Homework Solutions
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Exercise 8

(a) The placebo effect if the effect of the patient feeling better or even improving simply because of the attention that he is getting when he receives the placebo.

(b) By using a placebo, the patients would not know whether they were receiving the actually treatment, so any such effect would be neutralized.

(c) They would be independent samples.

(d) They found the results not to be significant, so the p-value must be greater then 0.05 (or whatever α they used).

(e) The hypotheses would be

$$H_0: \quad \mu_1 = \mu_2$$
$$H_1: \quad \mu_1 > \mu_2$$

However, the article refers to "success rates," which sound like proportions, not means. Maybe the answer should be

$$H_0: \quad p_1 = p_2$$
$$H_1: \quad p_1 > p_2$$