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1 Epilepsies Search Strategies

1.1 Epilepsies search strategy 1_Drug Therapies (I,J,K)

This literature search strategy was used for the following reviews:

- What AEDs (monotherapy) are effective in the treatment of repeated seizures or clusters of seizures?
- What AEDs (add-on therapy) are effective in the treatment of repeated seizures or clusters of seizures?
- What antiepileptic drugs (monotherapy) are effective in the treatment of status epilepticus?
- What antiepileptic drugs (add-on therapy) are effective in the treatment of status epilepticus?
- What AEDs (monotherapy) are effective in the treatment of prolonged seizures?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual.{NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.1.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 13 May 2021	Randomised controlled trials Systematic review studies Exclusions
Embase (OVID)	1974 – 13 May 2021	Randomised controlled trials Systematic review studies Exclusions
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 5 of 12 CENTRAL to 2021 Issue 5 of 12	None

Medline (Ovid) search terms

1.	exp epilepsy/
2.	seizures/

3.	exp status epilepticus/
4.	seizures, febrile/
5.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
6.	or/1-5
7.	letter/
8.	editorial/
9.	news/
10.	exp historical article/
11.	Anecdotes as Topic/
12.	comment/
13.	case report/
14.	(letter or comment*).ti.
15.	or/7-14
16.	randomized controlled trial/ or random*.ti,ab.
17.	15 not 16
18.	animals/ not humans/
19.	exp Animals, Laboratory/
20.	exp Animal Experimentation/
21.	exp Models, Animal/
22.	exp Rodentia/
23.	(rat or rats or mouse or mice).ti.
24.	or/17-23
25.	6 not 24
26.	limit 25 to English language
27.	exp Anticonvulsants/
28.	exp Acetazolamide/
29.	exp Carbamazepine/
30.	exp Chloral hydrate/
31.	exp Clomethiazole/
32.	exp Clonazepam/
33.	exp Clorazepate Dipotassium/
34.	exp Diazepam/
35.	exp Ethosuximide/
36.	exp Levetiracetam/
37.	exp Lorazepam/
38.	exp Mephenytoin/
39.	exp Mephobarbital/
40.	exp Midazolam/

41.	exp Methazolamide/
42.	exp Nitrazepam/
43.	exp Paraldehyde/
44.	exp Pentobarbital/
45.	exp Phenobarbital/
46.	exp Phenytoin/
47.	exp Primidone/
48.	exp Propofol/
49.	exp Temazepam/
50.	exp Thiopental/
51.	exp Topiramate/
52.	exp Trimethadione/
53.	exp Valproic Acid/
54.	exp Vigabatrin/
55.	(antiepilep* or anti-epilep* or anticonvulsant* or AED*1 or Acetazolamide or Alodorm or Antilepsin or Arem or Ativan or Barbexaclone or Beclamide or Brivaracetam or Carbagen or Carbamazepine or Celontin or Cerebyx or Chlonazepam or Chloracon or Cloazepam or Clobazam or Clonazepamum or Clonex or Clonopin or Clorazepate or Convulex or Depacon or Depak* or Depamide or Desitin or Diacomit or Diamox or Diastat or Diazepam or Dilantin or Diphenin* or Diphenylhydantoin or Divalpr* or Dormicum or Ecovia or Emeside or Epanutin or Epiject or Epilim or Episenta or Epival or Eptoin or Ergenyl or Erimin or Eslicarbazepine or Ethadione or Ethosuximide or Ethotoin or Ethylphenacemide or Exalief or Excegran or Ezogabine or Fanatrex or Felbamate or Felbatol or Fosphenytoin or Frisium or Fycompa or Gabapentin or Gabarone or Gabitril or Gabrene or Ganaxolone or Garene or Gralise or Halogabide or Halogenide or Hibicon or Hypnovel or Iktorivil or Inovelon or Insoma or Intensl or isoflurane or Keppra or Klonopin or Kriadex or Lacosamide or Lamict* or Lamitor or Lamitrin or Lamogine or Lamotrigine or Lamotriline or Landsen or Levetiracetam or Liskantin or Loraz or Lorazepam or Losigamone or Luminal or Lyrica or Mebaral or Mephenytoin or Mephobarbit* or Mephytaletten or Mesantoin or Mesuximide or Methazolamide or Methsuximide or Methylphenobarbit* or Midazolam or Mogadon or Mylepsinum or Mysoline).ti,ab.
56.	(neogab or neptazane or neurontin or nimetazepam or nitrados or nitrazadon or nitrazepam or normison or novo-clopate or nupentin or nydrane or onfi or ofiril or orlept or ormodon or ospolot or oxcarbazepine or pacisyn or paraldehyde or paramethadione or paxadorm or paxam or peganone or pentobarbital or perampanel or petinutin or petrill or phemiton or phenacemide or pheneturide or phenobarbit*).ti,ab.
57.	(Phenusuximide or phenytek or phenytoin or posedrine or potiga or pregabalin or primidone or prodilantin or progabide or prominal or propofol or prysoline or ravotril or remacemide or remnos or resimatil or restoril or retigabine or rivotril or rufinamide).ti,ab.
58.	(sabril or seclar or selenica or seletracetam or sertan or somnite of stavzor or stedesia or stiripentol or sulthiam* or sultiam* or talampanel or tegretol or temazepam or temesta or teril or thiopental or tiagabine or timonil or topamax or topiramate or tranzene or tridione or tripleptal or trimethadione of trobalt or urbanol or valance or valcote or valium or valnoctamide or valparin or valpro* or versed or vigabatrin or vimpat or zalkote or zarontin or zebinix or zonegran or zonisamide).ti,ab.

59.	(benzodiaz* or chloral hydrate or clomethiazole or dexmedetomidine or melatonin or meprobamate or zolpidem or tartrate or zopiclone or diazepam or desflurane or methoxyflurane or nitrous oxide or sevoflurane or levetiracetam or alprazolam or chlorthalidone or hydrochloride or flurazepam or lorazepam or lorazepam or oxazepam or etomidate).ti,ab.
60.	hyperbaric oxygen.ti,ab.
61.	(Hydrocortisone or prednisolone or dexamethasone or methylprednisolone or corticosteroids).ti,ab.
62.	*Adrenal Cortex Hormones/ or *adrenocorticotrophic hormone/ or *cosyntropin/
63.	(Adrenocorticotrophic hormone or adrenocorticotropin or corticotropin or cosyntropin or tetracosactrin).ti,ab.
64.	or/27-63
65.	randomized controlled trial.pt.
66.	controlled clinical trial.pt.
67.	randomi#ed.ti,ab.
68.	placebo.ab.
69.	randomly.ti,ab.
70.	Clinical Trials as topic.sh.
71.	trial.ti.
72.	or/65-71
73.	Meta-Analysis/
74.	exp Meta-Analysis as Topic/
75.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
76.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
77.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
78.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
79.	(search* adj4 literature).ab.
80.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
81.	cochrane.jw.
82.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
83.	or/73-82
84.	26 and 64
85.	84 and (72 or 83)

Embase (Ovid) search terms

1.	exp epilepsy/
2.	seizure/
3.	epileptic state/
4.	febrile convulsion/

5.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
6.	or/1-5
7.	letter.pt. or letter/
8.	note.pt.
9.	editorial.pt.
10.	case report/ or case study/
11.	(letter or comment*).ti.
12.	or/7-11
13.	randomized controlled trial/ or random*.ti,ab.
14.	12 not 13
15.	animal/ not human/
16.	nonhuman/
17.	exp Animal Experiment/
18.	exp Experimental Animal/
19.	animal model/
20.	exp Rodent/
21.	(rat or rats or mouse or mice).ti.
22.	or/14-21
23.	6 not 22
24.	limit 23 to English language
25.	exp Anticonvulsants/
26.	exp Acetazolamide/
27.	exp Carbamazepine/
28.	exp Chloral hydrate/
29.	exp Clomethiazole/
30.	exp Clonazepam/
31.	exp Clorazepate Dipotassium/
32.	exp Diazepam/
33.	exp Ethosuximide/
34.	exp Lorazepam/
35.	exp Mephenytoin/
36.	exp Mephobarbital/
37.	exp Midazolam/
38.	exp Methazolamide/
39.	exp Nitrazepam/
40.	exp Paraldehyde/
41.	exp Pentobarbital/
42.	exp Phenobarbital/

43.	exp Phenytoin/
44.	exp Primidone/
45.	exp Propofol/
46.	exp Temazepam/
47.	exp Thiopental/
48.	exp Topiramate/
49.	exp Trimethadione/
50.	exp Valproic Acid/
51.	exp Vigabatrin/
52.	(antiepilep* or anti-epilep* or anticonvulsant* or AED*1 or Acetazolamide or Alodorm or Antilepsin or Arem or Ativan or Barbexalone or Beclamide or Brivaracetam or Carbagen or Carbamazepine or Celontin or Cerebyx or Chlonazepam or Chloracon or Cloazepam or Clobazam or Clonazepamum or Clonex or Clonopin or Clorazepate or Convulex or Depacon or Depak* or Depamide or Desitin or Diacomit or Diamox or Diastat or Diazepam or Dilantin or Diphenin* or Diphenylhydantoin or Divalpr* or Dormicum or Ecovia or Emeside or Epanutin or Epiject or Epilim or Episenta or Epival or Eptoin or Ergenyl or Erimin or Eslicarbazepine or Ethadione or Ethosuximide or Ethotoin or Ethylphenacemide or Exalief or Excegran or Ezogabine or Fanatrex or Felbamate or Felbatol or Fosphenytoin or Frisium or Fycompa or Gabapentin or Gabarone or Gabitril or Gabrene or Ganaxolone or Garene or Gralise or Halogabide or Halogenide or Hibicon or Hypnovel or Iktorivil or Inovelon or Insoma or Intensl or isoflurane or Keppra or Klonopin or Kriadex or Lacosamide or Lamict* or Lamitor or Lamitrin or Lamogine or Lamotrigine or Lamotriline or Landsen or Levetiracetam or Liskantin or Loraz or Lorazepam or Losigamone or Luminal or Lyrica or Mebaral or Mephenytoin or Mephobarbit* or Mephytaletten or Mesantoin or Mesuximide or Methazolamide or Methsuximide or Methylphenobarbit* or Midazolam or Mogadon or Mylepsinum or Mysoline).ti,ab.
53.	(neogab or neptazane or neurontin or nimetazepam or nitrados or nitrazadon or nitrazepam or normison or novo-clopatate or nupentin or nydrane or onfi or ofiril or orlept or ormodon or ospolot or oxcarbazepine or pacisyn or paraldehyde or paramethadione or paxadorm or paxam or peganone or pentobarbital or perampanel or petinutin or petrill or phemiton or phenacemide or pheneturide or phenobarbit*).ti,ab.
54.	(Phenusuximide or phenytek or phenytoin or posedrine or potiga or pregabalin or primidone or protilantin or progabide or prominal or propofol or prysoline or ravotril or remacemide or remnos or resimatil or restoril or retigabine or rivotril or rufinamide).ti,ab.
55.	(sabril or seclar or selenica or seletracetam or sertan or somnite of stavzor or stedesa or stiripentol or sulthiam* or sultiam* or talampanel or tegretol or temazepam or temesta or teril or thiopental or tiagabine or timonil or topamax or topiramate or tranzene or tridione or trileptal or trimethadione of trobalt or urbanol or valance or valcote or valium or valnoctamide or valparin or valpro* or versed or vigabatrin or vimpat or zalkote or zarontin or zebinix or zonegran or zonisamide).ti,ab.
56.	(benzodiaz* or chloral hydrate or clomethiazole or dexmedetomidine or melatonin or meprobamate or zolpidem or tartrate or zopiclone or diazepam or desflurane or methoxyflurane or nitrous oxide or sevoflurane or leviracetam or alprazolam or chlordiazepoxide or hydrochloride or flurazepam or loprazepam or lormetazepam or oxazepam or etomidate).ti,ab.
57.	hyperbaric oxygen.ti,ab.

58.	(Hydrocortisone or prednisolone or dexamethasone or methylprednisolone or corticosteroids).ti,ab.
59.	(Adrenocorticotrophic hormone or adrenocorticotropin or corticotropin or cosyntropin or tetracosactrin).ti,ab.
60.	*corticosteroid/ or *tetracosactide/
61.	or/25-60
62.	random*.ti,ab.
63.	factorial*.ti,ab.
64.	(crossover* or cross over*).ti,ab.
65.	((doubl* or singl*) adj blind*).ti,ab.
66.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
67.	crossover procedure/
68.	single blind procedure/
69.	randomized controlled trial/
70.	double blind procedure/
71.	or/62-70
72.	systematic review/
73.	meta-analysis/
74.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
75.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
76.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
77.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
78.	(search* adj4 literature).ab.
79.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
80.	cochrane.jw.
81.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
82.	or/72-81
83.	24 and 61
84.	83 and (71 or 82)

Cochrane Library (Wiley) search terms

#1.	MeSH descriptor: [Epilepsy] explode all trees
#2.	MeSH descriptor: [Seizures] explode all trees
#3.	MeSH descriptor: [Status Epilepticus] explode all trees
#4.	MeSH descriptor: [Seizures, Febrile] explode all trees
#5.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome):ti,ab
#6.	(or #1-#5)

#7.	MeSH descriptor: [Anticonvulsants] explode all trees
#8.	MeSH descriptor: [Acetazolamide] explode all trees
#9.	MeSH descriptor: [Carbamazepine] explode all trees
#10.	MeSH descriptor: [Chloral Hydrate] explode all trees
#11.	MeSH descriptor: [Chlormethiazole] explode all trees
#12.	MeSH descriptor: [Clonazepam] explode all trees
#13.	MeSH descriptor: [Clorzepate Dipotassium] explode all trees
#14.	MeSH descriptor: [Diazepam] explode all trees
#15.	MeSH descriptor: [Ethosuximide] explode all trees
#16.	MeSH descriptor: [Lorazepam] explode all trees
#17.	MeSH descriptor: [Mephenytoin] explode all trees
#18.	MeSH descriptor: [Mephobarbital] explode all trees
#19.	MeSH descriptor: [Midazolam] explode all trees
#20.	MeSH descriptor: [Methazolamide] explode all trees
#21.	MeSH descriptor: [Nitrazepam] explode all trees
#22.	MeSH descriptor: [Paraldehyde] explode all trees
#23.	MeSH descriptor: [Pentobarbital] explode all trees
#24.	MeSH descriptor: [Phenobarbital] explode all trees
#25.	MeSH descriptor: [Phenytoin] explode all trees
#26.	MeSH descriptor: [Primidone] explode all trees
#27.	MeSH descriptor: [Propofol] explode all trees
#28.	MeSH descriptor: [Temazepam] explode all trees
#29.	MeSH descriptor: [Thiopental] explode all trees
#30.	MeSH descriptor: [Topiramate] explode all trees
#31.	MeSH descriptor: [Trimethadione] explode all trees
#32.	MeSH descriptor: [Valproic Acid] explode all trees
#33.	MeSH descriptor: [Vigabatrin] explode all trees
#34.	(antiepilep* or anti-epilep* or anticonvulsant* or AED*1 or Acetazolamide or Alodorm or Antilepsin or Arem or Ativan or Barbexalone or Beclamide or Brivaracetam or Carbagen or Carbamazepine or Celontin or Cerebyx or Chlonazepam or Chloracon or Cloazepam or Clobazam or Clonazepamum or Clonex or Clonopin or Clorzepate or Convulex or Depacon or Depak* or Depamide or Desitin or Diacomit or Diamox or Diastat or Diazepam or Dilantin or Diphenin* or Diphenylhydantoin or Divalpr* or Dormicum or Ecovia or Emeside or Epanutin or Epiject or Epilim or Episenta or Epival or Eptoin or Ergenyl or Erimin or Eslicarbazepine or Ethadione or Ethosuximide or Ethotoin or Ethylphenacemide or Exalief or Excegran or Ezogabine or Fanatrex or Felbamate or Felbatol or Fosphenytoin or Frisium or Fycompa or Gabapentin or Gabarone or Gabitril or Gabrene or Ganaxolone or Garene or Gralise or Halogabide or Halogenide or Hibicon or Hypnovel or Iktorivil or Inovelon or Insoma or Intensl or isoflurane or Keppra or Klonopin or Kriadex or Lacosamide or Lamict* or Lamitor or Lamitrin or Lamogine or Lamotrigine or Lamotriline or Landsen or Levetiracetam or Liskantin or Loraz or Lorazepam or Losigamone or Luminal or Lyrica or Mebaral or Mephenytoin or Mephobarbit* or Mephyltaletten or Mesantoin or Mesuximide or Methazolamide or Methsuximide or Methylphenobarbit* or Midazolam or Mogadon or Mylepsinum or Mysoline):ti,ab

#35.	(neogab or neptazane or neurontin or nimetazepam or nitrados or nitrazadon or nitrazepam or normison or novo-clopatate or nupentin or nydrane or onfi or ofiril or orlept or ormodon or ospolot or oxcarbazepine or pacisyn or paraldehyde or paramethadione or paxadorm or paxam or peganone or pentobarbital or perampanel or petinutin or petril or phemiton or phenacemide or pheneturide or phenobarbit*):ti,ab
#36.	(Phenusuximide or phenytek or phenytoin or posedrine or potiga or pregabalin or primidone or prodilantin or progabide or prominal or propofol or prysoline or ravotril or remacemide or remnos or resimatil or restoril or retigabine or rivotril or rufinamide):ti,ab
#37.	(sabrill or seclar or selenica or seletracetam or sertan or somnite of stavzor or stedsa or stiripentol or sulthiam* or sultiam* or talampanel or tegretol or temazepam or temesta or teril or thiopental or tiagabine or timonil or topamax or topiramate or tranzene or tridione or trileptal or trimethadione of trobalt or urbanol or valance or valcote or valium or valnoctamide or valparin or valpro* or versed or vigabatrin or vimpat or zalkote or zarontin or zebinix or zonegran or zonisamide):ti,ab
#38.	(benzodiaz* or chloral hydrate or clomethiazole or dexmedetomidine or melatonin or meprobamate or zolpidem or tartrate or zopiclone or diazepam or desflurane or methoxyflurane or nitrous oxide or sevoflurane or leviracetam or alprazolam or chlordiazepoxide or hydrochloride or flurazepam or loperazolam or lormetazepam or oxazepam or etomidate):ti,ab
#39.	hyperbaric oxygen:ti,ab
#40.	(Hydrocortisone or prednisolone or dexamethasone or methylprednisolone or corticosteroids):ti,ab
#41.	(Adrenocorticotrophic hormone or adrenocorticotropin or corticotropin or cosyntropin or tetracosactrin):ti,ab
#42.	MeSH descriptor: [Adrenal Cortex Hormones] explode all trees
#43.	MeSH descriptor: [Adrenocorticotrophic Hormone] explode all trees
#44.	MeSH descriptor: [Cosyntropin] explode all trees
#45.	(or #7-#44)
#46.	#6 and #45

1.1.2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Epilepsies population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics and quality of life studies.

Table 2: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1946 – 13 May 2021	Exclusions

Database	Dates searched	Search filter used
Embase	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1974 – 13 May 2021	Exclusions
Centre for Research and Dissemination (CRD)	HTA - Inception – 13 May 2021 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

1.	exp epilepsy/
2.	seizures/
3.	exp status epilepticus/
4.	seizures, febrile/
5.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
6.	or/1-5
7.	letter/
8.	editorial/
9.	news/
10.	exp historical article/
11.	Anecdotes as Topic/
12.	comment/
13.	case report/
14.	(letter or comment*).ti.
15.	or/7-14
16.	randomized controlled trial/ or random*.ti,ab.
17.	15 not 16
18.	animals/ not humans/
19.	exp Animals, Laboratory/
20.	exp Animal Experimentation/
21.	exp Models, Animal/
22.	exp Rodentia/
23.	(rat or rats or mouse or mice).ti.
24.	or/17-23
25.	6 not 24
26.	limit 25 to English language
27.	Economics/
28.	Value of life/

29.	exp "Costs and Cost Analysis"/
30.	exp Economics, Hospital/
31.	exp Economics, Medical/
32.	Economics, Nursing/
33.	Economics, Pharmaceutical/
34.	exp "Fees and Charges"/
35.	exp Budgets/
36.	budget*.ti,ab.
37.	cost*.ti.
38.	(economic* or pharmaco?economic*).ti.
39.	(price* or pricing*).ti,ab.
40.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
41.	(financ* or fee or fees).ti,ab.
42.	(value adj2 (money or monetary)).ti,ab.
43.	or/27-42
44.	quality-adjusted life years/
45.	sickness impact profile/
46.	(quality adj2 (wellbeing or well being)).ti,ab.
47.	sickness impact profile.ti,ab.
48.	disability adjusted life.ti,ab.
49.	(qal* or qtime* or qwb* or daly*).ti,ab.
50.	(euroqol* or eq5d* or eq 5*).ti,ab.
51.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
52.	(hui or hui1 or hui2 or hui3).ti,ab.
53.	(health* year* equivalent* or hye or hyes).ti,ab.
54.	discrete choice*.ti,ab.
55.	rosser.ti,ab.
56.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
57.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
58.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
59.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
60.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
61.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
62.	or/44-61
63.	26 and (43 or 62)

Embase (Ovid) search terms

1.	exp *epilepsy/
2.	*landau kleffner syndrome/

3.	exp *seizure/
4.	"seizure, epilepsy and convulsion"/
5.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
6.	or/1-5
7.	letter.pt. or letter/
8.	note.pt.
9.	editorial.pt.
10.	case report/ or case study/
11.	(letter or comment*).ti.
12.	or/7-11
13.	randomized controlled trial/ or random*.ti,ab.
14.	12 not 13
15.	animal/ not human/
16.	nonhuman/
17.	exp Animal Experiment/
18.	exp Experimental Animal/
19.	animal model/
20.	exp Rodent/
21.	(rat or rats or mouse or mice).ti.
22.	or/15-21
23.	6 not 22
24.	limit 23 to English language
25.	health economics/
26.	exp economic evaluation/
27.	exp health care cost/
28.	exp fee/
29.	budget/
30.	funding/
31.	budget*.ti,ab.
32.	cost*.ti.
33.	(economic* or pharmaco?economic*).ti.
34.	(price* or pricing*).ti,ab.
35.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
36.	(financ* or fee or fees).ti,ab.
37.	(value adj2 (money or monetary)).ti,ab.
38.	or/25-37
39.	quality adjusted life year/
40.	sickness impact profile/

41.	(quality adj2 (wellbeing or well being)).ti,ab.
42.	sickness impact profile.ti,ab.
43.	disability adjusted life.ti,ab.
44.	(qal* or qtime* or qwb* or daly*).ti,ab.
45.	(euroqol* or eq5d* or eq 5*).ti,ab.
46.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
47.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
48.	(hui or hui1 or hui2 or hui3).ti,ab.
49.	(health* year* equivalent* or hye or hyes).ti,ab.
50.	discrete choice*.ti,ab.
51.	rosser.ti,ab.
52.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
53.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
54.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
55.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
56.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
57.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
58.	or/39-57
59.	24 and (38 or 58)

NHS EED and HTA (CRD) search terms

#1.	MeSH DESCRIPTOR Epilepsy EXPLODE ALL TREES
#2.	MeSH DESCRIPTOR Seizures EXPLODE ALL TREES
#3.	MeSH DESCRIPTOR Status Epilepticus EXPLODE ALL TREES
#4.	MeSH DESCRIPTOR Seizures, Febrile EXPLODE ALL TREES
#5.	((dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome))
#6.	#1 OR #2 OR #3 OR #4 OR #5

1.2 Epilepsies search strategy 2_Diagnostic accuracy and diagnostic RCT (C)

This literature search strategy was used for the following reviews:

- What is the most accurate approach for 1) diagnosis of epilepsy, and 2) differentiation between types of epilepsy?
- What is the most clinically and cost-effective approach for diagnosis of epilepsies?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.2.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 3: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 23 August 2019	Randomised controlled trials Systematic review studies Diagnostic tests studies Exclusions
Embase (OVID)	1974 – 23 August 2019	Randomised controlled trials Systematic review studies Diagnostic tests studies Exclusions
The Cochrane Library (Wiley)	Cochrane Reviews to 2020 Issue 8 of 12 CENTRAL to 2020 Issue 8 of 12	None
Epistemonikos (The Epistemonikos Foundation)	Inception to 23 August 2019	Systematic review studies

Medline (Ovid) search terms

86.	exp epilepsy/
87.	seizures/
88.	exp status epilepticus/

89.	seizures, febrile/
90.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
91.	or/1-5
92.	letter/
93.	editorial/
94.	news/
95.	exp historical article/
96.	Anecdotes as Topic/
97.	comment/
98.	case report/
99.	(letter or comment*).ti.
100.	or/7-14
101.	randomized controlled trial/ or random*.ti,ab.
102.	15 not 16
103.	animals/ not humans/
104.	exp Animals, Laboratory/
105.	exp Animal Experimentation/
106.	exp Models, Animal/
107.	exp Rodentia/
108.	(rat or rats or mouse or mice).ti.
109.	or/17-23
110.	6 not 24
111.	limit 25 to English language
112.	Magnetic Resonance Imaging/
113.	((magnetic or nuclear) adj2 resonance adj3 imag*).ti,ab.
114.	(MRI or NMR or NMRI or fMRI or MR or DWI).ti,ab.
115.	Electroencephalography/
116.	(Electroencephalography or electroencephalogram or EEG or video telemetry).ti,ab.
117.	Electrocardiography/
118.	(Electrocardiograph* or Electrocardiogram* or ECG or EKG).ti,ab.
119.	Tomography, X-Ray Computed/
120.	((Computerised or computed or computer) adj2 Tomograph*).ti,ab.
121.	((CT or CAT) adj2 (scan* or xray or x-ray)).ti,ab.
122.	(brain adj2 scan*).ti,ab.
123.	Magnetoencephalography/
124.	(Magnetoencephalography or Magneto-encephalography).ti,ab.
125.	(MEG adj2 scan*).ti,ab.
126.	exp Tomography, Emission-Computed/

127.	(positron-Emission Tomography or Single-Photon Emission).ti,ab.
128.	((PET or SPECT) adj2 scan*).ti,ab.
129.	Magnetic Resonance Spectroscopy/
130.	magnetic Resonance Spectroscopy.ti,ab.
131.	(stereoelectroencephalograph* or stereoencephalograph* or stereoelectroencephalogram* or stereoencephalogram* or SEEG).ti,ab.
132.	or/27-46
133.	26 and 47
134.	randomized controlled trial.pt.
135.	controlled clinical trial.pt.
136.	randomi#ed.ti,ab.
137.	placebo.ab.
138.	randomly.ti,ab.
139.	Clinical Trials as topic.sh.
140.	trial.ti.
141.	or/49-55
142.	Meta-Analysis/
143.	exp Meta-Analysis as Topic/
144.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
145.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
146.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
147.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
148.	(search* adj4 literature).ab.
149.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
150.	cochrane.jw.
151.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
152.	or/57-66
153.	exp "sensitivity and specificity"/
154.	(sensitivity or specificity).ti,ab.
155.	((pre test or pretest or post test) adj probability).ti,ab.
156.	(predictive value* or PPV or NPV).ti,ab.
157.	likelihood ratio*.ti,ab.
158.	likelihood function/
159.	((area under adj4 curve) or AUC).ti,ab.
160.	(receive* operat* characteristic* or receive* operat* curve* or ROC curve*).ti,ab.
161.	(diagnos* adj3 (performance* or accurac* or utilit* or value* or efficien* or effectiveness)).ti,ab.
162.	gold standard.ab.

