

Weight regression

Noah Siegel

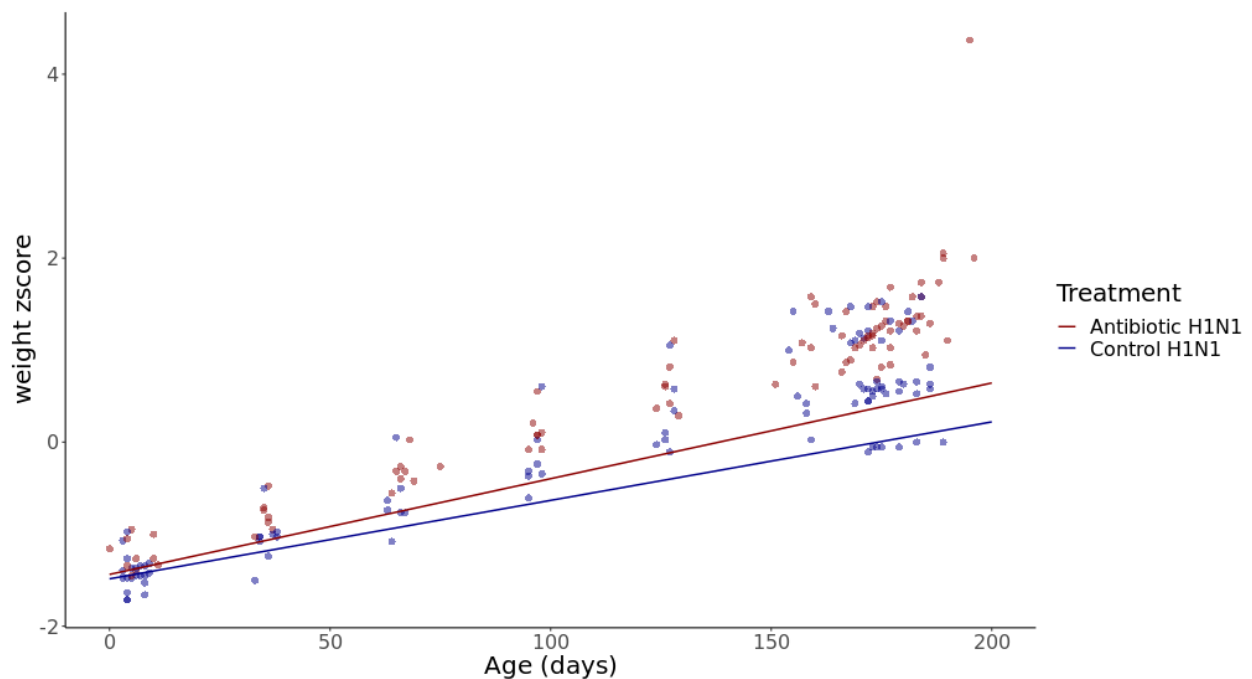
17 January, 2023, 22:39

```
suppressPackageStartupMessages({  
  library(plyr)  
  library(tidyverse)  
  library(sjPlot)  
  library(lmerTest)  
  library(readxl)  
  library(xlsx)  
  library(kableExtra)  
})
```

H1N1 Control vs. Antibiotic

Weight Z-scores

Residual plot



	Sum Sq	Mean Sq	NumDF	DenDF	F value	Pr(>F)
Sex	0.00562	0.00562	1	14.73324	0.08609	0.77330
Treatment	0.00447	0.00447	1	14.74726	0.06849	0.79717
age_days	46.60555	46.60555	1	172.92029	713.60926	0.00000
Sex:age_days	1.19665	1.19665	1	173.01347	18.32265	0.00003
Treatment:age_days	0.67218	0.67218	1	173.38219	10.29213	0.00159
Sex:Treatment	NA	NA	NA	NA	NA	NA
Sex:Treatment:age_days	NA	NA	NA	NA	NA	NA

