

Literature search strategies

Due to the broad population of the guideline and the inclusion of non-randomised trials, initial evidence searches retrieved significantly large numbers of abstracts (tens of thousands for each question). Therefore, to make the most efficient use of time and resources, the searches had to be narrowed down. The Committee was aware of a recent widely agreed classification that was published by the Neurological Intelligence Network (NIN) and which used the International Classification of Diseases codes (ICD10 2015) to define the conditions included in adult neurology in England. The Committee used this classification to map out each sign and symptom to the relevant conditions which were then used to narrow down the populations in the search strategy and hence obtain more manageable numbers of abstracts. For conditions relating to childhood conditions, the paediatric specialists on the Committee used the NIN list as a basis for producing a list of relevant conditions for children. The conditions/population included for each search strategy are listed in the protocols in Appendix C and in the search strategies in Appendix G.

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Introduction	Search methodology
A.5.1	Health economic reviews

Search strategies used for the Suspected neurological conditions guideline are outlined below and were run in accordance with the methodology in the NICE guidelines manual 2014, available from <https://www.nice.org.uk/article/pmg20/>. Searches were run between **3rd June and 9th March 2017** (see individual questions for exact date). Any studies added to the databases after this date (even those published prior to this date) were not included unless specifically stated in the text. Where possible searches were limited to retrieve material published in English.

All searches for the **clinical reviews** were run in Medline (OVID) and Embase (OVID). Additionally the Cochrane Library (Wiley) was searched for certain questions relating to predictive tests, see Table 1.

Searches for **prognostic studies** were usually constructed combining population terms with prognostic variable terms and sometimes outcomes. Search filters were added to the search where appropriate. A search filter for signs and symptoms was also used in questions A.4.2, A.4.3, A.4.4, A.4.8, **Error! Reference source not found.** and A.4.10.

Table 1: Databases used

Question	Question number	Databases
Abnormal head shape	Error! Reference source not found.	Medline and Embase
Atraumatic facial pain	A.4.2	Medline and Embase
Dizziness	A.4.3	Medline and Embase
Headaches in children	A.4.4	Medline and Embase
HINTS test	A.4.5	Medline, Embase and Cochrane
Memory tests	A.4.6	Medline, Embase and Cochrane
Motor developmental delay (CK test)	A.4.7	Medline, Embase and Cochrane
Paroxysmal events in children	A.4.8	Medline and Embase
Tingling	Error! Reference source not found.	Medline and Embase
Tremor	A.4.10	Medline and Embase

Searches for the health economic reviews were run in Medline, Embase, the NHS Economic Evaluations Database (NHS EED) and the Health Technology Assessment (HTA) database. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). The NHS EED database has not been updated since 2015.

For Medline and Embase an economic filter (instead of a study type filter) was added to the same clinical search strategy. Searches in CRD and HEED were constructed using population terms only.

A.2 Population search strategies

There is no standard population for this guideline. The guideline covers a range of signs and symptoms each potentially indicating one of several underlying neurological conditions. The underlying conditions varied depending on the sign or symptom being investigated. Consequently, search strategies were created for 18 identified core conditions. For each search sign and symptom, terms were combined with the relevant core conditions. More information about each review question is provided in the review protocols in appendix C and appendix D.

A.2.1 Age groups

Searches **Error! Reference source not found.**, A.4.4, A.4.7 and A.4.8 only applied to children and infants so a specific filter was applied.

A.2.1.1 Children and babies

Medline search terms

1.	exp child/
2.	exp pediatrics/
3.	(child* or toddler* or infant* or baby or babies*).ti,ab.
4.	(pediatric*1 or paediatric*1).ti,ab.
5.	exp infant/
6.	or/1-5

Embase search terms

1.	exp child/
2.	exp pediatrics/
3.	(child* or toddler* or infant* or baby or babies*).ti,ab.
4.	(pediatric*1 or paediatric*1).ti,ab.
5.	or/1-4

Cochrane search terms

#1.	MeSH descriptor: [child] explode all trees
#2.	MeSH descriptor: [pediatrics] explode all trees
#3.	(child* or toddler* or infant* or baby or babies*).ti,ab
#4.	(pediatric*1 or paediatric*1):ti,ab
#5.	MeSH descriptor: [infant] explode all trees
#6.	(or #1-#5)

A.2.2 Conditions

A.2.2.1 Ataxia

Medline search terms

1.	exp ataxia/ or exp spinocerebellar degenerations/ or exp spinocerebellar ataxias/
2.	(ataxia* or spastic paraplegia*).ti,ab.
3.	(spinocerebellar adj3 (degeneration* or disease)).ti,ab.
4.	or/1-3

Embase search terms

1.	exp ataxia/
2.	(ataxia* or spastic paraplegia*).ti,ab.
3.	(spinocerebellar adj3 (degeneration* or disease)).ti,ab.
4.	or/1-3

CRD search terms

#1.	MeSH descriptor ataxia explode all trees
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#2.	MeSH descriptor spinocerebellar degenerations explode all trees
#3.	MeSH descriptor spinocerebellar ataxias explode all trees
#4.	((ataxia* or spastic paraplegia*)
#5.	((spinocerebellar adj3 (degeneration* or disease)))
#6.	#1 or #2 or #3 or #4 or #5

A.2.2.2 Brain spinal injury

Medline search terms

1.	craniocerebral trauma/ or exp brain injuries/ or coma, post-head injury/ or exp head injuries, closed/ or head injuries, penetrating/ or exp intracranial hemorrhage, traumatic/ or exp skull fractures/
2.	((head or brain or spinal or spine) adj3 (injur* or trauma)).ti,ab.
3.	((skull or spinal or spine) adj3 fracture*).ti,ab.
4.	exp spinal injuries/ or spinal cord injuries/ or exp neck injuries/
5.	(whiplash or coma* or concussion*).ti,ab.
6.	(injur* adj3 (intracranial or nerve* or plexus or cervical or thoracic or lumbar or peripheral or cauda equina or cord or lumbosacral or neck or brain or spinal or spine)).ti,ab.
7.	(traumatic adj3 (brain or spine or spinal or oedema* or edema* or haemorrhag* or hemorrhag*)).ti,ab.
8.	or/1-7

Embase search terms

1.	exp brain injury/ or head injury/ or traumatic brain injury/
2.	((head or brain or spinal or spine) adj3 (injur* or trauma)).ti,ab.
3.	((skull or spinal or spine) adj3 fracture*).ti,ab.
4.	spine injury/ or cervical spine injury/ or spinal cord injury/ or cervical spinal cord injury/ or neck injury/ or whiplash injury/
5.	(whiplash or coma or concussion).ti,ab.
6.	(injur* adj3 (intracranial or nerve* or plexus or cervical or thoracic or lumbar or peripheral or cauda equina or cord or lumbosacral or neck or brain or spinal or spine)).ti,ab.
7.	(traumatic adj3 (brain or spine or spinal or oedema* or haemorrhag*)).ti,ab.
8.	or/1-7

A.2.2.3 Cranial nerve diseases

Medline search terms

1.	cranial nerve diseases/ or exp abducens/ or nerve diseases/ or exp accessory nerve diseases/ or exp glossopharyngeal nerve diseases/ or exp hypoglossal nerve diseases/ or exp olfactory nerve diseases/ or exp optic nerve diseases/ or exp trochlear nerve diseases/ or exp vagus nerve diseases/ or exp vestibulocochlear nerve diseases/
2.	exp facial nerve diseases/
3.	((abducens or nerve or accessory or glossopharyngeal or hypoglossal or olfactory or optic or visual cortex or trochlear or vagus or vestibulocochlear or cochlear) adj3 (disease* or disorder*)).ti,ab.

4.	((cranial or facial or hemifacial or hemi-facial) adj3 (disease* or palsy or palsies* or neuralgia or neuropath* or spasm*)).ti,ab.
5.	(melkersson-rosenthal syndrome or bell's palsy or bells palsy or trigeminal neuralgia or trigeminus neuralgia or postzoster neuralgia or melkersson syndrome or facial myokymia or geniculate ganglionitis).ti,ab.
6.	or/1-5

Embase search terms

1.	cranial neuropathy/ or abducens nerve disease/ or accessory nerve disease/ or glossopharyngeal nerve disease/ or hypoglossal nerve disease/ or olfactory nerve disease/ or optic nerve disease/ or vagus nerve disease/ or trochlear nerve disease/ or vestibulocochlear nerve disease/
2.	((abducens or nerve or accessory or glossopharyngeal or hypoglossal or olfactory or optic or visual cortex or trochlear or vagus or vestibulocochlear or cochlear) adj3 (disease* or disorder*)).ti,ab.
3.	((cranial or facial or hemifacial or hemi-facial) adj3 (disease* or palsy or palsies* or neuralgia or neuropath* or spasm*)).ti,ab.
4.	(melkersson-rosenthal syndrome or bell's palsy or bells palsy or trigeminal neuralgia or trigeminus neuralgia or postzoster neuralgia or melkersson syndrome or facial myokymia or geniculate ganglionitis).ti,ab.
5.	bell palsy/
6.	melkersson rosenthal syndrome/
7.	hemifacial spasm/
8.	facial nerve disease/ or hemifacial atrophy/ or face pain/ or herpes zoster oticus/ or moebius syndrome/
9.	trigeminus neuralgia/
10.	or/1-9

CRD search terms

#1.	MeSH descriptor cranial nerve diseases
#2.	MeSH descriptor accessory nerve diseases explode all trees
#3.	MeSH descriptor glossopharyngeal nerve diseases explode all trees
#4.	MeSH descriptor olfactory nerve diseases explode all trees
#5.	MeSH descriptor optic nerve diseases
#6.	MeSH descriptor trochlear nerve diseases explode all trees
#7.	MeSH descriptor vagus nerve diseases explode all trees
#8.	MeSH descriptor vestibulocochlear nerve diseases explode all trees
#9.	MeSH descriptor facial nerve diseases explode all trees
#10.	((abducens or nerve or accessory or glossopharyngeal or hypoglossal or olfactory or optic or visual cortex or trochlear or vagus or vestibulocochlear or cochlear) adj3 (disease* or disorder*)))
#11.	((cranial or facial or hemifacial or hemi-facial) adj3 (disease* or palsy or palsies* or neuralgia or neuropath* or spasm*)))
#12.	((melkersson-rosenthal syndrome or bell's palsy or bells palsy or trigeminal neuralgia or trigeminus neuralgia or postzoster neuralgia or melkersson syndrome or facial myokymia or geniculate ganglionitis))
#13.	MeSH descriptor abducens nerve diseases explode all trees
#14.	MeSH descriptor hypoglossal nerve diseases explode all trees
#15.	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14