163.	or/68-77
164.	48 and (56 or 67 or 78)

Embase (Ovid) search terms

85.	exp epilepsy/
86.	seizure/
87.	epileptic state/
88.	febrile convulsion/
89.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
90.	or/1-5
91.	letter.pt. or letter/
92.	note.pt.
93.	editorial.pt.
94.	case report/ or case study/
95.	(letter or comment*).ti.
96.	or/7-11
97.	randomized controlled trial/ or random*.ti,ab.
98.	12 not 13
99.	animal/ not human/
100.	nonhuman/
101.	exp Animal Experiment/
102.	exp Experimental Animal/
103.	animal model/
104.	exp Rodent/
105.	(rat or rats or mouse or mice).ti.
106.	or/14-21
107.	6 not 22
108.	limit 23 to English language
109.	*nuclear magnetic resonance imaging/
110.	((magnetic or nuclear) adj2 resonance adj3 imag*).ti,ab.
111.	(MRI or NMR or NMRI or fMRI or MR or DWI).ti,ab.
112.	*electroencephalography/
113.	(Electroencephalography or electroencephalogram or EEG or video telemetry).ti,ab.
114.	*electrocardiography/
115.	(Electrocardiograph* or Electrocardiogram* or ECG or EKG).ti,ab.
116.	*x-ray computed tomography/
117.	((Computerised or computed or computer) adj2 Tomograph*).ti,ab.
118.	((CT or CAT) adj2 (scan* or xray or x-ray)).ti,ab.

119.	(brain adj2 scan*).ti,ab.
120.	*magnetoencephalography/
121.	(Magnetoencephalography or Magneto-encephalography).ti,ab.
122.	(MEG adj2 scan*).ti,ab.
123.	exp *computer assisted emission tomography/
124.	(positron-Emission Tomography or Single-Photon Emission).ti,ab.
125.	((PET or SPECT) adj2 scan*).ti,ab.
126.	*nuclear magnetic resonance spectroscopy/
127.	magnetic Resonance Spectroscopy.ti,ab.
128.	(stereoelectroencephalograph* or stereoencephalograph* or stereoelectroencephalogram* or stereoencephalogram* or SEEG).ti,ab.
129.	or/25-44
130.	24 and 45
131.	random*.ti,ab.
132.	factorial*.ti,ab.
133.	(crossover* or cross over*).ti,ab.
134.	((doubl* or singl*) adj blind*).ti,ab.
135.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
136.	crossover procedure/
137.	single blind procedure/
138.	randomized controlled trial/
139.	double blind procedure/
140.	or/47-55
141.	systematic review/
142.	meta-analysis/
143.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
144.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
145.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
146.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
147.	(search* adj4 literature).ab.
148.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
149.	cochrane.jw.
150.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
151.	or/57-66
152.	exp "sensitivity and specificity"/
153.	(sensitivity or specificity).ti,ab.
154.	((pre test or pretest or post test) adj probability).ti,ab.
155.	(predictive value* or PPV or NPV).ti,ab.

156.	likelihood ratio*.ti,ab.
157.	((area under adj4 curve) or AUC).ti,ab.
158.	(receive* operat* characteristic* or receive* operat* curve* or ROC curve*).ti,ab.
159.	(diagnos* adj3 (performance* or accurac* or utilit* or value* or efficien* or effectiveness)).ti,ab.
160.	diagnostic accuracy/
161.	diagnostic test accuracy study/
162.	gold standard.ab.
163.	or/68-78
164.	46 and (56 or 67 or 79)

Cochrane Library (Wiley) search terms

#47.	MeSH descriptor: [Epilepsy] explode all trees
#48.	MeSH descriptor: [Seizures] this term only
#49.	MeSH descriptor: [Status Epilepticus] explode all trees
#50.	MeSH descriptor: [Seizures, Febrile] this term only
#51.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome):ti,ab
#52.	(OR #1-#5)
#53.	MeSH descriptor: [Magnetic Resonance Imaging] this term only
#54.	((magnetic or nuclear) NEAR/2 resonance NEAR/3 imag*):ti,ab
#55.	(MRI or NMR or NMRI or fMRI or MR or DWI):ti,ab
#56.	MeSH descriptor: [Electroencephalography] this term only
#57.	(Electroencephalography or electroencephalogram or EEG or "video telemetry"):ti,ab
#58.	MeSH descriptor: [Electrocardiography] this term only
#59.	(Electrocardiograph* or Electrocardiogram* or ECG or EKG):ti,ab
#60.	MeSH descriptor: [Tomography, X-Ray Computed] this term only
#61.	((Computerised or computed or computer) NEAR/2 Tomograph*):ti,ab
#62.	((CT or CAT) NEAR/2 (scan* or xray or x ray)):ti,ab
#63.	(brain NEAR/2 scan*):ti,ab
#64.	MeSH descriptor: [Magnetoencephalography] this term only
#65.	(Magnetoencephalography or "Magneto encephalography"):ti,ab
#66.	(MEG NEAR/2 scan*):ti,ab
#67.	MeSH descriptor: [Tomography, Emission-Computed] explode all trees
#68.	("positron Emission Tomography" or "Single Photon Emission"):ti,ab
#69.	((PET or SPECT) NEAR/2 scan*):ti,ab
#70.	MeSH descriptor: [Magnetic Resonance Spectroscopy] this term only
#71.	("Magnetic Resonance Spectroscopy"):ti,ab

#72.	(stereoencephalograph* or stereoencephalograph* or stereoencephalogram* or stereoencephalogram* or SEEG):ti,ab
#73.	(OR #7-#26)
#74.	#6 AND #27

Epistemonikos search terms

1.	(advanced_title_en:(<i>"status epilepticus"</i> OR <i>"dravet syndrome"</i> OR <i>epilep*</i> OR <i>convuls*</i> OR <i>"continuous spike wave"</i> OR <i>"slow sleep"</i> OR <i>"landau kleffner syndrome"</i> OR <i>"lennox gastaut syndrome"</i> OR <i>"infant* spasm*"</i> OR <i>seizure*</i> OR <i>"west syndrome"</i>) OR advanced_abstract_en:(<i>"status epilepticus"</i> OR <i>"dravet syndrome"</i> OR <i>epilep*</i> OR <i>convuls*</i> OR <i>"continuous spike wave"</i> OR <i>"slow sleep"</i> OR <i>"landau kleffner syndrome"</i> OR <i>"lennox gastaut syndrome"</i> OR <i>"infant* spasm*"</i> OR <i>seizure*</i> OR <i>"west syndrome"</i>)) AND (advanced_title_en:(<i>"Magnetic Resonance Imaging"</i> OR <i>MRI</i> OR <i>NMR</i> OR <i>NMRI</i> OR <i>fMRI</i> OR <i>MR</i> OR <i>DWI</i> OR <i>Electroencephalography</i> OR <i>electroencephalogram</i> OR <i>EEG</i> OR <i>"video telemetry"</i> OR <i>Electrocardiograph*</i> OR <i>Electrocardiogram*</i> OR <i>ECG</i> OR <i>EKG</i> OR <i>"Computerised Tomograph*"</i> OR <i>"computed Tomograph*"</i> OR <i>"computer Tomograph*"</i> OR <i>"CAT scan*"</i> OR <i>"CT scan*"</i> OR <i>"brain scan"</i> OR <i>Magnetoencephalography</i> OR <i>"Magneto-encephalography"</i> OR <i>MEG</i> OR <i>"positron-Emission Tomography"</i> OR <i>"Single-Photon Emission"</i> OR <i>"PET scan*"</i> OR <i>"SPECT scan*"</i> OR <i>"magnetic Resonance Spectroscopy"</i> OR <i>stereoencephalograph*</i> OR <i>stereoencephalogram*</i> OR <i>stereoencephalogram*</i> OR <i>stereoencephalogram*</i> OR <i>SEEG</i>) OR advanced_abstract_en:(<i>"Magnetic Resonance Imaging"</i> OR <i>MRI</i> OR <i>NMR</i> OR <i>NMRI</i> OR <i>fMRI</i> OR <i>MR</i> OR <i>DWI</i> OR <i>Electroencephalography</i> OR <i>electroencephalogram</i> OR <i>EEG</i> OR <i>"video telemetry"</i> OR <i>Electrocardiograph*</i> OR <i>Electrocardiogram*</i> OR <i>ECG</i> OR <i>EKG</i> OR <i>"Computerised Tomograph*"</i> OR <i>"computed Tomograph*"</i> OR <i>"computer Tomograph*"</i> OR <i>"CAT scan*"</i> OR <i>"CT scan*"</i> OR <i>"brain scan"</i> OR <i>Magnetoencephalography</i> OR <i>"Magneto-encephalography"</i> OR <i>MEG</i> OR <i>"positron-Emission Tomography"</i> OR <i>"Single-Photon Emission"</i> OR <i>"PET scan*"</i> OR <i>"SPECT scan*"</i> OR <i>"magnetic Resonance Spectroscopy"</i> OR <i>stereoencephalograph*</i> OR <i>stereoencephalogram*</i> OR <i>stereoencephalogram*</i> OR <i>stereoencephalogram*</i> OR <i>SEEG</i>))
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1.2.2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Epilepsies population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics and quality of life studies.

Table 4: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1946 – 13 May 2021	Exclusions
Embase	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies

Database	Dates searched	Search filter used
	Quality of Life 1974 – 13 May 2021	Exclusions
Centre for Research and Dissemination (CRD)	HTA - Inception – 13 May 2021 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

64.	exp epilepsy/
65.	seizures/
66.	exp status epilepticus/
67.	seizures, febrile/
68.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
69.	or/1-5
70.	letter/
71.	editorial/
72.	news/
73.	exp historical article/
74.	Anecdotes as Topic/
75.	comment/
76.	case report/
77.	(letter or comment*).ti.
78.	or/7-14
79.	randomized controlled trial/ or random*.ti,ab.
80.	15 not 16
81.	animals/ not humans/
82.	exp Animals, Laboratory/
83.	exp Animal Experimentation/
84.	exp Models, Animal/
85.	exp Rodentia/
86.	(rat or rats or mouse or mice).ti.
87.	or/17-23
88.	6 not 24
89.	limit 25 to English language
90.	Economics/
91.	Value of life/
92.	exp "Costs and Cost Analysis"/
93.	exp Economics, Hospital/

94.	exp Economics, Medical/
95.	Economics, Nursing/
96.	Economics, Pharmaceutical/
97.	exp "Fees and Charges"/
98.	exp Budgets/
99.	budget*.ti,ab.
100.	cost*.ti.
101.	(economic* or pharmaco?economic*).ti.
102.	(price* or pricing*).ti,ab.
103.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
104.	(financ* or fee or fees).ti,ab.
105.	(value adj2 (money or monetary)).ti,ab.
106.	or/27-42
107.	quality-adjusted life years/
108.	sickness impact profile/
109.	(quality adj2 (wellbeing or well being)).ti,ab.
110.	sickness impact profile.ti,ab.
111.	disability adjusted life.ti,ab.
112.	(qal* or qtime* or qwb* or daly*).ti,ab.
113.	(euroqol* or eq5d* or eq 5*).ti,ab.
114.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
115.	(hui or hui1 or hui2 or hui3).ti,ab.
116.	(health* year* equivalent* or hye or hyes).ti,ab.
117.	discrete choice*.ti,ab.
118.	rosser.ti,ab.
119.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
120.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
121.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
122.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
123.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
124.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
125.	or/44-61
126.	26 and (43 or 62)

Embase (Ovid) search terms

60.	exp *epilepsy/
61.	*landau kleffner syndrome/
62.	exp *seizure/
63.	"seizure, epilepsy and convulsion"/

64.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
65.	or/1-5
66.	letter.pt. or letter/
67.	note.pt.
68.	editorial.pt.
69.	case report/ or case study/
70.	(letter or comment*).ti.
71.	or/7-11
72.	randomized controlled trial/ or random*.ti,ab.
73.	12 not 13
74.	animal/ not human/
75.	nonhuman/
76.	exp Animal Experiment/
77.	exp Experimental Animal/
78.	animal model/
79.	exp Rodent/
80.	(rat or rats or mouse or mice).ti.
81.	or/15-21
82.	6 not 22
83.	limit 23 to English language
84.	health economics/
85.	exp economic evaluation/
86.	exp health care cost/
87.	exp fee/
88.	budget/
89.	funding/
90.	budget*.ti,ab.
91.	cost*.ti.
92.	(economic* or pharmaco?economic*).ti.
93.	(price* or pricing*).ti,ab.
94.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
95.	(financ* or fee or fees).ti,ab.
96.	(value adj2 (money or monetary)).ti,ab.
97.	or/25-37
98.	quality adjusted life year/
99.	sickness impact profile/
100.	(quality adj2 (wellbeing or well being)).ti,ab.
101.	sickness impact profile.ti,ab.

102.	disability adjusted life.ti,ab.
103.	(qal* or qtime* or qwb* or daly*).ti,ab.
104.	(euroqol* or eq5d* or eq 5*).ti,ab.
105.	(qol* or hq1* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
106.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
107.	(hui or hui1 or hui2 or hui3).ti,ab.
108.	(health* year* equivalent* or hye or hyes).ti,ab.
109.	discrete choice*.ti,ab.
110.	rosser.ti,ab.
111.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
112.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
113.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
114.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
115.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
116.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
117.	or/39-57
118.	24 and (38 or 58)

NHS EED and HTA (CRD) search terms

#7.	MeSH DESCRIPTOR Epilepsy EXPLODE ALL TREES
#8.	MeSH DESCRIPTOR Seizures EXPLODE ALL TREES
#9.	MeSH DESCRIPTOR Status Epilepticus EXPLODE ALL TREES
#10.	MeSH DESCRIPTOR Seizures, Febrile EXPLODE ALL TREES
#11.	((dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome))
#12.	#1 OR #2 OR #3 OR #4 OR #5

1.3 Epilepsies search strategy 3 Information and support and Transition (D, T)

This literature search strategy was used for the following reviews:

- What information and support is needed by people, parents or carers in relation to epilepsy, and when should this be provided?
- How should the transition from children's and young people's services to adults' epilepsy services be managed?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual.{NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.3.1 Clinical search literature search strategy

Searches for patient views were run in Medline (OVID), Embase (OVID), CINAHL, Current Nursing and Allied Health Literature (EBSCO) and PsycINFO (ProQuest). Search filters were applied to the search where appropriate.

Table 5: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 30 December 2019	Qualitative studies Exclusions
Embase (OVID)	1974 – 30 December 2019	Qualitative studies Exclusions
CINAHL, Current Nursing and Allied Health Literature (EBSCO)	Inception – 30 December 2019	
PsycINFO (ProQuest)	Inception – 30 December 2019	

Medline (Ovid) search terms

165.	exp epilepsy/
166.	seizures/
167.	exp status epilepticus/
168.	seizures, febrile/
169.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
170.	or/1-5
171.	letter/
172.	editorial/
173.	news/
174.	exp historical article/
175.	Anecdotes as Topic/
176.	comment/
177.	case report/
178.	(letter or comment*).ti.
179.	or/7-14
180.	randomized controlled trial/ or random*.ti,ab.

181.	15 not 16
182.	animals/ not humans/
183.	exp Animals, Laboratory/
184.	exp Animal Experimentation/
185.	exp Models, Animal/
186.	exp Rodentia/
187.	(rat or rats or mouse or mice).ti.
188.	or/17-23
189.	6 not 24
190.	limit 25 to English language
191.	"patient acceptance of health care"/ or exp patient satisfaction/ or consumer health information/ or needs assessment/
192.	Patient Education as Topic/ or exp patients/ or exp family/ or caregivers/ or patient preference/
193.	((information* or advice or advising or advised or support*) adj3 (patient* or need* or requirement* or assess* or seek* or access* or disseminat*)).ti,ab.
194.	(information* adj2 support*).ti,ab.
195.	((client* or patient* or user* or carer* or consumer* or customer* or parent* or famil* or spouse*) adj2 (attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or inform* or experience or experiences or opinion* or preference* or focus group*)).ti,ab.
196.	or/27-30
197.	"Continuity of Patient Care"/
198.	Patient Transfer/
199.	Patient Care Planning/
200.	"Delivery of Health Care, Integrated"/
201.	shared care.ti,ab.
202.	shared service*.ti,ab.
203.	((healthcare or care or service*) adj3 integrat*).ti,ab.
204.	transition*.ti.
205.	(transfer? or transferred or transferral or transferring).ti.
206.	(transition* adj10 (care or service? or center? or centre? or clinic? or facility or facilities or unit? or department? or patient?)).ab.
207.	((transfer? or transferred or transferral or transferring) adj10 (care or service? or center? or centre? or clinic? or facility or facilities or unit? or department? or patient?)).ab.
208.	(transition* and (adult? adj3 (care or service? or center? or centre? or clinic? or facility or facilities or unit? or department?))).ab.
209.	((transfer? or transferred or transferral or transferring) and (adult? adj3 (care or service? or center? or centre? or clinic? or facility or facilities or unit? or department?))).ab.
210.	(transfer? or transferred or transferral or transferring or transition).ab. and (adult?.ti. or (adult focused or adult oriented).ti,ab.)

211.	(continuity adj3 (care or health care or healthcare or treatment? or therapy or therapies or patient? or "doctor-patient" or nurse patient)).ti,ab.
212.	or/33-47
213.	Qualitative research/ or Narration/ or exp Interviews as Topic/ or exp "Surveys and Questionnaires"/ or Health care surveys/
214.	(qualitative or interview* or focus group* or theme* or questionnaire* or survey*).ti,ab.
215.	(metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*).ti,ab.
216.	or/49-51
217.	26 and 52 and (32 or 48)

Embase (Ovid) search terms

165.	exp epilepsy/
166.	seizure/
167.	epileptic state/
168.	febrile convulsion/
169.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
170.	or/1-5
171.	letter.pt. or letter/
172.	note.pt.
173.	editorial.pt.
174.	case report/ or case study/
175.	(letter or comment*).ti.
176.	or/7-11
177.	randomized controlled trial/ or random*.ti,ab.
178.	12 not 13
179.	animal/ not human/
180.	nonhuman/
181.	exp Animal Experiment/
182.	exp Experimental Animal/
183.	animal model/
184.	exp Rodent/
185.	(rat or rats or mouse or mice).ti.
186.	or/14-21
187.	6 not 22
188.	limit 23 to English language
189.	patient attitude/ or patient preference/ or patient satisfaction/ or consumer attitude/ or needs assessment/

190.	patient information/ or consumer health information/ or patients/ or family/ or caregivers/
191.	((information* or advice or advising or advised or support*) adj3 (patient* or need* or requirement* or assess* or seek* or access* or disseminat*)).ti,ab.
192.	(information* adj2 support*).ti,ab.
193.	((client* or patient* or user* or carer* or consumer* or customer* or parent* or famil* or spouse*) adj2 (attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or inform* or experience or experiences or opinion* or preference* or focus group*)).ti,ab.
194.	patient education/
195.	or/25-30
196.	*patient care/
197.	*patient transport/
198.	patient care planning/
199.	integrated health care system/
200.	shared care.ti,ab.
201.	shared service*.ti,ab.
202.	((healthcare or care or service*) adj3 integrat*).ti,ab.
203.	transition*.ti.
204.	(transfer? or transferred or transferral or transferring).ti.
205.	(transition* adj10 (care or service? or center? or centre? or clinic? or facility or facilities or unit? or department? or patient?)).ab.
206.	((transfer? or transferred or transferral or transferring) adj10 (care or service? or center? or centre? or clinic? or facility or facilities or unit? or department? or patient?)).ab.
207.	(transition* and (adult? adj3 (care or service? or center? or centre? or clinic? or facility or facilities or unit? or department?))).ab.
208.	((transfer? or transferred or transferral or transferring) and (adult? adj3 (care or service? or center? or centre? or clinic? or facility or facilities or unit? or department?))).ab.
209.	(transfer? or transferred or transferal or transferring or transition).ab. and (adult?.ti. or (adult focused or adult oriented).ti,ab.)
210.	(continuity adj3 (care or health care or healthcare or treatment? or therapy or therapies or patient? or "doctor-patient" or nurse patient)).ti,ab.
211.	or/32-46
212.	health survey/ or exp questionnaire/ or exp interview/ or qualitative research/ or narrative/
213.	(qualitative or interview* or focus group* or theme* or questionnaire* or survey*).ti,ab.
214.	(metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*).ti,ab.
215.	or/48-50
216.	24 and 51 and (31 or 47)

CINAHL (EBSCO) search terms

S1.	(MM "Seizures")
S2.	(MH "Status Epilepticus+")
S3.	(MH "Epilepsy+")
S4.	(MH "Convulsions, Febrile")
S5.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome)
S6.	S1 OR S2 OR S3 OR S4 OR S5
S7.	(MH "Consumer Satisfaction+") OR (MH "Patient Education") OR (MH "Health Education")
S8.	((information* or advice or advising or advised or support*) n3 (patient* or need* or requirement* or assess* or seek* or access* or disseminat*))
S9.	(information* n2 support*)
S10.	((client* or patient* or user* or carer* or consumer* or customer*) n2 (attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or inform* or experience or experiences or opinion*))
S11.	S7 OR S8 OR S9 OR S10
S12.	(MH "Qualitative Studies+")
S13.	(MH "Qualitative Validity+")
S14.	(MH "Interviews+") OR (MH "Focus Groups") OR (MH "Surveys") OR (MH "Questionnaires+")
S15.	(qualitative or interview* or focus group* or theme* or questionnaire* or survey*)
S16.	(metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* n3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*)
S17.	S12 OR S13 OR S14 OR S15 OR S16
S18.	S6 AND S11 AND S17

PsycINFO (ProQuest) search terms

1.	(MJMAINSUBJECT.EXACT.EXPLODE("Epilepsy") OR MAINSUBJECT.EXACT("Seizures") OR MAINSUBJECT.EXACT("Status Epilepticus") OR TI,AB(dravet syndrome OR epilep* OR continuous spike wave or slow sleep OR landau kleffner syndrome OR lennox gastaut syndrome OR infant* spasm* OR seizure* OR west syndrome)) AND (SU.EXACT("Client Education") OR SU.EXACT.EXPLODE("Client Attitudes") OR TI,AB((information* OR advice OR advising OR advised OR support*) NEAR/3 (patient* OR need* OR requirement* OR assess* OR seek* OR access* OR disseminat*)) OR TI,AB(information* NEAR/2 support*) OR TI,AB((client* OR patient* OR user* OR carer* OR consumer* OR customer*) NEAR/2 (attitud* OR priorit* OR perception* OR preferen* OR expectation* OR choice* OR perspective* OR view* OR satisfact* OR inform* OR experience OR experiences OR opinion*))) AND ((su.exact.explode("qualitative methods") OR su.exact("narratives") OR su.exact.explode("questionnaires") OR su.exact.explode("interviews") OR su.exact.explode("health care services") OR ti,ab(qualitative OR interview* OR focus group* OR theme* OR questionnaire* OR survey*) OR ti,ab(metasynthes* OR meta-synthes* OR metasummar* OR meta-summar* OR metastud* OR meta-stud* OR metathem* OR meta-them* OR ethno* OR emic OR etic OR phenomenolog* OR grounded theory OR constant compar* OR (thematic* NEAR/3 analys*) OR theoretical-sampl* OR purposive-sampl* OR
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	hermeneutic* OR heidegger* OR husserl* OR colaizzi* OR van kaam* OR van manen* OR giorgi* OR glaser* OR strauss* OR ricoeur* OR spiegelberg* OR merleau*))Limits applied
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1.4 Epilepsies search strategy 4_Monitoring (G)

This literature search strategy was used for the following review:

- When should monitoring be carried out for people with epilepsy? How should monitoring be carried out for people with epilepsy, and who should do it?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.4.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 6: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 07 May 2020	Randomised controlled trials Systematic review studies Exclusions
Embase (OVID)	1974 – 07 May 2020	Randomised controlled trials Systematic review studies Exclusions
The Cochrane Library (Wiley)	Cochrane Reviews to 2020 Issue 5 of 12 CENTRAL to 2020 Issue 5 of 12	None
Epistemonikos (The Epistemonikos Foundation)	Inception to 07 May 2020	Systematic review studies

Medline (Ovid) search terms

218.	exp epilepsy/
219.	seizures/
220.	exp status epilepticus/
221.	seizures, febrile/
222.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.

