

## Biostatistics I Practice. Test 2 Example

**Task 1.** Consider a sample of 50 man, 35 of whom were over weighted. Is overweight proportion significantly *different* from standard proportion of overweight of 40%.

**Task 2.** Mice of a certain age have a mean weight of 15 g. In your study you observed on 16 mice a mean of 13g and a standard deviation of 1.44g. Test hypothesis that mice in your study weight less than normal.

**Task 3.** Look for dataset “**mice**”

Provide the 95% confidence interval for mean observation time

**Task 4.** For the same dataset “**mice**” (**male** only) calculate interval estimation of proportion of mice Ending weight over 25g.

**Task 5.**

Check, whether weight of CE/J strain mice changed during experiment