Meeting agenda

1. Progress update - powerpoint for all current results
   1. Looking at literature to connect results

Aim1: no differences between the groups and overall diversity

* Abundance and evenness - shannon

ISA: look at things that are unique to that condition

* Look at the ones that has an index of 4 in young PMS
  + Evelyn said look at first 4 because most interesting
  + Can say data is representative of the microbiome

Aim2: no differences

Alpha diversity: Disease status may be driving the differences and not other variables such as smoking or non smoking

Beta diversity: small statistical differences for Jacca

Evelyn says good idea to do a pair-wise analysis

* Do another test that may differentiate the clusters
* Make sure the stats go into figure legend

Aim3: core microbiome analysis: evelyn wants a dot plot

* Do the ones with “1”
* Average the samples out so you can have 1 bar plot for all 8 samples

Predictive model: requires a significant difference in at least one of the diversity metrics 🙁

* Evelyn said go for it LOL
* If not we have plenty to write about

1. Questions
   1. How can we highlight the statistical significant for Aim 2 beta
      1. What to do if we can’t find a paper that supports results?

* Look at similar papers that might have investigated similar groups that could backup why we found no differences
  1. Further investigation in literature - expectation
* Limitations: small sample size when data is binned into 8 groups

Action Items

1. Caro: Pair-wise test for Aim 2 Beta diversity. Then do literature search for significance. Manuscript outline
2. Poppy: Aldex (zoom meeting wednesday 10-11am)
3. All: Compile figures for selection next week
   1. Caro: figure slideshow
4. Maybe prepare microbe investigation?