

# Chapter 2

## DESCRIPTIVE STATISTICS

**2.1** We have

$$\bar{x} = \frac{\sum x_i}{n} = \frac{215}{25} = 8.6 \text{ days}$$

$$\text{median} = \frac{(n+1)}{2} \text{th largest observation} = 13\text{th largest observation} = 8 \text{ days}$$

**2.2** We have that

$$s^2 = \frac{\sum (x_i - \bar{x})^2}{n-1} = \frac{(5-8.6)^2 + \dots + (4-8.6)^2}{24} = \frac{784}{24} = 32.67$$

$$s = \text{standard deviation} = \sqrt{\text{variance}} = 5.72 \text{ days}$$

$$\text{range} = \text{largest} - \text{smallest observation} = 30 - 3 = 27 \text{ days}$$

**2.3** Suppose we divide the patients according to whether or not they received antibiotics, and calculate the mean and standard deviation for each of the two subsamples:

	$\bar{x}$	$s$	$n$
Antibiotics	11.57	8.81	7
No antibiotics	7.44	3.70	18
Antibiotics - $\bar{x}_2$	8.50	3.73	6

It appears that antibiotic users stay longer in the hospital. Note that when we remove observation 7, the two standard deviations are in substantial agreement, and the difference in the means is not that impressive anymore. This example shows that  $\bar{x}$  and  $s^2$  are not robust; that is, their values are easily affected by outliers, particularly in small samples. Therefore, we would not conclude that hospital stay is different for antibiotic users vs. non-antibiotic users.

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