

Neuropathic pain systematic review searches

1. What is the clinical effectiveness of different pharmacological treatments as monotherapy compared with each other or placebo for the management of neuropathic pain in adults, outside of specialist pain management services?
2. What is the clinical effectiveness of different pharmacological treatments as combination therapy compared with other combination therapies, monotherapy or placebo for the management of neuropathic pain in adults, outside of specialist pain management services?

The MEDLINE search strategy is presented below and was translated for use in all of the databases listed above.

1. (neuropathic* adj3 pain*).tw.
2. Diabetic Neuropathies/
3. (diabet* adj3 neurop*).tw.
4. Neuralgia, Postherpetic/
5. (postherp* adj3 neuralg*).tw.
6. Trigeminal Neuralgia/
7. (trigemin* adj3 neuralg*).tw.
8. (central* adj3 pain).tw.
9. Facial Pain/
10. Facial Neuralgia/
11. ((facial* or face) adj3 (pain* or neuralg*)).tw.
12. Burning Mouth Syndrome/
13. (burning adj3 mouth*).tw.
14. (HIV adj3 neuropath*).tw.
15. (neuropath* adj3 cancer* adj3 pain*).tw.
16. Pain, Postoperative/
17. (pain* adj3 (post-treatment* or post treatment* or posttreatment* or surg* or post-op* or postop* or post op*)).tw.
18. Phantom Limb/
19. (phantom adj3 limb*).tw.
20. Polyneuropathies/
21. (pain* adj3 polyneuropath*).tw.
22. (mixed adj3 neuropath* adj3 pain*).tw.
23. exp Nerve Compression Syndromes/
24. exp Peripheral Nervous System Diseases/
25. ((compress* or peripher*) adj3 (neurop* or nerv*)).tw.
26. Spinal Cord Injuries/
27. (spinal cord adj3 (injury or injuries or injured)).tw.
28. ((post amputation or post-amputation or postamputation) adj3 pain*).tw.
29. (stroke* adj3 pain*).tw.
30. (idiopathic* adj3 (pain* or neuropath*)).tw.
31. exp Multiple Sclerosis/
32. (MS or multiple sclerosis).tw.
33. Stroke/
34. Radiculopathy/
35. (radiculopath* or radicular pain*).tw.

36. exp Complex regional pain syndromes/
37. (complex adj3 region* adj3 pain*).tw.
38. CRPS.tw.
39. (sympathetic* adj3 dystroph*).tw.
40. (hand* adj3 shoulder* adj3 syndrom*).tw.
41. (sudek* adj3 atroph*).tw.
42. causalgia*.tw.
43. (neurogen* adj3 pain*).tw.
44. or/1-43
45. anticonvulsants/
46. (Anti convulsant* or anticonvulsant* or anti-convulsant* or anti epileptic* or antiepileptic* or anti-epileptic*).ti,ab.
47. Carbamazepine/
48. (Carbamazepine or Amizepin or Amizepine or Atretol or Biston or Calepsin or Carbamazepin or Carbategral or Carbatrol or Convuline or Epimax or Epitol or Equetro or Finlepsin or Lexin or Mazepine or Neurotol or Neurotop or Servimazepin or Sirtal or Tegral or Tegretal or Tegretol or Tegrital or Telesmin or Teril or Timonil).ti,ab.
49. (Oxcarbazepine or Apydan or Oxocarbamazepine or Oxocarbazepine or Timox or Trileptal).ti,ab.
50. (Gabapentin or Neurontin or Neurotonin).ti,ab.
51. (Pregabalin or Lyrica).ti,ab.
52. Phenytoin/
53. (Phenytoin or Alepsin or Aleviatin or Antilepsin or Antisacer or Cansoin or Citrullamon or Comital or Danten or Dantoin or Denyl or Difetoin or Differenin or Difhydan or Di Hydan or Dihydan or Dilantin or Dintoin or Dintoina or Diphantoin or Diphantoine or Diphantoin or Diphedal or Diphedan or Diphenin or Diphenine or Diphentoin or Diphenylan or Diphenytoin or Ekko or Epanutin or Epelin or Epilantin or Eptal or Eptoin or Fenantoin or Fenitoin or Fenytoin or Fenytoine or Hidantal or Hydantin or Hydantinal or Hydantoinal or Idantoin or Lepitoin or Minetoin or Neosidantoina or Phenhydan or Phenhydane or Phenybin or Phenydan or Phenydantin or Phenytoine or Phenytoin or Phenytoinum or Phenytonium or Sanepil or Sodantoin or Sodanton or Solantoin or Solantyl or Tacosal or Zentropil).ti,ab.
54. (Lamotrigine or Labileno or Lamictal).ti,ab.
55. Valproic acid/
56. (Sodium valproate or Alpha Propylvalerate or Alpha Propylvaleric Acid or Apilepsin or Convulex or Depacon or Depakene or Depakin or Depakine or Deprakine or Dipropylacetate or Dipropylacetatic Acid or Dipropyl Acetic Acid or Dipropylacetic Acid or Diprosin or Epilim or Ergenyl or Everiden or Goilim or Labazene or Leptilan or Leptilanil or Mylproin or Myproic Acid or Orfiril or Orlept or Propymal or Valerin or Valparin or Valpro or Valproate or Valproate Sodium or Vupral).ti,ab.
57. (Topiramate or Epitomax or Topamax or Topimax).ti,ab.
58. (lacosamide* or vimpat* or erlosamide* or harkoseride*).tw.
59. (levetiracetam* or keppra* or etiracetam*).tw.
60. or/45-59
61. exp Antidepressive Agents, Tricyclic/
62. tricyclic*.ti.
63. tetracyclic*.ti,ab.

