

Data Notebook and Questions

Files to save (2): 1 Data file, PDF of Chart View

Table 1. Analysis of Participant Initiated Artifacts

	Time of Marker (sec)	Amplitude ($\Delta\mu\text{V}$)	Duration (Δsec)
Eye Blink			
Eye Movement			
Head Movement			

Table 2. Analysis of Equipment Failure Artifacts

	Typical Amplitude (μV)	Max Amplitude (μV)
Clean Data		
Wrong Electrode		
Hair in the Way		
Too Little Gel		

- Question 1: What clearly distinguishes brain activity voltage from non-brain activity voltage? (circle all that are true based on Tables 1 and 2)
- Brain activity has an amplitude between $+60\ \mu\text{V}$ and $-60\ \mu\text{V}$
 - Brain activity has an amplitude between $+200\ \mu\text{V}$ and $+60\ \mu\text{V}$
 - Brain activity has an amplitude between $-200\ \mu\text{V}$ and $-60\ \mu\text{V}$
 - Non-brain activity amplitude is generally smaller than the brain activity.
 - Non-brain activity amplitude is generally larger than the brain activity.
- Question 2: Which participant initiated artifact typically has the largest amplitude?
- Eye blinks, b. Eye movements, c. Head movements
- Question 3: Which participant initiated artifact typically lasts for the shortest duration?
- Eye blinks, b. Eye movements, c. Head movements
- Question 4: Based on Table 2, can the cause of the equipment failure artifacts be distinguished based on the amplitude? If no, describe what is consistent between each. If yes, describe what distinguishes between each.

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