A.2.2.4 Central nervous system diseases

Medline search terms

1.	exp central nervous system infections/
2.	exp central nervous system viral diseases/
3.	rabies/
4.	((amoebic or phaeomycotic or anoxic) adj3 (brain abscess* or brain disease*)).ti,ab.
5.	(meningeal tuberculoma or tuberculous meningitis).ti,ab.
6.	rabies.ti,ab.
7.	poliomyelitis.ti,ab.
8.	((post-polio or post polio or postpolio) adj1 syndrome).ti,ab.
9.	(creutzfeldt-jakob disease or panencephalitis or multifocal leukoencephalopath*).ti,ab.
10.	((intracranial or intraspinal or intra-cranial or intra-spinal or intra cranial or intra spinal) adj4 (phlebitis or thrombophlebitis)).ti,ab.
11.	((intracranial or intra-cranial or intraspinal or intra-spinal or extradural or subdural or sub-dural or extra-dural or intraspinal or intra-spinal) adj4 (abscess* or granuloma)).ti,ab.
12.	vertigo.ti,ab.
13.	((central nervous system or cns) adj3 (virus* or infection* or attack* or cysticercosis)).ti,ab.
14.	(meningitis or choriomeningitis or meningococcal).ti,ab.
15.	(encephalitis or meningoencephalitis or meningomyelitis or myelitis or cerebral cryptococcosis or rhinocerebral mucormycosis).ti,ab.
16.	((chagas' disease or tubercularosis) adj3 nervous system).ti,ab.
17.	or/1-16

Embase search terms

1.	central nervous system infection/ or brain infection/ or central nervous system tuberculosis/ or exp meningitis/ or exp poliomyelitis/ or exp postpoliomyelitis syndrome/ or rabies/
2.	((amoebic or phaeomycotic or anoxic) adj3 (brain abscess* or brain disease*)).ti,ab.
3.	(meningeal tuberculoma or tuberculous meningitis).ti,ab.
4.	rabies.ti,ab.
5.	poliomyelitis.ti,ab.
6.	((post-polio or post polio or postpolio) adj1 syndrome).ti,ab.
7.	(creutzfeldt-jakob disease or panencephalitis or multifocal leukoencephalopath*).ti,ab.
8.	((intracranial or intraspinal or intra-cranial or intra-spinal or intra cranial or intra spinal) adj4 (phlebitis or thrombophlebitis)).ti,ab.
9.	((intracranial or intra-cranial or intraspinal or intra-spinal or extradural or subdural or sub-dural or extra-dural or intraspinal or intra-spinal) adj4 (abscess* or granuloma)).ti,ab.
10.	vertigo.ti,ab.
11.	((central nervous system or cns) adj3 (virus* or infection* or attack* or cysticercosis)).ti,ab.
12.	(meningitis or choriomeningitis or meningococcal).ti,ab.

13.	(encephalitis or meningoencephalitis or meningomyelitis or myelitis or cerebral cryptococcosis or rhinocerebral mucormycosis).ti,ab.
14.	((chagas' disease or tuberculosis) adj3 nervous system).ti,ab.
15.	or/1-14

CRD search terms

#1.	MeSH descriptor central nervous system infections explode all trees
#2.	MeSH descriptor central nervous system viral diseases explode all trees
#3.	MeSH descriptor rabies
#4.	((amoebic or phaeomycotic or anoxic) adj3 (brain abscess* or brain disease*))
#5.	((meningeal tuberculoma or tuberculous meningitis))
#6.	(rabies)
#7.	(poliomyelitis)
#8.	((post-polio or post polio or postpolio) adj1 syndrome)
#9.	((creutzfeldt-jakob disease or panencephalitis or multifocal leukoencephalopath*))
#10.	((intracranial or intraspinal or intra-cranial or intra-spinal or intra cranial or intra spinal) adj4 (phlebitis or thrombophlebitis)))
#11.	((intracranial or intra-cranial or intraspinal or intra-spinal or extradural or subdural or sub-dural or extra-dural or intraspinal or intra-spinal) adj4 (abscess* or granuloma)))
#12.	(vertigo)
#13.	((central nervous system or cns) adj3 (virus* or infection* or attack* or cysticercosis)))
#14.	((meningitis or choriomeningitis or meningococcal))
#15.	((encephalitis or meningoencephalitis or meningomyelitis or myelitis or cerebral cryptococcosis or rhinocerebral mucormycosis))
#16.	((chagas' disease or tuberculosis) adj3 nervous system))
#17.	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16

A.2.2.5 Developmental disorders

Medline search terms

1.	hydrocephalus/
2.	neurocutaneous syndromes/
3.	neurofibromatoses/
4.	(hydrocephalus or neurofibromatos* or phakomatos* or neurocutaneous syndrome*).ti,ab.
5.	spina bifida.ti,ab.
6.	or/1-5

Embase search terms

1.	(hydrocephalus or neurofibromatos* or phakomatos* or neurocutaneous syndrome* or macrocephal* or microcephal* or subdural haemorrhag* or subdural hemorrhag*).ti,ab.
2.	hydrocephalus/
3.	phakomatosis/
4.	neurofibromatosis/

5.	spina bifida.ti,ab.
6.	or/1-5

CRD search terms

#1.	MeSH descriptor hydrocephalus
#2.	MeSH descriptor neurocutaneous syndromes
#3.	MeSH descriptor neurofibromatoses
#4.	((hydrocephalus or neurofibromatos* or phakomatos* or neurocutaneous syndrome*))
#5.	(spina bifida)
#6.	#1 or #2 or #3 or #4 or #5

A.2.2.6 Epilepsy

Medline and Embase search terms

1.	exp epilepsy/
2.	(epileps* or seizure* or blackout* or status epilepticus or convulsion*).ti,ab.
3.	(staring adj1 (episode* or spell* or fit*)).ti,ab.
4.	(continuous spike wave of slow sleep or landau-kleffner syndrome or lennox-gastaut syndrome or infant\$ spasm*).ti,ab.
5.	or/1-4

CRD search terms

#1.	MeSH descriptor epilepsy explode all trees
#2.	((epileps* or seizure* or blackout* or status epilepticus or convulsion*))
#3.	((staring adj1 (episode* or spell* or fit*)))
#4.	((continuous spike wave of slow sleep or landau-kleffner syndrome or lennox-gastaut syndrome or infant\$ spasm\$))
#5.	#1 or #2 or #3 or #4

A.2.2.7 Extrapiramidal diseases

Medline search terms

1.	exp parkinson disease/
2.	huntington disease/
3.	basal ganglia diseases/
4.	tourette syndrome/
5.	exp tics/ or tremor/ or chorea/
6.	exp dystonia/
7.	exp multiple system atrophy/
8.	(huntington or parkinson*).ti,ab.
9.	tourette* syndrome.ti,ab.
10.	(dystonia* or torticollis or chorea or extrapyramidal disorder* or myoclonus).ti,ab.
11.	(multiple system atroph* or shy-drager syndrome or segawas syndrome).ti,ab.
12.	parkinsonian disorders/
13.	myoclonus/
14.	(tic or tics or tremor*).ti,ab.

15.	blepharospasm/
16.	blepharospasm.ti,ab.
17.	pantothenate kinase-associated neurodegeneration/
18.	((hallervorden-spatz or basal ganglia) adj2 disease).ti,ab.
19.	neuroleptic malignant syndrome/
20.	(malignant neuroleptic syndrome or neuroleptic malignant syndrome or supranuclear ophthalmoplegia or striatonigral degeneration).ti,ab.
21.	or/1-20

Embase search terms

1.	exp parkinson disease/
2.	exp huntington chorea/
3.	extrapyramidal syndrome/
4.	gilles de la tourette syndrome/
5.	tic/
6.	exp tremor/
7.	extrapyramidal symptom/ or chorea/ or dystonia/ or torticollis/
8.	shy drager syndrome/
9.	(huntington or parkinson*).ti,ab.
10.	tourette* syndrome.ti,ab.
11.	(dystonia* or torticollis or chorea or extrapyramidal disorder* or myoclonus).ti,ab.
12.	(multiple system atroph* or shy-drager syndrome or segawas syndrome).ti,ab.
13.	(tic or tics or tremor*).ti,ab.
14.	blepharospasm.ti,ab.
15.	((hallervorden-spatz or basal ganglia) adj2 disease*).ti,ab.
16.	(malignant neuroleptic syndrome or neuroleptic malignant syndrome or supranuclear ophthalmoplegia or striatonigral degeneration).ti,ab.
17.	parkinsonism/
18.	myoclonus/
19.	blepharospasm/
20.	neurodegeneration with brain iron accumulation/
21.	neuroleptic malignant syndrome/
22.	or/1-21

CRD search terms

#1.	MeSH descriptor parkinson disease explode all trees
#2.	MeSH descriptor huntington disease
#3.	MeSH descriptor basal ganglia diseases
#4.	MeSH descriptor tourette syndrome
#5.	MeSH descriptor tics explode all trees
#6.	MeSH descriptor tremor
#7.	MeSH descriptor chorea
#8.	MeSH descriptor dystonia explode all trees
#9.	MeSH descriptor multiple system atrophy explode all trees
#10.	((huntington or parkinson*))

#11.	(tourette* syndrome)
#12.	((dystonia* or torticollis or chorea or extrapyramidal disorder* or myoclonus))
#13.	((multiple system atroph* or shy-drager syndrome))
#14.	MeSH descriptor parkinsonian disorders
#15.	MeSH descriptor myoclonus
#16.	((tic or tics or tremor*))
#17.	MeSH descriptor blepharospasm
#18.	(blepharospasm)
#19.	MeSH descriptor pantothenate kinase-associated neurodegeneration
#20.	((hallervorden-spatz or basal ganglia) adj2 disease))
#21.	MeSH descriptor neuroleptic malignant syndrome explode all trees
#22.	((malignant neuroleptic syndrome or neuroleptic malignant syndrome or supranuclear ophthalmoplegia or striatonigral degeneration))
#23.	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22

A.2.2.8 Functional diseases

Medline search terms

1.	dissociative disorders/
2.	((dissociative or functional or somatoform or hypochondriacal) adj (disorder* or dysfunction*).ti,ab.
3.	(dissociative adj3 (amnesia or fugue* or stupor* or trance* or convulsion* or sensory loss* or an?esthesia or motor)).ti,ab.
4.	or/1-3

Embase search terms

1.	dissociative disorder/
2.	((dissociative or functional or somatoform or hypochondriacal) adj (disorder* or dysfunction*).ti,ab.
3.	(dissociative adj3 (amnesia or fugue* or stupor* or trance* or convulsion* or sensory loss* or an?esthesia or motor)).ti,ab.
4.	or/1-3

CRD search terms

#1.	MeSH descriptor dissociative disorders
#2.	((((dissociative or functional or somatoform or hypochondriacal) adj (disorder* or dysfunction*))))
#3.	((dissociative adj3 (amnesia or fugue* or stupor* or trance* or convulsion* or sensory loss* or an?esthesia or motor)))
#4.	#1 or #2 or #3

A.2.2.9 Headache

Medline search terms

1.	exp headache/ or exp headache disorders/
2.	(migraine* or headache*).ti,ab.
3.	or/1-2

Embase search terms

1.	exp "headache and facial pain"/
2.	(migraine* or headache*).ti,ab.
3.	or/1-2

CRD search terms

#1.	MeSH descriptor headache explode all trees
#2.	MeSH descriptor headache disorders explode all trees
#3.	((migraine* or headache*)
#4.	#1 or #2 or #3

