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I. General Research Interest

A. ICU acquired weakness

1. Diagnostic tools
2. Nutritional interventions
3. Circadian rhythm interventions
4. Electrotherapy interventions

B. How circadian rhythms affect physical performance

1. Kynurenine and performance changes related to the light dark cycle
2. Circadian rhythm interventions to improve soldier performance

C. Mechanomyography as a diagnostic tool for health care

- a. Data science techniques to extract meaningful data from mechanomyographic data sets
- b. Fiber typing and contractile changes based on short and long phases of muscle contraction
- c. Using machine learning algorithms to aid in diagnosis of disease

II. Current Research Projects

- A. Determining whether mechanomyograms can distinguish clinical weakness
- B. Developing software to analyze mechanomyographic data
- C. Examining the physiological effects of Vaping CBD oil

III. Research Skills

- A. Research project management and recruitment
- B. Quantitative research methodologies
- C. Physiological testing
- D. Mechanomyography
- E. Python Programming
- F. Blood drawing