

# PubH 7445: Homework Assignment 5

October 18, 2019

Due Monday, October 21, 2019

Please hand in a print-out of your answer and R code, and also email your R code to the TA (sealx017@umn.edu).

1. Problem 5.1 from Foulkes text
2. Problem 5.2 from Foulkes text
3. Problem 5.3 from Foulkes text
4. Problem 5.4 from Foulkes text
5. Problem 5.5 from Foulkes text
6. Examine the fit of the model you fit in the previous problem-do the residuals look approximately normal? Compare to a model that uses a logarithmic transformation. Does gender have an impact on the change in the non-dominant arm muscle strength in this subpopulation? Is there an impact of gender when you consider the effect of the resistin haplotypes? Explain your findings.