

Investigation 3.13

Dr. _____

Activity 3.13A5 - Virtual Brain Surgery 2

P. ____ Date: _____

Introduction: Epilepsy is a chronic neurological disorder characterized by sudden episodes of abnormal electrical activity in the brain. Epileptic seizures are of many types. When medications cannot control seizures, surgery sometimes offers relief. The following game demonstrates a procedure that may relieve epilepsy symptoms.

Materials: Internet access

Directions:

1. Go to the following link to practice performing brain surgery.
2. After completing the activity answer the following questions.
3. <http://www.agame.com/game/operate-now-epilepsy-surgery>

Answer the following questions after you have completed the activity.

1. Did you successfully perform the surgery on this patient? YES NO
2. What test was administered before going to surgery?

3. Which area of the brain demonstrated abnormal electrical activity? Occipital

4. Why were holes drilled in the skull before the section of skull was cut open?

a. _____

b. _____

5. What was performed on the brain to normalize brain activity? Section removed

6. Why were holes drilled in the removed section of skull bone before replacing it?

7. Why were bone plates attached to the skull?
