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Describe in a few sentences or bullet-point where the project is at.

Break it into i) writing and ii) data work/analyses.

a) What has we accomplished so far?

i) writing

ii) data work/analyses

b) For each category (writing/analyses), what needs to be done next? Is there anything holding things up? How have we tried to solve this issue? What options are left?

i) writing

ii) data work/analyses

**Writing 🡪**

* **Finished second draft of Introduction, awaiting Calen’s feedback on new structure and information**
* **Feeling a bit stuck on the methods section, not exactly sure how to proceed**

**Analysis 🡪**

* **Finished script for using LMP to determine gestational age, still have 2 that are being weird**
* **Finished quick EDA (including new imputed GA code), used na\_if to remove -8 from phenotypic values, still some measurement dates that were 30+ days after birth which seems weird**
* **Need to figure out the precise model and potential visualizations**
* **Need to also take residuals from models that take phenotypic data**

Outline the predictors and outcomes we’re thinking through for the models we will build. Try to rationalize what and why

|  |  |  |
| --- | --- | --- |
| Variable | Type | Reason |
| Mom’s BMI | Predictor | BMI may affect our measure of maternal DNAmAge in adulthood |
| SES? | Predictor | SES should be something we control for here, (could) affect our measures of the phenotypic variables |
| Epigenetic Age of Mom | Predictor | Well, this is the main predictor |
| Gestational Age | Predictor | We need to control for this because there may be a difference between a baby born at 30 weeks vs. 40 weeks |
| Post Gest Age | Predictor | Again, we need to control for this because there may be a difference between a baby measured at 5 days old vs. 25 days old |
| Relative Measurement of Mom’s Epi Age | Predictor | Not sure about this, but what if a mom’s epigenetic age was measured at a different relative time point to the pregnancy compared to another mom? Wouldn’t this also need to be controlled for? |
| Any Phenotypic Variables (Birthweight, Measured Length, Measured Weight, Arm circumference, Head circumference, Abdominal circumference, Total Skin fold thickness) | Outcomes | These are what we are using for outcomes |

Any other thoughts, comments, ideas?

**Biggest thing I’m worried about here are the visualizations, there was a paper you had showed me during our last 1 on 1 call 🡪 we can discuss that again**