A.2.2.10 Motor neurone disease

Medline and Embase search terms

1.	exp motor neuron disease/
2.	(motor neuron* or moto neuron* or motoneuron* or motorneuron* or moto- neuron* or motor-neuron*).ti,ab.
3.	((primary or amyotrophic) adj lateral scleros*).ti,ab.
4.	(progressive adj (muscular atroph* or bulbar pals*)).ti,ab.
5.	(pseudopolyneur* or pseudo-polyneur* or psuedo polyneur*).ti,ab.
6.	((pseudobulbar or pseudo-bulbar or pseudo bulbar) adj pals*).ti,ab.
7.	((bulbar or respirat* or limb) adj onset*).ti,ab.
8.	(lou gehrig* or lou-gehrig* or gehrig*).ti,ab.
9.	monomelic amyotroph*.ti,ab.
10.	((anterior or ventral) adj (horn or column) adj3 (disease* or disorder*)).ti,ab.
11.	(flail* adj (arm* or leg*) adj (syndrome* or disorder*)).ti,ab.
12.	((frontotemporal or fronto temporal or fronto-temporal) adj dement*).ti,ab.
13.	or/1-12

CRD search terms

#1.	MeSH descriptor motor neuron disease explode all trees
#2.	((motor neuron* or moto neuron* or motoneuron* or motorneuron* or moto- neuron* or motor-neuron*)
#3.	((primary or amyotrophic) adj lateral scleros*)
#4.	((progressive adj (muscular atroph* or bulbar pals*)
#5.	((pseudopolyneur* or pseudo-polyneur* or psuedo polyneur*)
#6.	((pseudobulbar or pseudo-bulbar or pseudo bulbar) adj pals*)
#7.	((bulbar or respirat* or limb) adj onset*)
#8.	((lou gehrig* or lou-gehrig* or gehrig*)
#9.	(monomelic amyotroph*)
#10.	((anterior or ventral) adj (horn or column) adj3 (disease* or disorder*)
#11.	((flail* adj (arm* or leg*) adj (syndrome* or disorder*)
#12.	((frontotemporal or fronto temporal or fronto-temporal) adj dement*)
#13.	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12

A.2.2.11 Multiple sclerosis and inflammatory disorders

Medline search terms

1.	exp multiple sclerosis/
2.	((multiple or disseminated) adj2 scleros*).ti,ab.
3.	encephalomyelitis disseminata.ti,ab.
4.	myelitis, transverse/
5.	ms.ti.
6.	(transverse myelitis or positional plagiocephal* or encephalomyelitis).ti,ab.
7.	demyelinating diseases/ or exp demyelinating autoimmune diseases, cns/ or exp hereditary central nervous system demyelinating diseases/ or leukoencephalopathy, progressive multifocal/ or marchiafava-bignami disease/ or myelinolysis, central pontine/
8.	((demyelinat* or marchiafava-bignami or central pontine or acute transverse or subacute or optic* or devics or leukoencepha*) adj3 (myelitis or myelinolysis or neuromyelitis or disease* or disorder*)).ti,ab.
9.	or/1-8

Embase search terms

1.	multiple sclerosis/
2.	((multiple or disseminated) adj2 scleros*).ti,ab.
3.	encephalomyelitis disseminata.ti,ab.
4.	myelitis, transverse/
5.	ms.ti.
6.	(transverse myelitis or positional plagiocephal* or encephalomyelitis).ti,ab.
7.	((demyelinat* or marchiafava-bignami or central pontine or acute transverse or subacute or optic* or devics or leukoencepha*) adj3 (myelitis or myelinolysis or neuromyelitis or disease* or disorder*)).ti,ab.
8.	demyelinating disease/ or acute disseminated encephalomyelitis/ or acute inflammatory demyelinating polyneuropathy/ or alpers disease/ or chronic inflammatory demyelinating polyneuropathy/ or demyelination/ or leukodystrophy/ or marchiafava bignami disease/ or progressive multifocal leukoencephalopathy/ or schilder disease/ or subacute combined degeneration/ or subacute sclerosing panencephalitis/
9.	or/1-8

CRD search terms

#1.	MeSH descriptor multiple sclerosis explode all trees
#2.	((multiple or disseminated) adj2 scleros*)
#3.	(encephalomyelitis disseminata)
#4.	MeSH descriptor myelitis, transverse
#5.	(ms)
#6.	((demyelinat* or marchiafava-bignami or central pontine or acute transverse or subacute or optic* or devics or leukoencepha*) adj3 (myelitis or myelinolysis or neuromyelitis or disease* or disorder*)))
#7.	MeSH descriptor demyelinating diseases
#8.	MeSH descriptor demyelinating autoimmune diseases, cns explode all trees
#9.	MeSH descriptor hereditary central nervous system demyelinating diseases explode all trees

#10.	MeSH descriptor leukoencephalopathy, progressive multifocal
#11.	MeSH descriptor marchiafava-bignami disease
#12.	MeSH descriptor myelinolysis, central pontine
#13.	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12

A.2.2.12 Myelopathies and radiculopathies

Medline search terms

1.	exp spondylosis/
2.	(spondylosis or spinal stenosis or radiculopath* or myelopath* or leukoencephalopath*).ti,ab.
3.	radiculopathy/
4.	vertebral canal stenosis/
5.	or/1-4

Embase search terms

1.	exp spondylosis/
2.	(spondylosis or spinal stenosis or radiculopath* or myelopath* or leukoencephalopath*).ti,ab.
3.	radiculopathy/
4.	vertebral canal stenosis/
5.	or/1-4

CRD search terms

#1.	MeSH descriptor spondylosis explode all trees
#2.	MeSH descriptor radiculopathy
#3.	((spondylosis or spinal stenosis or radiculopath* or myelopath* or leukoencephalopath*)
#4.	MeSH descriptor spinal stenosis
#5.	#1 or #2 or #3 or #4

A.2.2.13 Neuromuscular disease

Medline search terms

1.	neuromuscular diseases/
2.	myasthenia gravis/
3.	exp myositis/
4.	myositis.ti,ab.
5.	exp muscular dystrophies/
6.	((neuromuscular or immobility) adj3 (disorder* or disease*)).ti,ab.
7.	(ischaemic infarction* adj3 muscle*).ti,ab.
8.	(muscular dystroph* or muscular atroph* or myositis or myastheni* or lambert-eaton syndrome or eaton-lambert syndrome or duchenne* or becker* or miyoshi or walker warburg syndrome toxic myoneural disorder* or myotonic disorder*).ti,ab.
9.	lambert-eaton myasthenic syndrome/
10.	((congenital or mitochondrial or drug-induced or alcoholic or endocrine inflammatory or infectious or metabolic) adj3 myopath*).ti,ab.

11.	or/1-10
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Embase search terms

1.	neuromuscular disease/
2.	myasthenia gravis/
3.	exp myositis/
4.	exp muscular dystrophy/
5.	myositis.ti,ab.
6.	((neuromuscular or immobility) adj3 (disorder* or disease*)).ti,ab.
7.	(ischaemic infarction* adj3 muscle*).ti,ab.
8.	(muscular dystroph* or muscular atroph* or myositis or myastheni* or lambert-eaton syndrome or eaton-lambert syndrome or duchenne* or becker* or miyoshi or walker warburg syndrome toxic myoneural disorder* or myotonic disorder*).ti,ab.
9.	((congenital or mitochondrial or drug-induced or alcoholic or endocrine inflammatory or infectious or metabolic) adj3 myopath*).ti,ab.
10.	eaton lambert syndrome/
11.	or/1-10

CRD search terms

#1.	MeSH descriptor neuromuscular diseases
#2.	MeSH descriptor myasthenia gravis
#3.	MeSH descriptor myositis explode all trees
#4.	(myositis)
#5.	MeSH descriptor muscular dystrophies explode all trees
#6.	((neuromuscular or immobility) adj3 (disorder* or disease*)))
#7.	((ischaemic infarction* adj3 muscle*))
#8.	((muscular dystroph* or muscular atroph* or myositis or myastheni* or lambert-eaton syndrome or eaton-lambert syndrome or duchenne* or becker* or miyoshi or walker warburg syndrome toxic myoneural disorder* or myotonic disorder*))
#9.	MeSH descriptor lambert-eaton myasthenic syndrome
#10.	((congenital or mitochondrial or drug-induced or alcoholic or endocrine inflammatory or infectious or metabolic) adj3 myopath*))
#11.	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10

A.2.2.14 Nervous system tumours

Medline search terms

1.	exp neuroma, acoustic/
2.	exp cranial nerve neoplasms/
3.	central nervous system neoplasms/
4.	exp spinal cord neoplasms/
5.	((brain or midbrain or brainstem or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system or (meninges or meningeal or leptomeningeal or pontine)) adj2 (cancer* or neoplas* or tumo?r* or carcinoma* or lymphoma* or sarcoma* or metastas* or secundar*)).ti,ab.
6.	or/1-5 [only these lines used in dizziness question]

7.	((spinal or spine) adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma* or metastas* or secundar*)).ti,ab.
8.	((brain or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system) adj1 myeloma*).ti,ab
9.	(neurosarcoma* or neurocytoma*).ti,ab.
10.	chordoma/
11.	(chordoma* or chordocarcinoma* or chordepithelioma* or notochordoma*).ti,ab.
12.	(choroid plexus adj (carcinoma* or tumor*r* or neoplas* or malignan*)).ti,ab.
13.	(acoustic adj1 neuroma*).ti,ab.
14.	(neurinoma* or neurofibroma* or neurilemmoma or schwannoma*).ti,ab.
15.	exp glioma/
16.	glioma*.ti,ab.
17.	(glioneuronal adj1 (cancer* or neoplas* or tumor*r* or carcinoma*)).ti,ab.
18.	(ependymal adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)).ti,ab.
19.	(ependymblastoma* or glioblastoma* or glioneurocytoma*).ti,ab.
20.	(subependymoma* or sub-ependymoma*).ti,ab.
21.	(oligoastrocytoma* or oligo-astrocytoma*).ti,ab.
22.	(oligodendrogl* or oligodendrocytoma*).ti,ab.
23.	ganglioglioma*.ti,ab.
24.	exp astrocytoma/
25.	(ganglioglioma* or ganglioblastoma* or ganglioblastoma* or gangliocytoma* or ganglioneuroblastoma* or gliosarcoma*).ti,ab.
26.	exp astrocytoma/
27.	(astrocytoma* or astroblastoma* or astroglioma*).ti,ab.
28.	((brain or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system) adj2 ((germ cell adj2 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)) or (germinoma* or dysgerminoma*))).ti,ab.
29.	((brain or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system) adj1 teratoma*).ti,ab.
30.	(haemangioblastoma* or hemangioblastoma*).ti,ab.
31.	((brain or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system) adj1 angioma*).ti,ab.
32.	(meningioma* or meningiosarcoma*).ti,ab.
33.	exp neuroectodermal tumors/
34.	pnet.ti,ab.
35.	(neuroectodermal* adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)).ti,ab.
36.	(medulloblastoma* or medulloctoma* or medullomyoblastoma* or pinealoma*).ti,ab.
37.	pinealoma/
38.	(pinealocytoma* or pineocytoma*).ti,ab.
39.	(pineal?blastoma* or pineoblastoma*).ti,ab.
40.	(pineal adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)).ti,ab.
41.	(craniopharyngioma* or cranio-pharyngioma*).ti,ab.
42.	pituitary neoplasms/

