## Open Peer Review on Qeios

## Phenytoin

National Cancer Institute

## Source

National Cancer Institute. <u>Phenytoin</u>. NCI Thesaurus. Code C741.

A hydantoin derivative and a non-sedative antiepileptic agent with anticonvulsant activity. Phenytoin potentially acts by promoting sodium efflux from neurons located in the motor cortex reducing post-tetanic potentiation at synapses. The reduction of potentiation prevents cortical seizure foci spreading to adjacent areas, stabilizing the threshold against hyperexcitability. In addition, this agent appears to reduce sensitivity of muscle spindles to stretch causing muscle relaxation.