

Descriptive analysis of medical data

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1. Descriptive analysis of qualitative data

Table 1. Frequency table for hepatitis type

Hepatitis type (Type A / Type B / Type C)	Counts	% of Total	Cumulative %
Type A	99	66.0%	66.0%
Type B	26	17.3%	83.3%
Type C	25	16.7%	100.0%

Table 2. Frequency table for symptoms at discharge

Symptoms at discharge (Present/Absent)	Counts	% of Total	Cumulative %
Present	52	34.7%	34.7%
Absent	98	65.3%	100.0%

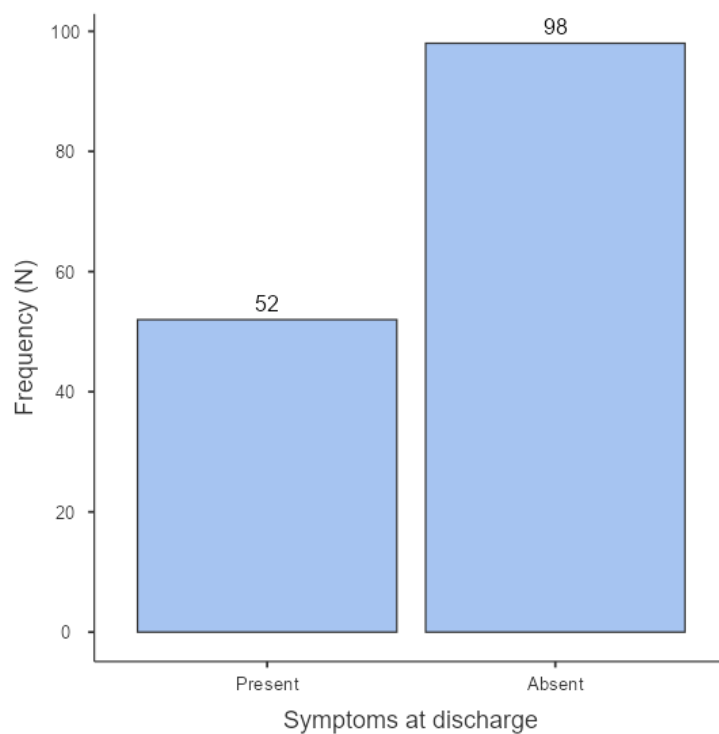


Figure 1. Distribution of patients by symptoms at discharge

Example of interpretation: In the studied sample, more patients were discharged without symptoms than with symptoms.

Table 3. Relationship between obesity and smoking

Smoking (Yes/No)	Obesity (Normal weight / Overweight / Obese)			Total
	Normal weight	Overweight	Obese	
Yes	20	13	3	36
No	50	36	28	114
Total	70	49	31	150

Example of interpretation: Of the patients who are overweight, % are smokers.

Plots

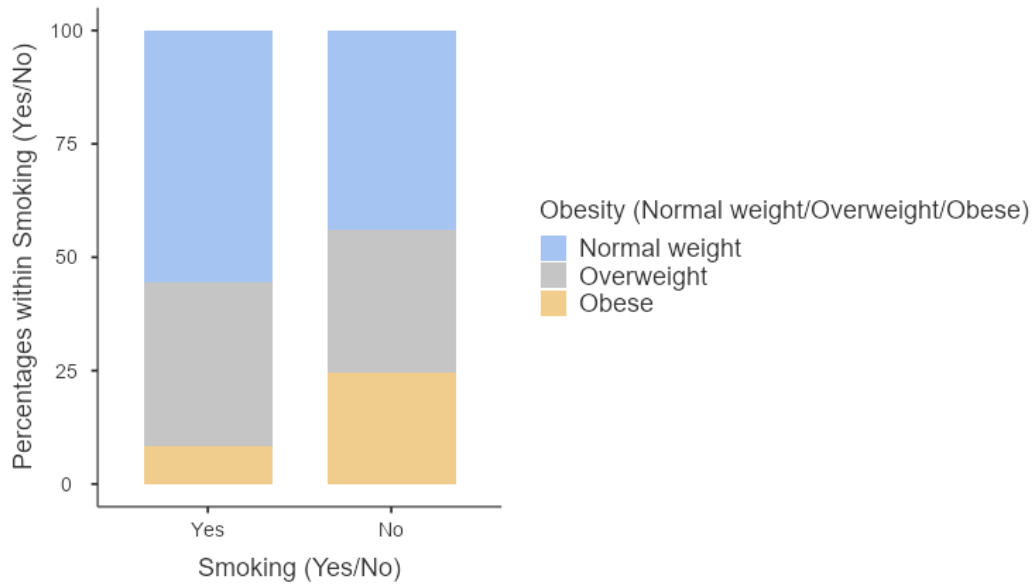


Figure 2. Relationship between smoking and obesity

Example of interpretation: Among smokers, the highest frequency was in the category.

