

Linear regression practical

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1. We are going to use a dataset from an HIV study. Read the dataset “hivdata.dta” (**hint: use the haven package to read the data__**) into R.

```
library(tidyverse)
library(haven)
```

The data had the following variables: a. weight_kg - child birth weight b. cd4 – maternal CD4 count at delivery c. momhb – Maternal Haemoglobin levels at delivery d. ga_weeks – gestational age at delivery/birth e. hiv_status – Child’s HIV status at birth f. sex - the sex of the child

2. The primary research question is “**Is child birth weight associated with maternal HIV status?**”
 - Adjust for any confounders and fit a multi-variable model. Show how the model improves with adjusting for extra variables
3. The primary research question is “**Is child birth weight associated with maternal CD4 count at birth?**”
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