (Self-care\* or selfcare\*).tw.
- 19 or/4-18
- 20 3 and 19
- 21 Randomized Controlled Trial.pt.
- 22 Controlled Clinical Trial.pt.
- 23 Clinical Trial.pt.
- 24 exp Clinical Trials as Topic/
- 25 Placebos/
- 26 Random Allocation/
- 27 Double-Blind Method/
- 28 Single-Blind Method/
- 29 Cross-Over Studies/
- 30 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.
- 31 (random\$ adj3 allocat\$).tw.
- 32 placebo\$.tw.
- 33 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw.
- 34 (crossover\$ or (cross adj over\$)).tw.
- 35 or/21-34
- 36 Meta-Analysis.pt.
- 37 Meta-Analysis as Topic/
- 38 Review.pt.
- 39 exp Review Literature as Topic/
- 40 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw.
- 41 review\$.ti.
- 42 (systematic\$ adj5 review\$).tw.
- 43 (quantitative\$ adj5 review\$).tw.
- 44 ((studies or trial\$) adj2 review\$).tw.
- 45 (integrat\$ adj3 (research or review\$ or literature)).tw.
- 46 (pool\$ adj2 (analy\$ or data)).tw.
- 47 (handsearch\$ or (hand adj3 search\$)).tw.
- 48 (manual\$ adj3 search\$).tw.
- 49 or/36-48
- 50 35 or 49
- 51 20 and 50
- 52 Animals/ not Humans/
- 53 51 not 52
- 54 limit 53 to (ed=20050101-20150305 and english language)

*The term PD.tw has now been excluded from the population search string (lines 1-2) on request by the analyst.*

*The in-house systematic review filter (lines 36-48) was adjusted slightly: overview and qualitative review terms were removed as these were listed in the protocol as excluded study designs.*

*This search has been limited from February 2005 as this was the cut-off date when the search was run for the previous guideline, CG35.*

**I.2.2.8 Review question 8: What factors should healthcare professionals consider as potential predictors for the development of impulse control behaviours as an adverse effect of dopaminergic treatment?**

**Review question 9: How should dopaminergic treatment be managed in people who have developed impulse control disorder as an adverse effect?**

Ovid MEDLINE(R) <1946 to January Week 2 2015>

Search carried out: 20 January 2015

Search Strategy:

- 1 Parkinson Disease/
- 2 Parkinson\*.tw.
- 3 or/1-2
- 4 Impulse Control Disorders/
- 5 exp Impulsive Behavior/
- 6 ((Impuls\* or addict\* or explosive\* or disrupt\* or obsess\* or compuls\* or repeat\* or repet\*) adj4 (control\* or disorder\* or behaviour\* or behavior\* or action\*)).tw.
- 7 Impulsiv\*.tw.
- 8 ICD.tw.
- 9 kleptomania\*.tw.
- 10 Gambling/
- 11 Gambli\*.tw.
- 12 ((Inceas\* or more\* or over\* or reck\* or impuls\* or addict\* or obsess\* or compuls\*) adj4 (pleasure\* or reward\* or driv\* or tempt\* or urge\* or shop\* or spend\* or buy\* or purchase\*)).tw.
- 13 (Risk\* adj2 tak\*).tw.
- 14 Punding\*.tw.
- 15 Hyperphagia/
- 16 (Hyperphagia\* or polyphagia\* or overeat\*).tw.
- 17 ((Inceas\* or more\* or over\* or bing\* or impuls\* or addict\* or obsess\* or compuls\*) adj4 (eat\* or food\* or feed\* or intake\*)).tw.
- 18 "sexual and gender disorders"/ or sexual dysfunctions, psychological/
- 19 (Hypersexual\* or Hyper-sexual\* or Hyper sexual\* or psychosexual\* or psycho-sexual\* or psycho sexual\*).tw.
- 20 (Sex\* adj4 (impuls\* or addict\* or obsess\* or compuls\* or control\* or drive\* or disorder\* or dysfunction\* or feel\* or orientat\* or deviat\*)).tw.
- 21 Transsexualism/
- 22 Gender Identity/
- 23 ((Male\* or masculine\* or female\* or feminin\* or man\* or men\* or women\* or woman\* or sex\* or ident\*) adj4 (role\* or gender\*)).tw.
- 24 Phenotype/
- 25 Phenotype\*.tw.
- 26 Internet/ or Social Media/ or Attitude to computers/
- 27 ((Inceas\* or more\* or impuls\* or addict\* or obsess\* or compuls\*) adj4 (use\* or using\* or search\* or time\*) adj4 (internet\* or online\* or on-line\* or web\* or apps\* or computer\* or laptop\*)).tw.
- 28 (Dopamine\* adj4 dysregulat\* adj4 syndrome\*).tw.
- 29 ((Addict\* or impuls\* or compuls\* or urge\* or increase\* or more\* or misuse\* or mis-use\* or misusing or mis-using) adj2 (med\* or drug\* or tablet\* or treat\* or therap\* or dopamine\* or dopaminergic\*)).tw.
- 30 or/4-29
- 31 3 and 30
- 32 Observational Study as Topic/
- 33 Observational Study/
- 34 Epidemiologic Studies/
- 35 exp Case-Control Studies/
- 36 exp Cohort Studies/
- 37 Cross-Sectional Studies/
- 38 Comparative Study.pt.
- 39 case control\$.tw.
- 40 case series.tw.
- 41 (cohort adj (study or studies)).tw.

