

Group Progress Report

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Project: Anesthesia monitor

Date: 10/15/17

Goals for the past week (copied from last progress report)

1. Look up FDA regulations and standards for existing muscle relaxation monitoring devices
2. Brainstorm ideas for electrode design
3. Brainstorm ideas for interface

For each goal above, comment on your progress:

1. We have compiled a list of standards and regulations for a very similar existing device and will keep the guidelines in mind during the design and testing process.
2. We have a few ideas to test for determining the optimal number of electrodes and type of array, including a grid system, a diagonal grid, or a top and bottom clump.
3. Our interface will be a stand alone monitor. It needs to show the TOF ratio, and the stimulation and detection signal in scaled graph form. Other graphs or numbers may be added to enhance interpretation.

Goals for this week:

1. Test the technology currently in the hospital
2. Prototype circuitry for simple muscle stimulation and detection
3. Prototype different configurations of electrodes using those available in the hospital
4. Begin simple software design for detecting optimal electrode position?

Are there any difficulties with which you need assistance?

No.

Other comments: