Excluded Study - Reasons

**Question** 1 How effective and cost-effective are anti-epileptic drugs for focal seizures with/without secondary generalisation

**Reviewer**

468 Kaminow L; Schimschock JR; Hammer AE; Vuong A;
Lamotrigine monotherapy compared with carbamazepine, phenytoin, or valproate monotherapy in patients with epilepsy
2003 Dec Epilepsy & Behavior 4 6 659 666

**Study Type**

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

**Comments**

Participants with partial seizures not over 80%; open study.
Excluded Study - Reasons

Glauser TA;
Expanding first-line therapy options for children with partial seizures
2000 Neurology 55 11 SUPPL. S30 S37

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Review.
Excluded Study - Reasons

592 Brodie MJ;
Pregabalin as adjunctive therapy for partial seizures
2004 Epilepsia 45 SUPPL. 6 19 27

Study Type

  - Study Design: wrong for question
  - Study Quality: methods & execution
  - Consistency: Similarity of estimates of effect across studies
  - Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

564 Rheims S; Cucherat M; Arzimanoglou A; Ryvlin P;
Greater response to placebo in children than in adults: A systematic review and meta-analysis in drug-resistant partial epilepsy

2008 PLoS Medicine 5 8 1223 1237

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Systematic review.
Excluded Study - Reasons

Beydoun A; Nasreddine W; Atweh S;
Efficacy and tolerability of pregabalin in partial epilepsy
2008 Expert Review of Neurotherapeutics

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

562  
Bauer J;Cooper-Mahkorn D;  
Tiagabine: Efficacy and safety in partial seizures - Current status  
2008  
Neuropsychiatric Disease and Treatment  
4 4 731 736

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

544 Ryvlin P; Perucca E; Rheims S;
Pregabalin for the management of partial epilepsy
2008 Neuropsychiatric 4 6 1211 1224
Disease and Treatment

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Review.
Excluded Study - Reasons

484
Levetiracetam: new preparation. For some patients with refractory partial epilepsy
2003 Apr Prescrire 12 64 53 54
International Prescrire Int

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Review.
Excluded Study - Reasons

525  Sackellares JC; Krauss G; Sommerville KW; Deaton R;
Occurrence of psychosis in patients with epilepsy randomized to tiagabine or placebo treatment
2002 Apr  Epilepsia  43  4  394  398

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

All seizure types included. Do not know how many had partial seizures. Not RCT (post analysis)
### Excluded Study - Reasons

246  Brodie MJ; Read CL; Gillham RA; Sweet RM; Kane K;
Lack of neuropsychological effects of lamotrigine compared to carbamazepine as monotherapy.
1999  Epilepsia  40  Suppl 2  94

**Study Type**

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

**Comments**

Abstract.
Excluded Study - Reasons

Leppik IE; Biton V; Sander JW; Wieser HG; Levetiracetam and partial seizure subtypes: pooled data from three randomized, placebo-controlled trials
2003 Dec Epilepsia 44 12 1585 1587

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Pooled 3 RCTs.
Excluded Study - Reasons

Devinsky O; Elger C; Efficacy of levetiracetam in partial seizures.  
2003 Epileptic Disorders 5 SUPPL. 1 S27 S31

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: Not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

382 Banu SH; Jahan M; Koli UK; Ferdousi S; Khan NZ; Neville B;
Side effects of phenobarbital and carbamazepine in childhood epilepsy: randomised controlled trial.[see comment]
2007 Jun 9 BMJ 334 7605 1207
BMJ: British Medical Journal

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Participants with partial seizures not over 80%.
Excluded Study - Reasons

380
Zonisamide: new drug. No advantage in refractory partial epilepsy
2007 Jun Prescrire 16 89 95 97
   International Prescrire Int

Study Type

   Study Design-wrong for question
   Study Quality- methods & execution
   Consistency -Similarity of estimates of effect across studies
   Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

362 Donati F;Gobbi G;Campistol J;Rapatz G;Daehler M;Sturm Y;Aldenkamp AP;Oxcarbazepine Cognitive Study Group.;

The cognitive effects of oxcarbazepine versus carbamazepine or valproate in newly diagnosed children with partial seizures

2007 Dec Seizure 16 8 670 679

Study Type

  Study Design-wrong for question
  Study Quality- methods & execution
  Consistency -Similarity of estimates of effect across studies
  Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments

Dosages too high for children.
Excluded Study - Reasons

253  Veendrick-Meekes MJBM; Beun AM; Carpay JA; Arends LR; Scholsser A;

Use of Lamictal® as adjunctive therapy in patients with mental retardation and epilepsy: final analysis of a double-blind study with evaluation of behavioural effects. Poster presentation.

2000  4th European Congress of Epileptology

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Industry submission in HTA and combination of partial and generalised but does not specify how many.
Excluded Study - Reasons

252 Sackellares C; Kwong W; Vuong A; Hammer A; Barratt P;
Lamotrigine monotherapy improves health-related quality of life in epilepsy: a double-blind comparison with valporate.
2000 Epilepsia 41 28

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Number of participants with partial epilepsy was not over 80%.
Excluded Study - Reasons

251  Yaqub B; Aldeeb S; Cheung GKP; Thomas W; Ahmed R; Khan S;
Lamotrigine treatment in severe epilepsy.
1995  Epilepsia  36  Suppl 3  S115

Study Type

  Study Design - wrong for question
  Study Quality - methods & execution
  Consistency - Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Abstract. Combination of partial and generalised.
Excluded Study - Reasons

250 Specchio LM; La Neve A; Spinelli A; Boero G; Tramacere I; Specchio N;
Vigabatrin (VGB), lamotrigine (LTG), and gabapentin (GBP) in refractory partial epilepsy: an open comparative long term study.

1999 Neurology 52 Suppl 6 A524

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Abstract.
Excluded Study - Reasons

Coles H; Baker G; O'Donoghue M;
Seizure severity in patients with partial onset (POS) or primary generalised tonic clonic (PGTC) seizures following treatment with topiramate. A comparison of two different methodologies in a randomised controlled trial.

1999 Epilepsia 40 Suppl 2 285

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Abstract.
Excluded Study - Reasons

247 Aikia M;Kalviainen R;Riekkinen PJ;
The cognitive effects of initial tiagabine monotherapy.
1999 Epilepsia 40 Suppl 7 51

Study Type

  Study Design-wrong for question
  Study Quality- methods & execution
  Consistency -Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Abstract.
Excluded Study - Reasons

521 Birbeck GL; Hays RD; Cui X; Vickrey BG;
Seizure reduction and quality of life improvements in people with epilepsy
2002 May Epilepsia 43 5 535 538

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Participants with partial seizures not over 80%.
Excluded Study - Reasons

Hamandi K; Sander JW;
Pregabalin: a new antiepileptic drug for refractory epilepsy. [Review] [21 refs]
2006 Mar Seizure 15 2 73 78

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

Privitera MD; Brodie MJ; Mattson RH; Chadwick DW; Neto W; Wang S; Study Group.

Topiramate, carbamazepine and valproate monotherapy: double-blind comparison in newly diagnosed epilepsy

2003 Mar

Acta Neurologica Scandinavica
Acta Neurol Scand

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Participants with partial seizures were not over 80%.
Excluded Study - Reasons

Wroe S; Zonisamide and renal calculi in patients with epilepsy: how big an issue?
2007 Aug Current Medical 23 8 1765 1773
Research & Opinion

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
**Excluded Study - Reasons**

Naritoku DK; Hulihan JF; Schwarzman LK; Kamin M; Olson WH;

**Effect of cotherapy reduction on tolerability of epilepsy add-on therapy: a randomized controlled trial**

2005 Annals of Pharmacotherapy

38 39 3 418 423

**Study Type**

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

**Comments**

Same drug either flex dose or fixed dose.
Excluded Study - Reasons

Baulac M; Leppik IE;
Efficacy and safety of adjunctive zonisamide therapy for refractory partial seizures. [Review] [63 refs]
2007 Jul
Epilepsy Research 75 2-3 75 83

Epilepsy Res

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

472  Leppik I; Morrell M; Godfroid P; Arrigo C;
Seizure-free days observed in randomized placebo-controlled add-on trials with levetiracetam in partial epilepsy
2003 Oct  Epilepsia  44  10  1350  1352

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Brief communication.
Excluded Study - Reasons

518 Brodie MJ;
Zonisamide as adjunctive therapy for refractory partial seizures. [Review] [8 refs]
2006 Feb Epilepsy Research 68 S11 S16 Suppl 2

Epilepsy Res

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

4 RCTs - got.
Excluded Study - Reasons

873 Valentine C; Mettert N; Mosier M; Michon AM;
A parallel group study comparing oral adjunctive vigabatrin with placebo in children with uncontrolled complex partial seizures
1998 Epilepsia 39 Suppl 6 166

Study Type

- Study Design-wrong for question
- Study Quality- methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Limited data presentation (abstract format).
Excluded Study - Reasons

871  Shapiro DY; Nordli D; Glauser TA; Knapp LE; Greiner M; Purcell TJ;
Gabapentin as add-on therapy for refractory partial seizures in children 1-36 months of age: a novel, short-term, placebo-controlled trial
2000  Epilepsia  41  Suppl 7  106

Study Type

  Study Design - wrong for question
  Study Quality - methods & execution
  Consistency - Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Limited data presentation (abstract format)
Excluded Study - Reasons

755  Van Orman CB; Ruckh S; Mosier M;
Efficacy and safety of vigabatrin in children with uncontrolled complex partial seizures: a dose response study
1998  Epilepsia  39  Suppl 6  166

Study Type

- Study Design-wrong for question
- Study Quality- methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Limited data presentation (abstract format).
Excluded Study - Reasons

Warner G; Figgitt DP;

**Pregabalin: As adjunctive treatment of partial seizures**

2005 CNS Drugs 19 3 265 272

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

Bauer J; Stawowy B; Lenders T; Bettig U; Elger CE;

Efficacy and tolerability of tiagabine: Results of an add-on study in patients with refractory partial seizures
1995 Journal of Epilepsy 8 1 83 86

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

635 Xu N; Zhu D; Xiao B; Xie G;
Impact of traditional antiepileptic and topiramate on the quality of life of adult epileptic patients
2004 Chinese Journal of Clinical Rehabilitation

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Participants did not have over 80% partial seizures.
Excluded Study - Reasons

