

Lab Exercise 3

Load the data `lab_data.csv` and the following packages in R by running the code below.

```
chikwawa <- read.csv("lab_data.csv")  
load(PrevMap)  
load(lme4)
```

1. Consider the linear model for the log-transformed Hb concentration considered in the last lab session. Write down the following target for predictions: (a) the mean Hb concentration of the female population at a given household location x ; (b) the prevalence of anaemia of the female population at a given location x ; (c) the mean Hb concentration of a specific female individual.
2. Would there be a difference in the predictions between the targets (a) and (b)? And in their standard errors?
3. Carry out spatial predictions for the targets (a) and (b), and visualize this on a map.