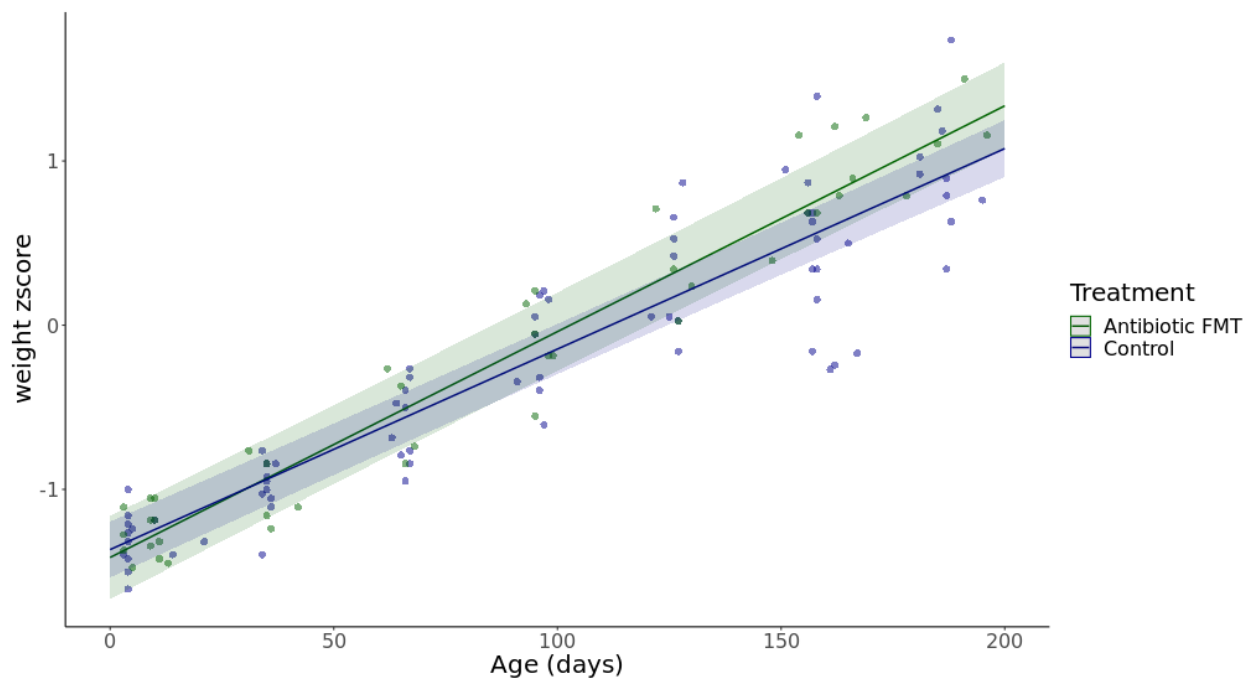
Model table

	Sum Sq	Mean Sq	NumDF	DenDF	F value	Pr(>F)
Treatment	0.00440	0.00440	1	15.58122	0.09585	0.76097
age_days	74.25687	74.25687	1	102.37236	1618.20654	0.00000
Treatment:age_days	0.26206	0.26206	1	102.37236	5.71082	0.01869

FMT vs. Antibiotic

Weight Z-scores

Residual plot



Model table

Session Information

```
## R version 3.6.3 (2020-02-29)
## Platform: x86_64-conda-linux-gnu (64-bit)
## Running under: Ubuntu 18.04.6 LTS
##
## Matrix products: default
## BLAS/LAPACK: /srv/conda/envs/notebook/lib/libopenblas-r0.3.21.so
##
## locale:
##  [1] LC_CTYPE=en_US.UTF-8      LC_NUMERIC=C
##  [3] LC_TIME=en_US.UTF-8      LC_COLLATE=en_US.UTF-8
##  [5] LC_MONETARY=en_US.UTF-8  LC_MESSAGES=en_US.UTF-8
```

```

## [7] LC_PAPER=en_US.UTF-8          LC_NAME=en_US.UTF-8
## [9] LC_ADDRESS=en_US.UTF-8        LC_TELEPHONE=en_US.UTF-8
## [11] LC_MEASUREMENT=en_US.UTF-8    LC_IDENTIFICATION=en_US.UTF-8
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods    base
##
## other attached packages:
## [1] kableExtra_1.3.4  xlsx_0.6.5      readxl_1.3.1    lmerTest_3.1-3
## [5] lme4_1.1-27       Matrix_1.3-3    sjPlot_2.8.8     forcats_0.5.1
## [9] stringr_1.4.0     dplyr_1.0.6     purrr_0.3.4     readr_1.4.0
## [13] tidyr_1.1.3       tibble_3.1.2    ggplot2_3.3.3    tidyverse_1.3.1
## [17] plyr_1.8.6
##
## loaded via a namespace (and not attached):
## [1] nlme_3.1-152      fs_1.5.0         lubridate_1.7.10
## [4] webshot_0.5.2     insight_0.14.0   httr_1.4.2
## [7] numDeriv_2016.8-1.1 tools_3.6.3      backports_1.2.1
## [10] utf8_1.2.1        R6_2.5.0         sjlabelled_1.1.8
## [13] DBI_1.1.1         colorspace_2.0-1 withr_2.5.0
## [16] tidymodels_1.1.1 emmeans_1.6.0    compiler_3.6.3
## [19] performance_0.7.2 cli_3.6.0        rvest_1.0.0
## [22] xml2_1.3.2        labeling_0.4.2   bayestestR_0.9.0
## [25] scales_1.1.1      mvtnorm_1.1-1    systemfonts_1.0.2
## [28] digest_0.6.27     minqa_1.2.4      rmarkdown_2.19
## [31] svglite_2.0.0     pkgconfig_2.0.3  htmltools_0.5.4
## [34] dbplyr_2.1.1      fastmap_1.1.0    rlang_1.0.6
## [37] rstudioapi_0.13   farver_2.1.0     generics_0.1.0
## [40] jsonlite_1.7.2    magrittr_2.0.1   parameters_0.13.0
## [43] Rcpp_1.0.9        munsell_0.5.0    fansi_0.4.2
## [46] lifecycle_1.0.0   stringi_1.6.2    yaml_2.2.1
## [49] snakecase_0.11.0  MASS_7.3-54      grid_3.6.3
## [52] sjmisc_2.8.7      crayon_1.4.1     lattice_0.20-44
## [55] ggeffects_1.1.0   haven_2.4.1      splines_3.6.3
## [58] xlsxjars_0.6.1    sjstats_0.18.1   hms_1.1.0
## [61] knitr_1.33        pillar_1.6.1     boot_1.3-28
## [64] estimability_1.3  effectsize_0.4.4-1 reprex_2.0.0
## [67] glue_1.4.2        evaluate_0.14    modelr_0.1.8
## [70] vctrs_0.3.8       nloptr_1.2.2.2   cellranger_1.1.0
## [73] gtable_0.3.0      assertthat_0.2.1 xfun_0.36
## [76] xtable_1.8-4      broom_0.7.6      viridisLite_0.4.0
## [79] rJava_1.0-4       tinytex_0.31     ellipsis_0.3.2

```