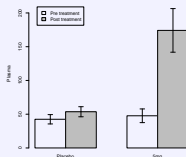


Bar Plots with Error Bars

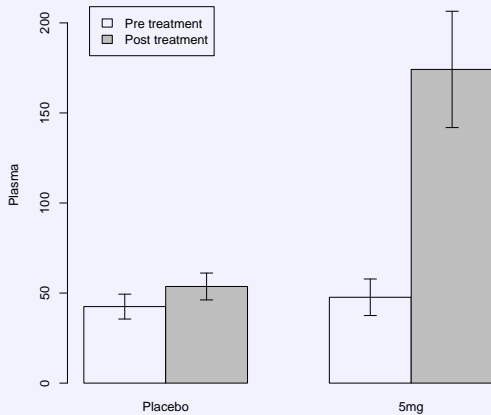
- ▶ “Dynamite” Plots
- ▶ Height of bar indicates mean, lines represent standard error
- ▶ High ink:information ratio
- ▶ Hide the raw data, assume symmetric confidence intervals
- ▶ Replace with
 - ▶ Dot plot (smaller sample sizes)
 - ▶ Box plot (larger sample size)



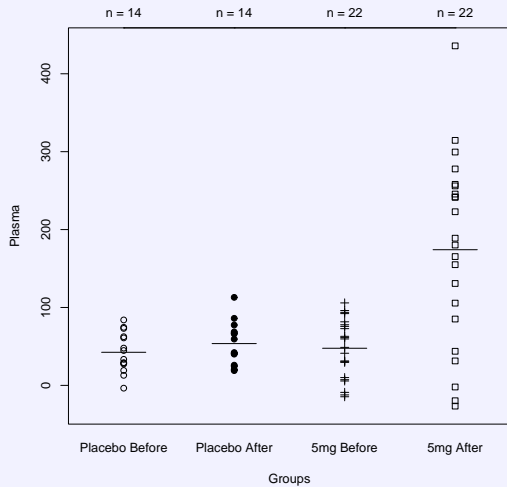
Example data

- ▶ Reproduce Placebo and 5mg in Figure 5B using two possible data structures
 - ▶ Symmetric plasma concentrations about the mean
 - ▶ “Responders” and “Non-responders” to folate
- ▶ Identical dynamite plots
- ▶ Differences shown in dot plots
- ▶ Other options

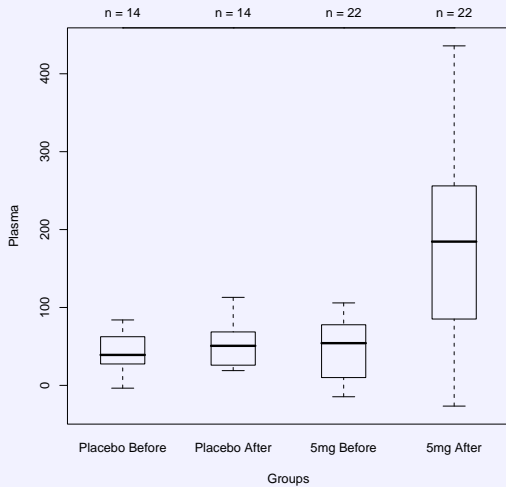
Dynamite Plot (Symmetric)



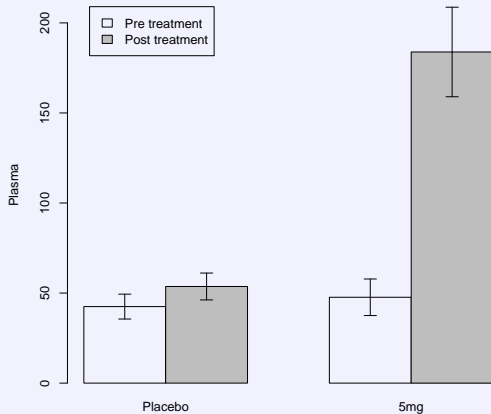
Dot Plot (Symmetric)