43.	(pituitary adj1 (cancer* or neoplas* or tumor?* or adenoma* or carcinoma* or lymphoma*)).ti,ab.
44.	(rathkes*1 adj1 (pouch or cleft) adj1 (cancer* or neoplas* or tumor?* or carcinoma* or lymphoma*)).ti,ab.
45.	(infratentorial adj1 (cancer* or neoplas* or tumor?* or carcinoma* or lymphoma*)).ti,ab.
46.	(supratentorial adj1 (cancer* or neoplas* or tumor?* or carcinoma* or lymphoma*)).ti,ab.
47.	spongioblastoma*.ti,ab.
48.	or/1-47

Embase search terms

1.	exp neuroma/
2.	exp cranial nerve tumor/
3.	central nervous system tumor/
4.	exp spinal cord tumor/
5.	((brain or midbrain or brainstem or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system or (meninges or meningeal or leptomeningeal or pontine)) adj2 (cancer* or neoplas* or tumor?* or carcinoma* or lymphoma* or sarcoma* or metastas* or secundar*)).ti,ab.
6.	((spinal or spine) adj1 (cancer* or neoplas* or tumor?* or carcinoma* or lymphoma* or metastas* or secundar*)).ti,ab.
7.	((brain or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system) adj1 myeloma*).ti,ab.
8.	(neurosarcoma* or neurocytoma*).ti,ab.
9.	chordoma/
10.	(chordoma* or chordocarcinoma* or chordoepithelioma* or notochordoma*).ti,ab.
11.	(choroid plexus adj (carcinoma* or tumor?* or neoplas* or malignan*)).ti,ab.
12.	(acoustic adj1 neuroma*).ti,ab.
13.	(neurinoma* or neurofibroma* or neurilemmoma or schwannoma*).ti,ab.
14.	exp glioma/
15.	glioma*.ti,ab.
16.	(glioneuronal adj1 (cancer* or neoplas* or tumor?* or carcinoma*)).ti,ab.
17.	(ependymal adj1 (cancer* or neoplas* or tumor?* or carcinoma* or lymphoma*)).ti,ab.
18.	(ependymblastoma* or glioblastoma* or glioneurocytoma*).ti,ab.
19.	(subependymoma* or sub-ependymoma*).ti,ab.
20.	(oligoastrocytoma* or oligo-astrocytoma*).ti,ab.
21.	(oligodendrogl* or oligodendrocytoma*).ti,ab.
22.	ganglioglioma*.ti,ab.
23.	ganglioblastoma*.ti,ab.
24.	(ganglioglioma* or ganglioblastoma* or ganglioblastoma* or gangliocytoma* or ganglioneuroblastoma* or gliosarcoma*).ti,ab.
25.	exp astrocytoma/
26.	(astrocytoma* or astroblastoma* or astroglioma*).ti,ab.

27.	((brain or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system) adj2 ((germ cell adj2 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)) or (germinoma* or dysgerminoma*))).ti,ab.
28.	((brain or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system) adj1 teratoma*).ti,ab.
29.	(haemangioblastoma* or hemangioblastoma*).ti,ab.
30.	((brain or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system) adj1 angioma*).ti,ab.
31.	(meningioma* or meningiosarcoma*).ti,ab.
32.	exp neuroectoderm tumor/
33.	pnet.ti,ab.
34.	(neuroectodermal* adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)).ti,ab.
35.	(medulloblastoma* or medullocytoma* or medullomyoblastoma* or pinealoma*).ti,ab.
36.	pineal body tumor/
37.	(pinealocytoma* or pineocytoma*).ti,ab.
38.	(pineal?blastoma* or pineoblastoma*).ti,ab.
39.	(pineal adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)).ti,ab.
40.	(craniopharyngioma* or cranio-pharyngioma*).ti,ab.
41.	hypophysis tumor/
42.	(pituitary adj1 (cancer* or neoplas* or tumor*r* or adenoma* or carcinoma* or lymphoma*)).ti,ab.
43.	(rathkes*1 adj1 (pouch or cleft) adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)).ti,ab.
44.	(infratentorial adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)).ti,ab.
45.	(supratentorial adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)).ti,ab.
46.	spongioblastoma*.ti,ab.
47.	or/1-46

CRD search terms

#1.	MeSH descriptor neuroma, acoustic explode all trees
#2.	MeSH descriptor cranial nerve neoplasms explode all trees
#3.	MeSH descriptor central nervous system neoplasms
#4.	MeSH descriptor spinal cord neoplasms explode all trees
#5.	((((brain or midbrain or brainstem or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system or (meninges or meningeal or leptomeningeal or pontine)) adj2 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma* or sarcoma* or metastas* or secundar*))))
#6.	((((spinal or spine) adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma* or metastas* or secundar*))))
#7.	((((brain or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system) adj1 myeloma*))
#8.	((neurosarcoma* or neurocytoma*))
#9.	MeSH descriptor chordoma
#10.	(chordoma)

#11.	((chordoma* or chordocarcinoma* or chordoepithelioma* or notochordoma*)
#12.	((choroid plexus adj (carcinoma* or tumor*r* or neoplas* or malignan*)))
#13.	((acoustic adj1 neuroma*)
#14.	((neurinoma* or neurofibroma* or neurilemmoma or schwannoma*)
#15.	MeSH descriptor glioma explode all trees
#16.	(glioma*)
#17.	((glioneuronal adj1 (cancer* or neoplas* or tumor*r* or carcinoma*)))
#18.	((ependymal adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)))
#19.	((ependymblastoma* or glioblastoma* or glioneurocytoma*)
#20.	((subependymoma* or sub-ependymoma*)
#21.	((oligoastrocytoma* or oligo-astrocytoma*)
#22.	((oligodendroglia* or oligodendrocytoma*)
#23.	(ganglioglioma*)
#24.	(ganglioblastoma*)
#25.	((ganglioglioma* or ganglioblastoma* or ganglioblastoma* or gangliocytoma* or ganglioneuroblastoma* or gliosarcoma*)))
#26.	MeSH descriptor astrocytoma explode all trees
#27.	((astrocytoma* or astroblastoma* or astroglioma*)
#28.	((brain or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system) adj2 ((germ cell adj2 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)) or (germinoma* or dysgerminoma*))))
#29.	((brain or intracranial or cranial or cerebell* or cerebr* or cns or central nervous system) adj1 (angioma*)
#30.	((meningioma* or meningiosarcoma*)
#31.	MeSH descriptor neuroectodermal tumors explode all trees
#32.	(pnet)
#33.	((neuroectodermal* adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)))
#34.	((medulloblastoma* or medulloctoma* or medullomyoblastoma* or pinealoma*)
#35.	MeSH descriptor pinealoma
#36.	((pinealocytoma* or pineocytoma*)
#37.	((pineal?blastoma* or pineoblastoma*)
#38.	((pineal adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)))
#39.	((craniopharyngioma* or cranio-pharyngioma*)
#40.	MeSH descriptor pituitary neoplasms
#41.	((pituitary adj1 (cancer* or neoplas* or tumor*r* or adenoma* or carcinoma* or lymphoma*)))
#42.	((rathkes*1 adj1 (pouch or cleft) adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)))
#43.	((infratentorial adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)))
#44.	((supratentorial adj1 (cancer* or neoplas* or tumor*r* or carcinoma* or lymphoma*)))
#45.	(spongioblastoma*)
#46.	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25

	or #26 or #27 or #28 or #29 or #30 or #31 or #32 or #33 or #34 or #35 or #36 or #37 or #38 or #39 or #40 or #41 or #42 or #43 or #44 or #45
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A.2.2.15 Peripheral nerve disorders

Medline search terms

1.	exp peripheral nervous system diseases/
2.	((peripheral nerv* adj3 (disorder* or disease*)).ti,ab.
3.	(stiff person syndrome or isaacs syndrome or moersch woltmann syndrome or stiff-man syndrome or startle syndrome).ti,ab.
4.	carpal tunnel syndrome.ti,ab.
5.	polyneuropath*.ti,ab.
6.	mononeuropath*.ti,ab.
7.	causalgia.ti,ab.
8.	((cprs or complex regional pain syndrome) adj3 (type 1 or type one or type i or type two or type ii or type 2)).ti,ab.
9.	phantom limb/
10.	phantom limb.ti,ab.
11.	((plexus or root) adj3 (compression* or disorder*)).ti,ab.
12.	((radial or ulnar or median) adj3 lesion*).ti,ab.
13.	(neuropathies or neuropathy).ti,ab.
14.	or/1-13

Embase search terms

1.	peripheral neuropathy/
2.	((peripheral nerv* adj3 (disorder* or disease*)).ti,ab.
3.	(carpal tunnel syndrome or stiff person syndrome or isaacs syndrome).ti,ab.
4.	polyneuropath*.ti,ab.
5.	mononeuropath*.ti,ab.
6.	causalgia.ti,ab.
7.	((cprs or complex regional pain syndrome) adj3 (type 1 or type one or type i or type two or type ii or type 2)).ti,ab.
8.	phantom limb.ti,ab.
9.	((plexus or root) adj3 (compression* or disorder*)).ti,ab.
10.	((radial or ulnar or median) adj3 lesion*).ti,ab.
11.	(neuropathies or neuropathy).ti,ab.
12.	carpal tunnel syndrome/
13.	polyneuropathy/
14.	exp mononeuropathy/
15.	complex regional pain syndrome type ii/
16.	brachial plexus neuropathy/
17.	diabetic neuropathy/
18.	or/1-17

CRD search terms

#1.	MeSH descriptor peripheral nervous system diseases explode all trees
#2.	((peripheral nerv* adj3 (disorder* or disease*)))

#3.	((stiff person syndrome or isaacs syndrome or moersch woltmann syndrome or stiff-man syndrome or startle syndrome))
#4.	(carpal tunnel syndrome)
#5.	(polyneuropath*)
#6.	(mononeuropath*)
#7.	(causalgia)
#8.	((((cprs or complex regional pain syndrome) adj3 (type 1 or type one or type i or type two or type ii or type 2)))
#9.	MeSH descriptor phantom limb
#10.	(phantom limb)
#11.	((((plexus or root) adj3 (compression* or disorder*))))
#12.	((((radial or ulnar or median) adj3 lesion*)))
#13.	((neuropathies or neuropathy))
#14.	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13

A.2.2.16 Rare disorders

Medline search terms

1.	cerebral palsy/
2.	exp paralysis/
3.	(monoplegi* or hemiplegi* or paraplegi* or tetraplegi* or cerebral palsy or paralytic syndrome or werdnig hoffmann syndrome).ti,ab.
4.	(cerebrospinal fluid adj2 leak*).ti,ab.
5.	(diastematomyelia or dydromyelia or neuromyopath* or systematic atroph* or cerebral cyst* or benign intracranial hypertension or dysreflexia).ti,ab.
6.	polyradiculopath*.ti,ab.
7.	neurotoxicity syndromes/
8.	(toxic encephalopath* or neurotoxic* syndrome*).ti,ab.
9.	((((postpoliomyelitis or post-polio or post polio or postpolio) adj1 syndrome) or disease).ti,ab.
10.	arnold-chiari malformation/
11.	(arnold-chiari adj1 (syndrome or malformation)).ti,ab
12.	aphasia/
13.	dysarthria/
14.	(dysarthria or aphasia or dysphasia or anarthria).ti,ab.
15.	exp dyslexia/
16.	agnosia/
17.	agnosia.ti,ab.
18.	dyslexia.ti,ab.
19.	exp apraxias/
20.	apraxia.ti,ab.
21.	(syringobulbia or syringomyelia).ti,ab.
22.	exp autonomic nervous system diseases/
23.	neurodegenerative diseases/
24.	((neurodegenerative or neuro-degenerative or neuro degenerative or autonomic nervous system) adj3 (disease* or disorder*)).ti,ab.