64. (tricyclic* adj2 (antidepress* or drug*)).ti,ab.
65. (tricyclic* adj2 (antidepress* or agent*)).ti,ab.
66. (tricyclic* adj2 (antidepress* or med*)).ti,ab.
67. (tetracyclic* adj2 (antidepress* or drug*)).ti,ab.
68. (tetracyclic* adj2 (antidepress* or agent*)).ti,ab.
69. (tetracyclic* adj2 (antidepress* or med*)).ti,ab.
70. Amitriptyline/
71. (adepress or adepril or ambivalon or amitid or amitril or amitriptylene or amitriptylin* or amitryptiline or amitryptilline or amitryptine or amitriptyline or amytriptiline or amytriptyline or amytriptiline or antitriptyline or damilene or damylene or elatrol or elavil or endep or enovil or etafon or etafon or euplit or lantron or laroxal or laroxyl or lentizol or propheptadien redomex or sarboten or saroten* or sarotex or stelminal or sylvemid or teperin or terepin or triptanol or triptizol or triptyl* or triptyline or tryptanol or tryptizol).tw.
72. (triptafen or triptafen-M).tw.
73. Clomipramine/
74. (clomipramin* or anafranil or anafranilin or anafranyl or chlomipramine or chloroimipramine or domipramine or hydiphen or monochlor imipramine or monochlorimipramine or monochloroimipramine).tw.
75. Dothiepin/
76. (dothiepin or dosulepin* or altapin or depresym or idom or prothiaden* or prothiadene or prothiadiene or prothiadin or protiaden).tw.
77. Doxepin/
78. (doxepin* or adapin* or aponal or co dox or curatin or deptran or desidax or quitaxon or silenor or sinequan or sinquan* or zonalon or sinepin).tw.
79. Imipramine/
80. (imipramin* or antideprin or berkomin or chrytemin or deprinol or la pram or imavate or imidol or imipramide or imiprimin or imizin or janimine or melopramin* or norpramine or presamine or pryleugan or psychoforin* or servipromine or sk pramine or tofranil or trofranil).tw.
81. Lofepramine/
82. (lofepramine or gamanil or gamonil or amplit or lopramine or tymelyt or feprapax or lomont).tw.
83. Nortriptyline/
84. (nortriptylin* or acetexa or allegron or atilev or altilev or avantyl or aventyl or desitriptyline or desmethylamitriptyline or martimil or noramitriptyline or noritren or nortrilen* or nortryptilin* or nortriptyline or pamelor or paxtibi or psychostyl or sensaval).tw.
85. Trimipramine/
86. (trimipramine or herphonal or stangyl or trimepramine or trimiprimin* or trimepropimine or trimoprimine or surmontil).tw.
87. Citalopram/
88. (citalopram or celexa or cipramil or cytalopram or elopram or nitalapram or sepram or seropram).tw.
89. Fluoxetine/
90. (fluoxetine or fluctin* or flunirin or fluoxifar or lovan or prosac or prozac or prozamin or sarafem).tw.
91. Paroxetine/
92. (paroxetine or aropax or deroxat or dexorat or motivan or paxil or pexeva or tagonis or seroxat).tw.

