Using the dataset Hove\_et\_al\_2020.csv

1. Examine whether “crp” changes with age overall. First fit a linear model, then try quadratic fits and splines. From the model fits, make plots of the predicted mean and CI, as well as the simulated values and CI.
2. Use the “AgeCat” variable to examine changes with age using categorical variables. Does this change your interpretation?
3. Does the age pattern of crp differ between the Tsimane and NHANES?
4. If you subset only the women with RepStatus=Cycling, does this change the pattern? What about just women with RepStatus T1, T2, or T3 (1-3rd trimesters)?
5. Control for BMI in your models. Does this affect estimates?