724  Privitera M; Brodie M; Mattson R; Chadwick D; Neto W; Wang S;
Topiramate, carbamazepine and valproate monotherapy: double-blind comparison in newly diagnosed epilepsy.
2002  Janssen-Cilag

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Industry submission in HTA, combination of partial and generalised epilepsy so no figures available.
**Excluded Study - Reasons**

722 Schmidt D;  
A randomised double-blind placebo controlled crossover add-on trial of lamotrigine in patients with treatment resistant partial seizures (Munich)  
1993 Wellcome Foundation H34-18

**Study Type**

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

**Comments**

This was an industry submission reported in the HTA. It was a crossover study where only the first phase data is reported for both arms. The end phase data is reported for the intervention group only.
Excluded Study - Reasons

Loiseau P;
Double-blind, multicenter trial in parallel groups comparing the safety and efficacy of Tripleptal and Tegretol as monotherapy in patients with epilepsy
1998 Novartis Pharmaceuticals

Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments

Data designated commercial in confidence and were removed from HTA.
Excluded Study - Reasons

719 Wilensky AJ;
A double-blind, single-center, 3-way crossover study in patients with refractory partial seizures to determine the efficacy and safety of gabapentin monotherapy compared with carbamazepine monotherapy and gabapentin/carbamazepine combination therapy and f
1996 Warner-Lambert

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Data designated commercial in confidence and removed from HTA.
Excluded Study - Reasons

Berg I; Butler A; Ellis M; Foster J;
Psychiatric aspects of epilepsy in childhood treated with carbamazepine, phenytoin or sodium valproate: a random trial
1993 Feb
Developmental Medicine & Child Neurology
Dev Med Child Neurol

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Partial and generalised seizures not reported separately.
Excluded Study - Reasons

Lopes-Lima JM; Pereira H; Sol JM; Morralla C; Hernandez G;
Gabapentin vs valproate in partial epilepsy uncontrolled by carbamazepin.
1999 European Journal of Neurology
6 Suppl 3 17
Eur J Neurol

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Abstract.
Excluded Study - Reasons

695
Oxcarbazepine and cognitive function in youth with partial seizures
2006 Nov

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Brief article of Donati (2007) - got.
Excluded Study - Reasons

669
A study of the effectiveness and safety of topiramate in the treatment of children with epilepsy
2005
www.clinicaltrials.gov/ct/show/NCT00236743

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
  - not relevant population, interventions, outcomes or did not answer the question.

Comments

Excluded Study - Reasons

523  Otoul C; Arrigo C; van RK; French JA;
Meta-analysis and indirect comparisons of levetiracetam with other second-generation antiepileptic drugs in partial epilepsy

2005 Mar  Clinical Neuropharmacology
         Clin Neuropharmacol

Study Type

  Study Design - wrong for question
  Study Quality - methods & execution
  Consistency - Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review. Included the studies.
Excluded Study - Reasons

753  Litzinger MJ; Hanny A;
Tiagabine therapy in a small group of pediatric patients with refractory partial seizure
1998  Annals of Neurology  44  B16
     Ann Neurol

Study Type

    Study Design - wrong for question
    Study Quality - methods & execution
    Consistency - Similarity of estimates of effect across studies
    Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Limited data presentation (abstract format).
Excluded Study - Reasons

122 Mattson RH; Cramer JA; Collins JF;
A comparison of valproate with carbamazepine for the treatment of complex partial seizures and secondarily generalized tonic-clonic seizures in adults. The Department of Veterans Affairs Epilepsy Cooperative Study No. 264 Group

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Cannot use data as unsure if % or numbers as they do not add up.
Excluded Study - Reasons

Gillham RA; Blacklaw J; McKee PJ; Brodie MJ;
Effect of vigabatrin on sedation and cognitive function in patients with refractory epilepsy
1993
J Neurol Neurosurg Psychiatry

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Data not reported separately for each arm for efficacy. Has only Z scores for cognitive outcomes.
Excluded Study - Reasons

Reinikainen KJ; Keranen T; Halonen T; Komulainen H; Riekkinen PJ;
Comparison of oxcarbazepine and carbamazepine: a double-blind study
1987 1 5 284 289

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

None of our outcomes given except adverse events and although the majority had partial seizures (15/46) compared to generalised seizures (10/46) there were 9 with mixed seizure types and 2 were unclassifiable.
Excluded Study - Reasons

160  Sveinbjørsdottir S; Sander JW; Patsalos PN; Upton D; Thompson PJ; Duncan JS;
Neuropsychological effects of tiagabine, a potential new antiepileptic drug
1994  Seizure  3  1  29  35

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

The maximum dosage used (52mg/day) was outside the usual dose maintenance (30-45mg/day).
Excluded Study - Reasons

Brodie MJ; Mumford JP;
Double-blind substitution of vigabatrin and valproate in carbamazepine-resistant partial epilepsy. 012 Study group
1999 Epilepsy Research 34 2-3 199 205

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Excluded Study - Reasons

Reunanen M; Dam M; Yuen AW;
A randomised open multicentre comparative trial of lamotrigine and carbamazepine as monotherapy in patients with newly
diagnosed or recurrent epilepsy
1996 23 2 149 155
Epilepsy Res

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Excluded due to mixed population (newly diagnosed and refractory) and mixed partial and/or generalized seizures without
information on the proportions of each seizure type (could not assess contamination). Results are presented for the whole
group.
Excluded Study - Reasons

198 Dam M; Ekberg R; Loyning Y; Waltimo O; Jakobsen K;
A double-blind study comparing oxcarbazepine and carbamazepine in patients with newly diagnosed, previously untreated epilepsy
1989 3 1 70 76
Epilepsy Res

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Trial included participants with PGTC and partial with or without secondary generalisation but no figures were given.
Excluded Study - Reasons

137 Shakir RA; Johnson RH; Lambie DG; Melville ID; Nanda RN;
Comparison of sodium valproate and phenytoin as single drug treatment in epilepsy
1981 Epilepsia 22 1 27 33

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Participants with partial seizures were not over 80%.
Excluded Study - Reasons

169 Aikia M;Kalviainen R;Sivenius J;Halonen T;Riekkinen PJ;
Cognitive effects of oxcarbazepine and phenytoin monotherapy in newly diagnosed epilepsy: one year follow-up
1992 11 3 199 203
Epilepsy Res

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Participants with partial seizures not over 80%.
Excluded Study - Reasons

129 Pulliainen V, Jokelainen M;
Effects of phenytoin and carbamazepine on cognitive functions in newly diagnosed epileptic patients
1994 89 2 81 86
Acta Neurol Scand

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Participants with partial seizures were not over 80%.
Excluded Study - Reasons

Loiseau P; Cohadon S; Jogeix M; Legroux M; Dartigues JF;
[Efficacy of sodium valproate in partial epilepsy. Crossed study of valproate and carbamazepine]
1984 140 6-7 434 437
Rev Neurol (Paris)

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Response conditional study.
Excluded Study - Reasons

120  Marson AG; Williamson PR; Taylor S; Maguire M; Chadwick DW;
Efficacy of carbamazepine and valproate as monotherapy for early epilepsy and single seizures
2006  Neurology  67  10  1872  1875

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Participants with partial seizures was not over 80% and only efficacy data provided.
Excluded Study - Reasons

Czapinski P; Terczynski A; Czapinska E;
Open randomized comparative study of vigabatrin (VGB) and lamotrigine (LTG) efficacy in monotherapy of patients with drug-resistant epilepsy with partial complex seizures resistant to carbamazepine (CBZ) (Abstract).

1997 Journal of Neurological Sciences 150 Suppl 1 S96

Study Type

Study Design: wrong for question
Study Quality: methods & execution
Consistency: Similarity of estimates of effect across studies
Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments
Abstract.
Excluded Study - Reasons

536 Wesnes KA; Edgar C; Dean ADP; Wroe SJ;  
The cognitive and psychomotor effects of remacemide and carbamazepine in newly diagnosed epilepsy  
2009 Epilepsy & Behavior 14 3 522 528

Study Type

  Study Design - wrong for question
  Study Quality - methods & execution
  Consistency - Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Drug not in KCQ for partial seizures.
Excluded Study - Reasons

92 Chen YJ; Kang WM; So WC;
Comparison of antiepileptic drugs on cognitive function in newly diagnosed epileptic children: a psychometric and neurophysiological study
1996 Epilepsia 37 1 81 86

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Unable to tell if generalised is primary generalised or secondary. Participants with partial seizures were not over 80%.
Excluded Study - Reasons

39  Wheless JW;Neto W;Wang S;EPMN-105 S;
Topiramate, carbamazepine, and valproate monotherapy: double-blind comparison in children with newly diagnosed epilepsy

2004  Journal of Child 19 2 135 141
Neurology

Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Participants with partial seizures were not over 80%.
Excluded Study - Reasons

241 Cordova S; Mendoza U;
High or low dose lamotrigine as add-on treatment of medically resistant epilepsy to inducer or valporate medication.
1995 Epilepsia 36 Suppl 3 S113

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Abstract.
Excluded Study - Reasons

242 Rosenfeld WE;Abou-Khalil B;Reife R;Hegadus R;Pledger G;
Placebo-controlled trial of topiramate as adjunctive therapy to carbamazepine or phenytoin for partial onset epilepsy.
1996 Epilepsia 37 Suppl 5 153

Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency-Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Abstract.
Excluded Study - Reasons

Meador K;Huliham J;Kamin R;
Topiramate (TPM) and valproate (VPA) added to carbamazepine (CBZ): effect on objective measures of cognitive function in adults with epilepsy.

Study Type

- Study Design-wrong for question
- Study Quality- methods & execution
- Consistency -Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Abstract.
Excluded Study - Reasons

136 Schmidt D; Rohde M; Wolf P; Roeder-Wanner U; Clobazam for refractory focal epilepsy. A controlled trial 1986 43 8 824 826 Arch Neurol

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not randomised.
Excluded Study - Reasons

Reviewer Anne Morgan

114 Keene DL; Whiting S; Humphreys P;
Clobazam as an add-on drug in the treatment of refractory epilepsy of childhood
1990 17 3 317 319
Can J Neurol Sci

Study Type RCT

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

The study included 2 years old although clobazam is not recommended for under 3 years old.
Excluded Study - Reasons

Binnie CD; Beintema DJ; Debets RM; Van Emde BW; Meijer JW; Meinardi H; Peck AW; Westendorp AM; Yuen WC.

Seven day administration of lamotrigine in epilepsy: placebo-controlled add-on trial

1987

Epilepsy Res

Study Type

RCT

Study Design - wrong for question

Study Quality - methods & execution

Consistency - Similarity of estimates of effect across studies

Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Only patients who were treated and followed-up for 7 days. No washout period. 10 participants, crossover study. It was an exploratory study only and was not intended to provide significant evidence of efficacy.
Excluded Study - Reasons

Reynolds EH; Ring HA; Farr IN; Heller AJ; Elwes RD;
Open, double-blind and long-term study of vigabatrin in chronic epilepsy
1991 Epilepsia 32 4 530 538

Study Type RCT

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Responder-selected study.
Excluded Study - Reasons

Crawford P; Meinardi H; Brown S; Rentmeester TW; Pedersen B; Pedersen PC; Lassen LC;
Tiagabine: efficacy and safety in adjunctive treatment of partial seizures
2001 Epilepsia 42 4 531 538

Study Type: RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Mean daily dose above usual dosage range and recommended maximum.
Excluded Study - Reasons

Mills KC; Drazkowski JF; Hammer AE; Caldwell PT; Kustra RP; Blum DE;
Relative influences of adjunctive topiramate and adjunctive lamotrigine on scanning and the effective field of view
2008 Feb Epilepsy Research 78 2-3 140 146

Epilepsy Res
Study Type RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Excluded Study - Reasons

Richens A; Chadwick DW; Duncan JS; Dam M; Gram L; Mikkelsen M; Morrow J; Mengel H; Shu V; McKelvy JF; ;
Adjunctive treatment of partial seizures with tiagabine: a placebo-controlled trial
1995 21 1 37 42
Epilepsy Res
Study Type RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Responder trial. Patients had 12 weeks open label with active treatment; only people without unacceptable adverse events and those who responded were included.
Excluded Study - Reasons

433  Sobaniec W;Kulak W;Strzelecka J;Smigielska-Kuzia J;Bockowski L;
A comparative study of vigabatrin vs. carbamazepine in monotherapy of newly diagnosed partial seizures in children
2005 Sep  Pharmacological  57  5  646  653
Reports: PR

Study Type  RCT

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments
No efficacy outcomes. The study was on monotherapy for focal seizures in children and the only efficacy outcome reported was >50% reduction in seizure frequency,
**Excluded Study - Reasons**

Beran RG; Berkovic SF; Buchanan N; Danta G; Mackenzie R; Schapel G; Sheean G; Vajda F;

A double-blind, placebo-controlled crossover study of vigabatrin 2 g/day and 3 g/day in uncontrolled partial seizures

1996

Study Type: RCT

Study Design: wrong for question

Study Quality: methods & execution

Consistency: Similarity of estimates of effect across studies

Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Reports 50% responder rate but does not give for each arm. Seizure freedom and withdrawal due to adverse events was unclear which arm.
Excluded Study - Reasons

Reviewer: Julie Neilson

Sun W; Wang Y; Wang W; Wu X;
Attention changes in epilepsy patients following 3-month topiramate or valproate treatment revealed by event-related potential

2008 Jun International 68 3 235 241
Journal of Psychophysiology
Int J Psychophysiol

Study Type: RCT

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments
Excluded Study - Reasons

de Silva M;MacArdle B;McGowan M;Hughes E;Stewart K;Neville BG;
Randomised comparative monotherapy trial of phenobarbitone, phenytoin, carbamazepine, or sodium valproate for newly
diagnosed childhood epilepsy.
1996 Lancet 347 709 713
Study Type RCT

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
It was excluded due to contamination; the proportion of participants with partial seizures were 50%.
Excluded Study - Reasons

219    Provinciali L; Bartolini M; Mari F; Del PM; Ceravolo MG;
Influence of vigabatrin on cognitive performances and behaviour in patients with drug-resistant epilepsy
1996    94    1    12    18
Acta Neurol Scand
Study Type    RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
**Excluded Study - Reasons**

Matson RH; Cramer JA; Collins JF; Smith DB; gado-Escueta AV; Browne TR; Williamson PD; Treiman DM; McNamara JO; McCulchen GB;

Comparison of carbamazepine, phenobarbital, phenytoin, and primidone in partial and secondarily generalized tonic-clonic seizures

<table>
<thead>
<tr>
<th>Year</th>
<th>Study Type</th>
<th>Study Design</th>
<th>Study Quality</th>
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<th>Directness</th>
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<td>Directness - not relevant population, interventions, outcomes or did not answer the question.</td>
</tr>
</tbody>
</table>

Comments

Data reported as percentage but unable to work out how many patients were still in the study at 12 or 18 months.
Excluded Study - Reasons

Reviewer Kathy DeMott

Leppik IE; Dreifuss FE; Pledger GW; Graves NM; Santilli N; Drury I; Tsay JY; Jacobs MP; Bertram E; Cereghino JJ;
Felbamate for partial seizures: results of a controlled clinical trial
1991 Neurology 41 11 1785 1789

Study Type RCT

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not our outcomes.
Excluded Study - Reasons

103  Devinsky O;Faught RE;Wilder BJ;Kanner AM;Kamin M;Kramer LD;Rosenberg A;
Efficacy of felbamate monotherapy in patients undergoing presurgical evaluation of partial seizures
1995  20  3  241  246
Epilepsy Res
Study Type  RCT

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Not our outcomes. Patients undergoing presurgical evaluation.
Excluded Study - Reasons

89  Gram L; Klosterskov P; Dam M;  
gamma-Vinyl GABA: a double-blind placebo-controlled trial in partial epilepsy  
1985  Annals of Neurology  17  3  262  266  

Study Type  RCT

Study Design: wrong for question
Study Quality: methods & execution
Consistency: Similarity of estimates of effect across studies
Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments
Lack of information on placebo group.
Excluded Study - Reasons

75 Brodie MJ; Mumford JP;
Double-blind substitution of vigabatrin and valproate in carbamazepine-resistant partial epilepsy. 012 Study group 1999 Epilepsy Research 34 2-3 199 205

Study Type RCT

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments
Duotherapy and monotherapy, we can only use data up to and including phase III. Patients were titrated up to 3g and then 4g which is just under half of the people completing phase I had 4g, which was outside the therapeutic dosage.
Excluded Study - Reasons

109 Faught E; Sachdeo RC; Remler MP; Chayasirisobhon S; Iragui-Madoz VJ; Ramsay RE; Sutula TP; Kanner A; Harner RN; Kuzniecky R.;

Felbamate monotherapy for partial-onset seizures: an active-control trial
1993 Neurology 43 4 688 692

Study Type: RCT

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Can not use withdrawal due to adverse events data as can't determine if monotherapy or adjunctive therapy at time of withdrawal. No seizure free data.
## Excluded Study - Reasons

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Year</th>
<th>Study Type</th>
<th>Study Design</th>
<th>Study Quality</th>
<th>Consistency</th>
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<tbody>
<tr>
<td>Boon P; Chauvel P; Pohlmann-Eden B; Otoul C; Wroe S;</td>
<td>Dose-response effect of levetiracetam 1000 and 2000 mg/day in partial epilepsy</td>
<td>2002</td>
<td>RCT</td>
<td>wrong for question</td>
<td>methods &amp; execution</td>
<td>- Similarity of estimates of effect across studies</td>
<td>- not relevant population, interventions, outcomes or did not answer the question.</td>
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</tbody>
</table>

Comments: Crossover study with no washout period and phase 1 data are reported separately in Shorvon (2000) which has been included in the review.
Excluded Study - Reasons

Bruni J; Guberman A; Vachon L; Desforges C;
Vigabatrin as add-on therapy for adult complex partial seizures: a double-blind, placebo-controlled multicentre study. The Canadian Vigabatrin Study Group
2000 Seizure 9 3 224 232
Study Type RCT

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

75% of participants were on 4 grams whereas the maximum dosage is 3 grams.
Excluded Study - Reasons

Leach JP; Girvan J; Paul A; Brodie MJ;
Gabapentin and cognition: a double blind, dose ranging, placebo controlled study in refractory epilepsy
J Neurol Neurosurg Psychiatry
Study Type RCT
Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
50% responder result given for intervention arm only. The only outcome available was withdrawal due to adverse events but it is unclear how many patients were exposed in each arm.
### Excluded Study - Reasons

Clobazam has equivalent efficacy to carbamazepine and phenytoin as monotherapy for childhood epilepsy. Canadian Study Group for Childhood Epilepsy

<table>
<thead>
<tr>
<th>Year</th>
<th>Journal</th>
<th>Volume</th>
<th>Issue</th>
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<td>1998</td>
<td>Epilepsia</td>
<td>39</td>
<td>9</td>
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#### Study Type
- RCT

#### Study Design
- wrong for question

#### Study Quality
- methods & execution

#### Consistency
- Similarity of estimates of effect across studies

#### Directness
- not relevant population, interventions, outcomes or did not answer the question.

**Comments**
Excluded Study - Reasons

126  Mitchell WG; Chavez JM;
Carbamazepine versus phenobarbital for partial onset seizures in children
1987  Epilepsia  28  1  56  60

Study Type  RCT

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Some non-randomised participants.
Excluded Study - Reasons

Placencia M; Sander JW; Shorvon SD; Roman M; Alarcon F; Bimos C; Cascante S;

Antiepileptic drug treatment in a community health care setting in northern Ecuador: a prospective 12-month assessment

1993

14 3 237 244

Epilepsy Res

Study Type RCT

Study Design - wrong for question

Study Quality - methods & execution

Consistency - Similarity of estimates of effect across studies

Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Participants with partial seizures not over 80%.
Excluded Study - Reasons

206 Betts T;Waegemans T;Crawford P;
A multicentre, double-blind, randomized, parallel group study to evaluate the tolerability and efficacy of two oral doses of levetiracetam, 2000 mg daily and 4000 mg daily, without titration in patients with refractory epilepsy

| 2000 | Seizure | 9 | 2 | 80 | 87 |

Study Type RCT

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Number of participants with partial seizures not over 80%.
Excluded Study - Reasons

193 Brodie MJ; Overstall PW; Giorgi L;
Multicentre, double-blind, randomised comparison between lamotrigine and carbamazepine in elderly patients with newly
diagnosed epilepsy. The UK Lamotrigine Elderly Study Group
1999 37 1 81 87
Epilepsy Res
Study Type RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

All participants were elderly.
Excluded Study - Reasons

Theodore WH; Raubertas RF; Porter RJ; Nice F; Devinsky O; Reeves P; Bromfield E; Ito B; Balish M; Felbamate: a clinical trial for complex partial seizures

1991 Epilepsia 32 3 392 397

Study Type RCT

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Had only withdrawal due to adverse events that could be used but it was not clear at what point the participants dropped out of this cross-over trial.
Excluded Study - Reasons

Reviewer Pauline Savigny

Boas J; Dam M; Friis ML; Kristensen O; Pedersen B; Gallagher J;
Controlled trial of lamotrigine (Lamictal) for treatment-resistant partial seizures
1996 94 4 247 252
Acta Neurol Scand

Study Type RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Crossover study with the only outcome available withdrawal due to adverse events and 18/56 did not complete study.
**Excluded Study - Reasons**

<table>
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</table>

**Comments**

Subset of Schapel study (1993).
Excluded Study - Reasons

Question 2 How effective and cost-effective are anti-epileptic drugs for primary generalised tonic-clonic seizures

Reviewer

822 Weber S; Beran RG;
A pilot study of compassionate use of Levetiracetam in patients with generalised epilepsy
2004 Journal of Clinical Neuroscience

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

725 Baulac M;
Randomized, double-blind, parallel-group, multi-centre study of safety and efficacy of tiagabine versus valproate as monotherapy in patients with newly diagnosed primary generalised tonic-clonic seizures
2001 Sanofi Synthelabo

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not over 60% pgtc.
Excluded Study - Reasons

723 Brodie MJ; Chadwick DW; Anhut H; Otte A; Messmer S; Matou S;
Gabapentin versus lamotrigine monotherapy: a double-blind comparison in newly diagnosed epilepsy.
2002 Western Infirmary

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Majority of population had focal seizures.
Excluded Study - Reasons

**Reviewer Julie Neilson**

Schmidt D; Jacob R; Loiseau P; Deisenhammer E; Klinger D; Despland A; Egli M; Bauer G; Stenzel E; Blankenhorn V;

Zonisamide for add-on treatment of refractory partial epilepsy: a European double-blind trial

1993 May Epilepsy Research 15 1 67 73

Study Type RCT

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Secondary generalised not primary generalised.
Excluded Study - Reasons

Biton V;Levisohn P;Hoyler S;Vuong A;Hammer AE;
Lamotrigine versus valproate monotherapy-associated weight change in adolescents with epilepsy: results from a post hoc analysis of a randomized, double-blind clinical trial
2003 Feb Journal of Child Neurology
 Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Post-hoc analysis.
Excluded Study - Reasons

Trevathan E; Kerfs SP; Hammer AE; Vuong A; Messenheimer JA;
Lamotrigine adjunctive therapy among children and adolescents with primary generalized tonic-clonic seizures.[see comment]

2006 Aug

Study Type
RCT

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
This was an open label continuation of Biton (2005) where the patients were offered open-label lamotrigine for up to 1 year.
Post-hoc analysis.
**Excluded Study - Reasons**

749  Eriksson AS; Nergardh A; Hoppe K;

The efficacy of lamotrigine in children and adolescents with refractory generalized epilepsy: a randomized, double-blind, crossover study

1998  Epilepsia  39  5  495  501

<table>
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<tr>
<th>Study Type</th>
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Study Design - wrong for question

Study Quality - methods & execution

Consistency - Similarity of estimates of effect across studies

Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
### Excluded Study - Reasons

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- **Study Design**: wrong for question
- **Study Quality**: methods & execution
- **Consistency**: Similarity of estimates of effect across studies
- **Directness**: not relevant population, interventions, outcomes or did not answer the question.

**Comments**

Post-hoc analysis.
Excluded Study - Reasons

Heller AJ; Chesterman P; Elwes RD; Crawford P; Chadwick D; Johnson AL;
Phenobarbitone, phenytoin, carbamazepine, or sodium valproate for newly diagnosed adult epilepsy: a randomised comparative monotherapy trial.

1995  Journal of Neurology, Neurosurgery, and Psychiatry

Study Type  RCT

Study Design-wrong for question
Study Quality- methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

 Majority GTC seizures but not over 60%.
### Excluded Study - Reasons

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**Study Details:**

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<tr>
<td>Year</td>
<td>1996</td>
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<td>Journal</td>
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<td>33, 7, 549, 555</td>
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Excluded Study - Reasons

175 Chadwick D;Leiderman DB;Sauermann W;Alexander J;Garofalo E;
Gabapentin in generalized seizures
1996
Epilepsy Res

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Gabapentin not one of drugs listed in KCQ for primary tonic-clonic seizures.
Excluded Study - Reasons

35   Kerr MP; Baker GA; Brodie MJ;

A randomized, double-blind, placebo-controlled trial of topiramate in adults with epilepsy and intellectual disability: impact on seizures, severity, and quality of life

2005  Epilepsy & Behavior  7  3  472  480

Study Type  RCT

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

The outcomes separated by seizure type are not those which we are including for primary generalised tonic-clonic seizure question.
Excluded Study - Reasons

Reviewer Katrina Sparrow

750 The Felbamate Study Group in Lennox Gastaut syndrome:
Efficacy of felbamate in childhood epileptic encephalopathy (Lennox-Gastaut syndrome).
1993 New England 328 1 29 33 Journal of Medicine

Study Type RCT

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Felbamate is not a drug included in KCQ for primary generalised tonic-clonic seizures.
<table>
<thead>
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<tr>
<td>Glauser T; Kluger G; Sachdeo R; Krauss G; Perdomo C; Arroyo S;</td>
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<tr>
<td>Rufinamide for generalized seizures associated with Lennox-Gastaut syndrome. [see comment]</td>
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- Study Design: Wrong for question
- Study Quality: Methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: Not relevant population, interventions, outcomes, or did not answer the question.

Comments

Rufinamide not listed as KCQ for primary generalised tonic-clonic seizures.
Excluded Study - Reasons

Motte J; Trevathan E; Arvidsson JF; Barrera MN; Mullens EL; Manasco P;

Study Type RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
All patients had Lennox Gastaut Syndrome, so included in LGS review.
Excluded Study - Reasons

Reviewer  Vanessa Nunes

712  Vining EP;Mellitis ED;Dorsen MM;Cataldo MF;Quaskey SA;Spielberg SP;Freeman JM;
Psychologic and behavioral effects of antiepileptic drugs in children: a double-blind comparison between phenobarbital and valproic acid
1987 Aug  Pediatrics  80  2  165  174
Study Type  RCT

Study Design-wrong for question
Study Quality- methods & execution
Consistency-Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

There were 11 participants with partial complexd seizures and 9 participants with tonic-clonic seizures, but unsure whether this is primary or secondary generalised tonic-clonic seizures. Data not seperated for the two types of seizures.
Excluded Study - Reasons

Question 3 How effective and cost-effective are anti-epileptic drugs for absence seizures

Reviewer Julie Neilson

352 Striano P; Sofia V; Capovilla G; Rubboli G; Di BC; Coppola A; Vitale G; Fontanillas L; Giallonardo AT; Biondi R; Romeo A; Viri M; Zara F; Striano S;

A pilot trial of levetiracetam in eyelid myoclonia with absences (Jeavons syndrome)
2008 Mar Epilepsia 49 3 425 430

Study Type RCT

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not an RCT.
Excluded Study - Reasons

Reviewer Katrina Sparrow

Lamictal (lamotrigine) monotherapy for typical absence seizures in children.[see comment]

Study Design
- wrong for question

Study Quality
- methods & execution

Consistency
- Similarity of estimates of effect across studies

Directness
- not relevant population, interventions, outcomes or did not answer the question.

Comments

The dose escalation phase was not a randomised phase. The double-blind phase was not the correct outcome as they picked the children who had become seizure free in the non-randomised dose escalation phase. Therefore the result was those who remained seizure free rather than those who became seizure free, not one of our outcomes.
Excluded Study - Reasons

Question  4  How effective and cost-effective are anti-epileptic drugs for myoclonic seizures

Reviewer  Julie Neilson

Brown P;Steiger MJ;Thompson PD;Rothwell JC;Day BL;Salama M;Waegemans T;Marsden CD;
Effectiveness of piracetam in cortical myoclonus
1993  Movement Disorders  8  1  63  68
Mov Disord
Study Type  RCT

  Study Design - wrong for question
  Study Quality - methods & execution
  Consistency - Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Only those who were successful in run-in phase with piracetam were included in controlled trial.
Excluded Study - Reasons

Reviewer Vanessa Nunes

116 Koskinemi M; Van VB; Hakamies L; Lamusuo S; Taalas J;
Piracetam relieves symptoms in progressive myoclonus epilepsy: a multicentre, randomised, double blind, crossover study comparing the efficacy and safety of three dosages of oral piracetam with placebo

1998 J Neurol Neurosurg Psychiatry

Study Type RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Not our outcomes.
Excluded Study - Reasons

Question 7 How effective and cost-effective are anti-epileptic drugs for Childhood absence epilepsy

Reviewer Julie Neilson

141 Trudeau V; Myers S; LaMoreaux L; Anhut H; Garofalo E; Ebersole J;
Gabapentin in naive childhood absence epilepsy: results from two double-blind, placebo-controlled, multicenter studies
1996 11 6 470 475
J Child Neurol

Study Type RCT

Study Design-wrong for question
Study Quality- methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Gabapentin was not a drug on the KCQ list for absence seizures.
Excluded Study - Reasons

**Question 10** How effective and cost-effective are anti-epileptic drugs for Infantile spasms

*Reviewer Julie Neilson*

<table>
<thead>
<tr>
<th>Study Type</th>
<th>RCT</th>
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<tbody>
<tr>
<td>Study Design</td>
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<tr>
<td>Study Quality</td>
<td>methods &amp; execution</td>
</tr>
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<td>Consistency</td>
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<td>Directness</td>
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</tbody>
</table>

Comments

Prednisolone and tetracosactide not seperated. Results of first phase reported in Lux (2004) [4649].
Excluded Study - Reasons

40  Debus OM; Kurlemann G; Study g;
Sulthiame in the primary therapy of West syndrome: a randomized double-blind placebo-controlled add-on trial on baseline pyridoxine medication
2004  Epilepsia  45  2  103  108
Study Type  RCT

  Study Design - wrong for question
  Study Quality - methods & execution
  Consistency - Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Sulthiame is not drug included for this question.
Excluded Study - Reasons

Question 11 How effective and cost-effective are anti-epileptic drugs for Benign rolandic epilepsy/benign epilepsy with centrotemporal spikes (BECTS)

Reviewer

870 Bourgeois B;Brown LW;Pellock JM;Buroker M;Greiner M;Garofalo EA;
Gabapentin (Neurontin) monotherapy in children with benign childhood epilepsy with centrotemporal spikes (BECTS): a 36-week, double-blind, placebocontrolled study
1998 Epilepsia 39 Suppl 6 163

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

No data regarding the outcome measures.
Excluded Study - Reasons

**Question** 15 How effective and cost-effective are anti-epileptic drugs for Lennox-Gastaut syndrome

**Reviewer**

Kluger G; Bauer B;

Role of rufinamide in the management of Lennox-Gastaut syndrome (childhood epileptic encephalopathy)

2007 Neuropsychiatric Disease and Treatment

<table>
<thead>
<tr>
<th>Study Type</th>
<th>Study Design</th>
<th>Study Quality</th>
<th>Consistency</th>
<th>Directness</th>
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<tr>
<td></td>
<td>wrong for question</td>
<td>methods &amp; execution</td>
<td>- Similarity of estimates of effect across studies</td>
<td>- not relevant population, interventions, outcomes or did not answer the question.</td>
</tr>
</tbody>
</table>

**Comments**

Review.
Excluded Study - Reasons

Reviewer Vanessa Nunes

831 Eriksson AS; Nergardh A; Hoppu K:
The efficacy of lamotrigine in children and adolescents with refractory generalized epilepsy: a randomized, double-blind, crossover study
1998 Epilepsia 39 5 495 501
Study Type RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Excluded Study - Reasons

Question 18 Which AEDs are clinically effective and cost-effective for people with Convulsive status epilepticus?

Reviewer

48 Bhattacharyya M; Kalra V; Gulati S;
Intranasal midazolam vs rectal diazepam in acute childhood seizures
2006 Pediatric Neurology 34 5 355 359

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Does not define acute childhood seizures.
Excluded Study - Reasons

Trinka E;
The use of valproate and new antiepileptic drugs in status epilepticus
2007 Epilepsia 48 SUPPL 8 49 51

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

Claassen J; Hirsch LJ; Emerson RG; Mayer SA;

Treatment of refractory status epilepticus with pentobarbital, propofol, or midazolam: a systematic review
2002 Epilepsia 43 2 146 153

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Systematic review.
Excluded Study - Reasons

263 Gilbert DL; Glauser TA;
Complications and costs of treatment of refractory generalized convulsive status epilepticus in children
1999 14 9 597 601
J Child Neurol

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

786  Troupin AS; Friel P; Wilensky AJ; Morretti-Ojemann L; Levy RH; Feigl P;
Evaluation of clorazepate (Tranxene) as an anticonvulsant--a pilot study508
1979 Apr  Neurology  29  4  458  466

Study Type

- Study Design-wrong for question
- Study Quality- methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

807 Pavlidou E; Tzitiridou M; Ramantani G; Panteliadis C; [Indications for intermittent diazepam prophylaxis in febrile seizures] 1289
2006 218 5 264 269
Klinische Pädiatrie

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Foreign language.
Excluded Study - Reasons

Glauser T; Ben-Menachem E; Bourgeois B; Cnaan A; Chadwick D; Guerreiro C; Kalviainen R; Mattson R; Perucca E; Tomson T;

ILAE treatment guidelines: Evidence-based analysis of antiepileptic drug efficacy and effectiveness as initial monotherapy for epileptic seizures and syndromes

2006 Epilepsia 47 7 1094 1120

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

Meierkord H; Boon P; Engelsen B; Gocke K; Shorvon S; Tinuper P; Holtkamp M;
EFNS guideline on the management of status epilepticus

2006 European Journal of Neurology
Eur J Neurol

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

Frucht SJ; Bordelon Y; Houghton WH; Reardon D;
A pilot tolerability and efficacy trial of sodium oxybate in ethanol-responsive movement disorders
2005 Movement Disorders 20 10 1330 1337 Mov Disord

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not status epilepticus.
Excluded Study - Reasons

Vakkuri AP; Seitsonen ER; Jantti VH; Sarkela M; Korttila KT; Paloheimo MPJ; Yli-Hankala AM;

A rapid increase in the inspired concentration of desflurane is not associated with epileptiform encephalogram.

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not status epilepticus.
Excluded Study - Reasons

794  Rowan AJ;Kelly KM;Birnbaum AK;
Epilepsy later in life: Managing the unique problems of seizures in the elderly
2005  Geriatrics  60  5 SUPPL.  3  20

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

Leppik IE; Cloyd JC;
Cost-effective therapies in nursing home patients with epilepsy and seizures
2002 Journal of the American Medical Directors Association

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

Holden KR; Titus MO;
The effect of tiagabine on spasticity in children with intractable epilepsy: A pilot study
1999 Pediatric Neurology 21 4 728 730

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not status epilepticus.
Excluded Study - Reasons

797  Swaminathan S; Sawhney IMS; Jain S; Garg SK;
Profile of status epilepticus - A prospective study
1998  Neurology India  46  4  279  283
      Neurol India

Study Type

  Study Design - wrong for question
  Study Quality - methods & execution
  Consistency - Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

Crawford P; Chadwick D;
A comparative study of progabide, valproate, and placebo as add-on therapy in patients with refractory epilepsy

Journal of Neurology Neurosurgery and Psychiatry
1986 49 11 1251 1257

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not status epilepticus.
Excluded Study - Reasons

Feely M; Calvert R; Gibson J;
Clobazam in catamenial epilepsy. A model for evaluating anticonvulsants
1982 Lancet 2 8289 71 73

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not status epilepticus.
Excluded Study - Reasons

Kriel RL; Cloyd JC; Hadsall RS; Carlson AM; Floren KL; Jones-Saete CM;
Home use of rectal diazepam for cluster and prolonged seizures: efficacy, adverse reactions, quality of life and cost analysis

1991 Pediatric Neurology 7 1 13 17
Pediatr Neurol

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

802 Lahat E;
A prospective, randomized study comparing intramuscular midazolam with intravenous diazepam for the treatment of seizures in children
1997 Pediatric Emergency Care

Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments
Excluded Study - Reasons

Andermann F;Cendes F;Sherwin A;McGoldrick J;Langendorf F;McLachlan R;Purves S;Jones M;Asconape J;Pierre-Louis S;Unwin D;and GL;

A dose-response study of intravenous lorazepam in the treatment of status epilepticus
1994 Epilepsia 35 Suppl 8

Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

Remy C, Jourdil N, Villemain D, Favel P, Genton P.
Intrarectal diazepam in epileptic adults
1992 Mar Epilepsia 33 2 353 358

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Different dosages only comparison.
Excluded Study - Reasons

815  Denzel D; Burstein AH;
Midazolam in refractory epilepticus
1996  Annals of Pharmacotherapy
Ann Pharmacother

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

973 Rossetti AO; Milligan TA; Vulliemoz S; Michaelides C; Bertschi M; Lee JW;
A randomized trial for the treatment of refractory status epilepticus
2011 Feb Neurocritical care 14 1 4 10
Neurocrit Care

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

The study was stopped after 3 years as they received insufficient number of participants who were required for the study.
The study did not separate the results for barbiturates.
Excluded Study - Reasons

824  Czapinski P;
Prospective randomized study of the efficacy and tolerability of phenytoin and phenobarbital in status epilepticus
1995  Journal of Neurology
      Suppl 2  S83
Study Type

  Study Design-wrong for question
  Study Quality- methods & execution
  Consistency -Similarity of estimates of effect across studies
  Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
### Excluded Study - Reasons

- **Stromgren LS; Dahl J; Fjeldborg N; Thomsen A;**

Factors influencing seizure duration and number of seizures applied in unilateral electroconvulsive therapy. Anaesthetics and benzodiazepines


**Study Type**
- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

**Comments**
Not status epilepticus.
Excluded Study - Reasons

820 Rivera R; Segnini M; Baltodano A; Perez V;
Midazolam in the treatment of status epilepticus in children. [see comment] 99
1993 Critical Care 21 7 991 994
Medicine

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

818  Jawad S;Oxley J;Yuen WC;Richens A;
The effect of lamotrigine, a novel anticonvulsant, on interictal spikes in patients with epilepsy
1986  British Journal of Clinical Pharmacology
       Br J Clin Pharmacol

Study Type

   Study Design-wrong for question
   Study Quality- methods & execution
   Consistency -Similarity of estimates of effect across studies
   Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not status epilepticus.
Excluded Study - Reasons

804  Treiman DM; De Giorgio CM; Ben-Menachem E; Gehret D; Nelson L; Salisbury SM; Barber KO; Wickboldt CL;
Lorazepam versus phenytoin in the treatment of generalized convulsive status epilepticus: report of an ongoing study
1985  Neurology  35  4  284  Suppl 1

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

816 Fakhoury T;Chumley A;salem-Owen M;
Effectiveness of diazepam rectal gel in adults with acute repetitive seizures and prolonged seizures: a single-center experience345
2007 Epilepsy & Behavior 11 3 357 360

Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

805 Corni; Palmarin La; R. 
A double-blind crossover controlled study of lorazepam (Wy 4036) and diazepam

Current Medical Research and Opinion

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not randomised. Not status epilepticus.
Excluded Study - Reasons

814 Collins JF;
Data and safety monitoring board issues raised in the VA Status Epilepticus Study382
2003 Controlled Clinical 24 1 71 77 Trials

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Excluded Study - Reasons

811  McArthur J;
Review: lorazepam provides the best control for status epilepticus
2006  9  3  78  78
Evidence-Based Nursing

Study Type

   Study Design-wrong for question
   Study Quality- methods & execution
   Consistency -Similarity of estimates of effect across studies
   Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments

   Not RCT.
Excluded Study - Reasons

810 Marshall T;
A systematic review of the use of buccal midazolam in the emergency treatment of prolonged seizures in adults with learning disabilities1434
2007 British Journal of Learning Disabilities

35 2 99 101

Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

809 Vernon-Levett P;
Commentary on Midazolam in the treatment of status epilepticus in children [original article by Rivera R et al appears in CRIT CARE MED 1993;21(7):991-4]
1994 4 1 18 19
AACN Nursing Scan In Critical Care

Study Type

- Study Design-wrong for question
- Study Quality- methods & execution
- Consistency -Similarity of estimates of effect across studies
- Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

808 Fitzgerald BJ; Okos AJ; Miller JW;
Treatment of out-of-hospital status epilepticus with diazepam rectal gel
2003 Seizure 12 1 52 55

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

787  Gordon NS;
Treatment of status epilepticus with diazepam
1966 Dec  Developmental Medicine & Child Neurology
          DEV MED CHILD NEUROL
Study Type

  Study Design-wrong for question
  Study Quality- methods & execution
  Consistency -Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

Fisher R; Kalviainen R; Tanganelli P; Regesta G;
Newer antiepileptic drugs as monotherapy: Data on vigabatrin
1996 Neurology 47 1 SUPPL. S2 S5

Study Type
- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments
Not RCT.
Excluded Study - Reasons

Hayashi K; Sakauchi M; Oguni H; Osawa M;
Efficacy of continuous intravenous lidocaine in the management of clusters of seizures
2000 Journal of Tokyo Women's Medical College
70 SUPPL. JUN E32 E39

Study Type

   Study Design - wrong for question
   Study Quality - methods & execution
   Consistency - Similarity of estimates of effect across studies
   Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

789  Faught E;
Topiramate in the treatment of partial and generalized epilepsy 616
2007  Neuropsychiatric  3  6  811  821
Disease and
Treatment

Study Type

  Study Design - wrong for question
  Study Quality - methods & execution
  Consistency - Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT. Not status epilepticus.
Excluded Study - Reasons

767  Sorel L; Mechler L; Harmant J;
Comparative trial of intravenous lorazepam and clonazepam in status epilepticus
1981  Clinical Therapeutics  4  4  326  336

Clin Ther

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

766 Walker JE; Homan RW; Crawford IL;
Lorazepam: a controlled trial in patients with intractable partial complex seizures
1984 Aug Epilepsia 25 4 464 466

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

- Not status epilepticus.
Excluded Study - Reasons

Boey WK; Lai FO;
Comparison of propofol and thiopentone as anaesthetic agents for electroconvulsive therapy
1990 Aug Anaesthesia 45 8 623 628

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

764 Borgeat A; Dessibourg C; Popovic V; Meier D; Blanchard M; Schwander D; Propofol and spontaneous movements: an EEG study 1991 Jan Anesthesiology 74 1 24 27

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

No status epilepticus.
Excluded Study - Reasons

770 Gherpelli JLD; Guerreiro MM; Da Costa JC; Rotta NT; Manreza MLG; Reed UC; Diament A; Silva EA; Guerreiro CAM; Nunes ML; Palmini A; Vega-Gutierrez L; Vizioli J; Pedroso F; Chiste MA;

Vigabatrin in refractory childhood epilepsy. The Brazilian multicenter study
1997 Epilepsy Research 29 1 1 6

Epilepsy Res

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

761 Grant R; Shorvon SD; Efficacy and tolerability of 1000-4000 mg per day of levetiracetam as add-on therapy in patients with refractory epilepsy

2000 Dec Epilepsy Research 42 2-3 89 95

Epilepsy Res

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT. Dose escalation.
Excluded Study - Reasons

771 Overweg J; Binnie CD; Meijer JWA;
Double-blind placebo-controlled trial of flunarizine as add-on therapy in epilepsy331
1984 Epilepsia 25 2 217 222

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not drug in KCQ.
Excluded Study - Reasons

300  Singh AN; Le MP;
Treatment of status epilepticus with intravenous clonazepam
1982  Progress in Neuro-Psychopharmacology & Biological Psychiatry
       6  4-6  539  542

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

711 Kuisma M;Roine RO;
Propofol in prehospital treatment of convulsive status epilepticus
1995 Dec Epilepsia 36 12 1241 1243

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Brief communication.
Excluded Study - Reasons

Lewena S; Young S;
When benzodiazepines fail: How effective is second line therapy for status epilepticus in children?
2006 Feb

Emergency Medicine Australasia

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT, retrospective study.
Excluded Study - Reasons

Chen L; Feng P; Wang J; Liu L; Zhou D;
Intravenous sodium valproate in mainland China for the treatment of diazepam refractory convulsive status epilepticus
2009 Journal of Clinical Neuroscience 16 4 524 526

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

498 Ogutu BR; Newton CR; Muchohi SN; Otieno GO; Kokwaro GO; Phenytoin pharmacokinetics and clinical effects in African children following fosphenytoin and chloramphenicol coadministration

2002 Dec British Journal of Clinical Pharmacology
Br J Clin Pharmacol

Study Type

Study Design- wrong for question
Study Quality- methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not status epilepticus.
Excluded Study - Reasons

493  Ulvi H; Yoldas T; Mungen B; Yigiter R;
Continuous infusion of midazolam in the treatment of refractory generalized convulsive status epilepticus
2002 Oct  Neurological  23  4  177  182
Sciences

Study Type

   Study Design - wrong for question
   Study Quality - methods & execution
   Consistency - Similarity of estimates of effect across studies
   Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

Scott RC;Besag FM;Boyd SG;Berry D;Neville BG;
Buccal absorption of midazolam: pharmacokinetics and EEG pharmacodynamics
1998 Mar Epilepsia 39 3 290 294

Study Type

- Study Design-wrong for question
- Study Quality- methods & execution
- Consistency -Similarity of estimates of effect across studies
- Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments

Not outcomes. Not comparisons.
Excluded Study - Reasons

778 Harbord MG; Kyrkou NE; Kyrkou MR; Kay D; Coulthard KP;
Use of intranasal midazolam to treat acute seizures in paediatric community settings
2004 Sep Journal of Paediatrics & Child Health

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

440  Brevoord JC; Joosten KF; Arts WF; van Rooij RW; de HM;
Status epilepticus: clinical analysis of a treatment protocol based on midazolam and phenytoin
2005 Jun  Journal of Child  20  6  476  481
Neurology
J Child Neurol

Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT. Retrospective study.
Excluded Study - Reasons

264  Gilbert DL; Gartside PS; Glauser TA;
Efficacy and mortality in treatment of refractory generalized convulsive status epilepticus in children: a meta-analysis
1999  J Child Neurol 14 9 602 609

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

Milligan NM; Dhillon S; Griffiths A; Oxley J; Richens A;
A clinical trial of single dose rectal and oral administration of diazepam for the prevention of serial seizures in adult epileptic patients

1984 Mar Journal of Neurology, Neurosurgery & Psychiatry

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Not comparing drugs.
Excluded Study - Reasons

783 Sharief MK; Sander JW; Shorvon SD;
The effect of oral flumazenil on interictal epileptic activity: results of a double-blind, placebo-controlled study
1993 May Epilepsy Research 15 1 53 60

Epilepsy Res

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not drug from KCQ.
Excluded Study - Reasons

782 Mitchell WG; Conry JA; Crumrine PK; Kriel RL; Cereghino JJ; Groves L; Rosenfeld WE;

An open-label study of repeated use of diazepam rectal gel (Diastat) for episodes of acute breakthrough seizures and clusters: safety, efficacy, and tolerance. North American Diastat Group426

1999 Nov Epilepsia 40 11 1610 1617

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

768
2001 New England 345 25 1860
Journal of Medicine N ENGL J MED
Study Type

  Study Design-wrong for question
  Study Quality- methods & execution
  Consistency -Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

Norris E; Marzouk O; Nunn A; McIntyre J; Choonara I;
Respiratory depression in children receiving diazepam for acute seizures: a prospective study. [see comment] 418
1999 May
Developmental Medicine & Child Neurology
DEV MED CHILD NEUROL

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

Knake S; Gruener J; Hattemer K; Klein KM; Bauer S; Oertel WH; Hamer HM; Rosenow F;
Intravenous levetiracetam in the treatment of benzodiazepine refractory status epilepticus
2008
Journal of Neurology, Neurosurgery and Psychiatry

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

777 O'Dell C;Shinnar S;Ballaban-Gil KR;Hornick M;Sigalova M;Kang H;Moshe SL;
Rectal diazepam gel in the home management of seizures in children
2005 Sep Pediatric Neurology 33 3 166 172

Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

776 Mittal P; Manohar R; Rawat AK;
Comparative study of intranasal midazolam and intravenous diazepam sedation for procedures and seizures
Study Type

Study Design: wrong for question
Study Quality: methods & execution
Consistency: Similarity of estimates of effect across studies
Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments
Not status epilepticus.
Excluded Study - Reasons

Pavlidou E; Tzitiridou M; Panteliadis C;
Effectiveness of intermittent diazepam prophylaxis in febrile seizures: long-term prospective controlled study
2006 Dec    Journal of Child Neurol

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not status epilepticus.
Excluded Study - Reasons

774  Olsen KB; Tauboll E; Gjerstad L;
Valproate is an effective, well-tolerated drug for treatment of status epilepticus/serial attacks in adults
2007  Acta Neurologica Scandinavica Supplem 51 54
Scand

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

- Not RCT.
Excluded Study - Reasons

Uges JW; van H; Engelsman J; Wilms EB; Touw DJ; Peeters E; Vecht CJ;
Safety and pharmacokinetics of intravenous levetiracetam infusion as add-on in status epilepticus
2009 Mar Epilepsia 50 3 415 421

Study Type
- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments
- Not RCT.
Excluded Study - Reasons

772  Rickels K;Case G;Downing RW;Winokur A;
Long-term diazepam therapy and clinical outcome
1983  Journal of the American Medical Association
250  6  767  771

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not status epilepticus.
Excluded Study - Reasons

Rantala H; Saukkonen AL; Remes M; Uhari M;
Efficacy of five days' barbiturate anesthesia in the treatment of intractable epilepsies in children
1999 Dec Epilepsia 40 12 1775 1779

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

Reviewer Julie Neilson

359 Mpimbaza A;Ndeezi G;Staedke S;Rosenthal PJ;Byarugaba J;
Comparison of buccal midazolam with rectal diazepam in the treatment of prolonged seizures in Ugandan children: a randomized clinical trial
2008 Jan Pediatrics 121 1 e58 e64
Study Type RCT

- Study Design-wrong for question
- Study Quality- methods & execution
- Consistency -Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Excluded Study - Reasons

270  Stecker MM;Kramer TH;Raps EC;O'Meeghan R;Dulaney E;Skaar DJ;

Treatment of refractory status epilepticus with propofol: clinical and pharmacokinetic findings
1998  Epilepsia  39  1  18  26

Study Type

- Study Design-wrong for question
- Study Quality- methods & execution
- Consistency -Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not an RCT
Excluded Study - Reasons

Kriel, R.L
Rectal diazepam gel for treatment of acute repetitive seizures.
1999

The North American Diastat Study Group

Study Type: RCT

Study Design: wrong for question
Study Quality: methods & execution
Consistency: Similarity of estimates of effect across studies
Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments
Excluded Study - Reasons

Cereghino JJ; Cloyd JC; Kuzniecky RI;
Rectal diazepam gel for treatment of acute repetitive seizures in adults
2002 59 12 1915 1920
Arch Neurol

Study Type RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Combination of two trials - see Cereghino (1998) and Dreifuss (1998).
Excluded Study - Reasons

Reviewer Vanessa Nunes

436 Shah I; Deshmukh CT;
Intramuscular midazolam vs intravenous diazepam for acute seizures
2005 Aug Indian Journal of Pediatrics
Indian J Pediatr
Study Type RCT

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Does not define acute convulsions.
Excluded Study - Reasons

Question 19 Which AEDs are clinically effective and cost-effective for people with Non-Convulsive status epilepticus?

