

# Analysis of Tissue Weights from HFD/Dexamethasone Studies

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## Data Entry

This script generates figures from the tissue weights found in ../../data/raw/HFD and Chow Tissue Weights.csv. This file is located in /Users/davebrid/Documents/GitHub/CushingAcromegalyStudy/scripts/scripts-obesity and was most recently updated on Tue Aug 8 19:28:21 2017.

## Number of Animals

Table 1: Number of mice in each group

Status	Diet	Treatment	Number
Fasted	NCD	Water	8
Fasted	NCD	Dexamethasone	8
Fasted	HFD	Water	22
Fasted	HFD	Dexamethasone	12
Fed	NCD	Water	4
Fed	NCD	Dexamethasone	4

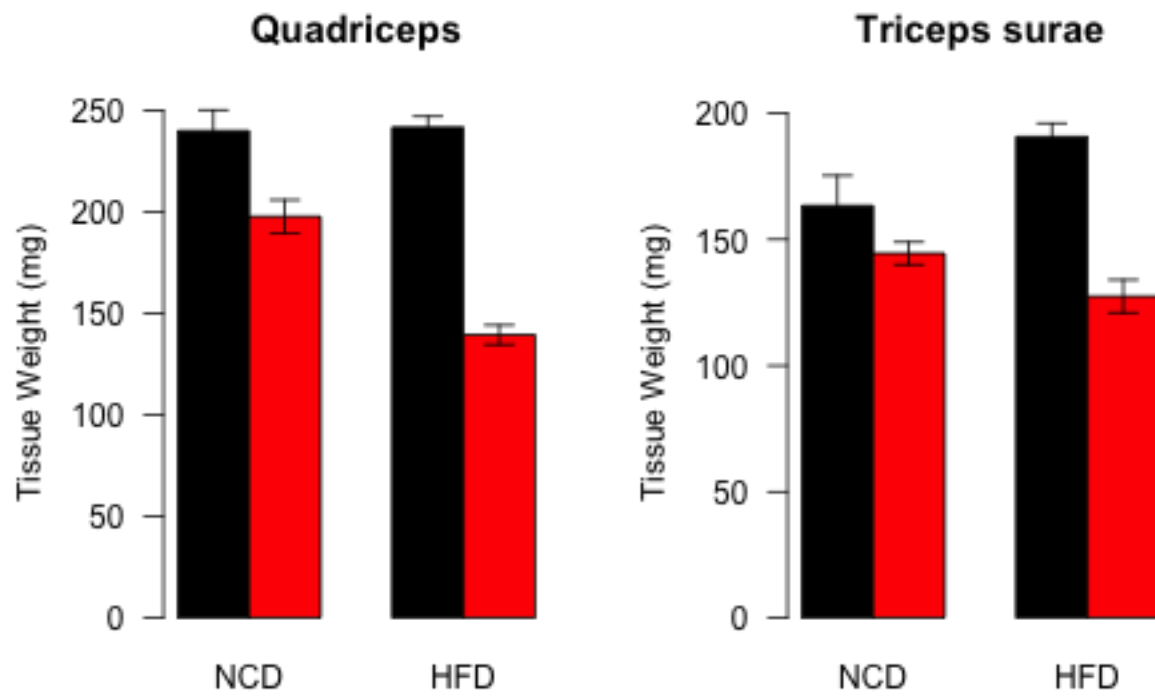
## Summary Data

The remainder of this analysis is only for Fasted animals

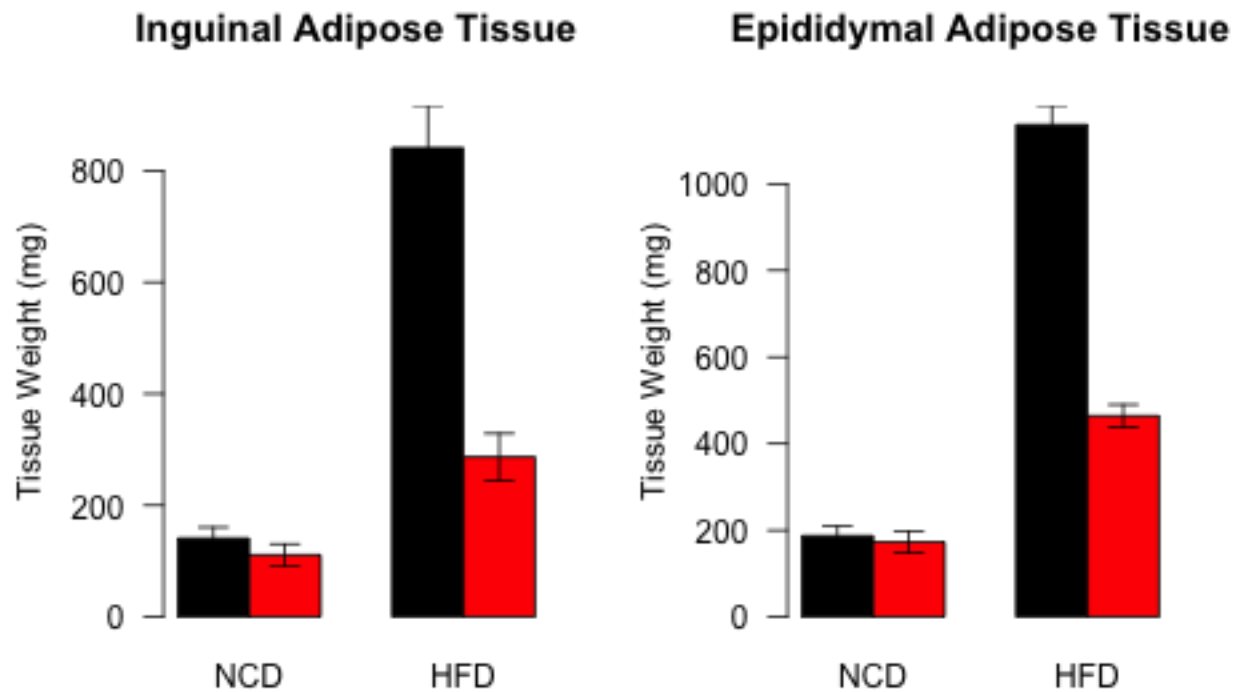
Table 2: Averaged Values

Diet	Treatment	iWAT_mean.na	eWAT_mean.na	TS_mean.na	Quad_mean.na
NCD	Water	141	187	163	240
NCD	Dexamethasone	111	173	144	198
HFD	Water	841	1136	191	242
HFD	Dexamethasone	287	464	127	140

## Muscle Barplots



## Adipose Barplots



## Analysis of Adipose Tissue Weights

We observed reductions in both iWAT and eWAT with HFD/Dexamethasone. This included a 65.888 reduction in iWAT mass and a 59.16 reduction in eWAT mass.

## Session Information

```
## R version 3.3.0 (2016-05-03)
## Platform: x86_64-apple-darwin13.4.0 (64-bit)
## Running under: OS X 10.12.6 (unknown)
##
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods   base
##
## other attached packages:
## [1] forcats_0.2.0 readr_1.1.0  dplyr_0.5.0  tidyr_0.6.1  knitr_1.15.1
##
```

```
## loaded via a namespace (and not attached):
## [1] Rcpp_0.12.10    digest_0.6.12   rprojroot_1.2   assertthat_0.1
## [5] R6_2.2.0        DBI_0.6-1       backports_1.0.5 magrittr_1.5
## [9] evaluate_0.10   highr_0.6       stringi_1.1.3   lazyeval_0.2.0
## [13] rmarkdown_1.6   tools_3.3.0     stringr_1.2.0   hms_0.3
## [17] yaml_2.1.14     htmltools_0.3.5 tibble_1.3.0
```