25.	or/1-24
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Embase search terms

1.	exp paralysis/
2.	(monoplegi* or hemiplegi* or paraplegi* or tetraplegi* or cerebral palsy or paralytic syndrome or werdnig hoffmann syndrome).ti,ab.
3.	(cerebrospinal fluid adj2 leak*).ti,ab.
4.	(diastematomyelia or dydromyelia or neuromyopath* or systematic atroph* or cerebral cyst* or benign intracranial hypertension or dysreflexia).ti,ab.
5.	polyradiculopath*.ti,ab.
6.	*"toxicity and intoxication"/
7.	(toxic encephalopath* or neurotoxic* syndrome*).ti,ab.
8.	((postpoliomyelitis or post-polio or post polio or postpolio) adj1 (syndrome or disease)).ti,ab.
9.	arnold chiari malformation/
10.	(arnold-chiari adj1 (syndrome or malformation)).ti,ab.
11.	aphasia/
12.	dysarthria/
13.	(dysarthria or aphasia or dysphasia or anarthria).ti,ab.
14.	dyslexia/
15.	agnosia/
16.	agnosia.ti,ab.
17.	dyslexia.ti,ab.
18.	exp apraxia/
19.	"apraxia of speech"/
20.	apraxia.ti,ab.
21.	(syringobulbia or syringomyelia).ti,ab.
22.	exp autonomic neuropathy/
23.	exp degenerative disease/
24.	((neurodegenerative or neuro-degenerative or neuro degenerative or autonomic nervous system) adj3 (disease* or disorder*)).ti,ab.
25.	or/1-24

CRD search terms

#1.	MeSH descriptor cerebral palsy
#2.	MeSH descriptor paralysis explode all trees
#3.	((monoplegi* or hemiplegi* or paraplegi* or tetraplegi* or cerebral palsy or paralytic syndrome or werdnig hoffmann syndrome))
#4.	((cerebrospinal fluid adj2 leak*))
#5.	((diastematomyelia or dydromyelia or neuromyopath* or systematic atroph* or cerebral cyst* or benign intracranial hypertension or dysreflexia))
#6.	(polyradiculopath*)
#7.	MeSH descriptor neurotoxicity syndromes
#8.	((toxic encephalopath* or neurotoxic* syndrome*))
#9.	((((postpoliomyelitis or post-polio or post polio or postpolio) adj1 syndrome)))
#10.	MeSH descriptor arnold-chiari malformation

#11.	((arnold-chiari adj1 (syndrome or malformation)))
#12.	MeSH descriptor aphasia
#13.	MeSH descriptor dysarthria
#14.	((dysarthria or aphasia or dysphasia or anarthria))
#15.	MeSH descriptor dyslexia explode all trees
#16.	MeSH descriptor agnosia
#17.	(agnosia)
#18.	(dyslexia)
#19.	MeSH descriptor apraxias explode all trees
#20.	(apraxia)
#21.	((syringobulbia or syringomyelia))
#22.	MeSH descriptor autonomic nervous system diseases explode all trees
#23.	MeSH descriptor neurodegenerative diseases
#24.	((neurodegenerative or neuro-degenerative or neuro degenerative or autonomic nervous system) adj3 (disease* or disorder*)))
#25.	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24

A.2.2.17 Sleep disorders

Medline search terms

1.	exp sleep wake disorders/ or exp restless leg syndrome/
2.	((sleep* or sleep-wake) adj1 (syndrome* or disorder*)).ti,ab.
3.	(sleep disorder* or insomnia or dyssomnia or hypersomnia or narcolepsy or somnolence or cataplex* or parasomnia* or sleep apnea or restless leg syndrome or klein-levin syndrome).ti,ab.
4.	or/1-3

Embase search terms

1.	exp sleep disorder/
2.	restless legs syndrome/
3.	(sleep* adj1 (syndrome* or disorder*)).ti,ab.
4.	(sleep disorder* or insomnia or dyssomnia or hypersomnia or narcolepsy or somnolence or cataplex* or parasomnia* or sleep apnea or restless leg syndrome or klein-levin syndrome).ti,ab.
5.	or/1-4

CRD search terms

#1.	MeSH descriptor sleep wake disorders explode all trees
#2.	MeSH descriptor restless legs syndrome explode all trees
#3.	((sleep* or sleep-wake) adj1 (syndrome* or disorder*)))
#4.	((sleep disorder* or insomnia or dyssomnia or hypersomnia or narcolepsy or somnolence or cataplex* or parasomnia* or sleep apnea or restless leg syndrome or klein-levin syndrome))
#5.	#1 or #2 or #3 or #4

A.2.2.18 Spinal atrophy

Medline search terms

1.	exp spinal cord diseases/
2.	exp polyradiculoneuropathy/
3.	(polyradiculopath* or polyradiculoneuropath* or guillain-barre syndrome or guillain barre synrome or fisher syndrome or brown-sequard* syndrome).ti,ab.
4.	(spinal cord adj3 (disease* or disorder* or compression* or degenerat* or malformation*)).ti,ab.
5.	or/1-4

Embase search terms

1.	exp spinal cord disease/
2.	spinal muscular atrophy/
3.	myelitis/
4.	(polyradiculopath* or polyradiculoneuropath* or guillain-barre syndrome or guillain barre synrome or fisher syndrome or brown-sequard* syndrome).ti,ab.
5.	(spinal cord adj3 (disease* or disorder* or compression* or degenerat* or malformation*)).ti,ab.
6.	or/1-5

CRD search terms

#1.	MeSH descriptor spinal cord diseases explode all trees
#2.	MeSH descriptor polyradiculoneuropathy explode all trees
#3.	((polyradiculopath* or polyradiculoneuropath* or guillain-barre syndrome or guillain barre synrome or fisher syndrome or brown-sequard* syndrome))
#4.	((spinal cord adj3 (disease* or disorder* or compression* or degenerat* or malformation*)))
#5.	#1 or #2 or #3 or #4

A.3 Study design and other filters search terms

A.3.1 Excluded study designs and publication types

The following study designs and publication types were removed from retrieved results using the NOT operator.

Medline search terms

1.	letter/
2.	editorial/
3.	news/
4.	exp historical article/
5.	anecdotes as topic/
6.	comment/
7.	case report/
8.	(letter or comment*).ti.
9.	or/1-8
10.	randomized controlled trial/ or random*.ti,ab.

11.	9 not 10
12.	animals/ not humans/
13.	exp animals, laboratory/
14.	exp animal experimentation/
15.	exp models, animal/
16.	exp rodentia/
17.	(rat or rats or mouse or mice).ti.
18.	or/11-17

Embase search terms

1.	letter.pt. or letter/
2.	note.pt.
3.	editorial.pt.
4.	case report/ or case study/
5.	(letter or comment*).ti.
6.	or/1-5
7.	randomized controlled trial/ or random*.ti,ab.
8.	6 not 7
9.	animal/ not human/
10.	nonhuman/
11.	exp animal experiment/
12.	exp experimental animal/
13.	animal model/
14.	exp rodent/
15.	(rat or rats or mouse or mice).ti.
16.	or/8-15

A.3.2 Health economic studies (HE)

Medline search terms

1.	economics/
2.	value of life/
3.	exp "costs and cost analysis"/
4.	exp economics, hospital/
5.	exp economics, medical/
6.	economics, nursing/
7.	economics, pharmaceutical/
8.	exp "fees and charges"/
9.	exp budgets/
10.	budget*.ti,ab.
11.	cost*.ti.
12.	(economic* or pharmaco?economic*).ti.
13.	(price* or pricing*).ti,ab.
14.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)),ab.

15.	(financ* or fee or fees).ti,ab.
16.	(value adj2 (money or monetary)).ti,ab.
17.	or/1-16

Embase search terms

1.	health economics/
2.	exp economic evaluation/
3.	exp health care cost/
4.	exp fee/
5.	budget/
6.	funding/
7.	budget*.ti,ab.
8.	cost*.ti.
9.	(economic* or pharmaco?economic*).ti.
10.	(price* or pricing*).ti,ab.
11.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
12.	(financ* or fee or fees).ti,ab.
13.	(value adj2 (money or monetary)).ti,ab.
14.	or/1-13

A.3.3 Observational studies (OBS)

Medline search terms

1.	epidemiologic studies/
2.	exp case control studies/
3.	exp cohort studies/
4.	cross-sectional studies/
5.	case control.ti,ab.
6.	(cohort adj (study or studies or analys*)).ti,ab.
7.	((follow up or observational or uncontrolled or non randomi#ed or nonrandomi#ed or epidemiologic*) adj (study or studies)).ti,ab.
8.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort*)).ti,ab.
9.	or/1-8

Embase search terms

1.	clinical study/
2.	exp case control study/
3.	family study/
4.	longitudinal study/
5.	retrospective study/
6.	prospective study/
7.	cross-sectional study/
8.	cohort analysis/
9.	follow-up/

10.	cohort*.ti,ab.
11.	9 and 10
12.	case control.ti,ab.
13.	(cohort adj (study or studies or analys*)).ti,ab.
14.	((follow up or observational or uncontrolled or non randomi#ed or nonrandomi#ed or epidemiologic*) adj (study or studies)).ti,ab.
15.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort*)).ti,ab.
16.	or/1-8,11-15

A.3.4 Prognostic and prediction rule studies (PROG)

Medline search terms

1.	predict.ti.
2.	(validat* or rule*).ti,ab.
3.	(predict* and (outcome* or risk* or model*)).ti,ab.
4.	((history or variable* or criteria or scor* or characteristic* or finding* or factor*) and (predict* or model* or decision* or identif* or prognos*)).ti,ab.
5.	decision*.ti,ab. and logistic models/
6.	(decision* and (model* or clinical*)).ti,ab.
7.	(prognostic and (history or variable* or criteria or scor* or characteristic* or finding* or factor* or model*)).ti,ab.
8.	(stratification or discrimination or discriminate or c statistic or "area under the curve" or auc or calibration or indices or algorithm or multivariable).ti,ab.
9.	roc curve/
10.	or/1-9

