



SPSS - الاحصاء

المحاضرة السادسة

Sawa University

College of health and medical
techniques

Department of Medical
Laboratories

. 2nd Stage

جامعة ساوة

الاهلية

كلية التقنيات الصحية
والطبية

قسم تقنيات المختبرات
الطبية

المدرسة
تدريسي المادة : م.م سلام
النقيب الثانية.

محاضرة رقم ٦

Lecture No.

6

الجانب

النظري
Theoretical

1. Mean

Exercise 1: A sample of blood pressures (in mmHg) for 5 patients is as follows: 120, 130, 115, 125, and 140.

What is the mean blood pressure?

Solution: Mean = $(120 + 130 + 115 + 125 + 140) / 5 = 630 / 5 = 126$ mmHg.

1. Mean

Exercise 2: The body temperatures of 6 patients are: 98.2, 99.1, 98.7, 98.4, 99.2, 98.9. Calculate the mean body temperature.

Exercise 3: A sample of heart rates (beats per minute) of 4 patients is: 72, 85, 90, 78. What is the mean heart rate?

Exercise 4: The number of hours of sleep for 7 patients: 7, 6.5, 8, 7.2, 6, 7.5, and 7.8. Calculate the mean.

2. Median

Exercise 1: The following are the systolic blood pressures (mmHg) of 5 patients: 120, 130, 115, 125, and 140. What is the median?

Solution: Arrange the data in order: 115, 120, 125, 130, 140. The median is the middle value, which is 125 mmHg.

2. Median

Exercise 2: The following are the weights (kg) of 6 patients: 68, 72, 65, 77, 80, 71. Find the median weight.

Solution: Arrange the data: 65, 68, 71, 72, 77, 80. The median is the average of the 3rd and 4th values: $(71 + 72) / 2 = 71.5$ kg.

2. Median

Exercise 3: The following are the ages of 7 patients: 50, 60, 55, 70, 45, 65, 75. Find the median age.

Exercise 4: The cholesterol levels (mg/dL) of 9 patients are: 210, 200, 220, 190, 180, 230, 250, 240, 260. Find the median cholesterol level.

Exercise 5: The blood glucose levels (mg/dL) of 5 patients are: 95, 100, 85, 110, 105. What is the median glucose level?

3. Mode

Exercise 1: The following are the systolic blood pressures (mmHg) of 5 patients: 120, 130, 120, 125, 140. What is the mode?

Solution: The mode is the value that occurs most frequently. Here, 120 occurs twice, so the mode is 120 mmHg.

3. Mode

Exercise 2: The following are the body temperatures ($^{\circ}\text{F}$) of 6 patients: 98.6, 99.2, 98.7, 98.4, 99.1, 98.8.

What is the mode?

Solution: The mode is the value that occurs most frequently. Here, there is no value frequent for that no modal is found.

3. Mode

Exercise 3: The following are the pulse rates (bpm) of 6 patients: 72, 85, 85, 78, 72, 85. What is the mode?

Exercise 4: The following are the heights (cm) of 5 patients: 165, 170, 170, 160, 175. Find the mode.

Exercise 5: The following are the weights (kg) of 7 patients: 60, 70, 60, 80, 75, 60, 85. What is the mode?