**Ovid MEDLINE(R) <1946 to January Week 2 2015>**

**Search carried out: 20 January 2015**

- 42 cohort analy\$.tw.
- 43 (follow up adj (study or studies)).tw.
- 44 (observational adj (study or studies)).tw.
- 45 longitudinal.tw.
- 46 prospective.tw.
- 47 retrospective.tw.
- 48 cross sectional.tw.
- 49 or/32-48
- 50 Randomized Controlled Trial.pt.
- 51 Controlled Clinical Trial.pt.
- 52 Clinical Trial.pt.
- 53 exp Clinical Trials as Topic/
- 54 Placebos/
- 55 Random Allocation/
- 56 Double-Blind Method/
- 57 Single-Blind Method/
- 58 Cross-Over Studies/
- 59 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.
- 60 (random\$ adj3 allocat\$).tw.
- 61 placebo\$.tw.
- 62 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw.
- 63 (crossover\$ or (cross adj over\$)).tw.
- 64 or/50-63
- 65 49 or 64
- 66 31 and 65
- 67 Animals/ not Humans/
- 68 66 not 67
- 69 limit 68 to english language

*The term PD.tw has now been excluded from the population search string (lines 1-2) on request by the analyst.*

**I.2.2.9 Review question 10: What are the information needs of people with Parkinson's disease and their families and carers about the potential for impulse control disorder (ICD) when considering or starting dopaminergic treatment?**

**Ovid MEDLINE(R) <1946 to May Week 1 2015>**

**Search carried out: 11 May 2015**

Search Strategy:

- 1 Parkinson Disease/
- 2 Parkinson\*.tw.
- 3 or/1-2
- 4 Impulse Control Disorders/
- 5 exp Impulsive Behavior/
- 6 ((Impuls\* or addict\* or explosive\* or disrupt\* or obsess\* or compuls\* or repeat\* or repet\*) adj4 (control\* or disorder\* or behaviour\* or behavior\* or action\*)).tw.
- 7 Impulsiv\*.tw.
- 8 ICD.tw.
- 9 kleptomania\*.tw.
- 10 Gambling/
- 11 Gambi\*.tw.
- 12 ((Increas\* or more\* or over\* or reck\* or impuls\* or addict\* or obsess\* or compuls\*) adj4 (pleasure\* or reward\* or driv\* or tempt\* or urge\* or shop\* or spend\* or buy\* or purchase\*)).tw.
- 13 (Risk\* adj2 tak\*).tw.
- 14 Punding\*.tw.
- 15 Hyperphagia/
- 16 (Hyperphagia\* or polyphagia\* or overeat\*).tw.

Ovid MEDLINE(R) <1946 to May Week 1 2015>

Search carried out: 11 May 2015

- 17 ((Increas\* or more\* or over\* or binge\* or impuls\* or addict\* or obsess\* or compuls\*) adj4 (eat\* or food\* or feed\* or intake\*)).tw.
- 18 "sexual and gender disorders"/ or sexual dysfunctions, psychological/
- 19 (Hypersexual\* or Hyper-sexual\* or Hyper sexual\* or psychosexual\* or psycho-sexual\* or psycho sexual\*).tw.
- 20 (Sex\* adj4 (impuls\* or addict\* or obsess\* or compuls\* or control\* or drive\* or disorder\* or dysfunction\* or feel\* or orientat\* or deviat\*)).tw.
- 21 Transsexualism/
- 22 Gender Identity/
- 23 ((Male\* or masculine\* or female\* or feminin\* or man\* or men\* or women\* or woman\* or sex\* or ident\*) adj4 (role\* or gender\*)).tw.
- 24 Phenotype/
- 25 Phenotype\*.tw.
- 26 Internet/ or Social Media/ or Attitude to computers/
- 27 ((Increas\* or more\* or impuls\* or addict\* or obsess\* or compuls\*) adj4 (use\* or using\* or search\* or time\*) adj4 (internet\* or online\* or on-line\* or web\* or apps\* or computer\* or laptop\*)).tw.
- 28 (Dopamine\* adj4 dysregulat\* adj4 syndrome\*).tw.
- 29 ((Addict\* or impuls\* or compuls\* or urge\* or increase\* or more\* or misuse\* or mis-use\* or misusing or mis-using) adj2 (med\* or drug\* or tablet\* or treat\* or therap\* or dopamine\* or dopaminergic\*)).tw.
- 30 or/4-29
- 31 3 and 30
- 32 Qualitative Research/
- 33 Nursing Methodology Research/
- 34 exp Interviews as topic/
- 35 Questionnaires/
- 36 Narration/
- 37 Health Care Surveys/
- 38 (qualitative\$ or interview\$ or focus group\$ or questionnaire\$ or narrative\$ or narration\$ or survey\$).tw.
- 39 (ethno\$ or emic or etic or phenomenolog\$ or grounded theory or constant compar\$ or (thematic\$ adj4 analys\$) or theoretical sampl\$ or purposive sampl\$).tw.
- 40 (hermeneutic\$ or heidegger\$ or husser\$ or colaizzi\$ or van kaam\$ or van manen\$ or giorgi\$ or glaser\$ or strauss\$ or ricoeur\$ or spiegelberg\$ or merleau\$).tw.
- 41 (metasynthes\$ or meta-synthes\$ or metasummar\$ or meta-summar\$ or metastud\$ or meta-stud\$ or metathem\$ or meta-them\$).tw.
- 42 or/32-41
- 43 exp Patients/px
- 44 exp Family/px
- 45 Caregivers/px
- 46 ((patient\$ or parent\$ or famil\$ or relative\$ or carer\$ or caregiver\$ or care-giver\$ or inpatient\$ or in-patient\$ or spous\$ or husband\$ or wife\$ or wive\$ or partner\$ or mother\$ or father\$ or sibling\$ or sister\$ or brother\$) adj6 (experience\$ or belief\$ or stress\$ or emotion\$ or anx\$ or fear\$ or concern\$ or uncertain\$ or unsure or thought\$ or feeling\$ or felt\$ or view\$ or opinion\$ or perception\$ or perspective\$ or attitud\$ or satisfact\$ or know\$ or understand\$ or aware\$)).ti.
- 47 Stress, Psychological/
- 48 Adaptation, psychological/
- 49 Emotions/
- 50 Anxiety/
- 51 Fear/
- 52 exp Consumer Satisfaction/
- 53 patient\$ report\$ outcome\$.tw.
- 54 or/43-53
- 55 exp Patients/
- 56 exp Family/
- 57 Caregivers/
- 58 (patient\$ or parent\$ or famil\$ or relative\$ or carer\$ or caregiver\$ or care-giver\$ or inpatient\$ or in-patient\$ or spous\$ or husband\$ or wife\$ or wive\$ or partner\$ or mother\$ or father\$ or sibling\$ or sister\$ or brother\$).ti.



**Ovid MEDLINE(R) <1946 to May Week 1 2015>**

**Search carried out: 11 May 2015**

- 59 or/55-58
- 60 Pamphlets/
- 61 Needs Assessment/
- 62 Information Centers/
- 63 Information Services/
- 64 Health Education/
- 65 Information Dissemination/
- 66 Counseling/
- 67 Social Support/
- 68 Self-Help Groups/
- 69 Self Care/
- 70 ((patient\$ or parent\$ or famil\$ or relative\$ or carer\$ or caregiver\$ or care-giver\$ or spous\$ or husband\$ or wife\$ or wive\$ or partner\$) adj6 (educat\$ or informat\$ or communicat\$ or pamphlet\$ or handout\$ or hand-out\$ or hand out\$ or booklet\$ or leaflet\$ or support\$ or need\$ or advice\$ or advis\$)).ti.
- 71 ((patient\$ or parent\$ or famil\$ or relative\$ or carer\$ or caregiver\$ or care-giver\$ or spous\$ or husband\$ or wife\$ or wive\$ or partner\$) adj6 (counsel\$ or selfhelp\$ or self-help\$ or self help\$ or selfcar\$ or self-car\$ or self car\$)).ti.
- 72 Patient Education as Topic/
- 73 Patient Education Handout/
- 74 Consumer Health Information/
- 75 patient\* diar\*.tw.
- 76 or/60-75
- 77 59 and 76
- 78 42 or 54 or 77
- 79 31 and 78
- 80 Animals/ not Humans/
- 81 79 not 80
- 82 limit 81 to english language

*The term PD.tw has now been excluded from the population search string (lines 1-2) on request by the analyst.*

**I.2.2.10 Review question 11: What is the comparative effectiveness of pharmacological interventions to treat nocturnal akinesia associated with PD?**

**Review question 22: What is the comparative effectiveness of pharmacological interventions to treat REM sleep behaviour disorder (RBD) associated with PD?**

**Ovid MEDLINE(R) <1946 to May Week 1 2015>**

**Search carried out: 13 May 2015**

Search Strategy:

- 1 Parkinson Disease/
- 2 Parkinson\*.tw.
- 3 or/1-2
- 4 exp Sleep Disorders/
- 5 (Sleep\* adj4 (disorder\* or behavior\* or behaviour\* or problem\* or issue\* or dysfunction\* or abnormal\* or fragment\* or paralys\*)).tw.
- 6 (Parasom\* or dyssom\* or sleep\*).tw.
- 7 ((Nocturnal\* or night\*) adj4 akinesia\*).tw.
- 8 Hypokinesia/
- 9 (Hypokinesia\* or Bradykinesia\* or Hypodynamia\*).tw.
- 10 Movement Disorders/
- 11 ((Loss\* or less\* or unable\* or impair\* or decrease\* or reduce\* or weak\* or paraly\* or tight\* or stiff\* or freez\* or froze\* or disorder\* or dysfunction\*) adj4 (move\* or motion\* or muscle\* or musculat\* or motor\*)).tw.
- 12 REM Sleep Behavior Disorder/ or Sleep, REM/

Ovid MEDLINE(R) <1946 to May Week 1 2015>

Search carried out: 13 May 2015

- 13 (Rapid\* adj4 eye\* adj4 move\* adj4 (disorder\* or behavior\* or behaviour\*).tw.
- 14 (REM or RBD).tw.
- 15 or/4-14
- 16 3 and 15
- 17 Antiparkinson Agents/
- 18 ((Antiparkinson\* or Anti-parkinson\*) adj4 (agent\* or drug\* or tablet\* or meds or medicat\* or treat\* or therap\*).tw.
- 19 Levodopa/ or Carbidopa/ or Benserazide/
- 20 (Levodopa or Carbidopa\* or Co-beneldopa or Madopar or Benserazid\*).tw.
- 21 (Co-careldopa or sinemet or duodopa or duodenal or caramet or dopa-decarboxylase or entacapone or stalevo).tw.
- 22 l-dopa\*.tw.
- 23 (Intestinal\* adj4 gel\*).tw.
- 24 dopamine agonists/ or apomorphine/ or bromocriptine/ or pergolide/
- 25 Dopamine Agonist\*.tw.
- 26 (Pramipexole or Mirapexin).tw.
- 27 (Ropinirole or Adartrel or Requip).tw.
- 28 (Rotigotine or Neupro).tw.
- 29 (Bromocriptine or Parlodel).tw.
- 30 (Cabergoline or Cabaser or Dostinex).tw.
- 31 Pergolide.tw.
- 32 (Apomorphine or APO-go).tw.
- 33 Mianserin/ or (Mirtazapin\* or Zispin\*).tw.
- 34 benzodiazepines/ or clonazepam/
- 35 (Benzodiazepin\* or Clonazepam\* or Clobazam\* or Frisium\* or Tapclob\*).tw.
- 36 (Pregabalin\* or Lyrica).tw.
- 37 Melatonin/ or (Melatoni\* or Circadi\*).tw.
- 38 (Rivastigmin\* or Kerstipon\* or Exelon\*).tw.
- 39 (Gabapentin\* or Neurontin\*).tw.
- 40 or/17-39
- 41 16 and 40
- 42 Randomized Controlled Trial.pt.
- 43 Controlled Clinical Trial.pt.
- 44 Clinical Trial.pt.
- 45 exp Clinical Trials as Topic/
- 46 Placebos/
- 47 Random Allocation/
- 48 Double-Blind Method/
- 49 Single-Blind Method/
- 50 Cross-Over Studies/
- 51 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.
- 52 (random\$ adj3 allocat\$).tw.
- 53 placebo\$.tw.
- 54 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw.
- 55 (crossover\$ or (cross adj over\$)).tw.
- 56 or/42-55
- 57 Meta-Analysis.pt.
- 58 Meta-Analysis as Topic/
- 59 Review.pt.
- 60 exp Review Literature as Topic/
- 61 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw.
- 62 review\$.ti.
- 63 (systematic\$ adj5 review\$).tw.
- 64 (quantitative\$ adj5 review\$).tw.
- 65 ((studies or trial\$) adj2 review\$).tw.
- 66 (integrat\$ adj3 (research or review\$ or literature)).tw.
- 67 (pool\$ adj2 (analy\$ or data)).tw.
- 68 (handsearch\$ or (hand adj3 search\$)).tw.
- 69 (manual\$ adj3 search\$).tw.

**Ovid MEDLINE(R) <1946 to May Week 1 2015>**

**Search carried out: 13 May 2015**

- 70 or/57-69
- 71 56 or 70
- 72 41 and 71
- 73 Animals/ not Humans/
- 74 72 not 73
- 75 limit 74 to (ed=20050228-20150513 and english language)

*The term PD.tw has now been excluded from the population search string (lines 1-2) on request by the analyst.*

*The in-house systematic review filter (lines 57-69) was adjusted slightly: overview and qualitative review terms were removed as these were listed in the protocol as excluded study designs.*

*This search has been limited from February 2005 as this was the cut-off date when the search was run for the previous guideline, CG35.*

**I.2.2.11 Review question 12: What is the comparative effectiveness of pharmacological interventions for orthostatic hypotension associated with PD?**

**Review question 13: What is the comparative effectiveness of pharmacological interventions for thermoregulatory dysfunction / hyperhidrosis associated with PD?**

**Ovid MEDLINE(R) <1946 to May Week 3 2015>**

**Search carried out: 21 May 2015**

Search Strategy:

- 1 Parkinson Disease/
- 2 Parkinson\*.tw.
- 3 or/1-2
- 4 Hypotension, Orthostatic/ or Orthostatic Intolerance/
- 5 OH.tw.
- 6 Orthostasis\*.tw.
- 7 ((orthostatic\* or postur\* or hypostatic\*) adj4 (hypotens\* or intoleran\* or dysregulat\* or collapse\* or insufficien\* or shock\* or symptom\* or syndrome\*)).tw.
- 8 Syncope/ or Dizziness/
- 9 (syncop\* or presyncop\* or faint\* or dizz\* or lightheaded\* or light headed\* or lipothym\* or weakness\* or fatigue\* or nausea\* or palpitation\* or headache\*).tw.
- 10 (head adj2 rush\*).tw.
- 11 (drop adj2 attack\*).tw.
- 12 ((blurr\* or double\*) adj2 (vision\* or sight\*)).tw.
- 13 ((Low\* or drop\* or loss\* or lose\* or less\* or reduce\* or decreas\*) adj2 blood\* adj2 pressure\*).tw.
- 14 or/4-13
- 15 Body Temperature Regulation/ or Body Temperature/
- 16 Thermoregulat\*.tw.
- 17 ((Bod\* or regulat\*) adj4 temp\*).tw.
- 18 (Heat\* adj4 (low\* or drop\* loss\* or lose\* or less\* or reduce\* or decreas\* or intoleran\*)).tw.
- 19 Hyperhidrosis/
- 20 Hyperhidros\*.tw.
- 21 Sweating/
- 22 ((Excess\* or increas\* or more\* or abnormal\* or periodic\* or dysfunction\*) adj4 (sweat\* or perspirat\*)).tw.
- 23 Thermogenesis/ or Shivering/
- 24 (Thermogenes\* or shiver\*).tw.
- 25 or/15-24
- 26 14 or 25
- 27 3 and 26
- 28 Randomized Controlled Trial.pt.

**Ovid MEDLINE(R) <1946 to May Week 3 2015>**

**Search carried out: 21 May 2015**

29 Controlled Clinical Trial.pt.  
30 Clinical Trial.pt.  
31 exp Clinical Trials as Topic/  
32 Placebos/  
33 Random Allocation/  
34 Double-Blind Method/  
35 Single-Blind Method/  
36 Cross-Over Studies/  
37 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.  
38 (random\$ adj3 allocat\$).tw.  
39 placebo\$.tw.  
40 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw.  
41 (crossover\$ or (cross adj over\$)).tw.  
42 or/28-41  
43 Meta-Analysis.pt.  
44 Meta-Analysis as Topic/  
45 Review.pt.  
46 exp Review Literature as Topic/  
47 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw.  
48 review\$.ti.  
49 (systematic\$ adj5 review\$).tw.  
50 (quantitative\$ adj5 review\$).tw.  
51 ((studies or trial\$) adj2 review\$).tw.  
52 (integrat\$ adj3 (research or review\$ or literature)).tw.  
53 (pool\$ adj2 (analy\$ or data)).tw.  
54 (handsearch\$ or (hand adj3 search\$)).tw.  
55 (manual\$ adj3 search\$).tw.  
56 or/43-55  
57 42 or 56  
58 27 and 57  
59 Animals/ not Humans/  
60 58 not 59  
61 limit 60 to (ed=20050228-20150521 and english language)

*The term PD.tw has now been excluded from the population search string (lines 1-2) on request by the analyst.*

*The in-house systematic review filter (lines 43-55) was adjusted slightly: overview and qualitative review terms were removed as these were listed in the protocol as excluded study designs.*

*This search has been limited from February 2005 as this was the cut-off date when the search was run for the previous guideline, CG35.*

*This search was also run again in July 2015 with an in-house observational filter applied to the startegy requested by the analyst. The RCT and SR filter was removed.*

28 Observational Study as Topic/ (910)  
29 Observational Study/ (12534)  
30 Epidemiologic Studies/ (6308)  
31 exp Case-Control Studies/ (733968)  
32 exp Cohort Studies/ (1468000)  
33 Cross-Sectional Studies/ (198756)  
34 Controlled Before-After Studies/ (49)  
35 Historically Controlled Study/ (22)  
36 Interrupted Time Series Analysis/ (61)  
37 Comparative Study.pt. (1728145)  
38 case control\$.tw. (81793)  
39 case series.tw. (36623)

**Ovid MEDLINE(R) <1946 to May Week 3 2015>**

**Search carried out: 21 May 2015**

- 40 (cohort adj (study or studies)).tw. (92711)
- 41 cohort analy\$.tw. (3925)
- 42 (follow up adj (study or studies)).tw. (37584)
- 43 (observational adj (study or studies)).tw. (46427)
- 44 longitudinal.tw. (141885)
- 45 prospective.tw. (359857)
- 46 retrospective.tw. (282317)
- 47 cross sectional.tw. (171183)
- 48 or/28-47 (3474907)
- 49 27 and 48 (746)
- 50 Animals/ not Humans/ (3987802)
- 51 49 not 50 (717)
- 52 limit 51 to (ed=20050228-20150729 and english language) (399)

**I.2.2.12 Review question 14: What is the comparative effectiveness of levodopa preparations, monoamine oxidase B inhibitors, dopamine agonists and anticholinergics as first-line treatment of motor symptoms?**

**Review question 19: What is the comparative effectiveness of pharmacological interventions as adjuvants to oral levodopa preparations?**

**Ovid MEDLINE(R) <1946 to January Week 4 2016>**

**Search carried out: 2 February 2016**

Search Strategy:

- 1 Parkinson Disease/
- 2 Parkinson\*.tw.
- 3 or/1-2
- 4 Movement Disorders/
- 5 Motor Activity/ or Motor Skills/
- 6 ((Motor\* or movement) adj3 (skill\* or activit\* or funct\* or dysfunct\* or symptom\* or control\* or fluctuat\* or abnormal\* or involuntar\* or preform\*)).tw.
- 7 Dyskinesia/
- 8 Dyskinesia\*.tw.
- 9 (Wear\* off or switch\* off).tw.
- 10 (Effect\* adj3 (diminish\* or reduce\* or less\* or weak\* or fade\*)).tw.
- 11 WORK-PD.tw.
- 12 Treatment failure/
- 13 ((Inadequate\* or poor\* or insufficient\* or unsatisfactor\* or incapable\* or worse\* or deteriora\* or fail\* or relief\* or resistan\* or intoleran\* or contraindicate\* or suboptima\* or refractor\*) adj (control\* or symptom\* or treat\*)).tw.
- 14 or/4-13
- 15 3 and 14
- 16 Levodopa/ or Carbidopa/ or Benserazide/
- 17 (Levodopa or Carbidopa\* or Co-beneldopa or Madopar or Benserazid\*).tw.
- 18 (Co-careldopa or sinemet or duodopa or duodenal or caramet or dopa-decarboxylase or entacapone or stalevo).tw.
- 19 l-dopa\*.tw.
- 20 Monoamine Oxidase Inhibitors/ or Selegiline/
- 21 (Monoamine adj2 oxidase adj2 inhibitor\*).tw.
- 22 (Selegilin\* or Eldepryl or Zelapar).tw.
- 23 (Rasagilin\* or Azilect).tw.
- 24 Dopamine Agonists/
- 25 Dopamine Agonist\*.tw.
- 26 (Ropinirol\* or Adartrel or ReQuip or Eppinix or Ralnea or Raponer or Repinex or Spiroco or Ralnea or Raponer).tw.
- 27 (Pramipexol\* or Mirapexin or Oprymea).tw.
- 28 Pergolid\*.tw.

