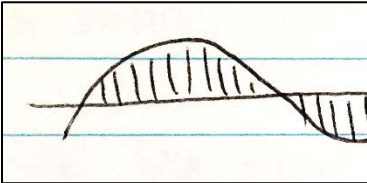
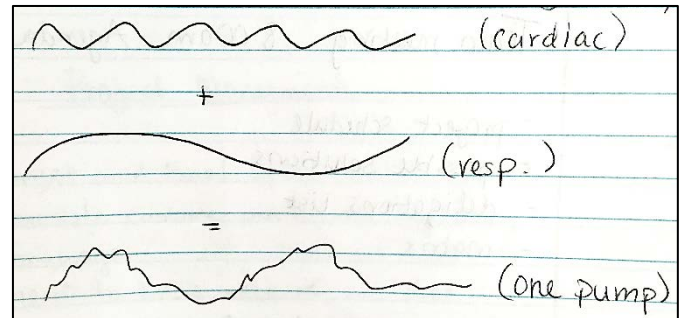


Client Interview – Dr. Bryn Martin

- Waveform and Frequency
 - Step size by 10
 - Cardiac (30-230 bpm)
 - Respiratory (1/5 heart rate)
- Patient: Human, Primate, Elephant, Mouse
- Interface:
 - Enter Heart Rate
 - Enter Stroke Volume
- Research Averages between different species
- Calculating Stroke volume:
 - Area under curve → 
 - Typically, 0.01ml → 2.0ml
- <5% uncertainty with all parameters
- Test pump with water – closest to SPF
- Independent waveform
- Both waveforms are independent but can run continuously at same time
- MRI Materials:
 - Aluminum
 - More research may be necessary
 - MRI compatibility is not high priority
- Budget:
 - Unlimited Budget
 - Email Dr. Martin for purchasing
- Goals:
 - Mechanism figured out and beginning prototyping before summer ends



Mini Team Meeting Proceeding Interview

- Create Project Schedule
- Brain Storm Possible Solutions
- Create Action Items Sheet
- Create Needs/Specs Matrix