Table G-13. Final health outcomes in studies comparing older versus newer antiepileptic drugs

| Study, Year | Group | N | Deaths (n) | Office/ER Visits (n) | Hospitalizations Events (n) | Composite of Ambulance/ER/ Hospitalizations Events (n) |
| --- | --- | --- | --- | --- | --- | --- |
| Reunanen, 1996 | Carbamazepine | 117 | 0 | - | - | - |
| Lamotrigine 100 mg | 115 | 1 | - | - | - |
| Lamotrigine 200 mg | 111 | 1 | - | - | - |
| Bill, 1997 | Phenytoin | 144 | 2 | - | - | - |
| Oxcarbazepine | 143 | 0 | - | - | - |
| Brodie, 1999a | Carbamazepine | 48 | 2 | - | 3 | - |
| Lamotrigine | 102 | 0 | - | 0 | - |
| Brodie, 1999b | Valproate | 107 | 0 | - | - | - |
| Vigabatrin | 108 | 0 | - | - | - |
| Chadwick, 1999 | Carbamazepine | 229 | 1 | - | - | - |
| Vigabatrin | 228 | 2 | - | - | - |
| Steiner, 1999 |  Phenytoin | 95 | 2 | - | - | - |
| Lamotrigine  | 86 | 0 | - | - | - |
| Fakhoury, 2004 | Carbamazepine | 46 | 0 | - | - | - |
| Lamotrigine | 98 | 2 | - | - | - |
| Valproic Acid | 53 | 0 | - | - | - |
| Lamotrigine | 105 | 1 | - | - | - |
| Rowan, 2005 | Carbamazepine | 198 | 15 | - | - | - |
| Gabapentin | 195 | 11 | - | - | - |
| Lamotrigine | 200 | 8 | - | - | - |
| Marson, 2007SANAD Arm B | Valproic Acid | 238 | 4 | - | - | - |
| Lamotrigine | 239 | 4 | - | - | - |
| Topirimate | 239 | 3 | - | - | - |
| Marson, 2007 SANAD Arm A | Carbamazepine | 378 | 18 | - | - | - |
| Gabapentin | 377 | 19 | - | - | - |
| Lamotrigine | 378 | 12 | - | - | - |
| Oxcarbazepine | 210 | 5 | - | - | - |
| Topirimate | 378 | 17 | - | - | - |

|  |
| --- |
| Table G-13. Final health outcomes in studies comparing older versus newer antiepileptic drugs (continued) |
| Study, Year | Group | N | Deaths (n) | Office/ER Visits (n) | Hospitalizations Events (n) | Composite of Ambulance/ER/ Hospitalizations Events (n) |
| Glauser, 2010 | Ethosuximide | 154 | - | - | 4 | - |
| Valproic Acid | 146 | - | - | 2 | - |
| Lamotirgine | 146 | - | - | 2 | - |
| Ramsay, 2010 | Phenytoin | 127 | 0 | - | - | - |
| Topiramate | 132 | 0 | - | - | - |

- = not reported; ER = emergency room; N = sample size; (n) = number of deaths or events; SANAD Arm A = Standard and New Antiepileptic Drugs Trial Arm A;
SANAD Arm B =Standard and New Antiepileptic Drugs Trial Arm B