

# PubH 7445: Homework Assignment 2

September 20, 2019

Due Friday, September 27, 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). These questions are mostly from Verzani's Simple R notes. Some datasets are from the simple R data sets, so first install the package `UsingR`.

1. Problem 8.6 from Verzani's notes.
2. Problem 9.1 from Verzani's notes.
3. Problem 9.2 from Verzani's notes.
4. Problem 9.8 from Verzani's notes.
5. Using the `Theoph` data set determine the proportion of subjects who have a concentration of at least 10 for some dose. Compute a 95% confidence interval using the normal approximation and compare to an exact interval obtained from `binom.test`. Can we reject the null hypothesis that this proportion is less than 10% or less? Explain.
6. Problem 10.2 from Verzani's notes.
7. Problem 11.2 from Verzani's notes.
8. Problem 12.3 from Verzani's notes.
9. Problem 12.4 from Verzani's notes.
10. Problem 13.4 from Verzani's notes.
11. Problem 14.5 from Verzani's notes.
12. Problem 15.2 from Verzani's notes.
13. Problem 15.3 from Verzani's notes.