

## **BIOS 6622 – Statistical Consulting – Homework #1**

This is a real consulting email I received a couple of years ago from a retired MD with some questions about a drug he is using. Write a memo to him giving your answer to his question, and any supporting analyses.

Dear Dr. Grunwald:

Your analysis will help me. The alfuzosin seems helpful in reducing nighttime urination frequency but has some side effects. If your analysis indicates that the alfuzosin is highly efficacious I'll use it despite the side effects.

Consecutive nightly urinations May, June, and July while on alfuzosin follow:

1,1,2,2,3,1,0,3,3,2,5,2,1,3,2,1,1,2,1,2,2,2,2,1,1,5,1,2,3,1,2,5,1,5,3,3,3,2,5,2,3,4,3,4,5,3,4,3,2,3,5,2,2, and 3.

Consecutive nightly urinations while off Alfuzosin during, July, and August, immediately following the nights on alfuzosin, follow:

10, 7, 4, 4, 3, 5, 6, 7, 7, 3, 5, 2, 4, 4, 6, 3, 6, 2, 5, 3, 5, 2, 4, 2, 3, 6, 4, 5, 4, 7, 4, 3, 3, 4, 2, 4, 4, and 3.

Respectfully, Gratefully, Yours,