Embase search terms

1.	predict.ti.
2.	(validat* or rule*).ti,ab.
3.	(predict* and (outcome* or risk* or model*)).ti,ab.
4.	((history or variable* or criteria or scor* or characteristic* or finding* or factor*) and (predict* or model* or decision* or identif* or prognos*)).ti,ab.
5.	decision*.ti,ab. and statistical model/
6.	(decision* and (model* or clinical*)).ti,ab.
7.	(prognostic and (history or variable* or criteria or scor* or characteristic* or finding* or factor* or model*)).ti,ab.
8.	(stratification or discrimination or discriminate or c statistic or "area under the curve" or auc or calibration or indices or algorithm or multivariable).ti,ab.
9.	receiver operating characteristic/
10.	or/1-9

A.3.5 Signs and symptoms (SIGNS)

Medline search terms

1.	exp "signs and symptoms"/
2.	symptom assessment/
3.	diagnosis/ or prognosis/

4.	(clinical adj3 (manifest* or feature* or finding* or aspect* or marker*)).ti,ab.
5.	(presenting adj3 (feature* or finding* or factor*)).ti,ab.
6.	presentation*.ti,ab.
7.	(physical adj3 (manifest* or characteristic* or feature* or finding*)).ti,ab.
8.	(sign or signs or symptom* or recogni* or identif* or complain*).ti,ab.
9.	(diagnos* or prognos* or assess* or criteria* or predict*).ti,ab.
10.	or/1-9

Embase search terms

1.	symptom assessment/
2.	diagnosis/
3.	prognosis/
4.	(clinical adj3 (manifest* or feature* or finding* or aspect* or marker*)).ti,ab.
5.	(presenting adj3 (feature* or finding* or factor*)).ti,ab.
6.	((risk or prognostic) adj factor*).ti,ab.
7.	presentation*.ti,ab.
8.	(physical adj3 (manifest* or characteristic* or feature* or finding*)).ti,ab.
9.	(sign or signs or symptom* or recogni* or identif* or complain*).ti,ab.
10.	(diagnos* or prognos* or assess* or criteria* or predict*).ti,ab.
11.	or/1-10

A.4 Searches for specific questions

A.4.1 Head shape or size abnormalities

- In children and babies who present with abnormal head shape, what is the predictive accuracy of accompanying signs and symptoms to support non-specialists in identifying neurological problems?

Medline search terms

1.	Brain spinal injury [A.2.2.2]
2.	Cranial nerve diseases [A.2.2.3]
3.	Central nervous system diseases [A.2.2.4]
4.	Epilepsy [A.2.2.6]
5.	Headache [A.2.2.9]
6.	Motor neurone disease [A.2.2.10]
7.	Neuromuscular disease [A.2.2.13]
8.	Nervous system tumours [A.2.2.14]
9.	Peripheral nervous disorders [A.2.2.15]
10.	Rare disorders [A.2.2.16]
11.	Sleep disorders [A.2.2.17]
12.	Spinal atrophy [A.2.2.18]
13.	hydrocephalus/ or exp megalencephaly/ or microcephaly/ or exp hematoma, subdural/ or dandy-walker syndrome/
14.	neurocutaneous syndromes/
15.	neurofibromatoses/

16.	(hydrocephalus or neurofibromatos* or phakomatos* or neurocutaneous syndrome* or macrocephal* or megalencephal* or plagiocephal* or microcephal* or microlissencephal* or dandy-walker or subdural haehorrag* or subdural haematoma* or subdural hematoma* or subdural hemorrhag*).ti,ab.
17.	spina bifida.ti,ab.
18.	or/1-17
19.	Children and babies [A.2.1.1]
20.	exp plagiocephaly/
21.	((uneven* or irregular* or abnormal* or parallelogram or unusual* or large* or small* or under-develop* or big* or flat* or mis-shape* or misshape*) adj2 (head* or skull* or cranium)).ti,ab.
22.	plagiocephal*.ti,ab.
23.	or/20-22
24.	18 and 19 and 23
25.	Excluded study designs and publication types [A.3.1]
26.	24 not 25
27.	Limit 26 to English language
	Date parameters: 1946 - 22 July 2016

Embase search terms

1.	Brain spinal injury [A.2.2.2]
2.	Cranial nerve diseases [A.2.2.3]
3.	Central nervous system diseases [A.2.2.4]
4.	Epilepsy [A.2.2.6]
5.	Headache [A.2.2.9]
6.	Motor neurone disease [A.2.2.10]
7.	Neuromuscular disease [A.2.2.13]
8.	Nervous system tumours [A.2.2.14]
9.	Peripheral nervous disorders [A.2.2.15]
10.	Rare disorders [A.2.2.16]
11.	Sleep disorders [A.2.2.17]
12.	Spinal atrophy [A.2.2.18]
13.	(hydrocephalus or neurofibromatos* or Phakomatos* or neurocutaneous syndrome* or macrocephal* or megalencephal* or plagiocephal* or microcephal* or microlissencephal* or dandy-walker or subdural haehorrag* or subdural haematoma* or subdural hematoma* or subdural hemorrhag*).ti,ab.
14.	hydrocephalus/ or Microcephaly/ or hematoma, Subdural/ or dandy-walker syndrome/
15.	phakomatosis/
16.	neurofibromatosis/
17.	Spina bifida.ti,ab.
18.	or/1-17
19.	Children and babies [A.2.1.1]
20.	plagiocephaly/
21.	((uneven* or irregular* or abnormal* or parallelogram or unusual* or large* or small* or under-develop* or big* or flat* or mis-shape* or misshape*) adj2 (head* or skull* or cranium)).ti,ab.

22.	plagiocephal*.ti,ab.
23.	or/20-22
24.	18 and 19 and 23
25.	Excluded study designs and publication types [A.3.1]
26.	24 not 25
27.	Limit 26 to English language
	Date parameters: 1974 - 22 July 2016

A.4.2 Facial pain, atraumatic

- In adults and young people who present with atraumatic facial pain, what is the predictive accuracy of accompanying signs and symptoms to support non-specialists in identifying suspected neurological conditions?

Medline search terms

1.	Cranial nerve diseases [A.2.2.3]
2.	Functional diseases [A.2.2.8]
3.	Rare disorders [A.2.2.16]
4.	multiple sclerosis/
5.	((multiple or disseminated) adj2 scleros*).ti,ab.
6.	myelitis, transverse/
7.	ms.ti.
8.	cluster headache/
9.	cluster headache*.ti,ab.
10.	((migraine* or headache*) adj3 (face or facial pain*)).ti,ab.
11.	or/1-10
12.	((facial or face or myofacial or orofacial or craniofacial or trigeminal or trifacial or occipital) adj3 (pain* or neuralgia or tenderness*)).ti,ab.
13.	Signs and symptoms filter [A.3.5]
14.	11 and 12 and 13
15.	facial pain/ or facial neuralgia/ or trigeminal neuralgia/
16.	((facial or face or myofacial or orofacial or craniofacial or trigeminal or trifacial or occipital) adj3 (pain* or neuralgia or tenderness)).ti.
17.	15 or 16
18.	11 and 17
19.	Study filters OBS [A.3.3] or PROG [A.3.4]
20.	(14 or 18) and 19
21.	Excluded study designs and publication types [A.3.1]
22.	20 not 21
23.	Limit 22 to English language
	Date parameters: 1946 – 14 July 2016

Embase search terms

1.	Cranial nerve diseases [A.2.2.3]
2.	Functional diseases [A.2.2.8]
3.	Rare disorders [A.2.2.16]
4.	multiple sclerosis/

5.	((multiple or disseminated) adj2 scleros*).ti,ab.
6.	myelitis, transverse/
7.	ms.ti.
8.	cluster headache/
9.	cluster headache*.ti,ab.
10.	((migraine* or headache*) adj3 (face or facial pain*)).ti,ab.
11.	or/1-10
12.	((facial or face or myofacial or orofacial or craniofacial or trigeminal or trifacial or occipital) adj3 (pain* or neuralgia or tenderness*)).ti,ab.
13.	Signs and symptoms filter [A.3.5]
14.	11 and 12 and 13
15.	face pain/
16.	trigeminus neuralgia/
17.	((facial or face or myofacial or orofacial or craniofacial or trigeminal or trifacial or occipital) adj3 (pain* or neuralgia or tenderness)).ti.
18.	or/15-17
19.	11 and 18
20.	Study filters OBS [A.3.3] or PROG [A.3.4]
21.	(14 or 19) and 20
22.	Excluded study designs and publication types [A.3.1]
23.	21 not 22
24.	Limit 23 to English language
	Date parameters: 1974 - 14 July 2016

A.4.3 Dizziness

- In adults and young people who present with dizziness, what is the predictive accuracy of accompanying signs and symptoms to support non-specialists in identifying neurological conditions?

Medline search terms

1.	Cranial nerve diseases [A.2.2.3]
2.	Epilepsy [A.2.2.6]
3.	Functional diseases [A.2.2.8]
4.	Headache [A.2.2.9]
5.	Multiple sclerosis and inflammatory disorders [A.2.2.11]
6.	Nervous system tumours [A.2.2.14]
7.	Rare disorders [A.2.2.16]
8.	or/1-8
9.	(dizzy or dizziness or dizzyness or lightheaded* or light-headed* or light headed* or orthostasis or orthostatic hypotension or vertigo or tinnitus).ti,ab.
10.	Signs and symptoms filter [A.3.5]
11.	8 and 9 and 10
12.	(dizzy or dizziness or dizzyness or lightheaded* or light-headed or light headed or orthostasis or orthostatic hypotension or vertigo or tinnitus).ti.
13.	dizziness/ or vertigo/ or tinnitus/
14.	12 or 13

15.	8 and 14
16.	Study filters OBS [A.3.3] or PROG [A.3.4]
17.	(11 or 15) and 16
18.	Excluded study designs and publication types [A.3.1]
19.	17 not 28
20.	Limit 19 to English language
	Date parameters: 1946 – 5 July 2016

Embase search terms

1.	Cranial nerve diseases [A.2.2.3]
2.	Epilepsy [A.2.2.6]
3.	Functional diseases [A.2.2.8]
4.	Headache [A.2.2.9]
5.	Multiple sclerosis and inflammatory disorders [A.2.2.11]
6.	Nervous system tumours [A.2.2.14]
7.	Rare disorders [A.2.2.16]
8.	or/1-8
9.	(dizzy or dizziness or dizzyness or lightheaded* or light-headed or light headed or orthostasis or orthostatic hypotension or vertigo or tinnitus).ti,ab.
10.	Signs and symptoms filter [A.3.5]
11.	8 and 9 and 10
12.	(dizzy or dizziness or dizzyness or lightheaded* or light-headed or light headed or orthostasis or orthostatic hypotension or vertigo or tinnitus).ti.
13.	*dizziness/ or *vertigo/ or *tinnitus/
14.	12 or 13
15.	8 and 14
16.	Study filters OBS [A.3.3] or PROG [A.3.4]
17.	(11 or 15) and 16
18.	Excluded study designs and publication types [A.3.1]
19.	17 not 18
20.	Limit 19 to English language
	Date parameters: 1974 – 5 July 2016

A.4.4 Headaches in children

- In children and babies under 12 who present with headache, what is the predictive accuracy of accompanying signs and symptoms to support non-specialists in identifying suspected neurological conditions?

