

	mucha Reacción	poca Reacción	Nada Reacción	Total
Paracetamol	23 15.60	5 10.22	25 27.17	53
Ibuprofeno	15 15.01	10 9.83	26 26.14	51
Ketorolaco	10 12.65	3 8.29	30 20.04	43
Naproxeno	10 14.72	20 9.64	20 25.63	50
Total	58	38	101	197 → N

31 0.05

H_0 = Dependiendo el medicamento es la reacción.

H_1 = No depende el medicamento para la reacción.

$$23 = \frac{53 \times 58 - 15.60}{197} \quad 5 = \frac{53 \times 38 - 10.22}{197} \quad 25 = \frac{53 \times 101 - 27.17}{197}$$

$$15 = \frac{51 \times 58 - 15.01}{197} \quad 10 = \frac{51 \times 38 - 9.83}{197} \quad 26 = \frac{51 \times 101 - 26.14}{197}$$

$$10 = \frac{43 \times 58 - 12.65}{197} \quad 3 = \frac{43 \times 38 - 8.29}{197} \quad 30 = \frac{43 \times 101 - 20.04}{197}$$

$$10 = \frac{50 \times 58 - 14.72}{197} \quad 20 = \frac{50 \times 38 - 9.64}{197} \quad 20 = \frac{50 \times 101 - 25.63}{197}$$

$$\chi^2 = \sum \frac{(O - E)^2}{E}$$

$$\frac{54.76}{(23 - 15.60)^2} + \frac{27.24}{(5 - 10.22)^2} + \frac{4.70}{(25 - 27.17)^2}$$

$$= 3.51 + 2.66 + 0.17 = 6.34$$

$$\frac{0.0001}{(15 - 15.01)^2} + \frac{0.02}{(10 - 9.83)^2} + \frac{0.01}{(26 - 26.14)^2}$$

$$= 6.66 + 0.002 + 0.0003 = 6.66$$

$$\frac{7.02}{12.65} \quad \frac{27.98}{8.29} \quad \frac{99.20}{20.04}$$

$$\frac{(10-12.65)^2}{12.65} + \frac{(3-8.29)^2}{8.29} + \frac{(30-20.04)^2}{20.04}$$

$$= 0.55 + 3.37 + 4.95 = 8.87$$

$$\frac{22.27}{14.72} \quad \frac{107.32}{9.64} \quad \frac{31.69}{25.63}$$

$$\frac{(10-14.72)^2}{14.72} + \frac{(20-9.64)^2}{9.64} + \frac{(20-25.63)^2}{25.63}$$

$$= 1.51 + 11.13 + 1.23 = 13.87$$

$$\chi^2 = 6.34 + 6.66 + 8.87 + 13.87 = 35.74$$

$$v = (C-1) \cdot (F-1)$$

$$v = (4-1) \cdot (3-1)$$

$$v = 3 \cdot 2$$

$$v = 6 + 0.05 = 6.05$$

$$T_{0.05} = 12.592$$