



## **Mi Universidad ejercicios**

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*Nombre del tema: Ejercicios*

*Parcial: tercero*

*Nombre de la Materia: investigación epidemiológica avanzada*

*Nombre del profesor: leyber bersain*

*Nombre de la Licenciatura: medicina humana*

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	Ca	CO	T	A) Calcular RR B) $CH^2$
E	80	420	500	$RR = A/LI = \frac{80/20}{20/400}$
$\bar{E}$	20	380	400	
T	100	800	900	$RR = 3.2$

$$X_{MH} = \frac{ad - bc}{\sqrt{\frac{a+b}{N-1} \frac{c+d}{N-1}}} = \frac{(80 \times 380) - (420 \times 20)}{\sqrt{\frac{(100)(800)(500)(400)}{900-1}}}$$

$$X_{MH} = \frac{22000}{4218.714} \quad X_{MH} = 5.21$$

$$K95\% = RR \cdot |Z| \cdot X_{MH}$$

$$1.96 = 3.2 \cdot 1.96 \cdot 5.21$$

$$= 3.2 \cdot 10.32$$

$$H_1 = 3.2^{1+0.32} = 3.2^{1.32} = 4.92$$

$$H_2 = 3.2^{1-0.32} = 3.2^{0.68} = 2.08$$

$$P_{AP} = A/MH (RR - 1/RR)$$

$$= 80/100 (3.2 - 1/3.2)$$

$$= 0.8 (0.68)$$

$$= 0.54 = 54\%$$

②

	Ca	Co	T	$RR = A/c1 =$
E	199	191	390	$\frac{199}{1410}$
$\bar{E}$	14	24	38	$RR = 1.38/$
T	213	215	428	

$$X_{MH} = \frac{ad-bc}{\sqrt{\frac{(a+b)(c+d)(a+c)(b+d)}{n-1}}} = \frac{(199)(24) - (191)(14)}{\sqrt{\frac{(213)(215)(390)(38)}{428-1}}}$$

$$X_{MH} = \frac{2102}{1260.721} \quad X_{MH} = 1.66$$

1095% =  $RR^{1 \pm z/X_{MH}}$

$$1.96 = 1.38^{1 \pm 1.96/1.66}$$

$$= 1.38^{1 \pm 1.18}$$

$$H_1 = 1.38^{1+1.18} = 1.38^{2.18} = 2.01$$

$$H_2 = 1.38^{1-1.18} = 1.38^{-0.18} = 0.94$$

$2ap = A/n_1 (RR - 1/RR)$

$$= 199/213 (1.38 - 1/1.38)$$

$$= 0.93 (0.27)$$

$$= 0.25 = 25\%$$

3)  $C_A \quad C_O$   $R_M = \frac{A \times D}{B \times C} = \frac{36 \times 46}{386 \times 2} = 2.5$   
 $E \quad 36 \quad 886$   
 $\bar{E} \quad 12 \quad 746$

$IC95 = \ln R_M = 1.96 \sqrt{\frac{1}{a} + \frac{1}{b} + \frac{1}{c} + \frac{1}{d}}$   
 $= \ln 2.5 \pm 1.96 \sqrt{\frac{1}{36} + \frac{1}{886} + \frac{1}{2} + \frac{1}{2}}$   
 $= 0.91 \pm 1.96 \sqrt{0.0278 + 0.0011 + 0.5 + 0.5}$   
 $= 0.91 \pm 1.96(1.03)$   
 $= 0.91 \pm 0.60$   
 $\chi_1 = 0.91 + 0.60 = 1.51$   
 $\chi_2 = 0.91 - 0.60 = 0.31$

4)  $C_A \quad C_O$   $R_M = \frac{A \times D}{B \times C} = \frac{20 \times 300}{300 \times 30} = 5.4$   
 $E \quad 70 \quad 300$   
 $\bar{E} \quad 30 \quad 700$

$IC95 = \ln R_M = 1.96 \sqrt{\frac{1}{a} + \frac{1}{b} + \frac{1}{c} + \frac{1}{d}}$   
 $= \ln 5.4 \pm 1.96 \sqrt{\frac{1}{70} + \frac{1}{300} + \frac{1}{30} + \frac{1}{700}}$   
 $= 1.68 \pm 1.96 \sqrt{0.0143 + 0.0033 + 0.0333 + 0.0014}$   
 $= 1.68 \pm 1.96(0.20)$   
 $= 1.68 \pm 0.39$   
 $\chi_1 = 1.68 + 0.39 = 2.07$   
 $\chi_2 = 1.68 - 0.39 = 1.29$