

Appendix I: Search Strategies

1 Scoping search strategies

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	DUETS
Department of Health	Health Economic Evaluations Database (HEED)
European Parkinson's Disease Association	Health Technology Assessment (HTA) Database
Guidelines International Network (GIN)	NHS Economic Evaluation Database (NHS EED)
Healthtalk Online	NIHR Health Technology Assessment Programme
Map of Medicine	NIHR Health Services and Delivery Research (HS&DR) Programme
Ministry of Health NZ	PROSPERO
National Health and Medical Research Council (Australia)	TRIP Database
National Institute for Health and Care Excellence (NICE) - published & in development guidelines	
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	

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*)

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.

2.2 Review question search strategies

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:

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

- 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.
- 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/

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

Search carried out: 8 October 2014

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

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

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
 - 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.

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

Search carried out: 12 November 2014

- 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.

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/

Ovid MEDLINE(R) <1946 to November Week 3 2014>**Search carried out: 17 December 2014**

- 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.
- 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

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

Search carried out: 17 December 2014

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.

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:

-
- 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.

Ovid MEDLINE(R) <1946 to January Week 1 2015>**Search carried out: 14 January 2015**

- 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/
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/

Ovid MEDLINE(R) <1946 to January Week 1 2015>**Search carried out: 14 January 2015**

- 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.

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.

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 whistl* or harmoni*).tw.

Ovid MEDLINE(R) <1946 to January Week 2 2015>**Search carried out: 16 January 2015**

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.
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.

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 Pregnan*.tw.
 - 10 Parturition/
 - 11 (Birth* or childbirth* or partus or parturition).tw.
 - 12 Labor, Obstetric/
 - 13 Delivery, Obstetric/
 - 14 (Labour* or labor*).tw.
 - 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

Ovid MEDLINE(R) <1946 to February Week 4 2015>**Search carried out: 26 February 2015**

- 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
- 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 serach string (lines 1-2) on request by

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

Search carried out: 26 February 2015

the analyst.

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/
 - 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/

Ovid MEDLINE(R) <1946 to March Week 1 2015>**Search carried out: 5 March 2015**

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.

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?

2.2.9 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.

Ovid MEDLINE(R) <1946 to January Week 2 2015>**Search carried out: 20 January 2015**

- 8 ICD.tw.
- 9 kleptomania*.tw.
- 10 Gambling/
- 11 Gambbl*.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.
- 17 ((Increas* 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 ((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 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.
- 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/

Ovid MEDLINE(R) <1946 to January Week 2 2015>**Search carried out: 20 January 2015**

- 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.

2.2.10 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 Gamb*.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/

Ovid MEDLINE(R) <1946 to May Week 1 2015>**Search carried out: 11 May 2015**

- 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.
 59 or/55-58
 60 Pamphlets/
 61 Needs Assessment/
 62 Information Centers/
 63 Information Services/
 64 Health Education/
 65 Information Dissemination/
 66 Counseling/

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

Search carried out: 11 May 2015

- 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 serach string (lines 1-2) on request by the analyst.

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

2.2.12 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.

Ovid MEDLINE(R) <1946 to May Week 1 2015>**Search carried out: 13 May 2015**

- 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/
- 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.

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

Search carried out: 13 May 2015

- 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.
- 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.

2.2.13 Review question 12: What is the comparative effectiveness of pharmacological interventions for orthostatic hypotension associated with PD?

2.2.14 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.

Ovid MEDLINE(R) <1946 to May Week 3 2015>**Search carried out: 21 May 2015**

- 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.
- 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

Ovid MEDLINE(R) <1946 to May Week 3 2015>**Search carried out: 21 May 2015***run for the previous guideline, CG35.**This search was also run again in July 2015 with an in-house observational filter applied to the strategy 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)
 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)

2.2.15 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?

2.2.16 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.

Ovid MEDLINE(R) <1946 to January Week 4 2016>**Search carried out: 2 February 2016**

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 swith* 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.
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 or/16-34
36 15 and 35
37 Randomized Controlled Trial.pt.
38 Controlled Clinical Trial.pt.
39 Clinical Trial.pt.
40 exp Clinical Trials as Topic/
41 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.
42 or/37-41
43 Meta-Analysis.pt.
44 Meta-Analysis as Topic/
45 (metaanaly\$ or metanaly\$ or (meta adj3 analy\$)).tw.
46 (systematic\$ adj5 review\$).tw.
47 (quantitative\$ adj5 review\$).tw.
48 or/43-47
49 42 or 48
50 36 and 49
51 limit 50 to ed=20050228-20160205
52 (Rotigotin* or Neupro).tw.
53 Cholinergic Antagonists/
54 (Anticholinergic* or Anti-cholinergic* or Anti cholinergic* or Acetylcholin*).tw.
55 (Cholinerg* adj2 (antagonist* or agent*)).tw.
56 Receptors, Muscarinic/

Ovid MEDLINE(R) <1946 to January Week 4 2016>**Search carried out: 2 February 2016**

57 (Antimuscarinic* or Anti-muscarinic* or Anti muscarinic*).tw.
 58 (Muscarinic* adj2 (antagonist* or agent*)).tw.
 59 Trihexyphenidyl/
 60 (Trihexyphenidyl* or Benzhexol).tw.
 61 or/52-60
 62 15 and 61 and 49
 63 51 or 62
 64 Animals/ not Humans/
 65 63 not 64
 66 limit 65 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 strategy (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

- 2.2.17 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?**
- 2.2.18 Review question 16: Is there a benefit in receiving deep brain stimulation (DBS) in earlier, stages of PD compared to usual care?**
- 2.2.19 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?**
- 2.2.20 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 luis*).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 Pedunculopontine Tegmental Nucleus/
 - 31 (pedunculopontin* 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.
 - 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.

Ovid MEDLINE(R) <1946 to March Week 3 2015>**Search carried out: 23 March 2015**

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.

2.2.21 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.
 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.

Ovid MEDLINE(R) <1946 to September Week 3 2015>**Search carried out: 29 September 2015**

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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)

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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.

2.2.22 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 reminyll* 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/

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Ovid MEDLINE(R) <1946 to October Week 5 2015>**Search carried out: 5 November 2015**

- 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
 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 strategy (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

3 Health economics search strategy

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/

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.

- 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.
- 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.

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.

- 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