223.	or/1-5
224.	letter/
225.	editorial/
226.	news/
227.	exp historical article/
228.	Anecdotes as Topic/
229.	comment/
230.	case report/
231.	(letter or comment*).ti.
232.	or/7-14
233.	randomized controlled trial/ or random*.ti,ab.
234.	15 not 16
235.	animals/ not humans/
236.	exp Animals, Laboratory/
237.	exp Animal Experimentation/
238.	exp Models, Animal/
239.	exp Rodentia/
240.	(rat or rats or mouse or mice).ti.
241.	or/17-23
242.	6 not 24
243.	limit 25 to English language
244.	Monitoring, Physiologic/ or Monitoring, Ambulatory/ or Neurophysiological Monitoring/
245.	monitor*.ti,ab.
246.	Patient compliance/ or Medication Adherence/ or Drug Monitoring/
247.	exp Patient Outcome Assessment/
248.	("patient reported outcome measures" or PROM).ti,ab.
249.	"Continuity of Patient Care"/
250.	patient care/
251.	"Delivery of Health Care, Integrated"/
252.	critical pathways/
253.	((care or clinical or critical or patient*) adj2 manag*).ti,ab.
254.	Telemetry/ or Telemedicine/
255.	(telemonitor* or telemedicine or telehealth or tele medicine or tele health or smartphone* or smart phone or ipad* or iphone* or device* or virtual or remote or wireless or internet or wifi or wi fi).ti,ab.
256.	exp "Appointments and Schedules"/
257.	Self Care/
258.	(self adj (care or caring or manag* or checkup or check* up or assess* or test* or evaluat*).ti,ab.

259.	((surveillian* or review* or assess* or test* or evaluat* or program* or observed or observation* or provision or strateg* or clinic or clinics or pattern* or followup* or follow up* or checkup or check up* or appointment*) adj3 (timing* or timed or time point* or times or duration or interval* or year* or annual* or biannual or month* or period* or frequen* or infrequent* or continu* or intermittent or irregular or routine* or regular* or schedul* or longterm or long term or short-term or short term or early or earliest * or proactiv* or special* or nurse* or general practi* or GP or family practi* or doctor* or medical or physician* or patient* or outpatient* or out-patient*)).ti,ab.
260.	((drug* or medication* or pharm*) adj (compliance or complying or adher*)).ti,ab.
261.	or/27-43
262.	26 and 44
263.	randomized controlled trial.pt.
264.	controlled clinical trial.pt.
265.	randomi#ed.ti,ab.
266.	placebo.ab.
267.	randomly.ti,ab.
268.	Clinical Trials as topic.sh.
269.	trial.ti.
270.	or/46-52
271.	Meta-Analysis/
272.	exp Meta-Analysis as Topic/
273.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
274.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
275.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
276.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
277.	(search* adj4 literature).ab.
278.	(medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
279.	cochrane.jw.
280.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
281.	or/54-63
282.	45 and (53 or 64)

Embase (Ovid) search terms

217.	exp epilepsy/
218.	seizure/
219.	epileptic state/
220.	febrile convulsion/
221.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.

222.	or/1-5
223.	letter.pt. or letter/
224.	note.pt.
225.	editorial.pt.
226.	case report/ or case study/
227.	(letter or comment*).ti.
228.	or/7-11
229.	randomized controlled trial/ or random*.ti,ab.
230.	12 not 13
231.	animal/ not human/
232.	nonhuman/
233.	exp Animal Experiment/
234.	exp Experimental Animal/
235.	animal model/
236.	exp Rodent/
237.	(rat or rats or mouse or mice).ti.
238.	or/14-21
239.	6 not 22
240.	limit 23 to English language
241.	*physiologic monitoring/
242.	*ambulatory monitoring/
243.	*neurophysiological monitoring/
244.	monitor*.ti,ab.
245.	*patient compliance/
246.	*medication compliance/
247.	*drug monitoring/
248.	*outcome assessment/
249.	("patient reported outcome measures" or PROM).ti,ab.
250.	*patient care/
251.	*integrated health care system/
252.	*clinical pathway/
253.	((care or clinical or critical or patient*) adj2 manag*).ti,ab.
254.	*telemetry/
255.	*telemedicine/
256.	(telemonitor* or telemedicine or telehealth or tele medicine or tele health or smartphone* or smart phone or ipad* or iphone* or device* or virtual or remote or wireless or internet or wifi or wi fi).ti,ab.
257.	*hospital management/
258.	*self care/

259.	(self adj (care or caring or manag* or checkup or check* up or assess* or test* or evaluat*)).ti,ab.
260.	((survellian* or review* or assess* or test* or evaluat* or program* or observed or observation* or provision or strateg* or clinic or clinics or pattern* or followup* or follow up* or checkup or check up* or appointment*) adj3 (timing* or timed or time point* or times or duration or interval* or year* or annual* or biannual or month* or period* or frequen* or infrequent* or continu* or intermittent or irregular or routine* or regular* or schedul* or longterm or long term or short-term or short term or early or earliest * or proactiv* or special* or nurse* or general practi* or GP or family practi* or doctor* or medical or physician* or patient* or outpatient* or out-patient*)).ti,ab.
261.	((drug* or medication* or pharm*) adj (compliance or complying or adher*)).ti,ab.
262.	or/25-45
263.	24 and 46
264.	random*.ti,ab.
265.	factorial*.ti,ab.
266.	(crossover* or cross over*).ti,ab.
267.	((doubl* or singl*) adj blind*).ti,ab.
268.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
269.	crossover procedure/
270.	single blind procedure/
271.	randomized controlled trial/
272.	double blind procedure/
273.	or/48-56
274.	systematic review/
275.	meta-analysis/
276.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
277.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
278.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
279.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
280.	(search* adj4 literature).ab.
281.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
282.	cochrane.jw.
283.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
284.	or/58-67
285.	47 and (57 or 68)

Cochrane Library (Wiley) search terms

#75.	MeSH descriptor: [Epilepsy] explode all trees
#76.	MeSH descriptor: [Seizures] this term only
#77.	MeSH descriptor: [Status Epilepticus] explode all trees

#78.	MeSH descriptor: [Seizures, Febrile] this term only
#79.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome):ti,ab
#80.	(or #4-#5)
#81.	MeSH descriptor: [Monitoring, Physiologic] this term only
#82.	MeSH descriptor: [Monitoring, Ambulatory] this term only
#83.	MeSH descriptor: [Neurophysiological Monitoring] this term only
#84.	monitor*:ti,ab
#85.	MeSH descriptor: [Patient Compliance] this term only
#86.	MeSH descriptor: [Medication Adherence] this term only
#87.	MeSH descriptor: [Drug Monitoring] this term only
#88.	MeSH descriptor: [Patient Outcome Assessment] explode all trees
#89.	("patient reported outcome measures" or PROM):ti,ab
#90.	MeSH descriptor: [Continuity of Patient Care] this term only
#91.	MeSH descriptor: [Patient Care] this term only
#92.	MeSH descriptor: [Delivery of Health Care, Integrated] this term only
#93.	MeSH descriptor: [Critical Pathways] this term only
#94.	((care or clinical or critical or patient*) near/2 manag*):ti,ab
#95.	MeSH descriptor: [Telemetry] this term only
#96.	MeSH descriptor: [Telemedicine] this term only
#97.	(telemonitor* or telemedicine or telehealth or tele medicine or tele health or smartphone* or smart phone or ipad* or iphone* or device* or virtual or remote or wireless or internet or wifi or wi fi):ti,ab
#98.	MeSH descriptor: [Appointments and Schedules] explode all trees
#99.	MeSH descriptor: [Self Care] this term only
#100.	(self near (care or caring or manag* or checkup or check* up or assess* or test* or evaluat*)):ti,ab
#101.	((survellian* or review* or assess* or test* or evaluat* or program* or observed or observation* or provision or strateg* or clinic or clinics or pattern* or followup* or follow up* or checkup or check up* or appointment*) near/3 (timing* or timed or time point* or times or duration or interval* or year* or annual* or biannual or month* or period* or frequen* or infrequent* or continu* or intermittent or irregular or routine* or regular* or schedul* or longterm or long term or short-term or short term or early or earliest* or proactiv* or special* or nurse* or general practi* or GP or family practi* or doctor* or medical or physician* or patient* or outpatient* or out-patient*)):ti,ab
#102.	((drug* or medication* or pharm*) near (compliance or complying or adher*)):ti,ab
#103.	(or #7-#27)
#104.	#6 and #29

Epistemonikos search terms

2.	(title:(monitor*) OR abstract:(monitor*)) AND (title:((title:((epilepsies OR epilepsy)) OR abstract:((epilepsies OR epilepsy)))) OR abstract:((title:((epilepsies OR epilepsy)) OR abstract:((epilepsies OR epilepsy))))
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1.4.2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Epilepsies population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics and quality of life studies.

Table 7: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1946 – 13 May 2021	Exclusions
Embase	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1974 – 13 May 2021	Exclusions
Centre for Research and Dissemination (CRD)	HTA - Inception – 13 May 2021 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

127.	exp epilepsy/
128.	seizures/
129.	exp status epilepticus/
130.	seizures, febrile/
131.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
132.	or/1-5
133.	letter/
134.	editorial/
135.	news/
136.	exp historical article/
137.	Anecdotes as Topic/
138.	comment/

139.	case report/
140.	(letter or comment*).ti.
141.	or/7-14
142.	randomized controlled trial/ or random*.ti,ab.
143.	15 not 16
144.	animals/ not humans/
145.	exp Animals, Laboratory/
146.	exp Animal Experimentation/
147.	exp Models, Animal/
148.	exp Rodentia/
149.	(rat or rats or mouse or mice).ti.
150.	or/17-23
151.	6 not 24
152.	limit 25 to English language
153.	Economics/
154.	Value of life/
155.	exp "Costs and Cost Analysis"/
156.	exp Economics, Hospital/
157.	exp Economics, Medical/
158.	Economics, Nursing/
159.	Economics, Pharmaceutical/
160.	exp "Fees and Charges"/
161.	exp Budgets/
162.	budget*.ti,ab.
163.	cost*.ti.
164.	(economic* or pharmaco?economic*).ti.
165.	(price* or pricing*).ti,ab.
166.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
167.	(financ* or fee or fees).ti,ab.
168.	(value adj2 (money or monetary)).ti,ab.
169.	or/27-42
170.	quality-adjusted life years/
171.	sickness impact profile/
172.	(quality adj2 (wellbeing or well being)).ti,ab.
173.	sickness impact profile.ti,ab.
174.	disability adjusted life.ti,ab.
175.	(qal* or qtime* or qwb* or daly*).ti,ab.
176.	(euroqol* or eq5d* or eq 5*).ti,ab.
177.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.

178.	(hui or hui1 or hui2 or hui3).ti,ab.
179.	(health* year* equivalent* or hye or hyes).ti,ab.
180.	discrete choice*.ti,ab.
181.	rosser.ti,ab.
182.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
183.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
184.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
185.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
186.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
187.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
188.	or/44-61
189.	26 and (43 or 62)

Embase (Ovid) search terms

119.	exp *epilepsy/
120.	*landau kleffner syndrome/
121.	exp *seizure/
122.	"seizure, epilepsy and convulsion"/
123.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
124.	or/1-5
125.	letter.pt. or letter/
126.	note.pt.
127.	editorial.pt.
128.	case report/ or case study/
129.	(letter or comment*).ti.
130.	or/7-11
131.	randomized controlled trial/ or random*.ti,ab.
132.	12 not 13
133.	animal/ not human/
134.	nonhuman/
135.	exp Animal Experiment/
136.	exp Experimental Animal/
137.	animal model/
138.	exp Rodent/
139.	(rat or rats or mouse or mice).ti.
140.	or/15-21
141.	6 not 22
142.	limit 23 to English language

143.	health economics/
144.	exp economic evaluation/
145.	exp health care cost/
146.	exp fee/
147.	budget/
148.	funding/
149.	budget*.ti,ab.
150.	cost*.ti.
151.	(economic* or pharmaco?economic*).ti.
152.	(price* or pricing*).ti,ab.
153.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
154.	(financ* or fee or fees).ti,ab.
155.	(value adj2 (money or monetary)).ti,ab.
156.	or/25-37
157.	quality adjusted life year/
158.	sickness impact profile/
159.	(quality adj2 (wellbeing or well being)).ti,ab.
160.	sickness impact profile.ti,ab.
161.	disability adjusted life.ti,ab.
162.	(qal* or qtime* or qwb* or daly*).ti,ab.
163.	(euroqol* or eq5d* or eq 5*).ti,ab.
164.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
165.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
166.	(hui or hui1 or hui2 or hui3).ti,ab.
167.	(health* year* equivalent* or hye or hyes).ti,ab.
168.	discrete choice*.ti,ab.
169.	rosser.ti,ab.
170.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
171.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
172.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
173.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
174.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
175.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
176.	or/39-57
177.	24 and (38 or 58)

NHS EED and HTA (CRD) search terms

#13.	MeSH DESCRIPTOR Epilepsy EXPLODE ALL TREES
#14.	MeSH DESCRIPTOR Seizures EXPLODE ALL TREES
#15.	MeSH DESCRIPTOR Status Epilepticus EXPLODE ALL TREES

#16.	MeSH DESCRIPTOR Seizures, Febrile EXPLODE ALL TREES
#17.	((dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome))
#18.	#1 OR #2 OR #3 OR #4 OR #5

1.5 Epilepsies search strategy 5_New Technologies (E)

This literature search strategy was used for the following review:

- What is the clinical and cost effectiveness of digital health technologies (for example, night monitors, wearable devices and Apps) in people with epilepsy?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.5.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 8: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 13 May 2021	Randomised controlled trials Systematic review studies Exclusions
Embase (OVID)	1974 – 13 May 2021	Randomised controlled trials Systematic review studies Exclusions
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 5 of 12 CENTRAL to 2021 Issue 5 of 12	None

Medline (Ovid) search terms

283.	exp epilepsy/
284.	seizures/
285.	exp status epilepticus/
286.	seizures, febrile/
287.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
288.	or/1-5
289.	letter/
290.	editorial/
291.	news/

292.	exp historical article/
293.	Anecdotes as Topic/
294.	comment/
295.	case report/
296.	(letter or comment*).ti.
297.	or/7-14
298.	randomized controlled trial/ or random*.ti,ab.
299.	15 not 16
300.	animals/ not humans/
301.	exp Animals, Laboratory/
302.	exp Animal Experimentation/
303.	exp Models, Animal/
304.	exp Rodentia/
305.	(rat or rats or mouse or mice).ti.
306.	or/17-23
307.	6 not 24
308.	limit 25 to English language
309.	randomized controlled trial.pt.
310.	controlled clinical trial.pt.
311.	randomi#ed.ti,ab.
312.	placebo.ab.
313.	randomly.ti,ab.
314.	Clinical Trials as topic.sh.
315.	trial.ti.
316.	or/27-33
317.	Meta-Analysis/
318.	exp Meta-Analysis as Topic/
319.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
320.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
321.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
322.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
323.	(search* adj4 literature).ab.
324.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
325.	cochrane.jw.
326.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
327.	or/35-44
328.	exp mobile applications/
329.	exp monitoring, ambulatory/

330.	exp smartphone/
331.	telemedicine/
332.	digital health technolog*.ti,ab.
333.	((digital or wearable or track* or fall* or vital sign* or movement or moving or bed or mattress or night*) adj3 (device* or alert* or detect* or alarm* or sensor* or technolog*)).ti,ab.
334.	(monitor* adj3 (device* or alarm* or sensor* or technolog* or digital or wearable or track* or fall* or vital sign* or movement or moving or bed or mattress or nocturnal or night*)).ti,ab.
335.	(Mobile electroencephalogr* or mobile EEG or ambulatory monitor*).ti,ab.
336.	((handheld or hand held or portable) adj3 (sensor* or alarm* or app or apps or application*)).ti,ab.
337.	((mobile or phone or tech* or monitor* or alert* or detect*) adj2 ("app" or "apps" or application)).ti,ab.
338.	(smart phone* or smartphone*).ti,ab.
339.	((application or "app" or "apps" or mobile* or phone*) adj3 (self management or self care)).ti,ab.
340.	(smartwatch or smart watch or "embrace* and alert app" or "Epilert" or "neuronaute" or "esap" or "neuromedic" or "mycarecentric epilepsy" or "periictal cardiorespiratory detection devices" or Nexfin or "EpSMon" or "young epilepsy app" or "Epiwatch research kit" or "nightwatch" or "Neutun" or "Seizalarm" or "texting 4 control" or "emfit" or "epi-care" or "varia").ti,ab.
341.	(telemedicine or tele-medicine or tele-care or telecare or tele-nurs* or telenurs* or ehealth or e-health or mhealth or m-health or mobile health).ti,ab.
342.	Decision Support Systems, Clinical/
343.	((data collection or data calculation or artificial intelligence) and decision making).ti,ab.
344.	(decision* adj2 (support* or system*)).ti,ab.
345.	or/46-62
346.	26 and 63 and (34 or 45)

Embase (Ovid) search terms

286.	exp epilepsy/
287.	seizure/
288.	epileptic state/
289.	febrile convulsion/
290.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
291.	or/1-5
292.	letter.pt. or letter/
293.	note.pt.
294.	editorial.pt.
295.	case report/ or case study/
296.	(letter or comment*).ti.
297.	or/7-11

298.	randomized controlled trial/ or random*.ti,ab.
299.	12 not 13
300.	animal/ not human/
301.	nonhuman/
302.	exp Animal Experiment/
303.	exp Experimental Animal/
304.	animal model/
305.	exp Rodent/
306.	(rat or rats or mouse or mice).ti.
307.	or/14-21
308.	6 not 22
309.	Limit 23 to English language
310.	random*.ti,ab.
311.	factorial*.ti,ab.
312.	(crossover* or cross over*).ti,ab.
313.	((doubl* or singl*) adj blind*).ti,ab.
314.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
315.	crossover procedure/
316.	single blind procedure/
317.	randomized controlled trial/
318.	double blind procedure/
319.	or/25-33
320.	systematic review/
321.	meta-analysis/
322.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
323.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
324.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
325.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
326.	(search* adj4 literature).ab.
327.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
328.	cochrane.jw.
329.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
330.	or/35-44
331.	exp mobile application/
332.	exp ambulatory monitoring/
333.	smartphone/ or mobile phone/
334.	telemedicine/
335.	digital health technolog*.ti,ab.

336.	((digital or wearable or track* or fall* or vital sign* or movement or moving or bed or mattress or night*) adj3 (device* or alert* or detect* or alarm* or sensor* or technolog*)).ti,ab.
337.	(monitor* adj3 (device* or alarm* or sensor* or technolog* or digital or wearable or track* or fall* or vital sign* or movement or moving or bed or mattress or nocturnal or night*)).ti,ab.
338.	(Mobile electroencephalogr* or mobile EEG or ambulatory monitor*).ti,ab.
339.	((handheld or hand held or portable) adj3 (sensor* or alarm* or app or apps or application*)).ti,ab.
340.	((mobile or phone or tech* or monitor* or alert* or detect*) adj2 ("app" or "apps" or application)).ti,ab.
341.	(smart phone* or smartphone*).ti,ab.
342.	((application or "app" or "apps" or mobile* or phone*) adj3 (self management or self care)).ti,ab.
343.	(smartwatch or smart watch or "embrace* and alert app" or "Epilert" or "neuronaute" or "esap" or "neuromedic" or "mycarecentric epilepsy" or "periictal cardiorespiratory detection devices" or Nexfin or "EpSMon" or "young epilepsy app" or "Epiwatch research kit" or "nightwatch" or "Neutun" or "Seizalarm" or "texting 4 control" or "emfit" or "epi-care" or "varia").ti,ab.
344.	(telemedicine or tele-medicine or tele-care or telecare or tele-nurs* or telenurs* or ehealth or e-health or mhealth or m-health or mobile health).ti,ab.
345.	clinical decision support system/
346.	((data collection or data calculation or artificial intelligence) and decision making).ti,ab.
347.	(decision* adj2 (support* or system*)).ti,ab.
348.	or/46-62
349.	24 and 63 and (34 or 45)

Cochrane Library (Wiley) search terms

#105.	MeSH descriptor: [Epilepsy] explode all trees
#106.	MeSH descriptor: [Seizures] explode all trees
#107.	MeSH descriptor: [Status Epilepticus] explode all trees
#108.	MeSH descriptor: [Seizures, Febrile] explode all trees
#109.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome):ti,ab
#110.	(or #1-#5)
#111.	MeSH descriptor: [Mobile Applications] explode all trees
#112.	MeSH descriptor: [Monitoring, Ambulatory] explode all trees
#113.	MeSH descriptor: [Smartphone] explode all trees
#114.	MeSH descriptor: [Telemedicine] explode all trees
#115.	digital health technolog*:ti,ab
#116.	((digital or wearable or track* or fall* or vital sign* or movement or moving or bed or mattress or night*) near/3 (device* or alert* or detect* or alarm* or sensor* or technolog*)):ti,ab
#117.	(monitor* near/3 (device* or alarm* or sensor* or technolog* or digital or wearable or track* or fall* or vital sign* or movement or moving or bed or mattress or nocturnal or night*)):ti,ab
#118.	(Mobile electroencephalogr* or mobile EEG or ambulatory monitor*):ti,ab

#119.	((handheld or hand held or portable) near/3 (sensor* or alarm* or app or apps or application*)):ti,ab
#120.	((mobile or phone or tech* or monitor* or alert* or detect*) near/2 ("app" or "apps" or application)):ti,ab
#121.	(smart phone* or smartphone*):ti,ab
#122.	((application or "app" or "apps" or mobile* or phone*) near/3 (self management or self care)):ti,ab
#123.	(smartwatch or smart watch or "embrace* and alert app" or "Epilert" or "neuronaute" or "esap" or "neuromedic" or "mycarecentric epilepsy" or "periictal cardiorespiratory detection devices" or Nexfin or "EpSMon" or "young epilepsy app" or "Epiwatch research kit" or "nightwatch" or "Neutun" or "Seizalarm" or "texting 4 control" or "emfit" or "epi-care" or "varia"):ti,ab
#124.	(telemedicine or tele-medicine or tele-care or telecare or tele-nurs* or telenurs* or ehealth or e-health or mhealth or m-health or mobile health):ti,ab
#125.	MeSH descriptor: [Decision Support Systems, Clinical] explode all trees
#126.	((data collection or data calculation or artificial intelligence) and decision making):ti,ab
#127.	(decision* near/2 (support* or system*)):ti,ab
#128.	(or #7-#23)
#129.	#6 and #24

1.5.2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Epilepsies population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics and quality of life studies.

Table 9: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1946 – 13 May 2021	Exclusions
Embase	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1974 – 13 May 2021	Exclusions
Centre for Research and Dissemination (CRD)	HTA - Inception – 13 May 2021 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

190.	exp epilepsy/
191.	seizures/
192.	exp status epilepticus/
193.	seizures, febrile/
194.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
195.	or/1-5
196.	letter/
197.	editorial/
198.	news/
199.	exp historical article/
200.	Anecdotes as Topic/
201.	comment/
202.	case report/
203.	(letter or comment*).ti.
204.	or/7-14
205.	randomized controlled trial/ or random*.ti,ab.
206.	15 not 16
207.	animals/ not humans/
208.	exp Animals, Laboratory/
209.	exp Animal Experimentation/
210.	exp Models, Animal/
211.	exp Rodentia/
212.	(rat or rats or mouse or mice).ti.
213.	or/17-23
214.	6 not 24
215.	limit 25 to English language
216.	Economics/
217.	Value of life/
218.	exp "Costs and Cost Analysis"/
219.	exp Economics, Hospital/
220.	exp Economics, Medical/
221.	Economics, Nursing/
222.	Economics, Pharmaceutical/
223.	exp "Fees and Charges"/
224.	exp Budgets/
225.	budget*.ti,ab.
226.	cost*.ti.

