



## Effective Health Care

### Treatment for the Genetic Origin of Epilepsy Nomination Summary Document

#### Results of Topic Selection Process & Next Steps

- Treatment for the genetic origin of epilepsy does not represent a healthcare intervention or activity that is available in the US and therefore does not fall within the domain of the Effective Health Care (EHC) Program. No further activity will be undertaken on this topic.

#### Topic Description

**Nominator:** Individual

**Nomination Summary:** The nominator discusses the hypothesized role of the adenomatous polyposis coli (APC) gene in the development of neurological conditions. The nominator questions how you can cure the genetic origin of epilepsy with pharmaceutical treatment.

**Key Questions from Nominator:** 1. How can you cure the genetic origin of epilepsy and what is the appropriate drug?

#### Considerations

- The topic does not meet EHC Program appropriateness criteria. (For more information, see <http://effectivehealthcare.ahrq.gov/index.cfm/submit-a-suggestion-for-research/how-are-research-topics-chosen/>.)
- While the mutations in the APC gene are most widely studied for their role in the development of colorectal cancer, there has been limited research to suggest that mutations may be related to the development of neurological conditions. Because of the still hypothetical nature of the relationship between APC and neurological conditions, there are not yet treatments for epilepsy that are targeted at this pathway.