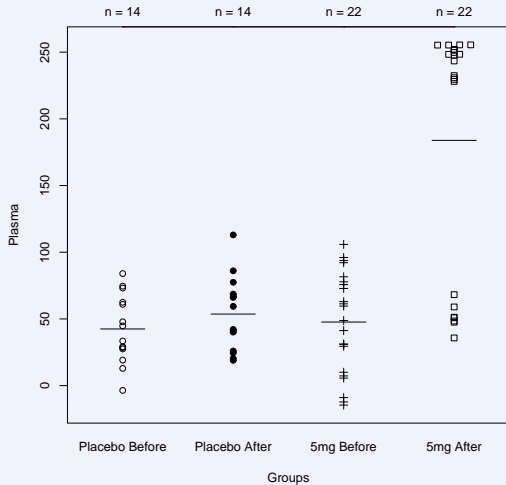
Box Plot (Symmetric)



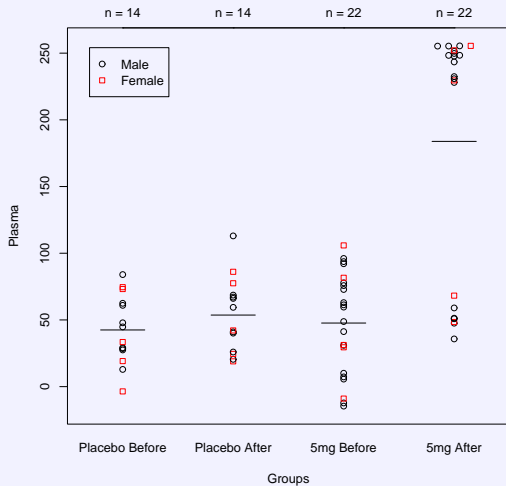
Dynamite Plot (Responder and Non-Responders)



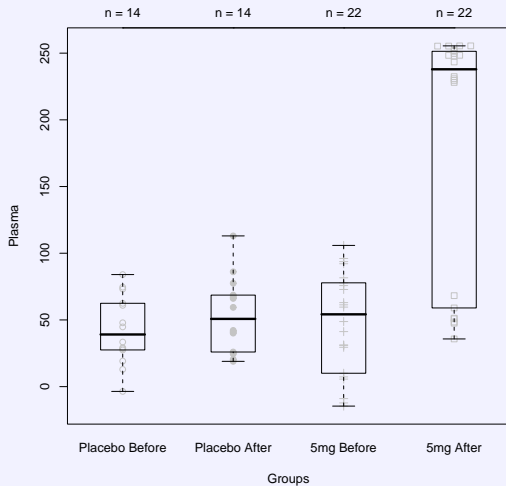
Dot Plot (Responder and Non-Responders)



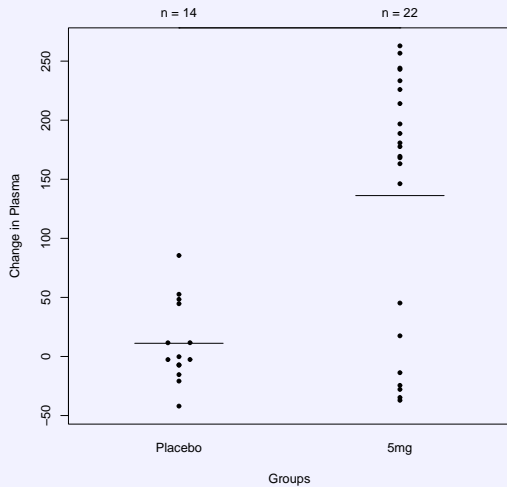
Dot Plot with Gender



Dot Plot with Box Plot



Difference (Post - Pre)



References

- ▶ Biostatistics TWiki
 - ▶ <http://biostat.mc.vanderbilt.edu/DynamitePlots>
- ▶ Statistics with confidence
 - ▶ Figures 3.1 and 3.2