Description Univariante

| # 1 | loc | ici | <i>2</i> |
|-----|-----|-----|----------|
| | | | |
| | | | _/ |

Descriptiva univariante

Las cifras dadas en la tabla adjunta corresponden a miligramos de hidroxiprolina absorbidos por 1 miligramo de masa intestinal, analizados en distintos pacientes:

| hidroxiprolina (mg) | 77.3 | 61.2 | 82.4 | 75.9 | 61 | 70.2 | 65 | 80 |
|---------------------|------|------|------|------|----|------|----|----|
| número de pacientes | 3 | 10 | 15 | 13 | 8 | 5 | 2 | 0 |

- Se pide: a) Tabla de frecuencias con: frecuencias absolutas, relativas y ambas acumuladas.
- b) Media, mediana, moda v cuartiles.
- c) Varianza y desviación típica.
- d) Coeficiente de variación.
- e) Coeficiente de asimetría de Pearson.

Ni: Free. Abs. Acum.

fi: Freeveries Pelation.

(poporcions /porcertajs)

Fi: Freeveries Pelat. Acum.

(pop. /porcertajs).

| Salores 61 61.2 65 70.2 75.9 77.3 | 13 3 0 | | Ni 8 18 20 25 34 41 | , | fi% 4.3 3.9 3.9 23.2 5.4 | | 7:3 14.3 35.4 67.3 7.3 7.0 7.0 |
|---|--------------|---|---------------------------------------|---|---|---|--|
| 82. | 15 | | 56 | | 26.8 | 3 | 100 |
| Tota | 56 |) | | | | | |

61 61 61 61.2 ... 61.2 65 65 70.2...70.275.9....75.9 = 7.3

X = 1 = xj. nj jzi j. nj frec. absoluta mustal. valos frec. absoluta $= \frac{1}{56} \left(61 \times 8 + 61.2 \times 10 + 65 \times 2 + 70.2 \times 5 + 75.9 \times 13 + 77.3 \times 3 + 82.4 \times 15 \right)$ Datos Orderada. $\overline{X} = +2.06$ Mo = 82.4 Moda: Q1 (2506) Q2 (5080) Q3 (7506).

$$S^{2} = \frac{1}{n} \sum_{j=1}^{n} n_{j} \left(x_{j} - \overline{x}\right)^{2}.$$

$$*=\left(\frac{1}{n}\sum_{j=1}^{n}n_{j}x_{j}^{2}\right)-x^{2}$$

$$S^{2} = \frac{1}{56} \left(8.61^{2} + 10.61.2^{2} + 2.65^{2} + 5.30.2^{2} + 13.95.9^{2} + 3.37.3^{2} + 0.80^{2} + 15.82.4^{2} \right)$$

$$- \left(3.61^{2} + 10.61.2^{2} + 2.65^{2} + 5.30.2^{2} + 13.95.9^{2} + 3.37.3^{2} + 0.80^{2} + 15.82.4^{2} \right)$$

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$$- \left(3.61^{2} + 10.61.2^{2} + 2.65^{2} + 5.30.2^{2} + 13.95.3^{2} + 13.97.3^{2} + 13.$$

d) Coef. Variación $CV = \frac{S}{|X|} = \frac{8.3}{72.1} = 0.115 = 11.5\%$ CU 60°6. Ja relia & represtation e) Coeficiente Asinetra Peason. El conj. de dats

e) Curpulle 13
$$As = 3(x - Me) = 3(72.1 - 75.9)$$

$$= 3(-3.8) = -1.37$$

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Asimetra Negation

 $A_{S} = \frac{Q_{1} + Q_{3} - 2 Q_{2}}{Q_{3} - Q_{3}} = -0.37$ $A_{NegA} = \frac{Q_{1} + Q_{3} - 2 Q_{2}}{Q_{3} - Q_{3}} = -0.37$ Caef. Asinetra de Bouley.

-> Coof. As. Pearon. OD: Esta entre As. Negation $A_{S} < 0$ $-3 \ y \ 3.$ Sinétrico As =0 As. Positia. AS 20 - Coef. Asinetra de Donley As < 0 As. Negation Sinetrico As = 0 As. Positia. AS 20 050: Esta entre -1 y 1.