227.	(economic* or pharmaco?economic*).ti.
228.	(price* or pricing*).ti,ab.
229.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
230.	(financ* or fee or fees).ti,ab.
231.	(value adj2 (money or monetary)).ti,ab.
232.	or/27-42
233.	quality-adjusted life years/
234.	sickness impact profile/
235.	(quality adj2 (wellbeing or well being)).ti,ab.
236.	sickness impact profile.ti,ab.
237.	disability adjusted life.ti,ab.
238.	(qal* or qtime* or qwb* or daly*).ti,ab.
239.	(euroqol* or eq5d* or eq 5*).ti,ab.
240.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
241.	(hui or hui1 or hui2 or hui3).ti,ab.
242.	(health* year* equivalent* or hye or hyes).ti,ab.
243.	discrete choice*.ti,ab.
244.	rosser.ti,ab.
245.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
246.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
247.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
248.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
249.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
250.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
251.	or/44-61
252.	26 and (43 or 62)

Embase (Ovid) search terms

178.	exp *epilepsy/
179.	*landau kleffner syndrome/
180.	exp *seizure/
181.	"seizure, epilepsy and convulsion"/
182.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
183.	or/1-5
184.	letter.pt. or letter/
185.	note.pt.
186.	editorial.pt.
187.	case report/ or case study/

188.	(letter or comment*).ti.
189.	or/7-11
190.	randomized controlled trial/ or random*.ti,ab.
191.	12 not 13
192.	animal/ not human/
193.	nonhuman/
194.	exp Animal Experiment/
195.	exp Experimental Animal/
196.	animal model/
197.	exp Rodent/
198.	(rat or rats or mouse or mice).ti.
199.	or/15-21
200.	6 not 22
201.	limit 23 to English language
202.	health economics/
203.	exp economic evaluation/
204.	exp health care cost/
205.	exp fee/
206.	budget/
207.	funding/
208.	budget*.ti,ab.
209.	cost*.ti.
210.	(economic* or pharmaco?economic*).ti.
211.	(price* or pricing*).ti,ab.
212.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
213.	(financ* or fee or fees).ti,ab.
214.	(value adj2 (money or monetary)).ti,ab.
215.	or/25-37
216.	quality adjusted life year/
217.	sickness impact profile/
218.	(quality adj2 (wellbeing or well being)).ti,ab.
219.	sickness impact profile.ti,ab.
220.	disability adjusted life.ti,ab.
221.	(qal* or qtime* or qwb* or daly*).ti,ab.
222.	(euroqol* or eq5d* or eq 5*).ti,ab.
223.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
224.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
225.	(hui or hui1 or hui2 or hui3).ti,ab.
226.	(health* year* equivalent* or hye or hyes).ti,ab.

227.	discrete choice*.ti,ab.
228.	rosser.ti,ab.
229.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
230.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
231.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
232.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
233.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
234.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
235.	or/39-57
236.	24 and (38 or 58)

NHS EED and HTA (CRD) search terms

#19.	MeSH DESCRIPTOR Epilepsy EXPLODE ALL TREES
#20.	MeSH DESCRIPTOR Seizures EXPLODE ALL TREES
#21.	MeSH DESCRIPTOR Status Epilepticus EXPLODE ALL TREES
#22.	MeSH DESCRIPTOR Seizures, Febrile EXPLODE ALL TREES
#23.	((dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome))
#24.	#1 OR #2 OR #3 OR #4 OR #5

1.6 Epilepsies search strategy 6_Prevalence of psychological disorders (O)

This literature search strategy was used for the following review:

- What is the prevalence of depression, anxiety, intellectual disability, developmental difficulties and cognitive difficulties in people with epilepsies?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual.{NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.6.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 10: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 18 February 2021	Systematic review studies Exclusions
Embase (OVID)	1974 – 18 February 2021	Systematic review studies Exclusions
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 2 of 12 CENTRAL to 2021 Issue 2 of 12	None
PsycINFO (ProQuest)	Inception – 18 February 2021	Systematic review studies

Medline (Ovid) search terms

347.	exp epilepsy/
348.	seizures/
349.	exp status epilepticus/
350.	seizures, febrile/
351.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
352.	or/1-5
353.	letter/
354.	editorial/
355.	news/
356.	exp historical article/
357.	Anecdotes as Topic/
358.	comment/
359.	case report/
360.	(letter or comment*).ti.
361.	or/7-14
362.	randomized controlled trial/ or random*.ti,ab.
363.	15 not 16
364.	animals/ not humans/
365.	exp Animals, Laboratory/
366.	exp Animal Experimentation/
367.	exp Models, Animal/
368.	exp Rodentia/
369.	(rat or rats or mouse or mice).ti.
370.	or/17-23

371.	6 not 24
372.	limit 25 to English language
373.	Meta-Analysis/
374.	exp Meta-Analysis as Topic/
375.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
376.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
377.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
378.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
379.	(search* adj4 literature).ab.
380.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
381.	cochrane.jw.
382.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
383.	or/27-36
384.	cognitive dysfunction/
385.	((cognit* or neurocognit*) adj (dysfunction* or impair* or defec* or declin* or disorder* or deteriorat* or deficit* or difficult* or disabilit* or disabl*)).ti,ab.
386.	depression/ or depressive disorder/
387.	anxiety/
388.	(anxiet* or anxious or depression or low mood or tearfulness or nervousness or sadness or depress* or melanchol*).ti,ab.
389.	exp Mental Disorders/
390.	((concentrat* or memory) adj2 (disorder* or difficult* or poor or lack* or impair* or disabilit* or disable*)).ti,ab.
391.	((attention or behavior* or behaviour* or intellectual* or language or neurodevelopment* or neurological* or perception or psych* or learning) adj3 (deficit* or difficult* or disabilit* or disabl* or disorder* or impair* or declin* or deteriorat*)).ti,ab.
392.	(mental* adj3 (illness or ill or disorder* or factor* or impairment*)).ti,ab.
393.	((psychiatric or psychological*) adj3 (illness or ill or factor*)).ti,ab.
394.	Learning Disabilities/
395.	dementia/ or alzheimer disease/
396.	(alzheimer* or dement*).ti,ab.
397.	Psychotic Disorders/
398.	(psychotic* or psychoses or psychosis).ti,ab.
399.	or/38-52
400.	26 and 37 and 53

Embase (Ovid) search terms

350.	exp *epilepsy/
351.	*landau kleffner syndrome/

352.	exp *seizure/
353.	"seizure, epilepsy and convulsion"/
354.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
355.	or/1-5
356.	letter.pt. or letter/
357.	note.pt.
358.	editorial.pt.
359.	case report/ or case study/
360.	(letter or comment*).ti.
361.	or/7-11
362.	randomized controlled trial/ or random*.ti,ab.
363.	12 not 13
364.	animal/ not human/
365.	nonhuman/
366.	exp Animal Experiment/
367.	exp Experimental Animal/
368.	animal model/
369.	exp Rodent/
370.	(rat or rats or mouse or mice).ti.
371.	or/15-21
372.	6 not 22
373.	limit 23 to English language
374.	systematic review/
375.	meta-analysis/
376.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
377.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
378.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
379.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
380.	(search* adj4 literature).ab.
381.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
382.	cochrane.jw.
383.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
384.	or/25-34
385.	*cognitive defect/
386.	((cognit* or neurocognit*) adj (dysfunction* or impair* or defec* or declin* or disorder* or deteriorat* or deficit* or difficult* or disabilit* or disabl*)).ti,ab.
387.	depression/

388.	*anxiety/
389.	(anxiet* or anxious or depression or low mood or tearfulness or nervousness or sadness or depress* or melanchol*).ti,ab.
390.	exp mental disease/
391.	((concentrat* or memory) adj2 (disorder* or difficult* or poor or lack* or impair* or disabilit* or disable*)):ti,ab.
392.	((attention or behavior* or behaviour* or intellectual* or language or neurodevelopment* or neurological* or perception or psych* or learning) adj3 (deficit* or difficult* or disabilit* or disabl* or disorder* or impair* or declin* or deteriorat*)):ti,ab.
393.	(mental* adj3 (illness or ill or disorder* or factor* or impairment*)):ti,ab.
394.	((psychiatric or psychological*) adj3 (illness or ill or factor*)):ti,ab.
395.	learning disorder/
396.	dementia/
397.	(alzheimer* or dement*).ti,ab.
398.	psychosis/
399.	(psychotic* or psychoses or psychosis).ti,ab.
400.	or/36-50
401.	24 and 35 and 51

Cochrane Library (Wiley) search terms

#130.	MeSH descriptor: [Epilepsy] explode all trees
#131.	MeSH descriptor: [Seizures] this term only
#132.	MeSH descriptor: [Status Epilepticus] explode all trees
#133.	MeSH descriptor: [Seizures, Febrile] this term only
#134.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome):ti,ab
#135.	(or #1-#5)
#136.	MeSH descriptor: [Cognitive Dysfunction] explode all trees
#137.	((cognit* or neurocognit*) near/1 (dysfunction* or impair* or defec* or declin* or disorder* or deteriorat* or deficit* or difficult* or disabilit* or disabl*)):ti,ab
#138.	MeSH descriptor: [Depression] explode all trees
#139.	MeSH descriptor: [Anxiety] explode all trees
#140.	(anxiet* or anxious or depression or low mood or tearfulness or nervousness or sadness or depress* or melanchol*):ti,ab
#141.	MeSH descriptor: [Mental Disorders] explode all trees
#142.	((concentrat* or memory) near/2 (disorder* or difficult* or poor or lack* or impair* or disabilit* or disable*)):ti,ab
#143.	((attention or behavior* or behaviour* or intellectual* or language or neurodevelopment* or neurological* or perception or psych* or learning) near/3 (deficit* or difficult* or disabilit* or disabl* or disorder* or impair* or declin* or deteriorat*)):ti,ab
#144.	(mental* near/3 (illness or ill or disorder* or factor* or impairment*)):ti,ab

#145.	((psychiatric or psychological*) near/3 (illness or ill or factor*)):ti,ab
#146.	MeSH descriptor: [Learning Disabilities] explode all trees
#147.	MeSH descriptor: [Dementia] explode all trees
#148.	MeSH descriptor: [Alzheimer Disease] explode all trees
#149.	(alzheimer* or dement*):ti,ab
#150.	MeSH descriptor: [Psychotic Disorders] explode all trees
#151.	(psychotic* or psychoses or psychosis):ti,ab
#152.	(or #7-#22)
#153.	#6 and #23

PsycINFO (ProQuest) search terms

2.	((MJMAINSUBJECT.EXACT.EXPLODE("Epilepsy") OR MAINSUBJECT.EXACT("Seizures") OR MAINSUBJECT.EXACT("Status Epilepticus") OR TI,AB(dravet syndrome OR epilep* OR continuous spike wave OR slow sleep OR landau kleffner syndrome OR lennox gastaut syndrome OR infant* spasm* OR seizure* OR west syndrome)) AND ((MAINSUBJECT.EXACT("Cognitive Impairment") OR MAINSUBJECT.EXACT("Major Depression") OR MAINSUBJECT.EXACT("Anxiety") OR MAINSUBJECT.EXACT("Mental Disorders") OR MAINSUBJECT.EXACT("Dementia") OR MAINSUBJECT.EXACT("Alzheimer's Disease") AND MAINSUBJECT.EXACT("Psychosis")) OR TI,AB((cognit* OR neurocognit*) adj (dysfunction* OR impair* OR defec* OR declin* OR disorder* OR deteriorat* OR deficit* OR difficult* OR disabilit* OR disabl*)) OR TI,AB(anxiet* OR anxious OR depression OR low mood OR tearfulness OR nervousness OR sadness OR depress* OR melanchol*) OR TI,AB((concentrat* OR memory) NEAR/2 (disorder* OR difficult* OR poor OR lack* OR impair* OR disabilit* OR disable*)) OR TI,AB((concentrat* OR memory) NEAR/2 (disorder* OR difficult* OR poor OR lack* OR impair* OR disabilit* OR disable*)) OR TI,AB((attention OR behavior* OR behaviour* OR intellectual* OR language OR neurodevelopment* OR neurological* OR perception OR psych* OR learning) NEAR/3 (deficit* OR difficult* OR disabilit* OR disabl* OR disorder* OR impair* OR declin* OR deteriorat*)) OR TI,AB(mental* NEAR/3 (illness OR ill OR disorder* OR factor* OR impairment*)) OR TI,AB((psychiatric OR psychological*) NEAR/3 (illness OR ill OR factor*)) OR TI,AB(alzheimer* or dement*) OR TI,AB(psychotic* OR psychoses OR psychosis))) AND (((SU.EXACT("Literature Review") OR RTYPE(review) OR ti(review) OR me(literature review)) AND (ti,ab(systematic OR evidence OR methodol* OR quantitative*))) OR (SU.EXACT("Meta Analysis") OR ti,ab(meta-analys* OR metanalys* OR metaanalys* OR meta analys*) OR ti,ab((systematic OR evidence* OR methodol* OR quantitative*) NEAR/3 (review* OR overview*)) OR ti,ab((pool* OR combined OR combining) NEAR/2 (data OR trials OR studies OR results)) OR RTYPE(systematic OR meta*) OR ME(meta analysis OR systematic review)))
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1.7 Epilepsies search strategy 7_RISK FACTORS (B, R)

This literature search strategy was used for the following reviews:

- What are the modifiable risk factors for a further seizure after a first seizure, and what is the magnitude of risk of those factors?
- What are the modifiable risk factors for epilepsy-related mortality, including SUDEP, and what is the magnitude of risk of the factors?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.7.1 Clinical search literature search strategy

Searches were constructed using the following approach:

- Population AND risk factor terms

Table 11: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 30 October 2020	Exclusions
Embase (OVID)	1974 – 30 October 2020	Exclusions

Medline (Ovid) search terms

401.	exp epilepsy/
402.	seizures/
403.	exp status epilepticus/
404.	seizures, febrile/
405.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
406.	or/1-5
407.	letter/
408.	editorial/
409.	news/
410.	exp historical article/
411.	Anecdotes as Topic/
412.	comment/
413.	case report/
414.	(letter or comment*).ti.
415.	or/7-14
416.	randomized controlled trial/ or random*.ti,ab.
417.	15 not 16
418.	animals/ not humans/
419.	exp Animals, Laboratory/
420.	exp Animal Experimentation/
421.	exp Models, Animal/
422.	exp Rodentia/
423.	(rat or rats or mouse or mice).ti.
424.	or/17-23

425.	6 not 24
426.	limit 25 to English language
427.	exp risk/
428.	Risk factors/
429.	Prevalence/
430.	Incidence/
431.	(risk* or prevalence* or incidence* or predict* or associat*).ti.
432.	risk factors.ab.
433.	or/27-32
434.	26 and 33

Embase (Ovid) search terms

402.	exp epilepsy/
403.	seizure/
404.	epileptic state/
405.	febrile convulsion/
406.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
407.	or/1-5
408.	letter.pt. or letter/
409.	note.pt.
410.	editorial.pt.
411.	case report/ or case study/
412.	(letter or comment*).ti.
413.	or/7-11
414.	randomized controlled trial/ or random*.ti,ab.
415.	12 not 13
416.	animal/ not human/
417.	nonhuman/
418.	exp Animal Experiment/
419.	exp Experimental Animal/
420.	animal model/
421.	exp Rodent/
422.	(rat or rats or mouse or mice).ti.
423.	or/14-21
424.	6 not 22
425.	limit 23 to English language
426.	risk/
427.	Risk factors/
428.	Prevalence/

429.	Incidence/
430.	(risk* or prevalence* or incidence* or predict* or associat*).ti.
431.	risk factors.ab.
432.	or/25-30
433.	24 and 31

1.7.2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Epilepsies population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics and quality of life studies.

Table 12: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1946 – 13 May 2021	Exclusions
Embase	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1974 – 13 May 2021	Exclusions
Centre for Research and Dissemination (CRD)	HTA - Inception – 13 May 2021 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

253.	exp epilepsy/
254.	seizures/
255.	exp status epilepticus/
256.	seizures, febrile/
257.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
258.	or/1-5
259.	letter/
260.	editorial/
261.	news/

262.	exp historical article/
263.	Anecdotes as Topic/
264.	comment/
265.	case report/
266.	(letter or comment*).ti.
267.	or/7-14
268.	randomized controlled trial/ or random*.ti,ab.
269.	15 not 16
270.	animals/ not humans/
271.	exp Animals, Laboratory/
272.	exp Animal Experimentation/
273.	exp Models, Animal/
274.	exp Rodentia/
275.	(rat or rats or mouse or mice).ti.
276.	or/17-23
277.	6 not 24
278.	limit 25 to English language
279.	Economics/
280.	Value of life/
281.	exp "Costs and Cost Analysis"/
282.	exp Economics, Hospital/
283.	exp Economics, Medical/
284.	Economics, Nursing/
285.	Economics, Pharmaceutical/
286.	exp "Fees and Charges"/
287.	exp Budgets/
288.	budget*.ti,ab.
289.	cost*.ti.
290.	(economic* or pharmaco?economic*).ti.
291.	(price* or pricing*).ti,ab.
292.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
293.	(financ* or fee or fees).ti,ab.
294.	(value adj2 (money or monetary)).ti,ab.
295.	or/27-42
296.	quality-adjusted life years/
297.	sickness impact profile/
298.	(quality adj2 (wellbeing or well being)).ti,ab.
299.	sickness impact profile.ti,ab.
300.	disability adjusted life.ti,ab.

301.	(qal* or qtime* or qwb* or daly*).ti,ab.
302.	(euroqol* or eq5d* or eq 5*).ti,ab.
303.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
304.	(hui or hui1 or hui2 or hui3).ti,ab.
305.	(health* year* equivalent* or hye or hyes).ti,ab.
306.	discrete choice*.ti,ab.
307.	rosser.ti,ab.
308.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
309.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
310.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
311.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
312.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
313.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
314.	or/44-61
315.	26 and (43 or 62)

Embase (Ovid) search terms

237.	exp *epilepsy/
238.	*landau kleffner syndrome/
239.	exp *seizure/
240.	"seizure, epilepsy and convulsion"/
241.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
242.	or/1-5
243.	letter.pt. or letter/
244.	note.pt.
245.	editorial.pt.
246.	case report/ or case study/
247.	(letter or comment*).ti.
248.	or/7-11
249.	randomized controlled trial/ or random*.ti,ab.
250.	12 not 13
251.	animal/ not human/
252.	nonhuman/
253.	exp Animal Experiment/
254.	exp Experimental Animal/
255.	animal model/
256.	exp Rodent/
257.	(rat or rats or mouse or mice).ti.

258.	or/15-21
259.	6 not 22
260.	limit 23 to English language
261.	health economics/
262.	exp economic evaluation/
263.	exp health care cost/
264.	exp fee/
265.	budget/
266.	funding/
267.	budget*.ti,ab.
268.	cost*.ti.
269.	(economic* or pharmaco?economic*).ti.
270.	(price* or pricing*).ti,ab.
271.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
272.	(financ* or fee or fees).ti,ab.
273.	(value adj2 (money or monetary)).ti,ab.
274.	or/25-37
275.	quality adjusted life year/
276.	sickness impact profile/
277.	(quality adj2 (wellbeing or well being)).ti,ab.
278.	sickness impact profile.ti,ab.
279.	disability adjusted life.ti,ab.
280.	(qal* or qtime* or qwb* or daly*).ti,ab.
281.	(euroqol* or eq5d* or eq 5*).ti,ab.
282.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
283.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
284.	(hui or hui1 or hui2 or hui3).ti,ab.
285.	(health* year* equivalent* or hye or hyes).ti,ab.
286.	discrete choice*.ti,ab.
287.	rosser.ti,ab.
288.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
289.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
290.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
291.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
292.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
293.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
294.	or/39-57
295.	24 and (38 or 58)

NHS EED and HTA (CRD) search terms

#25.	MeSH DESCRIPTOR Epilepsy EXPLODE ALL TREES
#26.	MeSH DESCRIPTOR Seizures EXPLODE ALL TREES
#27.	MeSH DESCRIPTOR Status Epilepticus EXPLODE ALL TREES
#28.	MeSH DESCRIPTOR Seizures, Febrile EXPLODE ALL TREES
#29.	((dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome))
#30.	#1 OR #2 OR #3 OR #4 OR #5

1.8 Epilepsies search strategy 8_Safety of AEDs Women and Girls (F)

This literature search strategy was used for the following reviews:

- What AEDs (individually or add-ons) are safe in the treatment of epilepsies in women and girls who are pregnant and already taking AEDs and in those women who are breastfeeding?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual.{NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.8.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 13: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 26 August 2020	Randomised controlled trials Systematic review studies Observational studies Exclusions
Embase (OVID)	1974 – 26 August 2020	Randomised controlled trials Systematic review studies Observational studies Exclusions
The Cochrane Library (Wiley)	Cochrane Reviews to 2020 Issue 8 of 12 CENTRAL to 2020 Issue 8 of 12	None

Database	Dates searched	Search filter used

Medline (Ovid) search terms

435.	exp female/
436.	exp pregnancy/
437.	pregnancy outcome/
438.	exp pregnancy complications/
439.	exp prenatal exposure delayed effects/
440.	postnatal care/
441.	postpartum period/
442.	exp Breast Feeding/
443.	(female* or wom?n or girl or pregnan* or conception or prenatal or pre natal or postnatal or post natal or postpartum or post-partum or conceiv* or breast feed* or breastfeed* or breastfed or breast fed or breast milk or breastmilk or mother* milk or human milk or colostrum).ti,ab.
444.	exp infant newborn/
445.	exp fetal development/
446.	((baby or babies or born or newborn* or infant* or fetal or foetal or fetus or foetus) adj2 (develop* or size or measur* or length)).ti,ab.
447.	exp Birth Weight/
448.	((birth* or baby or babies or born or newborn* or infant*) adj weigh*).ti,ab.
449.	or/1-14
450.	exp Abnormalities, Drug Induced/
451.	exp Congenital abnormalities/
452.	exp Fetal Diseases/
453.	((congenital or birth* or baby or babies or born or newborn* or infant* or fetal or foetal or fetus or foetus or prenatal or pre natal or in utero or intra uterine or intrauterine) adj2 (defec* or deform* or malform* or abnormal* or anomal* or dysmorph* or disease*)).ti,ab.
454.	(drug induced adj2 (defec* or deform* or malform* or abnormal* or anomal* or dysmorph*)).ti,ab.
455.	exp teratogens/
456.	teratogen*.ti,ab.
457.	exp Fetal death/
458.	exp Infant mortality/
459.	Maternal mortality/
460.	((maternal* or mother* or birth* or baby or babies or born or newborn* or infant* or fetal or foetal or fetus) adj2 (mortality or death or dies or died)).ti,ab.
461.	exp Intellectual Disability/
462.	((intellectual* or mental*) adj2 (impair* or disab* or retard*)).ti,ab.
463.	neurodevelopment*.ti,ab.
464.	education* need*.ti,ab.