Reviewer

302 Rodin E;Klutke G;Chayasirisobohn S;
Epileptic patients who are refractory to anticonvulsant medications
1982 Neurology 32 12 1382 1384

Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

825  Little AS; Kerrigan JF; McDougall CG; Zabramski JM; Albuquerque FC; Nakaji P; Spetzler RF;
Nonconvulsive status epilepticus in patients suffering spontaneous subarachnoid hemorrhage
2007  Journal of Neurosurgery
      J Neurosurg

Study Type

  Study Design - wrong for question
  Study Quality - methods & execution
  Consistency - Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

823 Abend NS; Monk HM; Licht DJ; Dlugos DJ;
Intravenous levetiracetam in critically ill children with status epilepticus or acute repetitive seizures
2009 Pediatric Critical Care Medicine

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

779 Dennis LJ; Claassen J; Hirsch LJ; Emerson RG; Connolly ES; Mayer SA; Awad IA; Luders HO;
Nonconvulsive status epilepticus after subarachnoid hemorrhage
2002 Neurosurgery 51 5 1136 1144

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

769 Tomson T;Svanborg E;Wedlund JE;
Nonconvulsive status epilepticus: high incidence of complex partial status
1986 May Epilepsia 27 3 276 285

Study Type

  Study Design-wrong for question
  Study Quality- methods & execution
  Consistency -Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT. Not pharmalogical treatment of NCSE.
Excluded Study - Reasons

Narayanan JT; Murthy JM;
Nonconvulsive status epilepticus in a neurological intensive care unit: profile in a developing country
2007 May Epilepsia 48 5 900 906

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT. Not outcomes.
Excluded Study - Reasons

304 Schulze-Bonhage A; Heft S; Oehl B; Termination of complex partial status epilepticus by intravenous levetiracetam 2009 Aug Journal of Neurology, Neurosurgery & Psychiatry

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

826  Tomson T; Lindbom U; Nilsson BY;
Nonconvulsive status epilepticus in adults: Thirty-two consecutive patients from a general hospital population
1992  Epilepsia  33   5   829  835

Study Type

  - Study Design: wrong for question
  - Study Quality: methods & execution
  - Consistency: Similarity of estimates of effect across studies
  - Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT.
Excluded Study - Reasons

301  Jagoda A; Riggio S;
Nonconvulsive status epilepticus in adults
1988  American Journal of Emergency Medicine
       Am J Emerg Med

Study Type

- Study Design-wrong for question
- Study Quality- methods & execution
- Consistency -Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not RCT, review.
Excluded Study - Reasons

**Reviewer Julie Neilson**

729 Gilad R;Izkovitz N;Dabby R;Rapoport A;Sadeh M;Weller B;Lampl Y:

Treatment of status epilepticus and acute repetitive seizures with i.v. valproic acid vs phenytoin

2008 Nov Acta Neurologica 118 5 296 300

Scandinavica

Acta Neurol Scand

Study Type RCT

Study Design-wrong for question

Study Quality- methods & execution

Consistency -Similarity of estimates of effect across studies

Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

The population was ARS and Status epilepticus together. The outcomes were not separated apart from for rescue medication which was not one of our outcomes
**Excluded Study - Reasons**

<table>
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<tr>
<th>Study Type</th>
<th>Study Quality</th>
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<th>Directness</th>
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<th>Year</th>
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</table>
Study Quality - methods & execution  
Consistency - Similarity of estimates of effect across studies  
Directness - not relevant population, interventions, outcomes or did not answer the question. |
Excluded Study - Reasons

**Question** 20 Which AEDs are clinically effective, cost-effective and safest for use in pregnancy?

*Reviewer* Grammati Sarri

<table>
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<tr>
<th>Study Type</th>
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<tr>
<td>Study Design</td>
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<td>Consistency</td>
<td>Similarity of estimates of effect across studies</td>
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<td>Directness</td>
<td>not relevant population, interventions, outcomes or did not answer the question</td>
</tr>
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</table>

Comments

Used systematic review for data.
Excluded Study - Reasons

Perniola T; Buttiglione M; Margari L;

Antiepileptic drugs in pregnancy: late effects on the children's cognitive abilities. Preliminary data
1992 Aug Acta Neurologica 14 4-6 543 546

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Used systematic review for data.
Excluded Study - Reasons

847  Jones KL; Lacro RV; Johnson KA; Adams J;
Pattern of malformations in the children of women treated with carbamazepine during pregnancy
Journal of Medicine

N ENGL J MED

Study Type COH

Study Design-wrong for question
Study Quality-methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Used systematic review data.
Excluded Study - Reasons

**Question**  22 Which AEDs are most tolerable for people with learning disabilities?

**Reviewer**

102

1989  Epilepsia  30  4  422  429

**Study Type**
- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

**Comments**
Participants had Lennox-Gastaut Syndrome. Cinromide (intervention) was not in our list of drugs.
Excluded Study - Reasons

113  Inanaga K;Kumashiro H;Fukuyama Y;Ohtahara S;Shirouzu M;
Clinical study of oral administration of DN-1417, a TRH analog, in patients with intractable epilepsy
1989  Epilepsia  30  4  438  445

Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

The majority of patients had Lennox-Gastaut Syndrome.
Excluded Study - Reasons

147 Bird CA; Griffin PB; Miklasewska JM; Galbraith AW;
Tegretol (carbamazepine): a controlled trial of a new anticonvulsant.
1966 British Journal of Psychiatry 112 737 742

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

No outcomes measures relevant.
Excluded Study - Reasons

Houtkooper MA; Lammertsma A; Meyer JW; Goedhart DM; Meinardi H; van Oorschot CA; Blom GF; Hoppener RJ; Hulsman JA;

Oxcarbazepine (GP 47.680): a possible alternative to carbamazepine?

1987 Epilepsia 28 6 693 698

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

No information on outcome measures. No separate information for the group of learning disabilities.
Excluded Study - Reasons

Rimmer EM; Richens A;
A double blind study of a new drug, gamma-vinyl GABA, in patients with refractory epilepsy.
Proceedings of XVth Epilepsy International Symposium
1984

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

8/24 in the sample had learning disabilities. Results were not provided separately.
Excluded Study - Reasons

728 Freeman JM;
The ketogenic diet: additional information from a crossover study
2009 Apr Journal of Child Neurology
Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Participants had Lennox-Gastaut Syndrome. Ketogenic diet.
Excluded Study - Reasons

855 Biemann P;Levac T;Gagnon MA;
Clonazepam: its efficacy in association with phenytoin and phenobarbital in mental patients with generalized major motor seizures
1978 Jun International Journal of Clinical Pharmacology & Biopharmacy

16 6 268 273

Study Type

- Study Design-wrong for question
- Study Quality- methods & execution
- Consistency -Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Only 13/23 of participants had mental retardation.
Excluded Study - Reasons

856  Smith WL;Philippus MJ;Guard HL;
Psychometric study of children with learning problems and 14-6 positive spike EEG patterns, treated with ethosuximide (Zarontin) and placebo
1968 Oct  Archives of Disease in Childhood  43  231  616  619

Study Type

  Study Design-wrong for question
  Study Quality- methods & execution
  Consistency -Similarity of estimates of effect across studies
  Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments

Ethosuximide is not included in the list of antiepileptic drugs for the purposes of this review.
Reviewer Vanessa Nunes

The efficacy of lamotrigine in children and adolescents with refractory generalized epilepsy: a randomized, double-blind, crossover study

1998 Epilepsia 39 5 495 501

Study Type RCT

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Excluded Study - Reasons

Question 24 What is the clinical effectiveness and cost-effectiveness of a ketogenic diet?

Reviewer

974 Kang H; Lee YJ; Lee JS; Lee EJ; Eom S; You SJ; Kim HD:
Comparison of short-versus long-term ketogenic diet for intractable infantile spasms
2011 Epilepsia 52 4 781 787

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Short-term versus long-term ketogenic diet. The participants had achieved seizure freedom already so it was a responder-selected study.
Excluded Study - Reasons

Reviewer Vanessa Nunes

423 Bergqvist AG; Schall JI; Gallagher PR; Cnaan A; Stallings VA;
Fasting versus gradual initiation of the ketogenic diet: a prospective, randomized clinical trial of efficacy
2005 Nov Epilepsia 46 11 1810 1819
Study Type RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not comparing treatments.
Excluded Study - Reasons

Question 25 Which AEDs are clinically effective and cost-effective for people with idiopathic generalised epilepsy?

