

A

Seizure focus

1

Loss of inhibitory surround

2

Drug treatment

3

Felbamate
NMDA-R
(closed)

Gabapentin
HVA Ca^{2+} channel
(closed)

Action potentials
(transmission
inhibited)

**Barbiturate or
benzodiazepine**
 Cl^-

**Phenytoin,
carbamazepine,
or lamotrigine**

Voltage-gated
 Na^+ channel
(inactivated)

B**1**

Thalamus
(seizure focus)

2**3**

**Benzodiazepine
(clonazepam)**
 Cl^-

GABA_A channel
(open)

**Ethosuximide or
valproic acid**

T-type Ca^{2+}
channel
(blocked)