Medline search terms

1.	Central nervous system diseases [A.2.2.4]
2.	Developmental disorders [A.2.2.5]
3.	Functional diseases [A.2.2.8]
4.	Headache [A.2.2.9]
5.	Nervous system tumours [A.2.2.14]
6.	Rare disorders [A.2.2.16]
7.	or/1-6

8.	Children and babies [A.2.1.1]
9.	7 and 8
10.	(migraine* or headache*).ti,ab.
11.	Signs and symptoms filter [A.3.5]
12.	9 and 10 and 11
13.	exp headache/ or exp headache disorders/
14.	(migraine* or headache*).ti.
15.	13 or 14
16.	9 and 15
17.	Study filters OBS [A.3.3] or PROG [A.3.4]
18.	(12 or 16) and 17
19.	Excluded study designs and publication types [A.3.1]
20.	18 not 19
21.	Limit 20 to English language
	Date parameters: 1946 – 20 July 2016

Embase search terms

1.	Central nervous system diseases [A.2.2.4]
2.	Developmental disorders [A.2.2.5]
3.	Functional diseases [A.2.2.8]
4.	Headache [A.2.2.9]
5.	Nervous system tumours [A.2.2.14]
6.	Rare disorders [A.2.2.16]
7.	or/1-6
8.	Children and babies [A.2.1.1]
9.	7 and 8
10.	(headache* or migraine*).ti,ab.
11.	Signs and symptoms filter [A.3.5]
12.	9 and 10 and 11
13.	exp "headache and facial pain"/
14.	(headache* or migraine*).ti.
15.	13 or 14
16.	9 and 15
17.	Study filters OBS [A.3.3] or PROG [A.3.4]
18.	(12 or 16) and 17
19.	Excluded study designs and publication types [A.3.1]
20.	18 not 19
21.	Limit 20 to English language
	Date parameters: 1974 – 20 July 2016

A.4.5 HINTS test

- In people with suspected (or under investigation for) new onset of vertigo or dizziness, is the HINTS (Head-Impulse—Nystagmus—Test-of-Skew) test effective in identifying whether there is a central nervous system cause, as indicated by the reference standard, MRI?

Medline search terms

1.	(dizzy or dizziness or dizzyness or lightheaded* or light-headed* or light headed* or orthostasis or orthostatic hypotension or vertigo* or tinnitus).ti,ab.
2.	dizziness/ or exp vertigo/ or tinnitus/
3.	1 or 2
4.	((head impulse or nystagmus or skew) adj1 (test* or exam*)).ti,ab.
5.	head impulse nystagmus test of skew.ti,ab.
6.	head impulse test/
7.	hints.ti,ab.
8.	or/4-7
9.	3 and 8
10.	Excluded study designs and publication types [A.3.1]
11.	9 not 10
12.	Limit 11 to English language
	Date parameters: 1946 – 26 September 2016

Embase search terms

1.	(dizzy or dizziness or dizzyness or lightheaded* or light-headed* or light headed* or orthostasis or orthostatic hypotension or vertigo* or tinnitus).ti,ab.
2.	positional dizziness/ or dizziness/ or exp vertigo/ or tinnitus/
3.	1 or 2
4.	((head impulse or nystagmus or skew) adj1 (test* or exam*)).ti,ab.
5.	head impulse nystagmus test of skew.ti,ab.
6.	head impulse test/
7.	hints.ti,ab.
8.	or/4-7
9.	3 and 8
10.	Excluded study designs and publication types [A.3.1]
11.	9 not 10
12.	Limit 11 to English language
	Date parameters: 1974 – 26 September 2016

Cochrane search terms

#1.	(dizzy or dizziness or dizzyness or lightheaded* or light-headed* or light headed* or orthostasis or orthostatic hypotension or vertigo* or tinnitus):ti,ab
#2.	MeSH descriptor: [dizziness] this term only
#3.	MeSH descriptor: [vertigo] explode all trees
#4.	MeSH descriptor: [tinnitus] this term only
#5.	(or #1-#4)
#6.	((head impulse or nystagmus or skew) next (test* or exam*)):ti,ab
#7.	head impulse nystagmus test of skew:ti,ab
#8.	MeSH descriptor: [head impulse test] this term only
#9.	hints:ti,ab
#10.	(or #6-#9)
#11.	#5 and #10
	Date parameters: Inception: 1974 – 26 September 2016

A.4.6 Memory tests

- In people under 40 with suspected (or under investigation for) memory failure, what is the negative predictive value of neuropsychological assessments in ruling out organic memory failure?

Medline search terms

1.	exp dementia/
2.	memory/ or exp memory disorders/
3.	((memory or cognitive or cognition) adj2 (failure or impairment*)).ti,ab.
4.	(memory adj2 problems).ti,ab.
5.	exp cognition disorders/
6.	((young or working age or frontotemporal or fronto-temporal) adj1 dementia).ti,ab.
7.	(early onset adj1 (dementia or alzheimer*)).ti,ab.
8.	or/1-7
9.	(6cit or cognitive impairment test* or 7 minute screen or seven minute screen).ti,ab.
10.	mini mental state exam*.ti,ab.
11.	(mmse adj4 (test* or assess* or diagnos*)).ti,ab.
12.	gpcog.ti,ab.
13.	(general practitioner assessment adj2 cognition).ti,ab.
14.	mini-cog.ti,ab.
15.	(addenbrooke* cognitive exam* or ace-3 or ace3 or ace-r).ti,ab.
16.	or/9-15
17.	exp physicians, primary care/
18.	exp family practice/
19.	exp physicians, family/
20.	exp general practice/
21.	primary health care/
22.	(family practi* or family doctor* or family physician* or gp* or general practi* or gp* surger* or primary care centre*).ti,ab.
23.	((primary or primary health) adj care).ti,ab.
24.	or/17-23
25.	8 and 16 and 24
26.	Excluded study designs and publication types [A.3.1]
27.	25 not 26
28.	Limit 27 to English language
	Date parameters: 1946 – 19 October 2016

Embase search terms

1.	memory assessment/ or memory test/ or memory/ or memory disorder/
2.	((memory or cognitive or cognition) adj2 (failure or impairment*)).ti,ab.
3.	(memory adj2 problems).ti,ab.
4.	cognitive defect/
5.	exp dementia/
6.	((young or working age or frontotemporal or fronto-temporal) adj1 dementia).ti,ab.
7.	(early onset adj1 (dementia or alzheimer*)).ti,ab.
8.	or/1-7

9.	(6cit or cognitive impairment test* or 7 minute screen or seven minute screen).ti,ab.
10.	mini mental state exam*.ti,ab.
11.	mini mental state examination/
12.	(mmse adj4 (test* or assess* or diagnos* or screen* or detect*)).ti,ab.
13.	gpcog.ti,ab.
14.	(general practitioner assessment adj2 cognition).ti,ab.
15.	mini-cog.ti,ab.
16.	(addenbrooke* cognitive exam* or ace-3 or ace3 or ace-r).ti,ab.
17.	or/9-16
18.	exp general practitioners/
19.	exp general practice/
20.	primary health care/
21.	(family practi* or family doctor* or family physician* or gp* or general practi* gp surger* or primary care centre*).ti,ab.
22.	((primary or primary health) adj care).ti,ab.
23.	or/18-22
24.	8 and 17 and 23
25.	Excluded study designs and publication types [A.3.1]
26.	24 not 25
27.	Limit 26 to English language
	Date parameters: 1974 – 19 October 2016

Cochrane search terms

#1.	MeSH descriptor: [dementia] explode all trees
#2.	MeSH descriptor: [memory] this term only
#3.	MeSH descriptor: [memory disorders] explode all trees
#4.	((memory or cognitive or cognition) near/2 (failure or impairment*)):ti,ab
#5.	(memory near/2 problems):ti,ab
#6.	MeSH descriptor: [cognition disorders] explode all trees
#7.	((young or "working age" or frontotemporal or fronto-temporal) next dementia):ti,ab
#8.	("early onset" next (dementia or alzheimer*)):ti,ab
#9.	(or #1-#8)
#10.	(6cit or ("cognitive impairment" next test*) or "7 minute screen" or "seven minute screen"):ti,ab
#11.	mini mental state next exam*:ti,ab
#12.	(mmse near/4 (test* or assess* or diagnos*)):ti,ab
#13.	gpcog:ti,ab
#14.	("general practitioner assessment") near/2 (cognition):ti,ab
#15.	mini-cog or "mini cog":ti,ab
#16.	(addenbrooke* next "cognitive" next exam* or ace-3 or ace3 or ace-r):ti,ab
#17.	(or #10-#16)
#18.	MeSH descriptor: [physicians, primary care] explode all trees
#19.	MeSH descriptor: [family practice] explode all trees
#20.	MeSH descriptor: [physicians, family] explode all trees
#21.	MeSH descriptor: [general practice] explode all trees

#22.	MeSH descriptor: [primary health care] this term only
#23.	("family" next practi* or "family" next doctor* or "family" next physician* or gp* or "general" next practi* or gp* surger* or "primary care" next centre*):ti,ab
#24.	((primary or "primary health") next care):ti,ab
#25.	(or #18-#24)
#26.	#8 and #17 and #25
#27.	Date parameters: Inception – 19 October 2016

A.4.7 Motor developmental delay (CK test)

- In children and infants under 10 who present with motor developmental delay, is a Creatine Kinase test accurate in identifying whether muscular dystrophy is present as compared to no test (and as indicated by the reference standard, diagnosis at follow-up)?

Medline search terms

1.	muscular dystrophies/
2.	developmental disabilities/ or motor skills/
3.	((motor* or develop*) adj2 (delay* or disorder*)):ti,ab.
4.	(milestone* adj2 (miss* or delay*)):ti,ab.
5.	(musc* dystrop* or duchenne*):ti,ab.
6.	or/1-5
7.	Children and babies [A.2.1.1]
8.	creatine kinase/ or creatine kinase, mm form/
9.	(creatine kinase or creatine k or creatine phosphokinase or ck or phospho-creatine kinase or cpk or creatine phosphotransferase or phosphocreatine phosphotransferase or isoenzyme cpk mb or mm creatine or muscle creatine).ti,ab.
10.	8 or 9
11.	6 and 7 and 10
12.	Excluded study designs and publication types [A.3.1]
13.	11 not 12
14.	Limit 13 to English language
	Date parameters: 1946 – 02 September 2016

Embase search terms

1.	muscular dystrophy/
2.	developmental disorder/ or motor performance/ or motor development/
3.	((motor* or develop*) adj2 (delay* or disorder*)):ti,ab.
4.	(milestone* adj2 (miss* or delay*)):ti,ab.
5.	(musc* dystrop* or duchenne*):ti,ab.
6.	or/1-5
7.	Children and babies [A.2.1.1]
8.	creatine kinase/
9.	creatine kinase mm/
10.	(creatine kinase or creatine k or creatine phosphokinase or ck or phospho-creatine kinase or cpk or creatine phosphotransferase or phosphocreatine phosphotransferase or isoenzyme cpk mb or mm creatine or muscle creatine).ti,ab.

