10.5 Paired *t* - test

GOALS:

- 1. Recognize problems with paired data.
- 2. Consider the difference of paired data, d.
- 3. Analyze normally distributed paired data using a single sample t-test and H_0 : $\mu_1 = \mu_2$ or d = 0.

Study Ch. 10.5, # 139, 141,146, 149, 153, 155, 157 [127-135, 139-143]

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What is similar about these problems that is different from the other 2-sample tests?

142. "additional sleep in hours obtained by 10 patients who used laevohysocyamine hydrobromide."
At the 5% s.l. ... to conclude that laevohysocyamine hydrobromide is effective in increasing sleep?

143. "weights in pounds of 17 anorexic young women before and after receiving a family therapy...."

At the 5% s.l. ... does family therapy appear to be effective in helping anorexic women gain weight?

144. "11 tires were each measured for treadwear by 2 methods, one based on weight and the other on groove wear.. ." At the 5% s.l. ... do the 2 measurement methods give different results?

146. 14 subjects drank 240 ml fortified orange juice per day. Concentrations of serum 25(OH)D at beginning and end of 12 weeks... . At the 1% s.l. ... does drinking fortified OJ increase serum 25(OH)D?

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