93. Sertraline/
 94. (sertraline or gladen or lustral or serad or serlain or tresleen or zoloff).tw.
 95. (duloxetine* or cymbalta or ariclaim or xeristar or yentreve).tw.
 96. (venlafaxine or effexor or efexor or trevilor).tw.
97. Desipramine/
 98. (demethylimipramine or desipramine or desimipramine or desipramin or desmethyl imipramin or desmethylimipramin or desmethyl imipramine or desmethylimipramine or despiramine or dmi or norimipramine or norpramin or norpramine or nortimil or pentrofrane or pertofran or pertofrane or pertofrin or pertofran or petrofrane or petylyl or sertofran).tw.
 99. (Escitalopram* or Cipralex* or Lexapro*).tw.
100. Trazodone/
 101. (Trazodone* or molipaxin* or Desyrel* or Oleptro* or Trialodine*).tw.
 102. (Mirtazapine* or zispin* or soltab* or Remeron*).tw.
 103. (reboxetine* or edronax*).tw.
104. or/61-103
 105. Analgesics, Opioid/
 106. (opioid adj3 analgesic*).tw.
 107. opioids.tw.
 108. Acetaminophen/
 109. (acetaminophen or paracetamol or percogesic).tw.
 110. 108 or 109
 111. Codeine/
 112. codeine.tw.
 113. 111 or 112
 114. 110 and 113
 115. (co codamol or cocodamol or co-codamol or codipar or empracet or hypertussin K or hypertussin S or kapake or lindilane or medocodene or nedolon or panadeine or paracodal or solpadol or talvosilen or treuphadol or tylex).tw.
 116. dihydrocodeine.tw.
 117. 110 and 116
118. (codydramol or co-dydramol or co dydramol or codidramol or paramol).tw.
 119. 105 or 106 or 107 or 114 or 115 or 117 or 118
 120. Morphine/
 121. (anpec or cis morphine or cyclimorph or duromorph or epimorph or microcrystalline morphine suspension or minijet or miro or morfin or morfine or morphgesic or morphin or morphine or morphia or morphinium or morphium or mst continus or mxl or opso or oramorph or sevredol or skenan or trans morphine or zomorph).tw.
 122. dihydrocodeine.tw.
 123. Oxycodone/
 124. (bionine or bionone or bolodorm or broncodal or bucodal or cafacodal or cardanon or codenon or dihydrone or dihydrohydroxycodone or dihydrohydroxydodeinone or dinarkon or endone or eubine or eucodal or eucodale or eudin or eukdin or eukodal or eumorphal or eurodamine or eutagen or hydrocodal or hydroxycodone or ludonal or medicodal or narcobasina or narcobasine or narcosin or nargenol or narodal or nucodan or opton or ossicodone or oxanest or oxicone or oxiconum or oxikon or oxycodone hydrochloride or oxycodone hydrochloride or oxycodonhydrochlorid

- or oxycodone or oxycodyl or oxycone or oxycontin or oxygesic or oxykon or oxynorm or pancodine or pavinal or pronarcin or remoxy or roxicodone or roxycodone or sinthiodal or stupenal or tebodol or tekodin or thecodin).tw.
125. Tramadol/
 126. (contramal or dolzam or dromadol or kontram XL or larapam or mabron or melanate or nobligan or topalgic or tradorec XL or tramadol hydrochloride or tramadolium chloride or tramagit or tramake or tramal or tramundin or tramundin retard or trodon or trondon or ultram or zamadol or zydol).tw.
 127. Buprenorphine/
 128. (buprenorphine or buprenex or buprex or butrans or finibron or lepetan or subutex or temgesic or transtec).tw.
 129. Fentanyl/
 130. (actiq or duragesic or durogesic or fentamyl or fentanil or fentanyl or leptanal or matrifen or phentanyl or tilofyl or transfenta).tw.
 131. (tapentadol* or palexia* or nucynta*).tw.
 132. (targinact* or suboxone*)
 133. or/119-132
 134. phosphate.tw.
 135. Phosphates/
 136. 134 or 135
 137. 114 and 136
 138. (codein phosphate or codicompren retard or colrex compound or galcodine or kodein or tricodein or tussispect).tw.
 139. 133 or 137 or 138
 140. Lidocaine/
 141. (Anestacon or Anestacone or Aritmal or Astracaine or Betacaine or Cidancaina or Corus or Dalcaine or Dolicaine or Duncaine or Esracain or Gravocain or Isicaine or Leostesin or Lida Mantle or Lidocain or Lidocaine or Lidocaton or Lidocor or Lidocorit or Lidoderm or Lidopain or Lidesthesin or Lignocaine or Lignostab or Lincaine or Liquocaine or Maricaine or Neolidocaton or Novutox or Penles or Rucaina or Ruciana or Solcaine or Vasocaine or Versatis or Xidocaine or Xiline or Xilyne or Xylcaine or Xylestesin or Xylocain or Xylcaine or Xylocard or Xylocitin or Xyloneural or Xylonor or Xyloproct or Xyloton or Xylotox or Xylyne).ti,ab.
 142. Capsaicin/
 143. (Algrx or Axsain or Biozone or Capsaicine or Capsaicin or Capsicaine or Capsidol or Capsig or Captrix or Dolenon or Dolorac or Styptysat or Zostrix).ti,ab.
 144. or/140-143
 145. Flecainide/
 146. (flecainide* or tambocor*).tw.
 147. Serotonin 5-HT1 Receptor Agonists/
 148. ((5ht1 or 5-ht1) adj3 (agonist* or block* or receptor*)).tw.
 149. (almotriptan* or almogran* or axert*).tw.
 150. (eletriptan* or relpax*).tw.
 151. (frovatriptan* or migard* or frova*).tw.
 152. (naratriptan* or naramig* or amerge*).tw.
 153. (rizatriptan* or maxalt*).tw.
 154. Sumatriptan/
 155. (sumatriptan* or imigran* or imitrex or sumavel*).tw.
 156. (zolmitriptan* or zomig*).tw.

