**Statistical Analysis Plan**

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Aim: estimate the smoothed probabilities of overweight and obesity by region and variables of interest in Honduras, using ENDESA 2019 data.

Exclusion/Inclusion criteria

Excluded:

* Pregnant (don’t know/no response) women (n = 978)
* No response (n=1562)
* Height and weight missing.

Decisions made:

09/25/24:

* Pregnant women (and those that do not know) excluded from analysis.
* There are 1562 women without response (exclude them)
* Use WOMEN\_AGE\_C4 to reduce the number of categories in the spatial analysis.
* We will model probability of overweight instead of relative risk (log link) to avoid fitting issues

Next steps:

* Prediction maps
  + REGION, WOMEN\_AGE\_C4
  + REGION, WOMEN\_EDUCATION\_C4
  + REGION, WEALTH INDEX