

**22s:039**

**Confidence Interval for  $\mu$  with unknown  $\sigma^2$**

A random sample of 15 young adults was taken. The heart rate in beats per minute was measured on each individual. The distribution of heart rate values follows a normal distribution. The data follow:

70, 74, 75, 78, 64, 70, 78, 81, 73, 82,  
75, 71, 79, 73, 79

Construct a 95% CI for  $\mu$  the population mean heart for young adults. (The t-table from your book is copied onto the back of the sheet.)