465.	long* term outcome*.ti,ab.
466.	exp Child Development/
467.	child* develop*.ti,ab.
468.	exp Autistic Disorder/
469.	(autism or autistic).ti,ab.
470.	exp Attention Deficit Disorder with Hyperactivity/
471.	((attenti* adj3 deficit*) or adhd or addh or ad hd or ad??hd).ti,ab.
472.	exp Apraxias/
473.	(apraxia* or dyspraxia*).ti,ab.
474.	exp Memory/
475.	memory.ti,ab.
476.	exp Language Disorders/
477.	((language or speech) adj2 (disorder* or problem*)).ti,ab.
478.	exp Executive Function/
479.	executive function*.ti,ab.
480.	(cognitive or cognition or problem* solving).ti,ab.
481.	exp Neuropsychology/
482.	neuropsycholog*.ti,ab.
483.	exp Intelligence Tests/
484.	((intelligen* or development*) adj2 (test* or quotient* or scale*)).ti,ab.
485.	("Griffiths Mental Development Scales" or "Bayley Scales of Infant and Toddler Development").ti,ab.
486.	("vineland adaptive behaviour scales" or "vineland 3").ti,ab.
487.	(IQ or DQ or GMDS or BSID or VABS).ti,ab.
488.	exp Spinal Dysraphism/
489.	(spinal dysraphism or spina bifidia).ti,ab.
490.	Cleft palate/
491.	(cleft adj (lip* or palate*)).ti,ab.
492.	Clubfoot/
493.	(clubfoot or clubfeet or equinovarus or pie torcido).ti,ab.
494.	((foot or feet) adj2 (defec* or deform* or malform* or abnormal* or anomal* or dysmorph*)).ti,ab.
495.	((urogenital or genitourinary or kidney* or bladder or ureter or urethra or testes or ovaries or sex develop*) adj2 (defec* or deform* or malform* or abnormal* or anomal* or dysmorph*)).ti,ab.
496.	(hydronephrosis or hypospadias or cryptorchidism or epispadias or fraser syndrome or fused kidney or hypospadias or multicystic dysplastic kidney or hereditary nephritis or retrocaval ureter or solitary kidney or urinary fistula).ti,ab.
497.	or/16-62
498.	15 and 63
499.	letter/

500.	editorial/
501.	news/
502.	exp historical article/
503.	Anecdotes as Topic/
504.	comment/
505.	case report/
506.	(letter or comment*).ti.
507.	or/65-72
508.	randomized controlled trial/ or random*.ti,ab.
509.	73 not 74
510.	animals/ not humans/
511.	exp Animals, Laboratory/
512.	exp Animal Experimentation/
513.	exp Models, Animal/
514.	exp Rodentia/
515.	(rat or rats or mouse or mice).ti.
516.	or/75-81
517.	64 not 82
518.	limit 83 to English language
519.	exp epilepsy/
520.	seizures/
521.	exp status epilepticus/
522.	seizures, febrile/
523.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
524.	or/85-89
525.	exp Anticonvulsants/
526.	exp Acetazolamide/
527.	exp Carbamazepine/
528.	exp Chloral hydrate/
529.	exp Clomethiazole/
530.	exp Clonazepam/
531.	exp Clorazepate Dipotassium/
532.	exp Diazepam/
533.	exp Ethosuximide/
534.	exp Levetiracetam/
535.	exp Lorazepam/
536.	exp Mephenytoin/
537.	exp Mephobarbital/

538.	exp Midazolam/
539.	exp Methazolamide/
540.	exp Nitrazepam/
541.	exp Paraldehyde/
542.	exp Pentobarbital/
543.	exp Phenobarbital/
544.	exp Phenytoin/
545.	exp Primidone/
546.	exp Propofol/
547.	exp Temazepam/
548.	exp Thiopental/
549.	exp Topiramate/
550.	exp Trimethadione/
551.	exp Valproic Acid/
552.	exp Vigabatrin/
553.	(antiepilep* or anti-epilep* or anticonvulsant* or AED*1 or Acetazolamide or Alodorm or Antilepsin or Arem or Ativan or Barbexaclone or Beclamide or Brivaracetam or Carbagen or Carbamazepine or Celontin or Cerebyx or Chlonazepam or Chloracon or Cloazepam or Clobazam or Clonazepamum or Clonex or Clonopin or Clorazepate or Convulex or Depacon or Depak* or Depamide or Desitin or Diacomit or Diamox or Diastat or Diazepam or Dilantin or Diphenin* or Diphenylhydantoin or Divalpr* or Dormicum or Ecovia or Emeside or Epanutin or Epiject or Epilim or Episenta or Epival or Eptoin or Ergenyl or Erimin or Eslicarbazepine or Ethadione or Ethosuximide or Ethotoin or Ethylphenacemide or Exalief or Excegran or Ezogabine or Fanatrex or Felbamate or Felbatol or Fosphenytoin or Frisium or Fycompa or Gabapentin or Gabarone or Gabitril or Gabrene or Ganaxolone or Garene or Gralise or Halogabide or Halogenide or Hibicon or Hypnovel or Iktorivil or Inovelon or Insoma or Intensl or isoflurane or Keppra or Klonopin or Kriadex or Lacosamide or Lamict* or Lamitor or Lamitrin or Lamogine or Lamotrigine or Lamotriline or Landsen or Levetiracetam or Liskantin or Loraz or Lorazepam or Losigamone or Luminal or Lyrica or Mebaral or Mephenytoin or Mephobarbit* or Mephytaletten or Mesantoin or Mesuximide or Methazolamide or Methsuximide or Methylphenobarbit* or Midazolam or Mogadon or Mylepsinum or Mysoline).ti,ab.
554.	(neogab or neptazane or neurontin or nimetazepam or nitrados or nitrazadon or nitrazepam or normison or novo-clopatate or nupentin or nydrane or onfi or ofiril or orlept or ormodon or ospolot or oxcarbazepine or pacisyn or paraldehyde or paramethadione or paxadorm or paxam or peganone or pentobarbital or perampanel or petinutin or petrill or phemiton or phenacemide or pheneturide or phenobarbit*).ti,ab.
555.	(Phenusuximide or phenytek or phenytoin or posedrine or potiga or pregabalin or primidone or prodilantin or progabide or prominal or propofol or prysoline or ravotril or remacemide or remnos or resimatil or restoril or retigabine or rivotril or rufinamide).ti,ab.
556.	(sabril or seclar or selenica or seletracetam or sertan or somnite of stavzor or stedesa or stiripentol or sultiam* or sultiam* or talampanel or tegretol or temazepam or temesta or teril or thiopental or tiagabine or timonil or topamax or topiramate or tranzene or tridione or tripleptal or trimethadione of trobalt or urbanol or valance or valcote or valium or valnoctamide or valparin or valpro* or versed or vigabatrin or vimpat or zalkote or zarontin or zebinix or zonegran or zonisamide).ti,ab.

557.	(benzodiaz* or chloral hydrate or clomethiazole or dexmedetomidine or melatonin or meprobamate or zolpidem or tartrate or zopiclone or diazepam or desflurane or methoxyflurane or nitrous oxide or sevoflurane or levetiracetam or alprazolam or chlordiazepoxide or hydrochloride or flurazepam or lorazepam or lormetazepam or oxazepam or etomidate).ti,ab.
558.	hyperbaric oxygen.ti,ab.
559.	(Hydrocortisone or prednisolone or dexamethasone or methylprednisolone or corticosteroids).ti,ab.
560.	*Adrenal Cortex Hormones/ or *adrenocorticotrophic hormone/ or *cosyntropin/
561.	(Adrenocorticotrophic hormone or adrenocorticotropin or corticotropin or cosyntropin or tetracosactrin).ti,ab.
562.	or/91-127
563.	randomized controlled trial.pt.
564.	controlled clinical trial.pt.
565.	randomi#ed.ti,ab.
566.	placebo.ab.
567.	randomly.ti,ab.
568.	Clinical Trials as topic.sh.
569.	trial.ti.
570.	or/129-135
571.	Meta-Analysis/
572.	exp Meta-Analysis as Topic/
573.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
574.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
575.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
576.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
577.	(search* adj4 literature).ab.
578.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
579.	cochrane.jw.
580.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
581.	or/137-146
582.	Epidemiologic studies/
583.	Observational study/
584.	exp Cohort studies/
585.	(cohort adj (study or studies or analys* or data)).ti,ab.
586.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
587.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.

588.	Controlled Before-After Studies/
589.	Historically Controlled Study/
590.	Interrupted Time Series Analysis/
591.	(before adj2 after adj2 (study or studies or data)).ti,ab.
592.	exp case control studies/
593.	case control*.ti,ab.
594.	Cross-sectional studies/
595.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
596.	or/148-161
597.	84 and (90 or 128)
598.	163 and (136 or 147 or 162)

Embase (Ovid) search terms

434.	exp *female/
435.	exp *pregnancy/
436.	*pregnancy outcome/
437.	exp *pregnancy complication/
438.	exp *prenatal exposure/
439.	*postnatal care/
440.	*puerperium/
441.	exp *breast feeding/
442.	(female* or wom?n or girl or pregnan* or conception or prenatal or pre natal or postnatal or post natal or postpartum or post-partum or conceiv* or breast feed* or breastfeed* or breastfed or breast fed or breast milk or breastmilk or mother* milk or human milk or colostrum).ti,ab.
443.	exp *newborn/
444.	exp *fetus development/
445.	((baby or babies or born or newborn* or infant* or fetal or foetal or fetus or foetus) adj2 (develop* or size or measur* or length)).ti,ab.
446.	exp *birth weight/
447.	((birth* or baby or babies or born or newborn* or infant*) adj weigh*).ti,ab.
448.	or/1-14
449.	exp *drug induced malformation/
450.	exp *congenital disorder/
451.	exp *fetus disease/
452.	((congenital or birth* or baby or babies or born or newborn* or infant* or fetal or foetal or fetus or foetus or prenatal or pre natal or in utero or intra uterine or intrauterine) adj2 (defec* or deform* or malform* or abnormal* or anomal* or dysmorph* or disease*)).ti,ab.
453.	(drug induced adj2 (defec* or deform* or malform* or abnormal* or anomal* or dysmorph*)).ti,ab.
454.	exp *teratogenic agent/

455.	teratogen*.ti,ab.
456.	exp *fetus death/
457.	exp *infant mortality/
458.	*maternal mortality/
459.	((maternal* or mother* or birth* or baby or babies or born or newborn* or infant* or fetal or foetal or fetus) adj2 (mortality or death or dies or died)).ti,ab.
460.	*intellectual impairment/
461.	((intellectual* or mental*) adj2 (impair* or disab* or retard*)).ti,ab.
462.	neurodevelopment*.ti,ab.
463.	education* need*.ti,ab.
464.	long* term outcome*.ti,ab.
465.	exp *child development/
466.	child* develop*.ti,ab.
467.	exp *autism/
468.	(autism or autistic).ti,ab.
469.	exp *attention deficit disorder/
470.	((attenti* adj3 deficit*) or adhd or addh or ad hd or ad??hd).ti,ab.
471.	exp *apraxia/
472.	(apraxia* or dyspraxia*).ti,ab.
473.	exp *memory/
474.	memory.ti,ab.
475.	exp *language disability/
476.	((language or speech) adj2 (disorder* or problem*)).ti,ab.
477.	exp *executive function/
478.	executive function*.ti,ab.
479.	(cognitive or cognition or problem* solving).ti,ab.
480.	exp *neuropsychology/
481.	neuropsycholog*.ti,ab.
482.	exp *intelligence test/
483.	((intelligen* or development*) adj2 (test* or quotient* or scale*)).ti,ab.
484.	("Griffiths Mental Development Scales" or "Bayley Scales of Infant and Toddler Development").ti,ab.
485.	("vineland adaptive behaviour scales" or "vineland 3").ti,ab.
486.	(IQ or DQ or GMDS or BSID or VABS).ti,ab.
487.	exp *spinal dysraphism/
488.	(spinal dysraphism or spina bifidia).ti,ab.
489.	*cleft palate/
490.	(cleft adj (lip* or palate*)).ti,ab.
491.	*clubfoot/
492.	(clubfoot or clubfeet or equinovarus or pie torcido).ti,ab.

493.	((foot or feet) adj2 (defec* or deform* or malform* or abnormal* or anomal* or dysmorph*)),ti,ab.
494.	((urogenital or genitourinary or kidney* or bladder or ureter or urethra or testes or ovaries or sex develop*) adj2 (defec* or deform* or malform* or abnormal* or anomal* or dysmorph*)),ti,ab.
495.	(hydronephrosis or hypospadias or cryptorchidism or epispadias or fraser syndrome or fused kidney or hypospadias or multicyclic dysplastic kidney or hereditary nephritis or retrocaval ureter or solitary kidney or urinary fistula).ti,ab.
496.	or/16-62
497.	15 and 63
498.	letter.pt. or letter/
499.	note.pt.
500.	editorial.pt.
501.	case report/ or case study/
502.	(letter or comment*).ti.
503.	or/65-69
504.	randomized controlled trial/ or random*.ti,ab.
505.	70 not 71
506.	animal/ not human/
507.	nonhuman/
508.	exp Animal Experiment/
509.	exp Experimental Animal/
510.	animal model/
511.	exp Rodent/
512.	(rat or rats or mouse or mice).ti.
513.	or/72-79
514.	64 not 80
515.	limit 81 to English language
516.	exp epilepsy/
517.	seizure/
518.	epileptic state/
519.	febrile convulsion/
520.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
521.	or/83-87
522.	exp Anticonvulsants/
523.	exp Acetazolamide/
524.	exp Carbamazepine/
525.	exp Chloral hydrate/
526.	exp Clomethiazole/
527.	exp Clonazepam/

528.	exp Clorazepate Dipotassium/
529.	exp Diazepam/
530.	exp Ethosuximide/
531.	exp Lorazepam/
532.	exp Mephenytoin/
533.	exp Mephobarbital/
534.	exp Midazolam/
535.	exp Methazolamide/
536.	exp Nitrazepam/
537.	exp Paraldehyde/
538.	exp Pentobarbital/
539.	exp Phenobarbital/
540.	exp Phenytoin/
541.	exp Primidone/
542.	exp Propofol/
543.	exp Temazepam/
544.	exp Thiopental/
545.	exp Topiramate/
546.	exp Trimethadione/
547.	exp Valproic Acid/
548.	exp Vigabatrin/
549.	(antiepilep* or anti-epilep* or anticonvulsant* or AED*1 or Acetazolamide or Alodorm or Antilepsin or Arem or Ativan or Barbexaclone or Beclamide or Brivaracetam or Carbagen or Carbamazepine or Celontin or Cerebyx or Chlonazepam or Chloracon or Cloazepam or Clobazam or Clonazepamum or Clonex or Clonopin or Clorazepate or Convulex or Depacon or Depak* or Depamide or Desitin or Diacomit or Diamox or Diastat or Diazepam or Dilantin or Diphenin* or Diphenylhydantoin or Divalpr* or Dormicum or Ecovia or Emeside or Epanutin or Epiject or Epilim or Episenta or Epival or Eptoin or Ergenyl or Erimin or Eslicarbazepine or Ethadione or Ethosuximide or Ethotoin or Ethylphenacemide or Exalief or Excegran or Ezogabine or Fanatrex or Felbamate or Felbatol or Fosphenytoin or Frisium or Fycompa or Gabapentin or Gabarone or Gabitril or Gabrene or Ganaxolone or Garene or Gralise or Halogabide or Halogenide or Hibicon or Hypnovel or Iktorivil or Inovelon or Insoma or Intensl or isoflurane or Keppra or Klonopin or Kriadex or Lacosamide or Lamict* or Lamitor or Lamitrin or Lamogine or Lamotrigine or Lamotriline or Landsen or Levetiracetam or Liskantin or Loraz or Lorazepam or Losigamone or Luminal or Lyrica or Mebaral or Mephenytoin or Mephobarbit* or Mephyltaletten or Mesantoin or Mesuximide or Methazolamide or Methsuximide or Methylphenobarbit* or Midazolam or Mogadon or Mylepsinum or Mysoline).ti,ab.
550.	(neogab or neptazane or neurontin or nimetazepam or nitrados or nitrazadon or nitrazepam or normison or novo-clopatate or nupentin or nydrane or onfi or ofiril or orlept or ormodon or ospolot or oxcarbazepine or pacisyn or paraldehyde or paramethadione or paxadorm or paxam or peganone or pentobarbital or perampanel or petinutin or petril or phemiton or phenacemide or pheneturide or phenobarbit*).ti,ab.

551.	(Phenusuximide or phenytek or phenytoin or posedrine or potiga or pregabalin or primidone or prodilantin or progabide or prominal or propofol or prysoline or rivotril or remacemide or remnos or resimatil or restoril or retigabine or rivotril or rufinamide).ti,ab.
552.	(sabrill or seclar or selenica or seletracetam or sertan or somnite of stavzor or stedsa or stiripentol or sulthiam* or sultiam* or talampanel or tegretol or temazepam or temesta or teril or thiopental or tiagabine or timonil or topamax or topiramate or tranzene or tridione or trileptal or trimethadione of trobalt or urbanol or valance or valcote or valium or valnoctamide or valparin or valpro* or versed or vigabatrin or vimpat or zalkote or zarontin or zebinix or zonegran or zonisamide).ti,ab.
553.	(benzodiaz* or chloral hydrate or clomethiazole or dexmedetomidine or melatonin or meprobamate or zolpidem or tartrate or zopiclone or diazepam or desflurane or methoxyflurane or nitrous oxide or sevoflurane or leviracetam or alprazolam or chlordiazepoxide or hydrochloride or flurazepam or loprozolam or lormetazepam or oxazepam or etomidate).ti,ab.
554.	hyperbaric oxygen.ti,ab.
555.	(Hydrocortisone or prednisolone or dexamethasone or methylprednisolone or corticosteroids).ti,ab.
556.	*Adrenal Cortex Hormones/ or *adrenocorticotrophic hormone/ or *cosyntropin/
557.	(Adrenocorticotrophic hormone or adrenocorticotropin or corticotropin or cosyntropin or tetracosactrin).ti,ab.
558.	or/89-124
559.	random*.ti,ab.
560.	factorial*.ti,ab.
561.	(crossover* or cross over*).ti,ab.
562.	((doubl* or singl*) adj blind*).ti,ab.
563.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
564.	crossover procedure/
565.	single blind procedure/
566.	randomized controlled trial/
567.	double blind procedure/
568.	or/126-134
569.	Clinical study/
570.	Observational study/
571.	family study/
572.	longitudinal study/
573.	retrospective study/
574.	prospective study/
575.	cohort analysis/
576.	follow-up/
577.	cohort*.ti,ab.
578.	143 and 144
579.	(cohort adj (study or studies or analys* or data)).ti,ab.

580.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
581.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
582.	(before adj2 after adj2 (study or studies or data)).ti,ab.
583.	or/136-142,145-149
584.	exp case control study/
585.	case control*.ti,ab.
586.	or/151-152
587.	150 or 153
588.	cross-sectional study/
589.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
590.	or/155-156
591.	150 or 157
592.	150 or 153 or 157
593.	systematic review/
594.	meta-analysis/
595.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
596.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
597.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
598.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
599.	(search* adj4 literature).ab.
600.	(medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
601.	cochrane.jw.
602.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
603.	or/160-169
604.	82 and (88 or 125)
605.	171 and (135 or 159 or 170)

Cochrane Library (Wiley) search terms

#154.	MeSH descriptor: [Female] explode all trees
#155.	MeSH descriptor: [Pregnancy] explode all trees
#156.	MeSH descriptor: [Pregnancy Outcome] explode all trees
#157.	MeSH descriptor: [Pregnancy Complications] explode all trees
#158.	MeSH descriptor: [Prenatal Exposure Delayed Effects] explode all trees
#159.	MeSH descriptor: [Postnatal Care] explode all trees
#160.	MeSH descriptor: [Postpartum Period] explode all trees
#161.	MeSH descriptor: [Breast Feeding] explode all trees

#162.	(female* or wom?n or girl or pregnan* or conception or prenatal or pre natal or postnatal or post natal or postpartum or post partum or conceiv* or breast feed* or breastfeed* or breastfed or breast fed or breast milk or breastmilk or mother* milk or human milk or colostrum):ti,ab
#163.	(or #1-#9)
#164.	MeSH descriptor: [Epilepsy] explode all trees
#165.	MeSH descriptor: [Seizures] this term only
#166.	MeSH descriptor: [Status Epilepticus] explode all trees
#167.	MeSH descriptor: [Seizures, Febrile] this term only
#168.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome):ti,ab
#169.	(or #11-#15)
#170.	MeSH descriptor: [Abnormalities, Drug-Induced] explode all trees
#171.	MeSH descriptor: [Congenital Abnormalities] explode all trees
#172.	MeSH descriptor: [Fetal Diseases] explode all trees
#173.	((congenital or birth* or baby or babies or born or newborn* or infant* or fetal or foetal or fetus or foetus or prenatal or pre natal or in utero or intra uterine or intrauterine) near/2 (defec* or deform* or malform* or abnormal* or anomal* or dysmorph* or disease*)):ti,ab
#174.	(drug induced near/2 (defec* or deform* or malform* or abnormal* or anomal* or dysmorph*)):ti,ab
#175.	MeSH descriptor: [Teratogens] explode all trees
#176.	teratogen*:ti,ab
#177.	MeSH descriptor: [Fetal Death] explode all trees
#178.	MeSH descriptor: [Infant Mortality] explode all trees
#179.	MeSH descriptor: [Maternal Mortality] explode all trees
#180.	((maternal* or mother* or birth* or baby or babies or born or newborn* or infant* or fetal or foetal or fetus) near/2 (mortality or death or dies or died)):ti,ab
#181.	MeSH descriptor: [Intellectual Disability] explode all trees
#182.	((intellectual* or mental*) near/2 (impair* or disab* or retard*)):ti,ab
#183.	neurodevelopment*:ti,ab
#184.	education* need*:ti,ab
#185.	long* term outcome*:ti,ab
#186.	MeSH descriptor: [Child Development] explode all trees
#187.	child* develop*:ti,ab
#188.	MeSH descriptor: [Autistic Disorder] explode all trees
#189.	(autism or autistic):ti,ab
#190.	MeSH descriptor: [Attention Deficit Disorder with Hyperactivity] explode all trees
#191.	((attenti* near/3 deficit*) or adhd or addh or ad hd or ad??hd):ti,ab
#192.	MeSH descriptor: [Apraxias] explode all trees
#193.	(apraxia* or dyspraxia*):ti,ab

#194.	MeSH descriptor: [Memory] explode all trees
#195.	memory:ti,ab
#196.	MeSH descriptor: [Language Disorders] explode all trees
#197.	((language or speech) near/2 (disorder* or problem*)):ti,ab
#198.	MeSH descriptor: [Executive Function] explode all trees
#199.	executive function*:ti,ab
#200.	(cognitive or cognition or problem* solving):ti,ab
#201.	MeSH descriptor: [Neuropsychology] explode all trees
#202.	neuropsycholog*:ti,ab
#203.	MeSH descriptor: [Intelligence Tests] explode all trees
#204.	((intelligen* or development*) near/2 (test* or quotient* or scale*)):ti,ab
#205.	("Griffiths Mental Development Scales" or "Bayley Scales of Infant and Toddler Development"):ti,ab
#206.	("vineland adaptive behaviour scales" or "vineland 3"):ti,ab
#207.	(IQ or DQ or GMDS or BSID or VABS):ti,ab
#208.	MeSH descriptor: [Spinal Dysraphism] explode all trees
#209.	(spinal dysraphism or spina bifidia):ti,ab
#210.	MeSH descriptor: [Cleft Palate] explode all trees
#211.	(cleft near/1 (lip* or palate*)):ti,ab
#212.	MeSH descriptor: [Clubfoot] explode all trees
#213.	(clubfoot or clubfeet or equinovarus or pie torcido):ti,ab
#214.	((foot or feet) near/2 (defec* or deform* or malform* or abnormal* or anomal* or dysmorph*)):ti,ab
#215.	((urogenital or genitourinary or kidney* or bladder or ureter or urethra or testes or ovaries or sex develop*) near/2 (defec* or deform* or malform* or abnormal* or anomal* or dysmorph*)):ti,ab
#216.	(hydronephrosis or hypospadias or cryptorchidism or epispadias or fraser syndrome or fused kidney or hypospadias or multicystic dysplastic kidney or hereditary nephritis or retrocaval ureter or solitary kidney or urinary fistula):ti,ab
#217.	(or #17-#63)
#218.	MeSH descriptor: [Anticonvulsants] explode all trees
#219.	MeSH descriptor: [Acetazolamide] explode all trees
#220.	MeSH descriptor: [Carbamazepine] explode all trees
#221.	MeSH descriptor: [Chloral Hydrate] explode all trees
#222.	MeSH descriptor: [Chlormethiazole] explode all trees
#223.	MeSH descriptor: [Clonazepam] explode all trees
#224.	MeSH descriptor: [Clorazepate Dipotassium] explode all trees
#225.	MeSH descriptor: [Diazepam] explode all trees
#226.	MeSH descriptor: [Ethosuximide] explode all trees
#227.	MeSH descriptor: [Lorazepam] explode all trees
#228.	MeSH descriptor: [Mephenytoin] explode all trees

#229.	MeSH descriptor: [Mephobarbital] explode all trees
#230.	MeSH descriptor: [Midazolam] explode all trees
#231.	MeSH descriptor: [Methazolamide] explode all trees
#232.	MeSH descriptor: [Nitrazepam] explode all trees
#233.	MeSH descriptor: [Paraldehyde] explode all trees
#234.	MeSH descriptor: [Pentobarbital] explode all trees
#235.	MeSH descriptor: [Phenobarbital] explode all trees
#236.	MeSH descriptor: [Phenytoin] explode all trees
#237.	MeSH descriptor: [Primidone] explode all trees
#238.	MeSH descriptor: [Propofol] explode all trees
#239.	MeSH descriptor: [Temazepam] explode all trees
#240.	MeSH descriptor: [Thiopental] explode all trees
#241.	MeSH descriptor: [Topiramate] explode all trees
#242.	MeSH descriptor: [Trimethadione] explode all trees
#243.	MeSH descriptor: [Valproic Acid] explode all trees
#244.	MeSH descriptor: [Vigabatrin] explode all trees
#245.	(antiepilep* or anti-epilep* or anticonvulsant* or AED*1 or Acetazolamide or Alodorm or Antilepsin or Arem or Ativan or Barbexaclone or Beclamide or Brivaracetam or Carbagen or Carbamazepine or Celontin or Cerebyx or Chlonazepam or Chloracon or Cloazepam or Clobazam or Clonazepamum or Clonex or Clonopin or Clorazepate or Convulex or Depacon or Depak* or Depamide or Desitin or Diacomit or Diamox or Diastat or Diazepam or Dilantin or Diphenin* or Diphenylhydantoin or Divalpr* or Dormicum or Ecovia or Emeside or Epanutin or Epiject or Epilim or Episenta or Epival or Eptoin or Ergenyl or Erimin or Eslicarbazepine or Ethadione or Ethosuximide or Ethotoin or Ethylphenacemide or Exalief or Excegran or Ezogabine or Fanatrex or Felbamate or Felbatol or Fosphenytoin or Frisium or Fycompa or Gabapentin or Gabarone or Gabitril or Gabrene or Ganaxolone or Garene or Gralise or Halogabide or Halogenide or Hibicon or Hypnovel or Iktorivil or Inovelon or Insoma or Intensl or isoflurane or Keppra or Klonopin or Kriadex or Lacosamide or Lamict* or Lamitor or Lamitrin or Lamogine or Lamotrigine or Lamotriline or Landsen or Levetiracetam or Liskantin or Loraz or Lorazepam or Losigamone or Luminal or Lyrica or Mebaral or Mephenytoin or Mephobarbit* or Mephyltaletten or Mesantoin or Mesuximide or Methazolamide or Methsuximide or Methylphenobarbit* or Midazolam or Mogadon or Mylepsinum or Mysoline):ti,ab
#246.	(neogab or neptazane or neurontin or nimetazepam or nitrados or nitrazadon or nitrazepam or normison or novo-clopatate or nupentin or nydrane or onfi or ofiril or orlept or ormodon or ospolot or oxcarbazepine or pacisyn or paraldehyde or paramethadione or paxadorm or paxam or peganone or pentobarbital or perampanel or petinutin or petril or phemiton or phenacemide or pheneturide or phenobarbit*):ti,ab
#247.	(Phenusuximide or phenytek or phenytoin or posedrine or potiga or pregabalin or primidone or prodilantin or progabide or prominal or propofol or prysoline or ravotril or remacemide or remnos or resimatil or restoril or retigabine or rivotril or rufinamide):ti,ab
#248.	(sabril or seclar or selenica or seletracetam or sertan or somnite of stavzor or stedesia or stiripentol or sultiam* or sultiam* or talampanel or tegretol or temazepam or temesta or teril or thiopental or tiagabine or timonil or topamax or topiramate or tranzene or tridione or tripleptal or trimethadione of trobalt or urbanol or valance or valcote or valium or valnoctamide

	or valparin or valpro* or versed or vigabatrin or vimpat or zalkote or zarontin or zebinix or zonegran or zonisamide):ti,ab
#249.	(benzodiaz* or chloral hydrate or clomethiazole or dexmedetomidine or melatonin or meprobamate or zolpidem or tartrate or zopiclone or diazepam or desflurane or methoxyflurane or nitrous oxide or sevoflurane or levetiracetam or alprazolam or chlordiazepoxide or hydrochloride or flurazepam or lorazepam or lormetazepam or oxazepam or etomidate):ti,ab
#250.	(or #65-#96)
#251.	#10 and #64
#252.	#16 or #97
#253.	#98 and #99

1.8.2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Epilepsies population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics and quality of life studies.

Table 14: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1946 – 13 May 2021	Exclusions
Embase	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1974 – 13 May 2021	Exclusions
Centre for Research and Dissemination (CRD)	HTA - Inception – 13 May 2021 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

316.	exp epilepsy/
317.	seizures/
318.	exp status epilepticus/
319.	seizures, febrile/
320.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.

321.	or/1-5
322.	letter/
323.	editorial/
324.	news/
325.	exp historical article/
326.	Anecdotes as Topic/
327.	comment/
328.	case report/
329.	(letter or comment*).ti.
330.	or/7-14
331.	randomized controlled trial/ or random*.ti,ab.
332.	15 not 16
333.	animals/ not humans/
334.	exp Animals, Laboratory/
335.	exp Animal Experimentation/
336.	exp Models, Animal/
337.	exp Rodentia/
338.	(rat or rats or mouse or mice).ti.
339.	or/17-23
340.	6 not 24
341.	limit 25 to English language
342.	Economics/
343.	Value of life/
344.	exp "Costs and Cost Analysis"/
345.	exp Economics, Hospital/
346.	exp Economics, Medical/
347.	Economics, Nursing/
348.	Economics, Pharmaceutical/
349.	exp "Fees and Charges"/
350.	exp Budgets/
351.	budget*.ti,ab.
352.	cost*.ti.
353.	(economic* or pharmaco?economic*).ti.
354.	(price* or pricing*).ti,ab.
355.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
356.	(financ* or fee or fees).ti,ab.
357.	(value adj2 (money or monetary)).ti,ab.
358.	or/27-42
359.	quality-adjusted life years/

360.	sickness impact profile/
361.	(quality adj2 (wellbeing or well being)).ti,ab.
362.	sickness impact profile.ti,ab.
363.	disability adjusted life.ti,ab.
364.	(qal* or qtime* or qwb* or daly*).ti,ab.
365.	(euroqol* or eq5d* or eq 5*).ti,ab.
366.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
367.	(hui or hui1 or hui2 or hui3).ti,ab.
368.	(health* year* equivalent* or hye or hyes).ti,ab.
369.	discrete choice*.ti,ab.
370.	rosser.ti,ab.
371.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
372.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
373.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
374.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
375.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
376.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
377.	or/44-61
378.	26 and (43 or 62)

Embase (Ovid) search terms

296.	exp *epilepsy/
297.	*landau kleffner syndrome/
298.	exp *seizure/
299.	"seizure, epilepsy and convulsion"/
300.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
301.	or/1-5
302.	letter.pt. or letter/
303.	note.pt.
304.	editorial.pt.
305.	case report/ or case study/
306.	(letter or comment*).ti.
307.	or/7-11
308.	randomized controlled trial/ or random*.ti,ab.
309.	12 not 13
310.	animal/ not human/
311.	nonhuman/
312.	exp Animal Experiment/

313.	exp Experimental Animal/
314.	animal model/
315.	exp Rodent/
316.	(rat or rats or mouse or mice).ti.
317.	or/15-21
318.	6 not 22
319.	limit 23 to English language
320.	health economics/
321.	exp economic evaluation/
322.	exp health care cost/
323.	exp fee/
324.	budget/
325.	funding/
326.	budget*.ti,ab.
327.	cost*.ti.
328.	(economic* or pharmaco?economic*).ti.
329.	(price* or pricing*).ti,ab.
330.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
331.	(financ* or fee or fees).ti,ab.
332.	(value adj2 (money or monetary)).ti,ab.
333.	or/25-37
334.	quality adjusted life year/
335.	sickness impact profile/
336.	(quality adj2 (wellbeing or well being)).ti,ab.
337.	sickness impact profile.ti,ab.
338.	disability adjusted life.ti,ab.
339.	(qal* or qtime* or qwb* or daly*).ti,ab.
340.	(euroqol* or eq5d* or eq 5*).ti,ab.
341.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
342.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
343.	(hui or hui1 or hui2 or hui3).ti,ab.
344.	(health* year* equivalent* or hye or hyes).ti,ab.
345.	discrete choice*.ti,ab.
346.	rosser.ti,ab.
347.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
348.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
349.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
350.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
351.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.

352.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
353.	or/39-57
354.	24 and (38 or 58)

NHS EED and HTA (CRD) search terms

#31.	MeSH DESCRIPTOR Epilepsy EXPLODE ALL TREES
#32.	MeSH DESCRIPTOR Seizures EXPLODE ALL TREES
#33.	MeSH DESCRIPTOR Status Epilepticus EXPLODE ALL TREES
#34.	MeSH DESCRIPTOR Seizures, Febrile EXPLODE ALL TREES
#35.	((dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome))
#36.	#1 OR #2 OR #3 OR #4 OR #5

1.9 Epilepsies search strategy 9_Prediction tools (A, Q)

This literature search strategy was used for the following reviews:

- What are the most accurate tools for predicting a further seizure, in people who have had a single seizure?
- What are the most accurate tools to predicting death, including SUDEP, in people with epilepsy?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual.{NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.9.1 Clinical search literature search strategy

Searches were constructed using the following approach:

- Population AND risk factor terms

Table 15: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 13 August 2020	Exclusions
Embase (OVID)	1974 – 13 August 2020	Exclusions

Medline (Ovid) search terms

599.	exp epilepsy/
600.	seizures/
601.	exp status epilepticus/
602.	seizures, febrile/

603.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
604.	or/1-5
605.	letter/
606.	editorial/
607.	news/
608.	exp historical article/
609.	Anecdotes as Topic/
610.	comment/
611.	case report/
612.	(letter or comment*).ti.
613.	or/7-14
614.	randomized controlled trial/ or random*.ti,ab.
615.	15 not 16
616.	animals/ not humans/
617.	exp Animals, Laboratory/
618.	exp Animal Experimentation/
619.	exp Models, Animal/
620.	exp Rodentia/
621.	(rat or rats or mouse or mice).ti.
622.	or/17-23
623.	6 not 24
624.	limit 25 to English language
625.	(risk* adj2 assess*).ti,ab.
626.	((score* or scoring) adj2 (tool* or system*)).ti,ab.
627.	((risk* or predict* or prognos*) adj4 (tool* or rule* or index* or indices or score* or scoring or scale* or model* or system* or algorithm* or stratif* or criteria or calculat*)).ti,ab.
628.	("ERA scale" or "ERA checklist" or "ERAC" or "Epilepsy risk awareness scale" or "SUDEP and seizure safety checklist" or "Epilepsy self-management scale" or "ESMS" or "Chalfont Seizure Severity Scale").ti,ab.
629.	((risk or predict*) and "EpSMon").ti,ab.
630.	or/27-31
631.	26 and 32

Embase (Ovid) search terms

606.	exp epilepsy/
607.	seizure/
608.	epileptic state/
609.	febrile convulsion/

610.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
611.	or/1-5
612.	letter.pt. or letter/
613.	note.pt.
614.	editorial.pt.
615.	case report/ or case study/
616.	(letter or comment*).ti.
617.	or/7-11
618.	randomized controlled trial/ or random*.ti,ab.
619.	12 not 13
620.	animal/ not human/
621.	nonhuman/
622.	exp Animal Experiment/
623.	exp Experimental Animal/
624.	animal model/
625.	exp Rodent/
626.	(rat or rats or mouse or mice).ti.
627.	or/14-21
628.	6 not 22
629.	limit 23 to English language
630.	(risk* adj2 assess*).ti,ab.
631.	((score* or scoring) adj2 (tool* or system*)).ti,ab.
632.	((risk* or predict* or prognos*) adj4 (tool* or rule* or index* or indices or score* or scoring or scale* or model* or system* or algorithm* or stratif* or criteria or calculat*)).ti,ab.
633.	("ERA scale" or "ERA checklist" or "ERAC" or "Epilepsy risk awareness scale" or "SUDEP and seizure safety checklist" or "Epilepsy self-management scale" or "ESMS" or "Chalfont Seizure Severity Scale").ti,ab.
634.	((risk or predict*) and "EpSMon").ti,ab.
635.	or/25-29
636.	24 and 30

1.9.2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Epilepsies population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics and quality of life studies.

Table 16: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1946 – 13 May 2021	Exclusions
Embase	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1974 – 13 May 2021	Exclusions
Centre for Research and Dissemination (CRD)	HTA - Inception – 13 May 2021 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

379.	exp epilepsy/
380.	seizures/
381.	exp status epilepticus/
382.	seizures, febrile/
383.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
384.	or/1-5
385.	letter/
386.	editorial/
387.	news/
388.	exp historical article/
389.	Anecdotes as Topic/
390.	comment/
391.	case report/
392.	(letter or comment*).ti.
393.	or/7-14
394.	randomized controlled trial/ or random*.ti,ab.
395.	15 not 16
396.	animals/ not humans/
397.	exp Animals, Laboratory/
398.	exp Animal Experimentation/
399.	exp Models, Animal/
400.	exp Rodentia/

401.	(rat or rats or mouse or mice).ti.
402.	or/17-23
403.	6 not 24
404.	limit 25 to English language
405.	Economics/
406.	Value of life/
407.	exp "Costs and Cost Analysis"/
408.	exp Economics, Hospital/
409.	exp Economics, Medical/
410.	Economics, Nursing/
411.	Economics, Pharmaceutical/
412.	exp "Fees and Charges"/
413.	exp Budgets/
414.	budget*.ti,ab.
415.	cost*.ti.
416.	(economic* or pharmaco?economic*).ti.
417.	(price* or pricing*).ti,ab.
418.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
419.	(financ* or fee or fees).ti,ab.
420.	(value adj2 (money or monetary)).ti,ab.
421.	or/27-42
422.	quality-adjusted life years/
423.	sickness impact profile/
424.	(quality adj2 (wellbeing or well being)).ti,ab.
425.	sickness impact profile.ti,ab.
426.	disability adjusted life.ti,ab.
427.	(qal* or qtime* or qwb* or daly*).ti,ab.
428.	(euroqol* or eq5d* or eq 5*).ti,ab.
429.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
430.	(hui or hui1 or hui2 or hui3).ti,ab.
431.	(health* year* equivalent* or hye or hyes).ti,ab.
432.	discrete choice*.ti,ab.
433.	rosser.ti,ab.
434.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
435.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
436.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
437.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
438.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
439.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.

440.	or/44-61
441.	26 and (43 or 62)

Embase (Ovid) search terms

355.	exp *epilepsy/
356.	*landau kleffner syndrome/
357.	exp *seizure/
358.	"seizure, epilepsy and convulsion"/
359.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
360.	or/1-5
361.	letter.pt. or letter/
362.	note.pt.
363.	editorial.pt.
364.	case report/ or case study/
365.	(letter or comment*).ti.
366.	or/7-11
367.	randomized controlled trial/ or random*.ti,ab.
368.	12 not 13
369.	animal/ not human/
370.	nonhuman/
371.	exp Animal Experiment/
372.	exp Experimental Animal/
373.	animal model/
374.	exp Rodent/
375.	(rat or rats or mouse or mice).ti.
376.	or/15-21
377.	6 not 22
378.	limit 23 to English language
379.	health economics/
380.	exp economic evaluation/
381.	exp health care cost/
382.	exp fee/
383.	budget/
384.	funding/
385.	budget*.ti,ab.
386.	cost*.ti.
387.	(economic* or pharmaco?economic*).ti.
388.	(price* or pricing*).ti,ab.

389.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
390.	(financ* or fee or fees).ti,ab.
391.	(value adj2 (money or monetary)).ti,ab.
392.	or/25-37
393.	quality adjusted life year/
394.	sickness impact profile/
395.	(quality adj2 (wellbeing or well being)).ti,ab.
396.	sickness impact profile.ti,ab.
397.	disability adjusted life.ti,ab.
398.	(qal* or qtime* or qwb* or daly*).ti,ab.
399.	(euroqol* or eq5d* or eq 5*).ti,ab.
400.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
401.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
402.	(hui or hui1 or hui2 or hui3).ti,ab.
403.	(health* year* equivalent* or hye or hyes).ti,ab.
404.	discrete choice*.ti,ab.
405.	rosser.ti,ab.
406.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
407.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
408.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
409.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
410.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
411.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
412.	or/39-57
413.	24 and (38 or 58)

NHS EED and HTA (CRD) search terms

#37.	MeSH DESCRIPTOR Epilepsy EXPLODE ALL TREES
#38.	MeSH DESCRIPTOR Seizures EXPLODE ALL TREES
#39.	MeSH DESCRIPTOR Status Epilepticus EXPLODE ALL TREES
#40.	MeSH DESCRIPTOR Seizures, Febrile EXPLODE ALL TREES
#41.	((dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome))
#42.	#1 OR #2 OR #3 OR #4 OR #5

1.10 Epilepsies search strategy 10_Seizure-related mortality, including SUDEP (S)

This literature search strategy was used for the following review:

- What interventions are effective in reducing the risk of seizure-related mortality, including Sudden Unexpected Death in Epilepsy (SUDEP), in people with epilepsy?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.10.1 Clinical search literature search strategy

Searches were constructed using the following approach:

- Population AND Study filter(s)

Table 17: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 13 May 2021	Randomised controlled trials Systematic review studies Observational studies Exclusions
Embase (OVID)	1974 – 13 May 2021	Randomised controlled trials Systematic review studies Observational studies Exclusions
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue5 of 12 CENTRAL to 2021 Issue 5 of 12	None

Medline (Ovid) search terms

632.	exp epilepsy/
633.	seizures/
634.	exp status epilepticus/
635.	seizures, febrile/
636.	(dravet syndrome or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or west syndrome).ti,ab.
637.	(epilep* or seizure* or dravet syndrome or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or west syndrome).ti,ab.
638.	or/1-5
639.	or/1-4,6
640.	exp death, sudden/

641.	((seizure* or epilep*) adj4 (death* or died or dies or mortalit* or accident* or drown* or "adverse event*")).ti,ab.
642.	9 or 10
643.	7 and 11
644.	(SUDEP or "sudden unexp* death in epilepsy").ti,ab.
645.	12 or 13
646.	letter/
647.	editorial/
648.	news/
649.	exp historical article/
650.	Anecdotes as Topic/
651.	comment/
652.	case report/
653.	(letter or comment*).ti.
654.	or/15-22
655.	randomized controlled trial/ or random*.ti,ab.
656.	23 not 24
657.	animals/ not humans/
658.	exp Animals, Laboratory/
659.	exp Animal Experimentation/
660.	exp Models, Animal/
661.	exp Rodentia/
662.	(rat or rats or mouse or mice).ti.
663.	or/25-31
664.	14 not 32
665.	limit 33 to English language
666.	Epidemiologic studies/
667.	Observational study/
668.	exp Cohort studies/
669.	(cohort adj (study or studies or analys* or data)).ti,ab.
670.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
671.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
672.	Controlled Before-After Studies/
673.	Historically Controlled Study/
674.	Interrupted Time Series Analysis/
675.	(before adj2 after adj2 (study or studies or data)).ti,ab.
676.	exp case control studies/
677.	case control*.ti,ab.

678.	Cross-sectional studies/
679.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
680.	or/35-48
681.	randomized controlled trial.pt.
682.	controlled clinical trial.pt.
683.	randomi#ed.ti,ab.
684.	placebo.ab.
685.	randomly.ti,ab.
686.	Clinical Trials as topic.sh.
687.	trial.ti.
688.	or/50-56
689.	Meta-Analysis/
690.	exp Meta-Analysis as Topic/
691.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
692.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
693.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
694.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
695.	(search* adj4 literature).ab.
696.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
697.	cochrane.jw.
698.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
699.	or/58-67
700.	34 and (49 or 57 or 68)

Embase (Ovid) search terms

637.	exp epilepsy/
638.	seizure/
639.	epileptic state/
640.	febrile convulsion/
641.	(dravet syndrome or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or west syndrome).ti,ab.
642.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
643.	or/1-5
644.	or/1-4,6
645.	exp sudden death/
646.	((seizure* or epilep*) adj4 (death* or died or dies or mortalit* or accident* or drown* or "adverse event*")).ti,ab.
647.	9 or 10

648.	7 and 11
649.	(SUDEP or "sudden unexp* death in epilepsy").ti,ab.
650.	12 or 13
651.	letter.pt. or letter/
652.	note.pt.
653.	editorial.pt.
654.	case report/ or case study/
655.	(letter or comment*).ti.
656.	or/15-19
657.	randomized controlled trial/ or random*.ti,ab.
658.	20 not 21
659.	animal/ not human/
660.	nonhuman/
661.	exp Animal Experiment/
662.	exp Experimental Animal/
663.	animal model/
664.	exp Rodent/
665.	(rat or rats or mouse or mice).ti.
666.	or/22-29
667.	14 not 30
668.	limit 31 to English language
669.	random*.ti,ab.
670.	factorial*.ti,ab.
671.	(crossover* or cross over*).ti,ab.
672.	((doubl* or singl*) adj blind*).ti,ab.
673.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
674.	crossover procedure/
675.	single blind procedure/
676.	randomized controlled trial/
677.	double blind procedure/
678.	or/35-43
679.	systematic review/
680.	meta-analysis/
681.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
682.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
683.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
684.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
685.	(search* adj4 literature).ab.

686.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
687.	cochrane.jw.
688.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
689.	or/45-54
690.	Clinical study/
691.	Observational study/
692.	family study/
693.	longitudinal study/
694.	retrospective study/
695.	prospective study/
696.	cohort analysis/
697.	follow-up/
698.	cohort*.ti,ab.
699.	63 and 64
700.	(cohort adj (study or studies or analys* or data)).ti,ab.
701.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
702.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
703.	(before adj2 after adj2 (study or studies or data)).ti,ab.
704.	exp case control study/
705.	case control*.ti,ab.
706.	cross-sectional study/
707.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
708.	or/56-62,65-73
709.	32 and (42 or 53 or 72)

Cochrane Library (Wiley) search terms

#254.	MeSH descriptor: [Epilepsy] explode all trees
#255.	MeSH descriptor: [Seizures] explode all trees
#256.	MeSH descriptor: [Status Epilepticus] explode all trees
#257.	MeSH descriptor: [Seizures, Febrile] explode all trees
#258.	(dravet syndrome or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or west syndrome):ti,ab
#259.	(epilep* or seizure* or dravet syndrome or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or west syndrome):ti,ab
#260.	(or #1-#5)
#261.	#1 or #2 or #3 or #4 or #6
#262.	MeSH descriptor: [Death, Sudden] explode all trees

#263.	((seizure* or epilep*) near/4 (death* or died or dies or mortalit* or accident* or drown* or "adverse event*")):ti,ab
#264.	#9 or #10
#265.	#7 and #11
#266.	(SUDEP or "sudden unexp* death in epilepsy"):ti,ab
#267.	#12 or #13

1.10.2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Epilepsies population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics and quality of life studies.

Table 18: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1946 – 13 May 2021	Exclusions
Embase	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1974 – 13 May 2021	Exclusions
Centre for Research and Dissemination (CRD)	HTA - Inception – 13 May 2021 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

442.	exp epilepsy/
443.	seizures/
444.	exp status epilepticus/
445.	seizures, febrile/
446.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
447.	or/1-5
448.	letter/
449.	editorial/
450.	news/

451.	exp historical article/
452.	Anecdotes as Topic/
453.	comment/
454.	case report/
455.	(letter or comment*).ti.
456.	or/7-14
457.	randomized controlled trial/ or random*.ti,ab.
458.	15 not 16
459.	animals/ not humans/
460.	exp Animals, Laboratory/
461.	exp Animal Experimentation/
462.	exp Models, Animal/
463.	exp Rodentia/
464.	(rat or rats or mouse or mice).ti.
465.	or/17-23
466.	6 not 24
467.	limit 25 to English language
468.	Economics/
469.	Value of life/
470.	exp "Costs and Cost Analysis"/
471.	exp Economics, Hospital/
472.	exp Economics, Medical/
473.	Economics, Nursing/
474.	Economics, Pharmaceutical/
475.	exp "Fees and Charges"/
476.	exp Budgets/
477.	budget*.ti,ab.
478.	cost*.ti.
479.	(economic* or pharmaco?economic*).ti.
480.	(price* or pricing*).ti,ab.
481.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
482.	(financ* or fee or fees).ti,ab.
483.	(value adj2 (money or monetary)).ti,ab.
484.	or/27-42
485.	quality-adjusted life years/
486.	sickness impact profile/
487.	(quality adj2 (wellbeing or well being)).ti,ab.
488.	sickness impact profile.ti,ab.
489.	disability adjusted life.ti,ab.

490.	(qal* or qtime* or qwb* or daly*).ti,ab.
491.	(euroqol* or eq5d* or eq 5*).ti,ab.
492.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
493.	(hui or hui1 or hui2 or hui3).ti,ab.
494.	(health* year* equivalent* or hye or hyes).ti,ab.
495.	discrete choice*.ti,ab.
496.	rosser.ti,ab.
497.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
498.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
499.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
500.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
501.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
502.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
503.	or/44-61
504.	26 and (43 or 62)

Embase (Ovid) search terms

414.	exp *epilepsy/
415.	*landau kleffner syndrome/
416.	exp *seizure/
417.	"seizure, epilepsy and convulsion"/
418.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
419.	or/1-5
420.	letter.pt. or letter/
421.	note.pt.
422.	editorial.pt.
423.	case report/ or case study/
424.	(letter or comment*).ti.
425.	or/7-11
426.	randomized controlled trial/ or random*.ti,ab.
427.	12 not 13
428.	animal/ not human/
429.	nonhuman/
430.	exp Animal Experiment/
431.	exp Experimental Animal/
432.	animal model/
433.	exp Rodent/
434.	(rat or rats or mouse or mice).ti.

435.	or/15-21
436.	6 not 22
437.	limit 23 to English language
438.	health economics/
439.	exp economic evaluation/
440.	exp health care cost/
441.	exp fee/
442.	budget/
443.	funding/
444.	budget*.ti,ab.
445.	cost*.ti.
446.	(economic* or pharmaco?economic*).ti.
447.	(price* or pricing*).ti,ab.
448.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
449.	(financ* or fee or fees).ti,ab.
450.	(value adj2 (money or monetary)).ti,ab.
451.	or/25-37
452.	quality adjusted life year/
453.	sickness impact profile/
454.	(quality adj2 (wellbeing or well being)).ti,ab.
455.	sickness impact profile.ti,ab.
456.	disability adjusted life.ti,ab.
457.	(qal* or qtime* or qwb* or daly*).ti,ab.
458.	(euroqol* or eq5d* or eq 5*).ti,ab.
459.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
460.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
461.	(hui or hui1 or hui2 or hui3).ti,ab.
462.	(health* year* equivalent* or hye or hyes).ti,ab.
463.	discrete choice*.ti,ab.
464.	rosser.ti,ab.
465.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
466.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
467.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
468.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
469.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
470.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
471.	or/39-57
472.	24 and (38 or 58)

NHS EED and HTA (CRD) search terms

#43.	MeSH DESCRIPTOR Epilepsy EXPLODE ALL TREES
#44.	MeSH DESCRIPTOR Seizures EXPLODE ALL TREES
#45.	MeSH DESCRIPTOR Status Epilepticus EXPLODE ALL TREES
#46.	MeSH DESCRIPTOR Seizures, Febrile EXPLODE ALL TREES
#47.	((dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome))
#48.	#1 OR #2 OR #3 OR #4 OR #5

1.11 Epilepsies search strategy 11 Surgery Interventions (M)

This literature search strategy was used for the following review:

- What is the effectiveness of surgical intervention in epilepsy?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual.{NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.11.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 19: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 10 December 2020	Randomised controlled trials Systematic review studies Exclusions
Embase (OVID)	1974 – 10 December 2020	Randomised controlled trials Systematic review studies Exclusions
The Cochrane Library (Wiley)	Cochrane Reviews to 2020 issue 12 of 12 CENTRAL to 2020 Issue 12 of 12	None

Medline (Ovid) search terms

701.	exp epilepsy/
702.	seizures/
703.	exp status epilepticus/
704.	seizures, febrile/
705.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
706.	(epilep* adj4 (surg* or resect*)).ti,ab.
707.	or/1-5
708.	letter/
709.	editorial/
710.	news/
711.	exp historical article/
712.	Anecdotes as Topic/
713.	comment/
714.	case report/
715.	(letter or comment*).ti.
716.	or/8-15
717.	randomized controlled trial/ or random*.ti,ab.
718.	16 not 17
719.	animals/ not humans/
720.	exp Animals, Laboratory/
721.	exp Animal Experimentation/
722.	exp Models, Animal/
723.	exp Rodentia/
724.	(rat or rats or mouse or mice).ti.
725.	or/18-24
726.	7 not 25
727.	6 not 25
728.	Limit 26 to English language
729.	Limit 27 to English language
730.	exp surgery/ or exp neurosurgical procedures/
731.	((surg* or operat* or procedure*) adj3 (neurological or resect* or disconnect* or extratemporal or temporal or TLE)).ti,ab.
732.	exp Hemispherectomy/
733.	(hemispherectomy or hemispherotomy).ti,ab.

