Check the hw9trialnerror rmd to see how I did my data analysis

exposome: e3\_alcpreg\_yn\_None (alcohol during pregnancy yes/no (0=none or <1/m(binary)), h\_folic\_t1\_None (folic acid supplementation during pregnancy(binary)), h\_pamod\_t3\_None (Walking and/or cycling acitivity during pregnancy(categorical)), h\_greenyn300\_preg\_None (Is there a greenspace in a distance of 300m?at home(categorical)), h\_pm10\_ratio\_preg\_None(pm10 value (extrapolated back in time using ratio m, pregnancy)(continuous))

h\_accesslines300\_preg\_dic0: Meters of public transport mode lines (only buses),

h\_accesspoints300\_preg\_Log: Number of bus public transport mode stops inside each 300m buffer, divided by the buffer area in km2at pregnancy period,

h\_builtdens300\_preg\_Sqrt: building density (m2 built/km2) within a buffers,

h\_connind300\_preg\_Sqrt: Connectivity density (number of intersections / k,

h\_walkability\_mean\_preg\_None: Walkability index (as mean of deciles of facility richness index, landuse shannons Evenness Index, population density, connectivity density)at pregnancy period, population densityat pregnancy period,

h\_pamod\_t3\_None

h\_pavig\_t3\_None

h\_pm10\_ratio\_preg\_None pm10 value

phenotype: hs\_asthma (Doctor diagnosed asthma (ever) and is binary) and e3\_bw(outcome at birth, child weight at birth in grams and is continuous), hs\_zbmi\_who

Body mass index z-score at 6-11 years old Outcome at 6-11 years old

e3\_alcpreg\_yn\_None, cat

h\_folic\_t1\_None, cat

h\_pamod\_t3\_None, cat

h\_greenyn300\_preg\_None, cat

h\_pm10\_ratio\_preg\_None, cont

h\_accesslines300\_preg\_dic0, cat

h\_accesspoints300\_preg\_Log, cont

h\_builtdens300\_preg\_Sqrt, cont

h\_connind300\_preg\_Sqrt, cont

h\_walkability\_mean\_preg\_None cont

e3\_bw cont

hs\_asthma cat

hs\_zbmi\_who cont

phenotype: hs\_asthma (Doctor diagnosed asthma (ever) and is binary) and e3\_bw(outcome at birth, child weight at birth in grams and is continuous), hs\_zbmi\_who

Body mass index z-score at 6-11 years old Outcome at 6-11 years old

#Q2 thoughts

Does the built environment that the mothers expereince during pregnancy affect the child ever being diagnosed with asthma? Does a poor built environment during a mothers pregnancy increase a child diagnois of asthma? What factors of the built environment during a mothers pregnancy increase a child diagnois of asthma?

I would have to limit the family to built environment and period to pregnancy

the outcome is hs\_asthma (from phenotype), and add

h\_edumc\_None and h\_native\_None from the covariates to the regression.

h\_accesslines300\_preg\_dic0: Meters of public transport mode lines (only buses),

h\_accesspoints300\_preg\_Log: Number of bus public transport mode stops inside each 300m buffer, divided by the buffer area in km2at pregnancy period,

h\_builtdens300\_preg\_Sqrt: building density (m2 built/km2) within a buffers,

h\_connind300\_preg\_Sqrt: Connectivity density (number of intersections / k,

h\_walkability\_mean\_preg\_None: Walkability index (as mean of deciles of facility richness index, landuse shannons Evenness Index, population density, connectivity density)at pregnancy period, population densityat pregnancy period,

h\_pamod\_t3\_None

h\_pavig\_t3\_None