**Ovid MEDLINE(R) <1946 to January Week 4 2016>**

**Search carried out: 2 February 2016**

29 (Cabergolin\* or Cabaser or Dostinex).tw.  
30 (Bromocriptin\* or Parlodel).tw.  
31 Amantadine/  
32 (Amantadin\* or Symmetrel or Lysovir).tw.  
33 (Entacapon\* or Comtess).tw.  
34 (Tolcapon\* or Tasmar).tw.  
35 Apomorphine/  
36 (Apomorphine or Apo-morphine or Apo morphine or APOgo or APO-go or APO go).tw.  
37 (Apokyn or Ixense or Spontane or Uprima).tw.  
38 or/16-37  
39 15 and 38  
40 Randomized Controlled Trial.pt.  
41 Controlled Clinical Trial.pt.  
42 Clinical Trial.pt.  
43 exp Clinical Trials as Topic/  
44 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.  
45 or/40-44  
46 Meta-Analysis.pt.  
47 Meta-Analysis as Topic/  
48 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw.  
49 (systematic\$ adj5 review\$).tw.  
50 (quantitative\$ adj5 review\$).tw.  
51 or/46-50  
52 45 or 51  
53 39 and 52  
54 limit 53 to ed=20050228-20160205  
55 (Rotigotin\* or Neupro).tw.  
56 Cholinergic Antagonists/  
57 (Anticholinergic\* or Anti-cholinergic\* or Anti cholinergic\* or Acetylcholin\*).tw.  
58 (Cholinerg\* adj2 (antagonist\* or agent\*)).tw.  
59 Receptors, Muscarinic/  
60 (Antimuscarinic\* or Anti-muscarinic\* or Anti muscarinic\*).tw.  
61 (Muscarinic\* adj2 (antagonist\* or agent\*)).tw.  
62 Trihexyphenidyl/  
63 (Trihexyphenidyl\* or Benzhexol).tw.  
64 or/55-63  
65 15 and 64 and 52  
66 54 or 65  
67 Animals/ not Humans/  
68 66 not 67  
69 limit 68 to english language

*The term PD.tw has now been excluded from the population search string (lines 1-2) on request by the analyst.*

*The in-house systematic review filter (lines 43-47) and the in-house randomised controlled trials filter (lines 37-41) has been adjusted slightly on request by the analyst, i.e. terms that were listed in the review protocol as excluded study designs have been removed.*

*Some terms in the startgey (line 51) have been limited from February 2005 as this was the cut-off date from when these terms were searched for in the previous guideline, CG35*

**I.2.2.13 Review question 15: In people for whom deep brain stimulation (DBS) and levodopa–carbidopa intestinal gel (LCIG) are treatment options, what is the comparative effectiveness of DBS, LCIG, and best medical treatment?**

**Review question 16: Is there a benefit in receiving deep brain stimulation (DBS) in earlier, stages of PD compared to usual care?**

**Review question 17: In people who are contraindicated for deep brain stimulation, what is the effectiveness of levodopa–carbidopa intestinal gel (LCIG) plus best medical therapy compared to best medical therapy alone?**

**Review question 18: In people who are contraindicated for levodopa–carbidopa intestinal gel (LCIG), what is the effectiveness of deep brain surgery plus best medical therapy, compared to best medical therapy alone?**

Ovid MEDLINE(R) <1946 to March Week 3 2015>

Search carried out: 23 March 2015

Search Strategy:

```
-----
1  Parkinson Disease/
2  Parkinson*.tw.
3  1 or 2
4  Deep Brain Stimulation/
5  (brain* adj4 (stimulat* or excitat*)).tw.
6  DBS.tw.
7  Implantable Neurostimulators/
8  neurostimulat*.tw.
9  (implant* adj4 puls* adj4 generat*).tw.
10 IPG.tw.
11 (implant* adj4 electr*).tw.
12 (microelectrode* or micro-electrode*).tw.
13 exp Subthalamus/
14 (subthalam* or prethalam*).tw.
15 ((field* or prerubral*) adj4 (nucle* or forel*)).tw.
16 (lenticul* adj4 (nucle* or fascicul*)).tw.
17 ((corp* or body) adj4 luys*).tw.
18 STN.tw.
19 (entopedunc* or endopedunc*).tw.
20 (zona* adj4 (incerta or rostral or medial or limit* or intrathalam*)).tw.
21 (ventromedial* adj4 hypothalam*).tw.
22 (rostral adj4 tegmentum*).tw.
23 Globus Pallidus/
24 (globus adj4 pallidus).tw.
25 GPi.tw.
26 (pallidum* or pallidal*).tw.
27 paleostriatum*.tw.
28 Thalamus/
29 (thalam* or neothalam*).tw.
30 Pedunculo pontine Tegmental Nucleus/
31 (pedunculo pontin* adj4 nucle*).tw.
32 or/4-31
33 3 and 32
34 Levodopa/
35 Carbidopa/
36 Benserazide/
37 (Levodopa or Carbidopa).tw.
38 (Co-beneldopa or benserazid* or madopar).tw.
39 (Co-careldopa or sinemet or duodopa or duodenal or caramet or dopa-decarboxylase or
entacapone or stalevo).tw.
40 l-dopa*.tw.
```

**Ovid MEDLINE(R) <1946 to March Week 3 2015>**

**Search carried out: 23 March 2015**

```
41 (Intestinal* adj4 gel*).tw.
42 or/34-41
43 3 and 42
44 33 or 43
45 Randomized Controlled Trial.pt.
46 Controlled Clinical Trial.pt.
47 Clinical Trial.pt.
48 exp Clinical Trials as Topic/
49 Placebos/
50 Random Allocation/
51 Cross-Over Studies/
52 ((random$ or control$ or clinical$) adj3 (trial$ or stud$)).tw.
53 (random$ adj3 allocat$).tw.
54 placebo$.tw.
55 or/45-54
56 Meta-Analysis.pt.
57 Meta-Analysis as Topic/
58 Review.pt.
59 exp Review Literature as Topic/
60 (metaanaly$ or metanaly$ or (meta adj3 analy$)).tw.
61 review$.ti.
62 (systematic$ adj5 review$).tw.
63 (quantitative$ adj5 review$).tw.
64 ((studies or trial$) adj2 review$).tw.
65 (integrat$ adj3 (research or review$ or literature)).tw.
66 (pool$ adj2 (analy$ or data)).tw.
67 (handsearch$ or (hand adj3 search$)).tw.
68 (manual$ adj3 search$).tw.
69 or/56-68
70 55 or 69
71 44 and 70
72 Animals/ not Humans/
73 71 not 72
74 limit 73 to english language
```