734.	(temporo-occipito-parietal* or temporal occipital parietal*).ti,ab.
735.	(corpus callosotomy or corpus callosum transect* or subpial transect* or amygdalotomy or lobect* or topect* or corticectomy or amygdalohippocampectomy).ti,ab.
736.	lesionectomy.ti,ab.
737.	(laser ablation or thermal ablation or laser interstitial thermal therapy or LITT or hypothalamic hamartoma disconnect*).ti,ab.
738.	or/30-37
739.	randomized controlled trial.pt.
740.	controlled clinical trial.pt.
741.	randomi#ed.ti,ab.
742.	placebo.ab.
743.	randomly.ti,ab.
744.	Clinical Trials as topic.sh.
745.	trial.ti.
746.	or/39-45
747.	Meta-Analysis/
748.	exp Meta-Analysis as Topic/
749.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
750.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
751.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
752.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
753.	(search* adj4 literature).ab.
754.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
755.	cochrane.jw.
756.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
757.	or/47-56
758.	28 and 38 and (46 or 57)
759.	29 and (46 or 57)
760.	58 or 59

Embase (Ovid) search terms

710.	exp epilepsy/
711.	seizure/
712.	epileptic state/
713.	febrile convulsion/
714.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
715.	(epilep* adj4 (surg* or resect*)).ti,ab.
716.	or/1-5

717.	letter.pt. or letter/
718.	note.pt.
719.	editorial.pt.
720.	case report/ or case study/
721.	(letter or comment*).ti.
722.	or/8-12
723.	randomized controlled trial/ or random*.ti,ab.
724.	13 not 14
725.	animal/ not human/
726.	nonhuman/
727.	exp Animal Experiment/
728.	exp Experimental Animal/
729.	animal model/
730.	exp Rodent/
731.	(rat or rats or mouse or mice).ti.
732.	or/15-22
733.	7 not 23
734.	6 not 23
735.	limit 24 to English language
736.	limit 25 to English language
737.	surgery/
738.	exp brain surgery/
739.	((surg* or operat* or procedure*) adj3 (neurological or resect* or disconnect* or extratemporal or temporal or TLE)).ti,ab.
740.	exp hemispherectomy/
741.	(hemispherectomy or hemispherotomy).ti,ab.
742.	(temporo-occipito-parietal* or temporal occipital parietal*).ti,ab.
743.	(corpus callosotomy or corpus callosum transect* or subpial transect* or amygdalotomy or lobect* or topect* or corticectomy or amygdalohippocampectomy).ti,ab.
744.	lesionectomy.ti,ab.
745.	(laser ablation or thermal ablation or laser interstitial thermal therapy or LITT or hypothalamic hamartoma disconnect*).ti,ab.
746.	or/28-36
747.	random*.ti,ab.
748.	factorial*.ti,ab.
749.	(crossover* or cross over*).ti,ab.
750.	((doubl* or singl*) adj blind*).ti,ab.
751.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
752.	crossover procedure/
753.	single blind procedure/

754.	randomized controlled trial/
755.	double blind procedure/
756.	or/38-46
757.	systematic review/
758.	meta-analysis/
759.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
760.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
761.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
762.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
763.	(search* adj4 literature).ab.
764.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
765.	cochrane.jw.
766.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
767.	or/48-57
768.	26 and 37 and (47 or 58)
769.	27 and (47 or 58)
770.	59 or 60

Cochrane Library (Wiley) search terms

#268.	MeSH descriptor: [Epilepsy] explode all trees
#269.	MeSH descriptor: [Seizures] explode all trees
#270.	MeSH descriptor: [Status Epilepticus] explode all trees
#271.	MeSH descriptor: [Seizures, Febrile] explode all trees
#272.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome):ti,ab
#273.	(epilep* near/4 (surg* or resect*)):ti,ab
#274.	(or #1-#5)
#275.	MeSH descriptor: [Neurosurgical Procedures] explode all trees
#276.	MeSH descriptor: [Hemispherectomy] explode all trees
#277.	MeSH descriptor: [Anterior Temporal Lobectomy] explode all trees
#278.	((surg* or operat* or procedure*) near/3 (neurological or resect* or disconnect* or extratemporal or temporal or TLE)):ti,ab
#279.	(hemispherectomy or hemispherotomy):ti,ab
#280.	(temporo-occipito-parietal* or temporal occipital parietal*):ti,ab
#281.	(corpus callosotomy or corpus callosum transect* or subpial transect* or amygdalotomy or lobect* or topect* or corticectomy or amygdalohippocampectomy):ti,ab
#282.	lesionectomy:ti,ab
#283.	(laser ablation or thermal ablation or laser interstitial thermal therapy or LITT or hypothalamic hamartoma disconnect*):ti,ab

#284.	(or #8-#16)
#285.	#6 and #17
#286.	#7 and #17
#287.	#18 or #19

1.11.2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Epilepsies population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics and quality of life studies.

Table 20: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1946 – 13 May 2021	Exclusions (animals studies, letters, comments)
Embase	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1974 – 13 May 2021	Exclusions (animals studies, letters, comments)
Centre for Research and Dissemination (CRD)	HTA - Inception – 13 May 2021 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

505.	exp epilepsy/
506.	seizures/
507.	exp status epilepticus/
508.	seizures, febrile/
509.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
510.	or/1-5
511.	letter/
512.	editorial/
513.	news/
514.	exp historical article/

515.	Anecdotes as Topic/
516.	comment/
517.	case report/
518.	(letter or comment*).ti.
519.	or/7-14
520.	randomized controlled trial/ or random*.ti,ab.
521.	15 not 16
522.	animals/ not humans/
523.	exp Animals, Laboratory/
524.	exp Animal Experimentation/
525.	exp Models, Animal/
526.	exp Rodentia/
527.	(rat or rats or mouse or mice).ti.
528.	or/17-23
529.	6 not 24
530.	limit 25 to English language
531.	Economics/
532.	Value of life/
533.	exp "Costs and Cost Analysis"/
534.	exp Economics, Hospital/
535.	exp Economics, Medical/
536.	Economics, Nursing/
537.	Economics, Pharmaceutical/
538.	exp "Fees and Charges"/
539.	exp Budgets/
540.	budget*.ti,ab.
541.	cost*.ti.
542.	(economic* or pharmaco?economic*).ti.
543.	(price* or pricing*).ti,ab.
544.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
545.	(financ* or fee or fees).ti,ab.
546.	(value adj2 (money or monetary)).ti,ab.
547.	or/27-42
548.	quality-adjusted life years/
549.	sickness impact profile/
550.	(quality adj2 (wellbeing or well being)).ti,ab.
551.	sickness impact profile.ti,ab.
552.	disability adjusted life.ti,ab.
553.	(qal* or qtime* or qwb* or daly*).ti,ab.

554.	(euroqol* or eq5d* or eq 5*).ti,ab.
555.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
556.	(hui or hui1 or hui2 or hui3).ti,ab.
557.	(health* year* equivalent* or hye or hyes).ti,ab.
558.	discrete choice*.ti,ab.
559.	rosser.ti,ab.
560.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
561.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
562.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
563.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
564.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
565.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
566.	or/44-61
567.	26 and (43 or 62)

Embase (Ovid) search terms

473.	exp *epilepsy/
474.	*landau kleffner syndrome/
475.	exp *seizure/
476.	"seizure, epilepsy and convulsion"/
477.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
478.	or/1-5
479.	letter.pt. or letter/
480.	note.pt.
481.	editorial.pt.
482.	case report/ or case study/
483.	(letter or comment*).ti.
484.	or/7-11
485.	randomized controlled trial/ or random*.ti,ab.
486.	12 not 13
487.	animal/ not human/
488.	nonhuman/
489.	exp Animal Experiment/
490.	exp Experimental Animal/
491.	animal model/
492.	exp Rodent/
493.	(rat or rats or mouse or mice).ti.
494.	or/15-21

495.	6 not 22
496.	limit 23 to English language
497.	health economics/
498.	exp economic evaluation/
499.	exp health care cost/
500.	exp fee/
501.	budget/
502.	funding/
503.	budget*.ti,ab.
504.	cost*.ti.
505.	(economic* or pharmaco?economic*).ti.
506.	(price* or pricing*).ti,ab.
507.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
508.	(financ* or fee or fees).ti,ab.
509.	(value adj2 (money or monetary)).ti,ab.
510.	or/25-37
511.	quality adjusted life year/
512.	sickness impact profile/
513.	(quality adj2 (wellbeing or well being)).ti,ab.
514.	sickness impact profile.ti,ab.
515.	disability adjusted life.ti,ab.
516.	(qal* or qtime* or qwb* or daly*).ti,ab.
517.	(euroqol* or eq5d* or eq 5*).ti,ab.
518.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
519.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
520.	(hui or hui1 or hui2 or hui3).ti,ab.
521.	(health* year* equivalent* or hye or hyes).ti,ab.
522.	discrete choice*.ti,ab.
523.	rosser.ti,ab.
524.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
525.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
526.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
527.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
528.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
529.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
530.	or/39-57
531.	24 and (38 or 58)

NHS EED and HTA (CRD) search terms

#49.	MeSH DESCRIPTOR Epilepsy EXPLODE ALL TREES
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#50.	MeSH DESCRIPTOR Seizures EXPLODE ALL TREES
#51.	MeSH DESCRIPTOR Status Epilepticus EXPLODE ALL TREES
#52.	MeSH DESCRIPTOR Seizures, Febrile EXPLODE ALL TREES
#53.	((dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome))
#54.	#1 OR #2 OR #3 OR #4 OR #5

1.12 Epilepsies search strategy 12_Referral to surgical services (M)

This literature search strategy was used for the following review:

- What is the clinical and cost effectiveness of different criteria for referral to epilepsy surgical services?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual.{NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.12.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 21: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 04 August 2020	Randomised controlled trials Systematic review studies Exclusions
Embase (OVID)	1974 – 04 August 2020	Randomised controlled trials Systematic review studies Exclusions
The Cochrane Library (Wiley)	Cochrane Reviews to 2020 Issue 8 of 12 CENTRAL to 2020 Issue 8 of 12	None

Medline (Ovid) search terms

761.	exp epilepsy/
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762.	seizures/
763.	exp status epilepticus/
764.	seizures, febrile/
765.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
766.	or/1-5
767.	letter/
768.	editorial/
769.	news/
770.	exp historical article/
771.	Anecdotes as Topic/
772.	comment/
773.	case report/
774.	(letter or comment*).ti.
775.	or/7-14
776.	randomized controlled trial/ or random*.ti,ab.
777.	15 not 16
778.	animals/ not humans/
779.	exp Animals, Laboratory/
780.	exp Animal Experimentation/
781.	exp Models, Animal/
782.	exp Rodentia/
783.	(rat or rats or mouse or mice).ti.
784.	or/17-23
785.	6 not 24
786.	limit 25 to English language
787.	exp "referral and consultation"/
788.	(refer or referr* or consult*).ti,ab.
789.	((presurgical or pre-surgical or surg* or neurosurg*) adj2 (assessment* or evaluation* or decision* or criteria*)).ti,ab.
790.	((decision* or criteria* or appropriate or non-appropriate or inappropriate or approv* or non approv* or underutiliz* or underutilis* or misconception* or misperception*) adj2 (surg* or neurosurg*)).ti,ab.
791.	*Drug Resistance/
792.	(drug adj resist*).ti,ab.
793.	exp *Electroencephalography/
794.	((electroencephalogra* or EEG) adj (data or spike* or discharge*)).ti,ab.
795.	exp *Magnetic Resonance Imaging/
796.	*Single Photon Emission Computed Tomography Computed Tomography/

797.	*Positron Emission Tomography Computed Tomography/
798.	((magnetic resonance Imag* or MRI* or PET or SPECT or tomograph*) adj (data or result*)).ti,ab.
799.	(history adj2 (head injur* or seiz*)).ti,ab.
800.	(surg* adj2 (service* or centre* or center* or clinic*1)).ti,ab.
801.	or/27-40
802.	26 and 41
803.	randomized controlled trial.pt.
804.	controlled clinical trial.pt.
805.	randomi#ed.ti,ab.
806.	placebo.ab.
807.	randomly.ti,ab.
808.	Clinical Trials as topic.sh.
809.	trial.ti.
810.	or/43-49
811.	Meta-Analysis/
812.	exp Meta-Analysis as Topic/
813.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
814.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
815.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
816.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
817.	(search* adj4 literature).ab.
818.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
819.	cochrane.jw.
820.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
821.	or/51-60
822.	42 and (50 or 61)

Embase (Ovid) search terms

771.	exp epilepsy/
772.	seizure/
773.	epileptic state/
774.	febrile convulsion/
775.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
776.	or/1-5
777.	letter.pt. or letter/
778.	note.pt.
779.	editorial.pt.

780.	case report/ or case study/
781.	(letter or comment*).ti.
782.	or/7-11
783.	randomized controlled trial/ or random*.ti,ab.
784.	12 not 13
785.	animal/ not human/
786.	nonhuman/
787.	exp Animal Experiment/
788.	exp Experimental Animal/
789.	animal model/
790.	exp Rodent/
791.	(rat or rats or mouse or mice).ti.
792.	or/14-21
793.	6 not 22
794.	limit 23 to English language
795.	random*.ti,ab.
796.	factorial*.ti,ab.
797.	(crossover* or cross over*).ti,ab.
798.	((doubl* or singl*) adj blind*).ti,ab.
799.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
800.	crossover procedure/
801.	single blind procedure/
802.	randomized controlled trial/
803.	double blind procedure/
804.	or/25-33
805.	systematic review/
806.	meta-analysis/
807.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
808.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
809.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
810.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
811.	(search* adj4 literature).ab.
812.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
813.	cochrane.jw.
814.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
815.	or/35-44
816.	exp patient referral/
817.	(refer or ferr* or consult*).ti,ab.

818.	((presurgical or pre-surgical or surg* or neurosurg*) adj2 (assessment* or evaluation* or decision* or criteria*)):ti,ab.
819.	((decision* or criteria* or appropriate or non-appropriate or inappropriate or approv* or non approv* or underutiliz* or underutilis* or misconception* or misperception*) adj2 (surg* or neurosurg*)):ti,ab.
820.	*drug resistance/
821.	(drug adj resist*):ti,ab.
822.	exp *electroencephalography/
823.	((electroencephalogra* or EEG) adj (data or spike* or discharge*)):ti,ab.
824.	*nuclear magnetic resonance imaging/
825.	*Single Photon Emission Computed Tomography Computed Tomography/
826.	*positron emission tomography-computed tomography/
827.	((magnetic resonance Imag* or MRI* or PET or SPECT or tomograph*) adj (data or result*)):ti,ab.
828.	(history adj2 (head injur* or seiz*)):ti,ab.
829.	(surg* adj2 (service* or centre* or center* or clinic*1)):ti,ab.
830.	or/46-59
831.	24 and 60
832.	61 and (34 or 45)

Cochrane Library (Wiley) search terms

#288.	MeSH descriptor: [Epilepsy] explode all trees
#289.	MeSH descriptor: [Seizures] this term only
#290.	MeSH descriptor: [Status Epilepticus] explode all trees
#291.	MeSH descriptor: [Seizures, Febrile] this term only
#292.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome):ti,ab
#293.	(or #1-#5)
#294.	MeSH descriptor: [Referral and Consultation] explode all trees
#295.	(refer or referr* or consult*):ti,ab
#296.	((presurgical or pre-surgical or surg* or neurosurg*) near/2 (assessment* or evaluation* or decision* or criteria*)):ti,ab
#297.	((decision* or criteria* or appropriate or non-appropriate or inappropriate or approv* or non approv* or underutiliz* or underutilis* or misconception* or misperception*) near/2 (surg* or neurosurg*)):ti,ab
#298.	MeSH descriptor: [Drug Resistance] explode all trees
#299.	(drug near/1 resist*):ti,ab
#300.	MeSH descriptor: [Electroencephalography] explode all trees
#301.	((electroencephalogra* or EEG) near/1 (data or spike* or discharge*)):ti,ab
#302.	MeSH descriptor: [Magnetic Resonance Imaging] explode all trees

#303.	MeSH descriptor: [Single Photon Emission Computed Tomography Computed Tomography] explode all trees
#304.	MeSH descriptor: [Positron Emission Tomography Computed Tomography] explode all trees
#305.	((magnetic resonance Imag* or MRI* or PET or SPECT or tomograph*) near/1 (data or result*)):ti,ab
#306.	(history near/2 (head injur* or seiz*)):ti,ab
#307.	(surg* near/2 (service* or centre* or center* or clinic*1)):ti,ab
#308.	(or #7-#20)
#309.	#6 and #21

1.12.2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Epilepsies population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics and quality of life studies.

Table 22: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1946 – 13 May 2021	Exclusions
Embase	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1974 – 13 May 2021	Exclusions
Centre for Research and Dissemination (CRD)	HTA - Inception – 13 May 2021 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

568.	exp epilepsy/
569.	seizures/
570.	exp status epilepticus/
571.	seizures, febrile/
572.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
573.	or/1-5

574.	letter/
575.	editorial/
576.	news/
577.	exp historical article/
578.	Anecdotes as Topic/
579.	comment/
580.	case report/
581.	(letter or comment*).ti.
582.	or/7-14
583.	randomized controlled trial/ or random*.ti,ab.
584.	15 not 16
585.	animals/ not humans/
586.	exp Animals, Laboratory/
587.	exp Animal Experimentation/
588.	exp Models, Animal/
589.	exp Rodentia/
590.	(rat or rats or mouse or mice).ti.
591.	or/17-23
592.	6 not 24
593.	limit 25 to English language
594.	Economics/
595.	Value of life/
596.	exp "Costs and Cost Analysis"/
597.	exp Economics, Hospital/
598.	exp Economics, Medical/
599.	Economics, Nursing/
600.	Economics, Pharmaceutical/
601.	exp "Fees and Charges"/
602.	exp Budgets/
603.	budget*.ti,ab.
604.	cost*.ti.
605.	(economic* or pharmaco?economic*).ti.
606.	(price* or pricing*).ti,ab.
607.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
608.	(financ* or fee or fees).ti,ab.
609.	(value adj2 (money or monetary)).ti,ab.
610.	or/27-42
611.	quality-adjusted life years/
612.	sickness impact profile/

613.	(quality adj2 (wellbeing or well being)).ti,ab.
614.	sickness impact profile.ti,ab.
615.	disability adjusted life.ti,ab.
616.	(qal* or qtime* or qwb* or daly*).ti,ab.
617.	(euroqol* or eq5d* or eq 5*).ti,ab.
618.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
619.	(hui or hui1 or hui2 or hui3).ti,ab.
620.	(health* year* equivalent* or hye or hyes).ti,ab.
621.	discrete choice*.ti,ab.
622.	rosser.ti,ab.
623.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
624.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
625.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
626.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
627.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
628.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
629.	or/44-61
630.	26 and (43 or 62)

Embase (Ovid) search terms

532.	exp *epilepsy/
533.	*landau kleffner syndrome/
534.	exp *seizure/
535.	"seizure, epilepsy and convulsion"/
536.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
537.	or/1-5
538.	letter.pt. or letter/
539.	note.pt.
540.	editorial.pt.
541.	case report/ or case study/
542.	(letter or comment*).ti.
543.	or/7-11
544.	randomized controlled trial/ or random*.ti,ab.
545.	12 not 13
546.	animal/ not human/
547.	nonhuman/
548.	exp Animal Experiment/
549.	exp Experimental Animal/

550.	animal model/
551.	exp Rodent/
552.	(rat or rats or mouse or mice).ti.
553.	or/15-21
554.	6 not 22
555.	limit 23 to English language
556.	health economics/
557.	exp economic evaluation/
558.	exp health care cost/
559.	exp fee/
560.	budget/
561.	funding/
562.	budget*.ti,ab.
563.	cost*.ti.
564.	(economic* or pharmaco?economic*).ti.
565.	(price* or pricing*).ti,ab.
566.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
567.	(financ* or fee or fees).ti,ab.
568.	(value adj2 (money or monetary)).ti,ab.
569.	or/25-37
570.	quality adjusted life year/
571.	sickness impact profile/
572.	(quality adj2 (wellbeing or well being)).ti,ab.
573.	sickness impact profile.ti,ab.
574.	disability adjusted life.ti,ab.
575.	(qal* or qtime* or qwb* or daly*).ti,ab.
576.	(euroqol* or eq5d* or eq 5*).ti,ab.
577.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
578.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
579.	(hui or hui1 or hui2 or hui3).ti,ab.
580.	(health* year* equivalent* or hye or hyes).ti,ab.
581.	discrete choice*.ti,ab.
582.	rosser.ti,ab.
583.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
584.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
585.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
586.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
587.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
588.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.

589.	or/39-57
590.	24 and (38 or 58)

NHS EED and HTA (CRD) search terms

#55.	MeSH DESCRIPTOR Epilepsy EXPLODE ALL TREES
#56.	MeSH DESCRIPTOR Seizures EXPLODE ALL TREES
#57.	MeSH DESCRIPTOR Status Epilepticus EXPLODE ALL TREES
#58.	MeSH DESCRIPTOR Seizures, Febrile EXPLODE ALL TREES
#59.	((dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome))

1.13 Epilepsies search strategy 13 Drug Monitoring in Women and Girls (H)

This literature search strategy was used for the following review:

- To evaluate whether therapeutic drug monitoring of girls or women on AEDs during pregnancy and post-partum reduces seizure deterioration compared with clinical features monitoring after a reduction in serum AED levels and at which time intervals should monitoring take place.

