FC Manuscript 1 Outline

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## Outline

1. Dataset
   * SLICE III clinical dataset
   * SLICE II clinical dataset for controls
   * SLICE III flow cytometry datasets (layers 1 and 2)
   * SLICE II flow cytometry datasets for controls (layers 1 and 2)
2. Research Questions
   * Q1: Is PTLDS status associated with higher or lower lymphocyte subset %?
   * Q2: What demographic and/or clinical characteristics are associated with higher or lower lymphocyte subset %?
3. Characteristics Table
   * PLTDS vs. Controls:
     1. Age
     2. Gender
     3. Race
   * PTLDS: follow SLICE III clinical paper characteristics table:
     1. State of residence,
     2. Medical Record-Confirmed Lyme Disease Presentation,
     3. Observed/removed tick in month prior to onset,
     4. Duration of illness from onset of PTLDS symptoms to enrollment,
     5. Duration of illness from onset of first sign/symptom to start of first recommended antibiotic treatment course,
     6. Non-recommended antibiotics prior to recommended antibiotics,
     7. Steroids prior to recommended antibiotics,
     8. Total antibiotic exposure from symptom onset,
     9. Delayed or misdiagnosis.
4. Analysis Methods for Q1
   * Compare PTLDS patients with controls
   * Control for age, gender and race
5. Analysis Methods for Q2
   * PTLDS patients alone
   * Calculate and test correlation between each lymphocyte subset % and each characteristic variable