**Supplementary Table 4.** List of anticonvulsants and PARP inhibitors included in the analyses.

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| --- | --- | --- |
| **Anticonvulsant Type** | **Generic name** | **Drug name** |
| AMPA receptor antagonists | Perampanel | Fycompa |
| Barbiturates | Mephobarbital | Mebaral |
| Phenobarbital | Luminal |
| Primidone | Mysoline |
| Benzodiazepines | Clobazam | Onfi (Pro) |
| Clobazam | Sympazan (Pro) |
| Clonazepam | Klonopin (Pro) |
| Clonazepam | Klonopin Wafer |
| Diazepam | Diastat (Pro) |
| Diazepam | Diastat AcuDial |
| Diazepam | Diastat Pediatric |
| Diazepam | Diazepam Intensol |
| Diazepam | Valium (Pro) |
| Diazepam | Valtoco (Pro) |
| Diazepam | Zetran |
| Lorazepam | Ativan (Pro) |
| Lorazepam | Lorazepam Intensol (Pro) |
| Carbamates | Felbamate | Felbatol (Pro) |
| Carbonic anhydrase inhibitors | Acetazolamide | Diamox (Pro) |
| Acetazolamide | Diamox Sequels |
| Topiramate | Qudexy XR (Pro) |
| Topiramate | Topamax (Pro) |
| Topiramate | Topamax Sprinkle |
| Topiramate | Topiragen (Pro) |
| Topiramate | Trokendi XR (Pro) |
| Zonisamide | Zonegran (Pro) |
| Dibenzazepines | Carbamazepine | Carbatrol (Pro) |
| Carbamazepine | Carnexiv (Pro) |
| Carbamazepine | Epitol (Pro) |
| Carbamazepine | Equetro (Pro) |
| Carbamazepine | Tegretol (Pro) |
| Carbamazepine | Tegretol XR |
| Eslicarbazepine | Aptiom (Pro) |
| Oxcarbazepine | Oxtellar XR (Pro) |
| Oxcarbazepine | Trileptal (Pro) |
| Rufinamide | Banzel (Pro) |
| Fatty acid derivatives | Divalproex sodium | Depakote (Pro) |
| Divalproex sodium | Depakote ER (Pro) |
| Divalproex sodium | Depakote Sprinkles (Pro) |
| Valproic acid | Depacon (Pro) |
| Valproic acid | Depakene (Pro) |
| Valproic acid | Stavzor (Pro) |
| Gamma-aminobutyric acid analogs | Gabapentin | Fanatrex |
| Gabapentin | Gabarone |
| Gabapentin | Gralise (Pro) |
| Gabapentin | Neurontin (Pro) |
| Gabapentin enacarbil | Horizant (Pro) |
| Pregabalin | Lyrica (Pro) |
| Pregabalin | Lyrica CR (Pro) |
| Vigabatrin | Sabril (Pro) |
| Gamma-aminobutyric acid reuptake inhibitors | Stiripentol | Diacomit (Pro) |
| Tiagabine | Gabitril (Pro) |
| Hydantoin anticonvulsants | Ethotoin | Peganone (Pro) |
| Fosphenytoin | Cerebyx (Pro) |
| Mephenytoin | Mesantoin |
| Phenytoin | Dilantin (Pro) |
| Phenytoin | Phenytek (Pro) |
| Phenytoin | Phenytoin Sodium (Pro) |
| Phenytoin | Phenytoin Sodium, Prompt |
| Miscellaneous anticonvulsants | Cannabidiol | Epidiolex (Pro) |
| Lacosamide | Vimpat (Pro) |
| Magnesium sulfate | Epsom Salt |
| Neuronal potassium channel openers | Ezogabine | Potiga (Pro) |
| Oxazolidinediones | Trimethadione | Tridione (Pro) |
| Pyrrolidines | Brivaracetam | Briviact (Pro) |
| Levetiracetam | Elepsia XR (Pro) |
| Levetiracetam | Keppra (Pro) |
| Levetiracetam | Keppra XR (Pro) |
| Levetiracetam | Roweepra (Pro) |
| Levetiracetam | Roweepra XR (Pro) |
| Levetiracetam | Spritam (Pro) |
| Succinimides | Ethosuximide | Zarontin (Pro) |
| Methsuximide | Celontin (Pro) |
| Triazines | Lamotrigine | Lamictal (Pro) |
| Lamotrigine | Lamictal CD |
| Lamotrigine | Lamictal ODT |
| Lamotrigine | Lamictal XR (Pro) |
| **PARP Inhibitors** |
| Olaparib |
| Talazoparib tosylate |