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.13.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 23: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 10 August 2020	Randomised controlled trials Systematic review studies Observational studies Exclusions
Embase (OVID)	1974 – 10 August 2020	Randomised controlled trials Systematic review studies Observational studies

Database	Dates searched	Search filter used
		Exclusions
The Cochrane Library (Wiley)	Cochrane Reviews to 2020 Issue 8 of 12 CENTRAL to 2020 Issue 8 of 12	None

Medline (Ovid) search terms

823.	exp female/
824.	exp pregnancy/
825.	pregnancy outcome/
826.	exp pregnancy complications/
827.	exp prenatal exposure delayed effects/
828.	postnatal care/
829.	postpartum period/
830.	exp Breast Feeding/
831.	(female* or wom?n or girl or pregnan* or conception or prenatal or pre natal or postnatal or post natal or postpartum or post-partum or conceiv* or breast feed* or breastfeed* or breastfed or breast fed or breast milk or breastmilk or mother* milk or human milk or colostrum).ti,ab.
832.	or/1-9
833.	exp epilepsy/
834.	seizures/
835.	exp status epilepticus/
836.	seizures, febrile/
837.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
838.	or/11-15
839.	10 and 16
840.	letter/
841.	editorial/
842.	news/
843.	exp historical article/
844.	Anecdotes as Topic/
845.	comment/
846.	case report/
847.	(letter or comment*).ti.
848.	or/18-25
849.	randomized controlled trial/ or random*.ti,ab.
850.	26 not 27

851.	animals/ not humans/
852.	exp Animals, Laboratory/
853.	exp Animal Experimentation/
854.	exp Models, Animal/
855.	exp Rodentia/
856.	(rat or rats or mouse or mice).ti.
857.	or/28-34
858.	17 not 35
859.	randomized controlled trial.pt.
860.	controlled clinical trial.pt.
861.	randomi#ed.ti,ab.
862.	placebo.ab.
863.	randomly.ti,ab.
864.	Clinical Trials as topic.sh.
865.	trial.ti.
866.	or/37-43
867.	Meta-Analysis/
868.	exp Meta-Analysis as Topic/
869.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
870.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
871.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
872.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
873.	(search* adj4 literature).ab.
874.	(medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
875.	cochrane.jw.
876.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
877.	or/45-54
878.	Epidemiologic studies/
879.	Observational study/
880.	exp Cohort studies/
881.	(cohort adj (study or studies or analys* or data)).ti,ab.
882.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
883.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
884.	Controlled Before-After Studies/
885.	Historically Controlled Study/
886.	Interrupted Time Series Analysis/

887.	(before adj2 after adj2 (study or studies or data)).ti,ab.
888.	exp case control studies/
889.	case control*.ti,ab.
890.	Cross-sectional studies/
891.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
892.	or/56-69
893.	Monitoring, Physiologic/ or Monitoring, Ambulatory/ or Neurophysiological Monitoring/
894.	monitor*.ti,ab.
895.	Patient compliance/ or Medication Adherence/ or Drug Monitoring/
896.	exp Patient Outcome Assessment/
897.	("patient reported outcome measures" or PROM).ti,ab.
898.	"Continuity of Patient Care"/
899.	patient care/
900.	"Delivery of Health Care, Integrated"/
901.	critical pathways/
902.	((care or clinical or critical or patient*) adj2 manag*).ti,ab.
903.	Telemetry/ or Telemedicine/
904.	(telemonitor* or telemedicine or telehealth or tele medicine or tele health or smartphone* or smart phone or ipad* or iphone* or device* or virtual or remote or wireless or internet or wifi or wi fi).ti,ab.
905.	exp "Appointments and Schedules"/
906.	Self Care/
907.	(self adj (care or caring or manag* or checkup or check* up or assess* or test* or evaluat*)).ti,ab.
908.	((survellian* or review* or assess* or test* or evaluat* or program* or observed or observation* or provision or strateg* or clinic or clinics or pattern* or followup* or follow up* or checkup or check up* or appointment*) adj3 (timing* or timed or time point* or times or duration or interval* or year* or annual* or biannual or month* or period* or frequen* or infrequent* or continu* or intermittent or irregular or routine* or regular* or schedul* or longterm or long term or short-term or short term or early or earliest * or proactiv* or special* or nurse* or general practi* or GP or family practi* or doctor* or medical or physician* or patient* or outpatient* or out-patient*)).ti,ab.
909.	((drug* or medication* or pharm*) adj (compliance or complying or adher*)).ti,ab.
910.	or/71-87
911.	36 and 88
912.	89 and (44 or 55 or 70)
913.	limit 90 to English language

Embase (Ovid) search terms

833.	exp female/
834.	exp pregnancy/
835.	pregnancy outcome/

836.	pregnancy complication/
837.	prenatal exposure/
838.	postnatal care/
839.	puerperium/
840.	breast feeding/
841.	(female* or wom?n or girl or pregnan* or conception or prenatal or pre natal or postnatal or post natal or postpartum or post-partum or conceiv* or breast feed* or breastfeed* or breastfed or breast fed or breast milk or breastmilk or mother* milk or human milk or colostrum).ti,ab.
842.	or/1-9
843.	exp epilepsy/
844.	seizure/
845.	epileptic state/
846.	febrile convulsion/
847.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
848.	or/11-15
849.	letter.pt. or letter/
850.	note.pt.
851.	editorial.pt.
852.	case report/ or case study/
853.	(letter or comment*).ti.
854.	or/17-21
855.	randomized controlled trial/ or random*.ti,ab.
856.	22 not 23
857.	animal/ not human/
858.	nonhuman/
859.	exp Animal Experiment/
860.	exp Experimental Animal/
861.	animal model/
862.	exp Rodent/
863.	(rat or rats or mouse or mice).ti.
864.	or/24-31
865.	*physiologic monitoring/
866.	*ambulatory monitoring/
867.	*neurophysiological monitoring/
868.	monitor*.ti,ab.
869.	*patient compliance/
870.	*medication compliance/

871.	*drug monitoring/
872.	*outcome assessment/
873.	("patient reported outcome measures" or PROM).ti,ab.
874.	*patient care/
875.	*integrated health care system/
876.	*clinical pathway/
877.	((care or clinical or critical or patient*) adj2 manag*).ti,ab.
878.	*telemetry/
879.	*telemedicine/
880.	(telemonitor* or telemedicine or telehealth or tele medicine or tele health or smartphone* or smart phone or ipad* or iphone* or device* or virtual or remote or wireless or internet or wifi or wi fi).ti,ab.
881.	*hospital management/
882.	*self care/
883.	(self adj (care or caring or manag* or checkup or check* up or assess* or test* or evaluat*).ti,ab.
884.	((survellian* or review* or assess* or test* or evaluat* or program* or observed or observation* or provision or strateg* or clinic or clinics or pattern* or followup* or follow up* or checkup or check up* or appointment*) adj3 (timing* or timed or time point* or times or duration or interval* or year* or annual* or biannual or month* or period* or frequen* or infrequent* or continu* or intermittent or irregular or routine* or regular* or schedul* or longterm or long term or short-term or short term or early or earliest * or proactiv* or special* or nurse* or general practi* or GP or family practi* or doctor* or medical or physician* or patient* or outpatient* or out-patient*).ti,ab.
885.	((drug* or medication* or pharm*) adj (compliance or complying or adher*).ti,ab.
886.	or/33-53
887.	random*.ti,ab.
888.	factorial*.ti,ab.
889.	(crossover* or cross over*).ti,ab.
890.	((doubl* or singl*) adj blind*).ti,ab.
891.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
892.	crossover procedure/
893.	single blind procedure/
894.	randomized controlled trial/
895.	double blind procedure/
896.	or/55-63
897.	systematic review/
898.	meta-analysis/
899.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
900.	((systematic* or evidence*) adj3 (review* or overview*).ti,ab.
901.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.

902.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
903.	(search* adj4 literature).ab.
904.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
905.	cochrane.jw.
906.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
907.	or/65-74
908.	Clinical study/
909.	Observational study/
910.	family study/
911.	longitudinal study/
912.	retrospective study/
913.	prospective study/
914.	cohort analysis/
915.	follow-up/
916.	cohort*.ti,ab.
917.	83 and 84
918.	(cohort adj (study or studies or analys* or data)).ti,ab.
919.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
920.	((longitudinal or retrospective or prospective (cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
921.	(before adj2 after adj2 (study or studies or data)).ti,ab.
922.	exp case control study/
923.	case control*.ti,ab.
924.	cross-sectional study/
925.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
926.	or/76-82,85-93
927.	10 and 16
928.	95 not 32
929.	54 and 96
930.	97 and (64 or 75 or 94)
931.	limit 98 to English language

Cochrane Library (Wiley) search terms

#310.	MeSH descriptor: [Female] explode all trees
#311.	MeSH descriptor: [Pregnancy] explode all trees
#312.	MeSH descriptor: [Pregnancy Outcome] explode all trees
#313.	MeSH descriptor: [Pregnancy Complications] explode all trees
#314.	MeSH descriptor: [Prenatal Exposure Delayed Effects] explode all trees

#315.	MeSH descriptor: [Postnatal Care] explode all trees
#316.	MeSH descriptor: [Postpartum Period] explode all trees
#317.	MeSH descriptor: [Breast Feeding] explode all trees
#318.	(female* or wom?n or girl or pregnan* or conception or prenatal or pre natal or postnatal or post natal or postpartum or post partum or conceiv* or breast feed* or breastfeed* or breastfed or breast fed or breast milk or breastmilk or mother* milk or human milk or colostrum):ti,ab
#319.	(or #1-#9)
#320.	MeSH descriptor: [Epilepsy] explode all trees
#321.	MeSH descriptor: [Seizures] this term only
#322.	MeSH descriptor: [Status Epilepticus] explode all trees
#323.	MeSH descriptor: [Seizures, Febrile] this term only
#324.	(dravet syndrome or epilep* or convuls* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome):ti,ab
#325.	(or #11-#15)
#326.	#10 and #16
#327.	MeSH descriptor: [Monitoring, Physiologic] this term only
#328.	MeSH descriptor: [Monitoring, Ambulatory] this term only
#329.	MeSH descriptor: [Neurophysiological Monitoring] this term only
#330.	monitor*:ti,ab
#331.	MeSH descriptor: [Patient Compliance] this term only
#332.	MeSH descriptor: [Medication Adherence] this term only
#333.	MeSH descriptor: [Drug Monitoring] this term only
#334.	MeSH descriptor: [Patient Outcome Assessment] explode all trees
#335.	("patient reported outcome measures" or PROM):ti,ab
#336.	MeSH descriptor: [Continuity of Patient Care] this term only
#337.	MeSH descriptor: [Patient Care] this term only
#338.	MeSH descriptor: [Delivery of Health Care, Integrated] this term only
#339.	MeSH descriptor: [Critical Pathways] this term only
#340.	((care or clinical or critical or patient*) near/2 manag*):ti,ab
#341.	MeSH descriptor: [Telemetry] this term only
#342.	MeSH descriptor: [Telemedicine] this term only
#343.	(telemonitor* or telemedicine or telehealth or tele medicine or tele health or smartphone* or smart phone or ipad* or iphone* or device* or virtual or remote or wireless or internet or wifi or wi fi):ti,ab
#344.	MeSH descriptor: [Appointments and Schedules] explode all trees
#345.	MeSH descriptor: [Self Care] this term only
#346.	(self near (care or caring or manag* or checkup or check* up or assess* or test* or evaluat*)):ti,ab

#347.	((surveillian* or review* or assess* or test* or evaluat* or program* or observed or observation* or provision or strateg* or clinic or clinics or pattern* or followup* or follow up* or checkup or check up* or appointment*) near/3 (timing* or timed or time point* or times or duration or interval* or year* or annual* or biannual or month* or period* or frequen* or infrequent* or continu* or intermittent or irregular or routine* or regular* or schedul* or longterm or long term or short-term or short term or early or earliest* or proactiv* or special* or nurse* or general practi* or GP or family practi* or doctor* or medical or physician* or patient* or outpatient* or out-patient*)):ti,ab
#348.	((drug* or medication* or pharm*) near (compliance or complying or adher*)):ti,ab
#349.	(or #18-#39)
#350.	#17 and #40

1.13.2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Epilepsies population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics and quality of life studies.

Table 24: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1946 – 13 May 2021	Exclusions
Embase	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1974 – 13 May 2021	Exclusions
Centre for Research and Dissemination (CRD)	HTA - Inception – 13 May 2021 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

631.	exp epilepsy/
632.	seizures/
633.	exp status epilepticus/
634.	seizures, febrile/
635.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.

636.	or/1-5
637.	letter/
638.	editorial/
639.	news/
640.	exp historical article/
641.	Anecdotes as Topic/
642.	comment/
643.	case report/
644.	(letter or comment*).ti.
645.	or/7-14
646.	randomized controlled trial/ or random*.ti,ab.
647.	15 not 16
648.	animals/ not humans/
649.	exp Animals, Laboratory/
650.	exp Animal Experimentation/
651.	exp Models, Animal/
652.	exp Rodentia/
653.	(rat or rats or mouse or mice).ti.
654.	or/17-23
655.	6 not 24
656.	limit 25 to English language
657.	Economics/
658.	Value of life/
659.	exp "Costs and Cost Analysis"/
660.	exp Economics, Hospital/
661.	exp Economics, Medical/
662.	Economics, Nursing/
663.	Economics, Pharmaceutical/
664.	exp "Fees and Charges"/
665.	exp Budgets/
666.	budget*.ti,ab.
667.	cost*.ti.
668.	(economic* or pharmaco?economic*).ti.
669.	(price* or pricing*).ti,ab.
670.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
671.	(financ* or fee or fees).ti,ab.
672.	(value adj2 (money or monetary)).ti,ab.
673.	or/27-42
674.	quality-adjusted life years/

675.	sickness impact profile/
676.	(quality adj2 (wellbeing or well being)).ti,ab.
677.	sickness impact profile.ti,ab.
678.	disability adjusted life.ti,ab.
679.	(qal* or qtime* or qwb* or daly*).ti,ab.
680.	(euroqol* or eq5d* or eq 5*).ti,ab.
681.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
682.	(hui or hui1 or hui2 or hui3).ti,ab.
683.	(health* year* equivalent* or hye or hyes).ti,ab.
684.	discrete choice*.ti,ab.
685.	rosser.ti,ab.
686.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
687.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
688.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
689.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
690.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
691.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
692.	or/44-61
693.	26 and (43 or 62)

Embase (Ovid) search terms

591.	exp *epilepsy/
592.	*landau kleffner syndrome/
593.	exp *seizure/
594.	"seizure, epilepsy and convulsion"/
595.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
596.	or/1-5
597.	letter.pt. or letter/
598.	note.pt.
599.	editorial.pt.
600.	case report/ or case study/
601.	(letter or comment*).ti.
602.	or/7-11
603.	randomized controlled trial/ or random*.ti,ab.
604.	12 not 13
605.	animal/ not human/
606.	nonhuman/
607.	exp Animal Experiment/

608.	exp Experimental Animal/
609.	animal model/
610.	exp Rodent/
611.	(rat or rats or mouse or mice).ti.
612.	or/15-21
613.	6 not 22
614.	limit 23 to English language
615.	health economics/
616.	exp economic evaluation/
617.	exp health care cost/
618.	exp fee/
619.	budget/
620.	funding/
621.	budget*.ti,ab.
622.	cost*.ti.
623.	(economic* or pharmaco?economic*).ti.
624.	(price* or pricing*).ti,ab.
625.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
626.	(financ* or fee or fees).ti,ab.
627.	(value adj2 (money or monetary)).ti,ab.
628.	or/25-37
629.	quality adjusted life year/
630.	sickness impact profile/
631.	(quality adj2 (wellbeing or well being)).ti,ab.
632.	sickness impact profile.ti,ab.
633.	disability adjusted life.ti,ab.
634.	(qal* or qtime* or qwb* or daly*).ti,ab.
635.	(euroqol* or eq5d* or eq 5*).ti,ab.
636.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
637.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
638.	(hui or hui1 or hui2 or hui3).ti,ab.
639.	(health* year* equivalent* or hye or hyes).ti,ab.
640.	discrete choice*.ti,ab.
641.	rosser.ti,ab.
642.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
643.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
644.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
645.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
646.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.

647.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
648.	or/39-57
649.	24 and (38 or 58)

NHS EED and HTA (CRD) search terms

#60.	MeSH DESCRIPTOR Epilepsy EXPLODE ALL TREES
#61.	MeSH DESCRIPTOR Seizures EXPLODE ALL TREES
#62.	MeSH DESCRIPTOR Status Epilepticus EXPLODE ALL TREES
#63.	MeSH DESCRIPTOR Seizures, Febrile EXPLODE ALL TREES
#64.	((dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome))
#65.	#1 OR #2 OR #3 OR #4 OR #5

1.14 Epilepsies search strategy 14_Vagus Nerve Stimulation (N)

This literature search strategy was used for the following review:

- What is the effectiveness of vagus nerve stimulation in epilepsy?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual.{NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

1.14.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 25: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 13 May 2021	Randomised controlled trials Systematic review studies Observational studies Exclusions
Embase (OVID)	1974 – 13 May 2021	Randomised controlled trials Systematic review studies Observational studies

Database	Dates searched	Search filter used
		Exclusions
The Cochrane Library (Wiley)	Cochrane Reviews to 2021 Issue 5 of 12 CENTRAL to 2021 Issue 5 of 12	None

Medline (Ovid) search terms

914.	exp epilepsy/
915.	seizures/
916.	exp status epilepticus/
917.	seizures, febrile/
918.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
919.	or/1-5
920.	letter/
921.	editorial/
922.	news/
923.	exp historical article/
924.	Anecdotes as Topic/
925.	comment/
926.	case report/
927.	(letter or comment*).ti.
928.	or/7-14
929.	randomized controlled trial/ or random*.ti,ab.
930.	15 not 16
931.	animals/ not humans/
932.	exp Animals, Laboratory/
933.	exp Animal Experimentation/
934.	exp Models, Animal/
935.	exp Rodentia/
936.	(rat or rats or mouse or mice).ti.
937.	or/17-23
938.	6 not 24
939.	limit 25 to English language
940.	Vagus Nerve/ or vagus nerve stimulation/
941.	((vagus or vagal or electric*) adj3 (stimul* or therap* or treatment*)).ti,ab.
942.	(VNS or pulse generator or LivaNova or Aspire* or SenTiva or autostim*).ti,ab.
943.	or/27-29
944.	randomized controlled trial.pt.

945.	controlled clinical trial.pt.
946.	randomi#ed.ti,ab.
947.	placebo.ab.
948.	randomly.ti,ab.
949.	Clinical Trials as topic.sh.
950.	trial.ti.
951.	or/31-37
952.	Meta-Analysis/
953.	exp Meta-Analysis as Topic/
954.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
955.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
956.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
957.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
958.	(search* adj4 literature).ab.
959.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
960.	cochrane.jw.
961.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
962.	or/39-48
963.	Epidemiologic studies/
964.	Observational study/
965.	exp Cohort studies/
966.	(cohort adj (study or studies or analys* or data)).ti,ab.
967.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
968.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
969.	Controlled Before-After Studies/
970.	Historically Controlled Study/
971.	Interrupted Time Series Analysis/
972.	(before adj2 after adj2 (study or studies or data)).ti,ab.
973.	exp case control studies/
974.	case control*.ti,ab.
975.	Cross-sectional studies/
976.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
977.	or/50-63
978.	26 and 30 and (38 or 49 or 64)

Embase (Ovid) search terms

932.	exp epilepsy/
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933.	seizure/
934.	epileptic state/
935.	febrile convulsion/
936.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
937.	or/1-5
938.	letter.pt. or letter/
939.	note.pt.
940.	editorial.pt.
941.	case report/ or case study/
942.	(letter or comment*).ti.
943.	or/7-11
944.	randomized controlled trial/ or random*.ti,ab.
945.	12 not 13
946.	animal/ not human/
947.	nonhuman/
948.	exp Animal Experiment/
949.	exp Experimental Animal/
950.	animal model/
951.	exp Rodent/
952.	(rat or rats or mouse or mice).ti.
953.	or/14-21
954.	6 not 22
955.	limit 23 to English language
956.	Vagus Nerve/ or vagus nerve stimulation/
957.	((vagus or vagal or electric*) adj3 (stimul* or therap* or treatment*)).ti,ab.
958.	(VNS or pulse generator or LivaNova or Aspire* or SenTiva or autostim*).ti,ab.
959.	or/25-27
960.	random*.ti,ab.
961.	factorial*.ti,ab.
962.	(crossover* or cross over*).ti,ab.
963.	((doubl* or singl*) adj blind*).ti,ab.
964.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
965.	crossover procedure/
966.	single blind procedure/
967.	randomized controlled trial/
968.	double blind procedure/
969.	or/29-37
970.	systematic review/

971.	meta-analysis/
972.	(meta analy* or metanaly* or metaanaly* or meta regression).ti,ab.
973.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
974.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
975.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
976.	(search* adj4 literature).ab.
977.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
978.	cochrane.jw.
979.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
980.	or/39-48
981.	Clinical study/
982.	Observational study/
983.	family study/
984.	longitudinal study/
985.	retrospective study/
986.	prospective study/
987.	cohort analysis/
988.	follow-up/
989.	cohort*.ti,ab.
990.	57 and 58
991.	(cohort adj (study or studies or analys* or data)).ti,ab.
992.	((follow up or observational or uncontrolled or non random#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
993.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
994.	(before adj2 after adj2 (study or studies or data)).ti,ab.
995.	exp case control study/
996.	case control*.ti,ab.
997.	cross-sectional study/
998.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
999.	or/50-56,59-67
1000.	24 and 28 and (38 or 49 or 68)

Cochrane Library (Wiley) search terms

#351.	MeSH descriptor: [Epilepsy] explode all trees
#352.	MeSH descriptor: [Seizures] explode all trees
#353.	MeSH descriptor: [Status Epilepticus] explode all trees
#354.	MeSH descriptor: [Seizures, Febrile] explode all trees

#355.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome):ti,ab
#356.	(or #1-#5)
#357.	MeSH descriptor: [Vagus Nerve] explode all trees
#358.	MeSH descriptor: [Vagus Nerve Stimulation] explode all trees
#359.	((vagus or vagal or electric*) near/3 (stimul* or therap* or treatment*)):ti,ab
#360.	(VNS or pulse generator or LivaNova or Aspire* or SenTiva or autostim*):ti,ab
#361.	(or #7-#10)
#362.	#6 and #11

1.14.2 Health Economics literature search strategy

Health economic evidence was identified by conducting a broad search relating to an Epilepsies population in NHS Economic Evaluation Database (NHS EED – this ceased to be updated after March 2015) and the Health Technology Assessment database (HTA) with no date restrictions. NHS EED and HTA databases are hosted by the Centre for Research and Dissemination (CRD). Additional searches were run on Medline and Embase for health economics and quality of life studies.

Table 26: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1946 – 13 May 2021	Exclusions
Embase	Health Economics 1 January 2014 – 13 May 2021	Health economics studies Quality of life studies
	Quality of Life 1974 – 13 May 2021	Exclusions
Centre for Research and Dissemination (CRD)	HTA - Inception – 13 May 2021 NHSEED - Inception to 31 March 2015	None

Medline (Ovid) search terms

694.	exp epilepsy/
695.	seizures/
696.	exp status epilepticus/
697.	seizures, febrile/
698.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
699.	or/1-5

700.	letter/
701.	editorial/
702.	news/
703.	exp historical article/
704.	Anecdotes as Topic/
705.	comment/
706.	case report/
707.	(letter or comment*).ti.
708.	or/7-14
709.	randomized controlled trial/ or random*.ti,ab.
710.	15 not 16
711.	animals/ not humans/
712.	exp Animals, Laboratory/
713.	exp Animal Experimentation/
714.	exp Models, Animal/
715.	exp Rodentia/
716.	(rat or rats or mouse or mice).ti.
717.	or/17-23
718.	6 not 24
719.	limit 25 to English language
720.	Economics/
721.	Value of life/
722.	exp "Costs and Cost Analysis"/
723.	exp Economics, Hospital/
724.	exp Economics, Medical/
725.	Economics, Nursing/
726.	Economics, Pharmaceutical/
727.	exp "Fees and Charges"/
728.	exp Budgets/
729.	budget*.ti,ab.
730.	cost*.ti.
731.	(economic* or pharmaco?economic*).ti.
732.	(price* or pricing*).ti,ab.
733.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
734.	(financ* or fee or fees).ti,ab.
735.	(value adj2 (money or monetary)).ti,ab.
736.	or/27-42
737.	quality-adjusted life years/
738.	sickness impact profile/

739.	(quality adj2 (wellbeing or well being)).ti,ab.
740.	sickness impact profile.ti,ab.
741.	disability adjusted life.ti,ab.
742.	(qal* or qtime* or qwb* or daly*).ti,ab.
743.	(euroqol* or eq5d* or eq 5*).ti,ab.
744.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
745.	(hui or hui1 or hui2 or hui3).ti,ab.
746.	(health* year* equivalent* or hye or hyes).ti,ab.
747.	discrete choice*.ti,ab.
748.	rosser.ti,ab.
749.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
750.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
751.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
752.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
753.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
754.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
755.	or/44-61
756.	26 and (43 or 62)

Embase (Ovid) search terms

650.	exp *epilepsy/
651.	*landau kleffner syndrome/
652.	exp *seizure/
653.	"seizure, epilepsy and convulsion"/
654.	(dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome).ti,ab.
655.	or/1-5
656.	letter.pt. or letter/
657.	note.pt.
658.	editorial.pt.
659.	case report/ or case study/
660.	(letter or comment*).ti.
661.	or/7-11
662.	randomized controlled trial/ or random*.ti,ab.
663.	12 not 13
664.	animal/ not human/
665.	nonhuman/
666.	exp Animal Experiment/
667.	exp Experimental Animal/

668.	animal model/
669.	exp Rodent/
670.	(rat or rats or mouse or mice).ti.
671.	or/15-21
672.	6 not 22
673.	limit 23 to English language
674.	health economics/
675.	exp economic evaluation/
676.	exp health care cost/
677.	exp fee/
678.	budget/
679.	funding/
680.	budget*.ti,ab.
681.	cost*.ti.
682.	(economic* or pharmaco?economic*).ti.
683.	(price* or pricing*).ti,ab.
684.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
685.	(financ* or fee or fees).ti,ab.
686.	(value adj2 (money or monetary)).ti,ab.
687.	or/25-37
688.	quality adjusted life year/
689.	sickness impact profile/
690.	(quality adj2 (wellbeing or well being)).ti,ab.
691.	sickness impact profile.ti,ab.
692.	disability adjusted life.ti,ab.
693.	(qal* or qtime* or qwb* or daly*).ti,ab.
694.	(euroqol* or eq5d* or eq 5*).ti,ab.
695.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
696.	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
697.	(hui or hui1 or hui2 or hui3).ti,ab.
698.	(health* year* equivalent* or hye or hyes).ti,ab.
699.	discrete choice*.ti,ab.
700.	rosser.ti,ab.
701.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
702.	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
703.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
704.	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
705.	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
706.	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.

707.	or/39-57
708.	24 and (38 or 58)

NHS EED and HTA (CRD) search terms

#66.	MeSH DESCRIPTOR Epilepsy EXPLODE ALL TREES
#67.	MeSH DESCRIPTOR Seizures EXPLODE ALL TREES
#68.	MeSH DESCRIPTOR Status Epilepticus EXPLODE ALL TREES
#69.	MeSH DESCRIPTOR Seizures, Febrile EXPLODE ALL TREES
#70.	((dravet syndrome or epilep* or continuous spike wave or slow sleep or landau kleffner syndrome or lennox gastaut syndrome or infant* spasm* or seizure* or west syndrome))
#71.	#1 OR #2 OR #3 OR #4 OR #5