2. Descriptive analysis of quantitative data

Table 4. Calculation of the statistical indicators

	Age (years)	Weight (kg)	Cholesterol (mg/dL)
N	136	136	136
Mean	56.6	79.7	206
Std. error mean	1.67	1.11	3.45
Median	56.5	80.0	205
Mode	64.0	80.0 ^a	176 ^a
Standard deviation	19.5	13.0	40.2
Variance	379	169	1617
Range	80	57	209
Minimum	18	52	118

Table 4. Calculation of the statistical indicators

	Age (years)	Weight (kg)	Cholesterol (mg/dL)
Maximum	98	109	327
Skewness	0.132	0.0822	0.327
Std. error skewness	0.208	0.208	0.208
Kurtosis	-0.890	-0.440	-0.159
Std. error kurtosis	0.413	0.413	0.413
25th percentile	40.8	71.0	176
50th percentile	56.5	80.0	205
75th percentile	70.3	87.3	232

^a More than one mode exists, only the first is reported

Table 5. Interpretation of the statistical indicators

Indicators	Cholesterol (mg/dL)
Central tendency	
Mean	The average cholesterol level in the sample was
Median	
Mode	Several values occur equally often (multimodal).
Shape	
Skewness	
Kurtosis	
Position	
Quartile 1 (Q1)	

Histogram

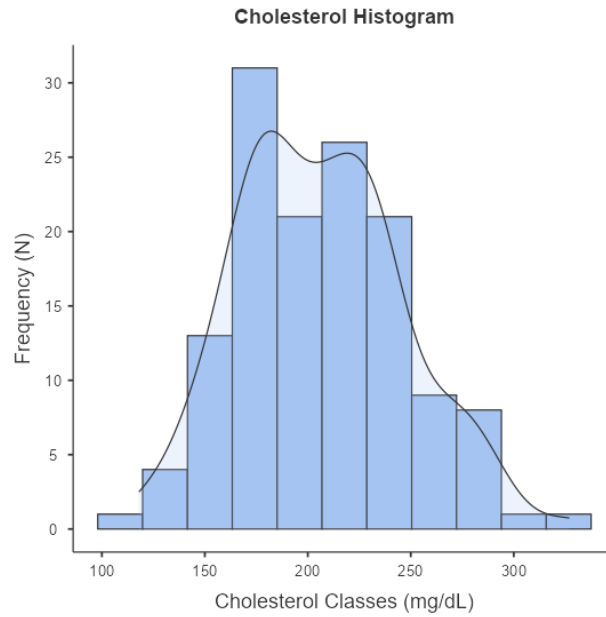


Figure 3. Cholesterol histogram

Example of interpretation: According to the graph, cholesterol

Box Plot

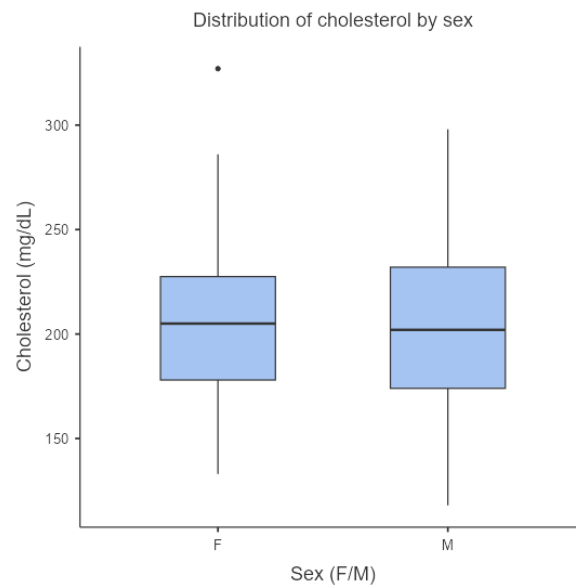


Figure 4. Distribution of cholesterol by sex

Example of interpretation: Cholesterol values were

Scatter Plot

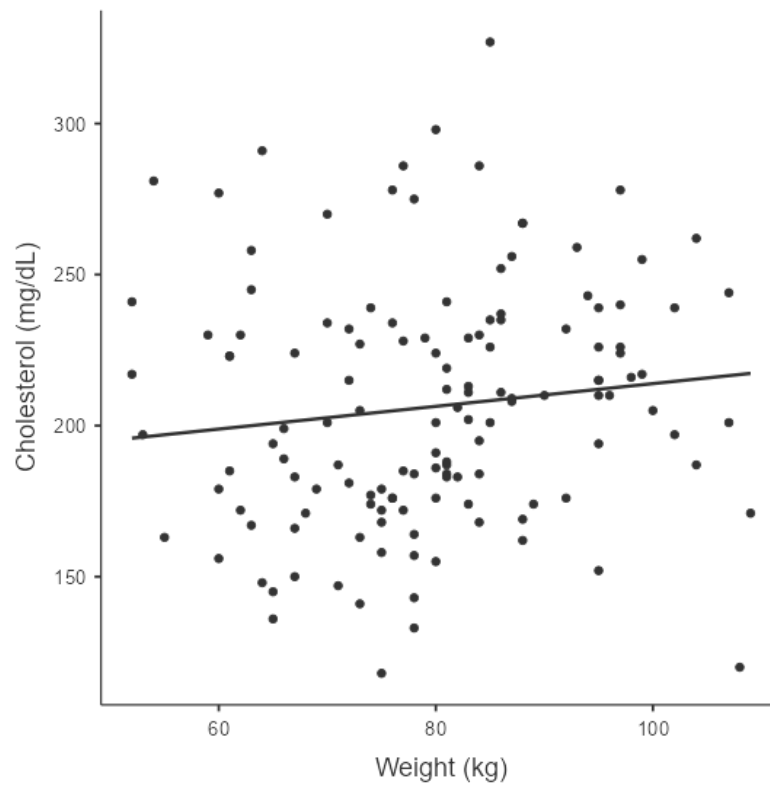


Figure 5. Relationship between weight and cholesterol