*The term PD.tw has now been excluded from the population search string (lines 1-2) on request by the analyst.*

*The in-house systematic review filter (lines 56-68) was adjusted slightly: overview and qualitative review terms were removed as these were listed in the protocol as excluded study designs.*

*The in-house randomised controlled trials filter (lines 45-54) was adjusted slightly as the interventions included in the search are major surgical procedures, neither the patients nor the clinicians would be blinded to allocation, so blinding terms have been removed.*

**I.2.2.14 Review question 20: What is the comparative effectiveness of donepezil, galantamine, memantine and rivastigmine for cognitive enhancement in dementia associated with Parkinson's disease?**

**Ovid MEDLINE(R) <1946 to September Week 3 2015>**

**Search carried out: 29 September 2015**

Search Strategy:

```
-----
1 Parkinson Disease/
2 parkinson*.tw.
3 Lewy Body Disease/
4 (Lewy adj2 bod* adj2 (disease* or dement* or diffuse*)).tw.
5 (PDD or DLB or DLBD or LBD).tw.
```



Ovid MEDLINE(R) <1946 to September Week 3 2015>

Search carried out: 29 September 2015

6 or/1-5  
7 (Donepezil\* or Aricept\* or Asenta\* or Eranz\* or Memac\* or Memorit\*).tw.  
8 Memantine/  
9 (Memantin\* or Maruxa\* or Nemdatin\* or Ebix\* or Namenda\* or Axura\* or Akatinol\*).tw.  
10 Galantamine/  
11 (Galantamin\* or Reminyl\* or Acumor\* or Galsya\* or Gatalin\* or Lotprosin\* or Lycoremin\* or Nivalin\* or Razadyne\* or Jilkon\* or Galanthamin\*).tw.  
12 (Rivastigmin\* or Kerstipon\* or Exelon\* or Nimvastid\* or Prometax\*).tw.  
13 Cholinesterase Inhibitors/  
14 ((Cholinesterase\* or acetylcholinesterase\*) adj2 (inhibitor\* or block\*)).tw.  
15 (ChEI\* or AChEI\*).tw.  
16 or/7-15  
17 6 and 16  
18 animals/ not human/  
19 17 not 18  
20 Randomized Controlled Trial.pt.  
21 Controlled Clinical Trial.pt.  
22 Clinical Trial.pt.  
23 exp Clinical Trials as Topic/  
24 Placebos/  
25 Random Allocation/  
26 Double-Blind Method/  
27 Single-Blind Method/  
28 Cross-Over Studies/  
29 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.  
30 (random\$ adj3 allocat\$).tw.  
31 placebo\$.tw.  
32 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw.  
33 (crossover\$ or (cross adj over\$)).tw.  
34 or/20-33  
35 animals/ not humans/  
36 34 not 35  
37 Meta-Analysis.pt.  
38 Meta-Analysis as Topic/  
39 Review.pt.  
40 exp Review Literature as Topic/  
41 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw.  
42 review\$.ti.  
43 (systematic\$ adj5 review\$).tw.  
44 (quantitative\$ adj5 review\$).tw.  
45 ((studies or trial\$) adj2 review\$).tw.  
46 (integrat\$ adj3 (research or review\$ or literature)).tw.  
47 (pool\$ adj2 (analy\$ or data)).tw.  
48 (handsearch\$ or (hand adj3 search\$)).tw.  
49 (manual\$ adj3 search\$).tw.  
50 or/37-49  
51 animals/ not human/  
52 50 not 51  
53 36 or 52  
54 19 and 53  
55 limit 54 to (ed=20050228-20150929 and english language)

*Lewy Body Disease terms have been included in the population search string (lines 1-5) for this question.*

*The in-house systematic review filter (lines 37-49) was adjusted slightly: overview and qualitative review terms were removed as these were listed in the protocol as excluded study designs.*

I.2.2.15 Review question 21: What is the comparative effectiveness of pharmacological interventions for psychotic symptoms associated with PD?

Ovid MEDLINE(R) <1946 to October Week 5 2015>

Search carried out: 5 November 2015

Search Strategy:

-----

- 1 Parkinson Disease/
- 2 parkinson\*.tw.
- 3 1 or 2
- 4 Clozapine/
- 5 (clozapine\* or leponex\* or clozaril\* or denzapine\* or zaponex\*).tw.
- 6 (olanzapin\* or zalast\* or zyprexa\* or velotab\*).tw.
- 7 Risperidone/
- 8 (risperidon\* or risperdal\* or quicklet\*).tw.
- 9 (quetiapine\* or atrolak\* or ebesque\* or seotiapim\* or seroquel\* or sondate\* or tenprolide\*).tw.
- 10 (Amisulprid\* or Solian\*).tw.
- 11 or/4-10
- 12 3 and 11
- 13 limit 12 to ed=20050228-20151105
- 14 (aripiprazole\* or abilify\*).tw.
- 15 (rivastigmin\* or kerstipon\* or exelon\* or nimvastid\* or prometax\*).tw.
- 16 Memantine/
- 17 (memantin\* or maruxa\* or nemdatin\* or ebix\* or namenda\* or axura\* or akatinol\*).tw.
- 18 (donepezil\* or aricept\* or asenta\* or eranz\* or memac\* or memorit\*).tw.
- 19 Galantamine/
- 20 (galantamin\* or reminyl\* or acumor\* or galsya\* or gatalin\* or lotprosin\* or lycoremin\* or nivalin\* or razadyne\* or jilkon\* or galanthamin\*).tw.
- 21 Haloperidol/
- 22 (haloperidol\* or haldol\* or dozic\* or fortunan\* or serenace\*).tw.
- 23 or/14-22
- 24 3 and 23
- 25 13 or 24
- 26 Meta-Analysis.pt.
- 27 Meta-Analysis as Topic/
- 28 Review.pt.
- 29 exp Review Literature as Topic/
- 30 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw.
- 31 review\$.ti.
- 32 (systematic\$ adj5 review\$).tw.
- 33 (quantitative\$ adj5 review\$).tw.
- 34 ((studies or trial\$) adj2 review\$).tw.
- 35 (integrat\$ adj3 (research or review\$ or literature)).tw.
- 36 (pool\$ adj2 (analy\$ or data)).tw.
- 37 (handsearch\$ or (hand adj3 search\$)).tw.
- 38 (manual\$ adj3 search\$).tw.
- 39 or/26-38
- 40 Randomized Controlled Trial.pt.
- 41 Controlled Clinical Trial.pt.
- 42 Clinical Trial.pt.
- 43 exp Clinical Trials as Topic/
- 44 Placebos/
- 45 Random Allocation/
- 46 Double-Blind Method/
- 47 Single-Blind Method/
- 48 Cross-Over Studies/
- 49 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.
- 50 (random\$ adj3 allocat\$).tw.
- 51 placebo\$.tw.
- 52 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw.
- 53 (crossover\$ or (cross adj over\$)).tw.
- 54 or/40-53

## Ovid MEDLINE(R) <1946 to October Week 5 2015>

Search carried out: 5 November 2015

- 55 39 or 54
- 56 25 and 55
- 57 animals/ not humans/
- 58 56 not 57
- 59 limit 58 to english language

*The term PD.tw has now been excluded from the population search string (lines 1-2) on request by the analyst.*

*The in-house systematic review filter (lines 26-38) was adjusted slightly: overview and qualitative review terms were removed as these were listed in the protocol as excluded study designs.*

*Some terms in the startegy (line 13) have been limited from February 2005 as this was the cut-off date from when these terms were searched for in the previous guideline, CG35*

## I.3 Health economics search strategy

### I.3.1 Economic evaluations and quality of life data

#### Sources searched to identify economic evaluations

- NHS Economic Evaluation Database – NHS EED (Wiley)
- Health Economic Evaluations Database – HEED (Wiley) (*until December 2014*)
- EconLit (Ovid) (*used for re-run searches as NHS EED became a legacy database*)
- Embase (Ovid)
- MEDLINE (Ovid)
- MEDLINE In-Process (Ovid)

Search filters to retrieve economic evaluations and quality of life papers were appended to the population search terms in MEDLINE, MEDLINE In-Process and EMBASE to identify relevant evidence.

Searches were carried out between October 2014 and February 2016. Re-run searches took place in June 2016.

**The MEDLINE economic evaluations and quality of life search filters are presented below. They were translated for use in the MEDLINE In-Process and Embase databases.**

#### Economic evaluations

- 1 Economics/
- 2 exp "Costs and Cost Analysis"/
- 3 Economics, Dental/
- 4 exp Economics, Hospital/
- 5 exp Economics, Medical/
- 6 Economics, Nursing/
- 7 Economics, Pharmaceutical/
- 8 Budgets/
- 9 exp Models, Economic/
- 10 Markov Chains/
- 11 Monte Carlo Method/
- 12 Decision Trees/
- 13 econom\$.tw.
- 14 cba.tw.

The MEDLINE economic evaluations and quality of life search filters are presented below. They were translated for use in the MEDLINE In-Process and Embase databases.

- 15 cea.tw.
- 16 cua.tw.
- 17 markov\$.tw.
- 18 (monte adj carlo).tw.
- 19 (decision adj2 (tree\$ or analys\$)).tw.
- 20 (cost or costs or costing\$ or costly or costed).tw.
- 21 (price\$ or pricing\$).tw.
- 22 budget\$.tw.
- 23 expenditure\$.tw.
- 24 (value adj2 (money or monetary)).tw.
- 25 (pharmacoeconomic\$ or (pharmaco adj economic\$)).tw.
- 26 or/1-25

#### Quality of life

- 1 "Quality of Life"/
- 2 quality of life.tw.
- 3 "Value of Life"/
- 4 Quality-Adjusted Life Years/
- 5 quality adjusted life.tw.
- 6 (qaly\$ or qald\$ or qale\$ or qtime\$).tw.
- 7 disability adjusted life.tw.
- 8 daly\$.tw.
- 9 Health Status Indicators/
- 10 (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).tw.
- 11 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).tw.
- 12 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).tw.
- 13 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).tw.
- 14 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).tw.
- 15 (euroqol or euro qol or eq5d or eq 5d).tw.
- 16 (qol or hql or hqol or hrqol).tw.
- 17 (hye or hyes).tw.
- 18 health\$ year\$ equivalent\$.tw.
- 19 utilit\$.tw.
- 20 (hui or hui1 or hui2 or hui3).tw.
- 21 disutili\$.tw.
- 22 rosser.tw.
- 23 quality of wellbeing.tw.
- 24 quality of well-being.tw.
- 25 qwb.tw.
- 26 willingness to pay.tw.
- 27 standard gamble\$.tw.
- 28 time trade off.tw.
- 29 time tradeoff.tw.
- 30 tto.tw.
- 31 or/1-30