11.	or/8-10
12.	6 and 7 and 11
13.	Excluded study designs and publication types [A.3.1]
14.	12 not 13
15.	Limit 14 to English language
	Date parameters: 1974 - 02 September 2016

Cochrane search terms

#1.	MeSH descriptor: [muscular dystrophies] explode all trees
#2.	MeSH descriptor: [developmental disabilities] explode all trees
#3.	MeSH descriptor: [motor skills] explode all trees
#4.	((motor* or develop*) near/2 (delay* or disorder*)):ti,ab
#5.	(milestone* near/2 (miss* or delay*)):ti,ab
#6.	(musc* dystrop* or duchenne*):ti,ab
#7.	(or #1-#6)
#8.	Children and babies [A.2.1.1]
#9.	("creatine kinase" or "creatine k" or "creatine phosphokinase" or ck or "phosphocreatine kinase" or cpk or "creatine phosphotransferase" or "phosphocreatine phosphotransferase" or "isoenzyme cpk mb" or "mm creatine" or "muscle creatine"):ti,ab
#10.	MeSH descriptor: [creatine kinase] this term only
#11.	MeSH descriptor: [creatine kinase, mm form] this term only
#12.	(or #9-#11)
#13.	#7 and #8 and #12
	Inception – 02 September 2016

A.4.8 Blackouts and other paroxysmal events

- In children and babies who present with paroxysmal events, what is the predictive accuracy of accompanying signs and symptoms to support non-specialists in identifying suspected neurological conditions?

Medline search terms

1.	Children and babies [A.2.1.1]
2.	seizures/
3.	seizures, febrile/
4.	((non-epileptic or non epileptic or nonepileptic or nonepilepsy or non-epilepsy or non epilepsy or paroxysmal or complex or pyrexial* or dissociative) adj2 (seizure* or attack* or disorder* or event* or convulsion* or spell* or fit* or episode* or blackout*)):ti,ab.
5.	((psychogenic or physiological or psychological or psychosomatic or somatoform) adj2 (seizure* or convulsion* or blackout* or fit*)):ti,ab.
6.	(febrile adj1 (convulsion* or seizure* or fit*)):ti,ab.
7.	or/2-6
8.	Signs and symptoms filter [A.3.5]
9.	1 and 7 and 8
10.	Study filters OBS [A.3.3] or PROG [A.3.4]
11.	9 and 11

12.	Excluded study designs and publication types [A.3.1]
13.	11 not 12
14.	Limit 13 to English language
	Date parameters: 1946 – 25 August 2016

Embase search terms

1.	Children and babies [A.2.1.1]
2.	seizure/
3.	febrile convulsion/
4.	((non-epileptic or non epileptic or nonepileptic or nonepilepsy or non-epilepsy or non epilepsy or paroxysmal or complex or pyrexial* or dissociative) adj2 (seizure* or attack* or disorder* or event* or convulsion* or spell* or fit* or episode* or blackout*)).ti,ab.
5.	((psychogenic or physiological or psychological or psychosomatic or somatoform) adj2 (seizure* or convulsion* or blackout* or fit*)).ti,ab.
6.	(febrile adj1 (convulsion* or seizure* or fit*)).ti,ab.
7.	or/2-6
8.	Signs and symptoms filter [A.3.5]
9.	1 and 7 and 8
10.	Study filters OBS [A.3.3] or PROG [A.3.4]
11.	9 and 11
12.	Excluded study designs and publication types [A.3.1]
13.	11 not 12
14.	Limit 13 to English language
	Date parameters: 1974 – 25 August 2016

A.4.9 Sensory symptoms such as tingling or numbness

- In people who present with tingling or altered sensation in the body, what is the predictive accuracy of accompanying signs and symptoms to support non-specialists in identifying suspected neurological conditions?

Medline search terms

1.	Epilepsy [A.2.2.6]
2.	Functional diseases [A.2.2.8]
3.	Multiple sclerosis and inflammatory disorders [A.2.2.11]
4.	Myelopathies and radiculopathies (A.2.2.12)
5.	Nervous system tumours [A.2.2.14]
6.	Peripheral nervous disorders (A.2.2.15)
7.	Rare disorders [A.2.2.16]
8.	or/1-7
9.	(tingl* or alter* sens* or electric shock* or prickl* or numb or numbness or paresthesia* or paraesthesia* or formication*).ti,ab.
10.	(pin* adj2 needle*).ti,ab.
11.	or/9-10
12.	Signs and symptoms filter [A.3.5]
13.	8 and 11 and 12

14.	(tingl* or alter* sens* or electric shock* or prickl* or numb or numbness or paresthesia* or paraesthesia* or formication*).ti.
15.	(pin* adj2 needle*).ti.
16.	paresthesia/
17.	or/14-16
18.	8 and 17
19.	Study filters OBS [A.3.3] or PROG [A.3.4]
20.	(13 or 18) and 19
21.	Excluded study designs and publication types [A.3.1]
22.	20 not 21
23.	Limit 22 to English language
	Date parameters: 1946 – 28 July 2016

Embase search terms

1.	Epilepsy [A.2.2.6]
2.	Functional diseases [A.2.2.8]
3.	Multiple sclerosis and inflammatory disorders [A.2.2.11]
4.	Myelopathies and radiculopathies (A.2.2.12)
5.	Nervous system tumours [A.2.2.14]
6.	Peripheral nervous disorders (A.2.2.15)
7.	Rare disorders [A.2.2.16]
8.	or/1-7
9.	(tingl* or alter* sens* or electric shock* or prickl* or numb or numbness or paresthesia* or paraesthesia* or formication*).ti,ab.
10.	(pin* adj2 needle*).ti,ab.
11.	or/9-10
12.	Signs and symptoms filter [A.3.5]
13.	8 and 11 and 12
14.	(tingl* or alter* sens* or electric shock* or prickl* or numb or numbness or paresthesia* or paraesthesia* or formication*).ti.
15.	(pin* adj2 needle*).ti.
16.	paresthesia/
17.	or/15-16
18.	8 and 17
19.	Study filters OBS [A.3.3] or PROG [A.3.4]
20.	(13 or 18) and 19
21.	Excluded study designs and publication types [A.3.1]
22.	20 not 21
23.	Limit 22 to English language
	Date parameters: 1974 – 28 July 2016

A.4.10 Tremor

- In people who present with tingling or altered sensation in the body, what is the predictive accuracy of accompanying signs and symptoms to support non-specialists in identifying suspected neurological conditions?

Medline search terms

1.	Ataxia [A.2.2.1]
2.	Developmental disorders [A.2.2.5]
3.	Extrapyramidal diseases [A.2.2.7]
4.	Multiple sclerosis and inflammatory disorders [A.2.2.11]
5.	Neuromuscular disease [A.2.2.13]
6.	Nervous system tumours [A.2.2.14]
7.	Rare disorders [A.2.2.16]
8.	or/1-7
9.	tremor*.ti,ab.
10.	Signs and symptoms filter [A.3.5]
11.	8 and 9 and 10
12.	tremor/
13.	essential tremor/
14.	tremor*.ti.
15.	or/12-14
16.	8 and 15
17.	Study filters OBS [A.3.3] or PROG [A.3.4]
18.	(11 or 16) and 17
19.	Excluded study designs and publication types [A.3.1]
20.	18 not 19
21.	Limit 20 to English language
	Date parameters: 1946 – 03 June 2016

Embase search terms

1.	Ataxia [A.2.2.1]
2.	Developmental disorders [A.2.2.5]
3.	Extrapyramidal diseases [A.2.2.7]
4.	Multiple sclerosis and inflammatory disorders [A.2.2.11]
5.	Neuromuscular disease [A.2.2.13]
6.	Nervous system tumours [A.2.2.14]
7.	Rare disorders [A.2.2.16]
8.	or/1-7
9.	tremor*.ti,ab.
10.	Signs and symptoms filter [A.3.5]
11.	8 and 9 and 10
12.	tremor/
13.	essential tremor/
14.	tremor*.ti.
15.	or/12-14
16.	8 and 15
17.	Study filters OBS [A.3.3] or PROG [A.3.4]
18.	(11 or 16) and 17
19.	Excluded study designs and publication types [A.3.1]
20.	18 not 19

21.	Limit 20 to English language
	Date parameters: 1974 – 03 June 2016

A.5 Health economics search terms

A.5.1 Health economic [HE] reviews

Economic searches were conducted in Medline, Embase and NHS EED and HTA databases hosted by CRD.

Medline & Embase search terms

1.	Ataxia (A.2.2.1)
2.	Cranial nerve diseases [A.2.2.3]
3.	Central nervous system diseases [A.2.2.4]
4.	Developmental disorders [A.2.2.5]
5.	Epilepsy [A.2.2.6]
6.	Extrapyramidal diseases (A.2.2.7)
7.	Functional diseases [A.2.2.8]
8.	Headache [A.2.2.9]
9.	Motor neurone disease (A.2.2.10)
10.	Multiple sclerosis and inflammatory disorders [A.2.2.11]
11.	Myelopathies and radiculopathies (A.2.2.12)
12.	Neuromuscular disease (A.2.2.13)
13.	Nervous system tumours [A.2.2.14]
14.	Peripheral nervous disorders (A.2.2.15)
15.	Rare disorders [A.2.2.16]
16.	Sleep disorders (A.2.2.17)
17.	Spinal atrophy (A.2.2.18)
18.	or/1-17
19.	Study filter HE [A.3.2]
20.	18 and 19
21.	Excluded study designs and publication types [A.3.1]
22.	20 not 21
23.	Limit 22 to English language
	Date parameters: 2015 – 9 March 2017

CRD search terms

#1.	Ataxia (A.2.2.1)
#2.	Cranial nerve diseases [A.2.2.3]
#3.	Central nervous system diseases [A.2.2.4]
#4.	Developmental disorders [A.2.2.5]
#5.	Epilepsy [A.2.2.6]
#6.	Extrapyramidal diseases (A.2.2.7)
#7.	Functional diseases [A.2.2.8]
#8.	Headache [A.2.2.9]
#9.	Motor neurone disease (A.2.2.10)

#10.	Multiple sclerosis and inflammatory disorders [A.2.2.11]
#11.	Myelopathies and radiculopathies (A.2.2.12)
#12.	Neuromuscular disease (A.2.2.13)
#13.	Nervous system tumours [A.2.2.14]
#14.	Peripheral nervous disorders (A.2.2.15)
#15.	Rare disorders [A.2.2.16]
#16.	Sleep disorders (A.2.2.17)
#17.	Spinal atrophy (A.2.2.18)
#18.	or/1-17
	Date parameters: Inception – 9 March 2017