- 157. (nabiximols* or sativex*).tw.
- 158. (cannab* adj3 extract*).tw.
- 159. or/145-158
- 160. 60 or 104 or 139 or 144 or 159
- 161. 44 and 160
- 162. Animals/ not Humans/
- 163. 160 not 162
- 164. Limit 162 to English language

Search filters to retrieve reports of randomised controlled trials and systematic reviews were appended to identify relevant evidence.

In addition search filters were also applied to separately identify economic evaluations and quality of life evidence.

RCT and SR filters

- 1. Randomized Controlled Trial.pt.
- 2. Controlled Clinical Trial.pt.
- 3. Clinical Trial.pt.
- 4. exp Clinical Trials as Topic/
- 5. Placebos/
- 6. Random Allocation/
- 7. Double-Blind Method/
- 8. Single-Blind Method/
- 9. Cross-Over Studies/
- 10. ((random* or control* or clinical*) adj2 (trial* or stud*)).tw.
- 11. (random* adj2 allocat*).tw.
- 12. placebo*.tw.
- 13. ((singl* or doubl* or trebl* or tripl*) adj (blind* or mask*)).tw.
- 14. (crossover* or (cross adj over*)).tw.
- 15. or/1-15
- 16. Meta-Analysis.pt.
- 17. Meta-Analysis as Topic/
- 18. Review.pt.
- 19. exp Review Literature as Topic/
- 20. (metaanaly* or metanaly* or (meta adj2 analy*)).tw.
- 21. (review* or overview*).ti.
- 22. (systematic* adj4 (review* or overview*)).tw.
- 23. ((quantitative* or qualitative*) adj4 (review* or overview*)).tw.
- 24. ((studies or trial*) adj1 (review* or overview*)).tw.
- 25. (integrat* adj2 (research or review* or literature)).tw.
- 26. (pool* adj1 (analy* or data)).tw.
- 27. (handsearch* or (hand adj2 search*)).tw.
- 28. (manual* adj2 search*).tw.
- 29. or/16-28
- 30. 15 or 29

Economic filters

1. Economics/
2. exp "Costs and Cost Analysis"/
3. Economics, Dental/
4. exp Economics, Hospital/
5. exp Economics, Medical/
6. Economics, Nursing/
7. Economics, Pharmaceutical/
8. Budgets/
9. exp Models, Economic/
10. Markov Chains/
11. Monte Carlo Method/
12. Decision Trees/
13. econom*.tw.
14. cba.tw.
15. cea.tw.
16. cua.tw.
17. markov*.tw.
18. (monte adj carlo).tw.
19. (decision adj2 (tree* or analys*)).tw.
20. (cost or costs or costing* or costly or costed).tw.
21. (price* or pricing*).tw.
22. budget*.tw.
23. expenditure*.tw.
24. (value adj2 (money or monetary)).tw.
25. (pharmacoeconomic* or (pharmaco adj economic*)).tw.
26. or/1-25
27. "Quality of Life"/
28. quality of life.tw.
29. "Value of Life"/
30. Quality-Adjusted Life Years/
31. quality adjusted life.tw.
32. (qaly* or qald* or qale* or qtime*).tw.
33. disability adjusted life.tw.
34. daly*.tw.
35. Health Status Indicators/
36. (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or sortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).tw.
37. (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).tw.
38. (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).tw.
39. (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).tw.
40. (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).tw.
41. (euroqol or euro qol or eq5d or eq 5d).tw.
42. (qol or hql or hqol or hrqol).tw.

43. (hye or hyes).tw.
44. health* year* equivalent*.tw.
45. utilit*.tw.
46. (hui or hui1 or hui2 or hui3).tw.
47. disutili*.tw.
48. rosser.tw.
49. quality of wellbeing.tw.
50. quality of well-being.tw.
51. qwb.tw.
52. willingness to pay.tw.
53. standard gamble*.tw.
54. time trade off.tw.
55. time tradeoff.tw.
56. tto.tw.
57. or/26-56
58. 25 or 57