Reviewer

718 GlaxoSmithKline;
An open randomised comparison of lamotrigine with valporate as monotherapy in patients with idiopathic generalised epilepsy

2001 Glaxo Wellcome

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Industry submission in HTA but only specifies generalised onset seizures, not which types.
Excluded Study - Reasons

Reviewer Stefanie Kuntze

376 Stephen LJ; Sills GJ; Leach JP; Butler E; Parker P; Hitiris N; Leach VM; Wilson EA; Brodie MJ;
Sodium valproate versus lamotrigine: a randomised comparison of efficacy, tolerability and effects on circulating androgenic hormones in newly diagnosed epilepsy
2007 Jul Epilepsy Research 75 2-3 122 129

Epilepsy Res

Study Type RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not our outcomes.
Excluded Study - Reasons

557  Najafi MR; Mehrabi A; Najafi F;
Seizure recurrence after a first unprovoked seizure: With and without treatment
2008  Journal of Research in Medical Sciences
Study Type  RCT

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Excluded Study - Reasons

Reviewer Vanessa Nunes

203 Beran RG; Berkovic SF; Dunagan FM; Vajda FJ; Danta G; Black AB; Mackenzie R;
Double-blind, placebo-controlled, crossover study of lamotrigine in treatment-resistant generalised epilepsy
1998 Epilepsia 39 12 1329 1333
Study Type RCT

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
This is not idiopathic generalised epilepsy. There is insufficient data for other seizure types.
Excluded Study - Reasons

**Question**  27  Mixed population exclusions

**Reviewer**

620  Scott RC;  
Buccal midazolam as rescue therapy for acute seizures  
2005  Lancet Neurology  4  10  592  593

**Study Type**

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

**Comments**

Review.
Excluded Study - Reasons

570 French JA;Kanner AM;Bautista J;bou-Khalil B;Browne T;Harden CL;Theodore WH;Bazil C;Stern J;Schachter SC;Bergen D;Hirtz D;Montouris GD;Nespeca M;Gidal B,Mark J;Turk WR;Fischer JH;Bourgeois B;Wilner A;Faught J;Sachdeo RC;Beydoun A;Glauser TA;

Appendix D: Efficacy and tolerability of the new antiepileptic drugs II: Treatment of refractory epilepsy: Report of the Therapeutics and Technology Assessment Subcommittee and Quality Standards Subcommittee of the American Academy of Neurology and the Am

2007 CONTINUUM 4 EPILEPSY 212 224

Lifelong Learning in Neurology

Study Type

- Study Design-wrong for question
- Study Quality- methods & execution
- Consistency -Similarity of estimates of effect across studies
- Directness -. not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

Fakhoury TA; Barry JJ; Mitchell MJ; Hammer AE; Vuong A;

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not an RCT.
Excluded Study - Reasons

574  LaRoche SM;
A new look at the second-generation antiepileptic drugs: A decade of experience
2007  Neurologist  13  3  133  139

Study Type

Study Design- wrong for question

Study Quality- methods & execution

Consistency - Similarity of estimates of effect across studies

Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

588   Brodie MJ;
Medical therapy of epilepsy: When to initiate treatment and when to combine?
2005   Journal of Neurology
        J Neurol

Study Type

  Study Design-wrong for question
  Study Quality- methods & execution
  Consistency -Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

597  Cheng-Hakimian A; Anderson GD; Miller JW;
Rufinamide: Pharmacology, clinical trials, and role in clinical practice
2006  International Journal of Clinical Practice
Int J Clin Pract

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

615  Donner EJ; Snead III OC;
New drugs in the treatment of epilepsy in children
2005  Current Problems 35 10 398 419
in Pediatric and
Adolescent Health
Care

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

533 French JA; Kanner AM; Bautista J; bou-Khalil B; Browne T; Harden CL; Theodore WH; Bazil C; Stern J; Schachter SC; Bergen D; Hirtz D; Montouris GD; Nespeca M; Gidal B; Marks WJ; Turk WR; Fischer JH; Bourgeois B; Wilner A; Faught RE; Sachdeo RC; Beydoun A; Glauser TA; American Acad


2004 May Epilepsia 45 5 410 423

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

629  Dworkin RH;Kirkpatrick P;
Pregabalin
2005  Nature Reviews  4  6  455  456
Drug Discovery

Study Type

  Study Design - wrong for question
  Study Quality - methods & execution
  Consistency - Similarity of estimates of effect across studies
  Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

647 Pellock JM;
Tricyclic anticonvulsants: Safety and adverse effects
2002 Epilepsy & Behavior 3 3 II S14 S17

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

651 Beydoun A; Kutluay E; Mihaesco M; Minecan D;
Clinical experience with oxcarbazepine
2002 Today’s Therapeutic Trends

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
<table>
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<th>Study Design</th>
<th>Study Quality</th>
<th>Consistency</th>
<th>Directness</th>
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<td>methods &amp; execution</td>
<td>Similarity of estimates of effect across studies</td>
<td>not relevant population, interventions, outcomes or did not answer the question.</td>
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Comments

Not epilepsy.
Excluded Study - Reasons

Crawford P; Ghadiali E; Lane R; Blumhardt L; Chadwick D;
Gabapentin as an antiepileptic drug in man
1987 Jun
50 6 682 686
J Neurol Neurosurg Psychiatry

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Different doses no placebo.
Excluded Study - Reasons

709 Bensch J; Blennow G; Ferngren H; Gamstorp I; Herrlin KM; Kubista J; Arvidsson A; Dahlstrom H;
A double-blind study of clonazepam in the treatment of therapy-resistant epilepsy in children
1977 Jun Developmental 19 3 335 342
Medicine & Child
Neurology
Dev Med Child
Neurol

Study Type

- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Not randomised.
Excluded Study - Reasons

598  Hachad H; Ragueneau-Majlessi I; Levy RH;
New antiepileptic drugs: Review on drug interactions
2002 Therapeutic Drug Monitoring
Ther Drug Monit

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

499 Zaccara G; Gangemi PF; Cincotta M;
Central nervous system adverse effects of new antiepileptic drugs. A meta-analysis of placebo-controlled studies
2008 Jul Seizure 17 5 405 421

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Meta-analysis.
Excluded Study - Reasons

Vigabatrin in the treatment of childhood epilepsies: a single-blind placebo-controlled study
1989 Jul Epilepsia 30 4 430 437

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Not randomised.
Excluded Study - Reasons

Fakhoury TA; Miller JM; Hammer AE; Vuong A;
Effects of lamotrigine on mood in older adults with epilepsy and co-morbid depressive symptoms: an open-label, multicentre, prospective study
2008 Drugs & Aging 25 11 955 962

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments
Not an RCT.
Excluded Study - Reasons

378  Gazzola DM; Balcer LJ; French JA;
Seizure-free outcome in randomized add-on trials of the new antiepileptic drugs
2007 Jul  Epilepsia  48  7  1303  1307

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

420
Pregabalin: new drug. Very similar to gabapentin
2005 Dec  Prescrire 14 80 203 206
International Prescrire Int

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

Verdru P; Epilepsy in children: the evidence for new antiepileptic drugs 2005 Acta Neurologica Scandinavica Supplem 17 20

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
### Excluded Study - Reasons

<table>
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<th>Abou-Khalil B; Levetiracetam in the treatment of epilepsy</th>
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<td>Neuropsychiatric Disease and Treatment</td>
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<td>4 3 507 523</td>
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</tbody>
</table>

#### Study Type

- **Study Design**: wrong for question
- **Study Quality**: methods & execution
- **Consistency**: Similarity of estimates of effect across studies
- **Directness**: not relevant population, interventions, outcomes or did not answer the question.

#### Comments

Review.
Excluded Study - Reasons

448  French J; Arrigo C;
Rapid onset of action of levetiracetam in refractory epilepsy patients
2005 Feb  Epilepsia  46  2  324  326

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Pooled 3 RCTs.
Excluded Study - Reasons

Add-on treatment with pregabalin for partial seizures with or without generalisation: Pooled data analysis of four randomised placebo-controlled trials

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

Pooled 4 RCTs.
## Excluded Study - Reasons

507  Doty P; Rudd GD; Stoehr T; Thomas D; Lacosamide. [Review] [36 refs]
2007 Jan  Neurotherapeutics  4  1  145  148

**Study Type**
- Study Design - wrong for question
- Study Quality - methods & execution
- Consistency - Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

**Comments**
Review.
Excluded Study - Reasons

Sirven JI; Fife TD; Wingerchuk DM; Drazkowski JF;
Second-generation antiepileptic drugs' impact on balance: a meta-analysis. [Review] [44 refs]
2007 Jan Mayo Clinic Proceedings
82 1 40 47
Mayo Clin Proc

Study Type

Study Design-wrong for question
Study Quality- methods & execution
Consistency -Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Systematic review.
Excluded Study - Reasons

513 Arzimanoglou A; Rahbani A;
Zonisamide for the treatment of epilepsy. [Review] [28 refs]
2006 Sep Expert Review of Neurotherapeutics
6 9 1283 1292

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
- Directness: not relevant population, interventions, outcomes or did not answer the question.

Comments

- Review.
Excluded Study - Reasons

514    Deeks ED; Scott LJ; Rufinamide. [Review] [30 refs]
2006    CNS Drugs     20    9    751    760

Study Type

Study Design - wrong for question
Study Quality - methods & execution
Consistency - Similarity of estimates of effect across studies
Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

522  Ryvlin P;
Defining success in clinical trials--profiling pregabalin, the newest AED. [Review] [19 refs]
2005 Nov  European Journal of Neurology 12 12 21
                   Eur J Neurol

Study Type

  Study Design-wrong for question
  Study Quality- methods & execution
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French JA;Kanner AM;Bautista J;bou-Khalil B;Browne T;Harden CL;Theodore WH;Bazil C;Stern J;Schachter SC;Bergen D;Hirtz D;Montouris GD;Nespeca M;Gidal B, Marks WJ;Turk WR;Fischer JH;Bourgeois B;Wilner A;Faught RE;Sachdeo RC;Beydoun A;Glauser TA;Therapeutics

Efficacy and tolerability of the new antiepileptic drugs I: treatment of new onset epilepsy: report of the Therapeutics and Technology Assessment Subcommittee and Quality Standards Subcommittee of the American Academy of Neurology and the American Epileps

2004 Apr 27 Neurology 62 8 1252 1260

Study Type

- Study Design-wrong for question
- Study Quality- methods & execution
- Consistency -Similarity of estimates of effect across studies
- Directness - not relevant population, interventions, outcomes or did not answer the question.

Comments

Review.
Excluded Study - Reasons

439 French J; di NS; Arrigo C;
Fast and sustained efficacy of levetiracetam during titration and the first 3 months of treatment in refractory epilepsy
2005 Aug Epilepsia 46 8 1304 1307

Study Type

- Study Design: wrong for question
- Study Quality: methods & execution
- Consistency: Similarity of estimates of effect across studies
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Comments

Brief communication.