

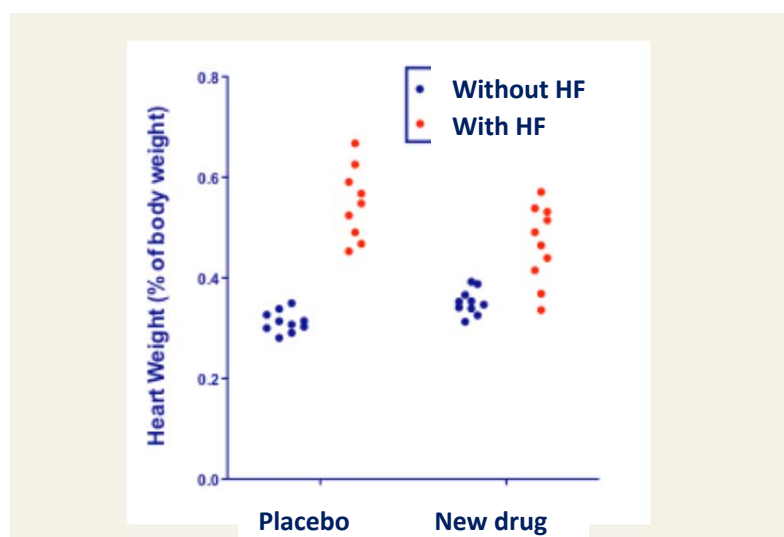
INTUITIVE BIOSTATISTICS

A Nonmathematical Guide To Statistical Thinking

※Intuitive Biostatistics case study (revised)

<http://www.intuitivebiostatistics.com/topics/2010/1/16/statistics-case-study.html>

One consequence of heart failure is that the heart gets larger (cardiomegaly). This study tested such a drug in an animal model of heart failure. Half the rats were given the surgery to create heart failure, and half were given sham surgery. In each of those groups, half of the rats were injected with a new drug and half were injected with placebo as a control.



	Without HF			With HF		
	Mean	SD	N	Mean	SD	N
Placebo	0.32	0.02	10	0.55	0.07	9
New drug	0.35	0.03	10	0.47	0.08	10

Q1. Is the change in heart weight statistically significant in each group? Calculate using OpenEpi.

Q2. Please interpret the results considering clinical application.