



Super nota

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Nombre del tema: EJERCICIOS.

Parcial: TERCERO.

Nombre de la Materia: INVESTIGACION EPIDEMIOLOGICA AVANZADA.

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Nombre de la Licenciatura: MEDICINA HUMANA.

Cuatrimestre: CUARTO.

Ejercicios:

①	Ca	Co	T	*RR = A/U	= 80/500
E	80	420	500 ^U	c/L0	20/400
E	20	380	400 ^{L0}		
T	100	800	900	RR = 3.2	

$$* X_{MH} = \frac{ad-bc}{\sqrt{\frac{MN(M+N)(C+D)}{N-1}}} = \frac{(80 \times 380) - (420 \times 20)}{\sqrt{\frac{(100)(800)(500)(400)}{900-1}}}$$

$$X_{MH} = \frac{22,000}{4,218.719}$$

$$X_{MH} = 5.21$$

* 1095% = RR^{±z/X_{MH}}

1.96 = 3.2 ^{±1.96/5.21}	1095%	
= 3.2 ^{±0.37}	2.08	4.92
H ₁ = 3.2 ^{+0.37} = 3.2 ^{1.37} = 4.92	RR1	RR2
H ₂ = 3.2 ^{-0.37} = 3.2 ^{0.63} = 2.08		

* K_{ap} = A/M₁(RR-1/RR)

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

$$= 0.8(0.68)$$

$$= 0.54 = 54\%$$

* P_{ocx} = (RR-1/RR)

$$= 3.2-1/3.2$$

$$= 0.68 = 68\%$$

②

	C_a	C_o	T	$*RR = A/11 = 199/390$
E	199	191	390	$c/10 = 14/38$
\bar{E}	14	24	38	
T	213	215	428	$RR = 1.38$

* $X_{MH} = \frac{ad - bc}{\sqrt{\frac{MN}{N-1} \cdot \frac{(213)(215)(390)(38)}{428-1}}}$

$X_{MH} = \frac{2,102}{1,260.721}$

$X_{MH} = 1.66$

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

$1.96 = 1.38^{\pm 1.96/1.66}$	1095%	0.94	2.01
$= 1.38^{\pm 1.18}$		RR_1	RR_2

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

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

* $R_{ap} = A/11 (RR - 1/RR)$

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

$= 0.93 (0.27)$

$= 0.25 = 25\%$

* $R_{aex} = (RR - 1/RR)$

$= 1.38 - 1/1.38$

$= 0.27 = 27\%$

③	Ca	Co	* $R_M = \frac{A \times D}{B \times C} = \frac{36 \times 746}{886 \times 12} = 2.5$
E	36	886	
\bar{E}	12	746	

$$\begin{aligned}
 * IC_{95} &= \ln R_M \pm 1.96 \sqrt{1/a + 1/b + 1/c + 1/d} \\
 &= \ln 2.5 \pm 1.96 \sqrt{1/36 + 1/886 + 1/12 + 1/746} \\
 &= 0.91 \pm 1.96 \sqrt{0.02 + 0.001 + 0.08 + 0.001} \\
 &= 0.91 \pm 1.96(0.31) \\
 &= 0.91 \pm 0.60 \\
 X_1 &= 0.91 + 0.60 = 1.51 \\
 X_2 &= 0.91 - 0.60 = 0.31
 \end{aligned}$$

④	Ca	Co	* $R_M = \frac{A \times D}{B \times C} = \frac{70 \times 700}{300 \times 30} = 5.4$
E	70	300	
\bar{E}	30	700	

$$\begin{aligned}
 * IC_{95} &= \ln R_M \pm 1.96 \sqrt{1/a + 1/b + 1/c + 1/d} \\
 &= \ln 5.4 \pm 1.96 \sqrt{1/70 + 1/300 + 1/30 + 1/700} \\
 &= 1.68 \pm 1.96 \sqrt{0.01 + 0.003 + 0.03 + 0.001} \\
 &= 1.68 \pm 1.96(0.20) \\
 &= 1.68 \pm 0.39 \\
 X_1 &= 1.68 + 0.39 = 2.07 \\
 X_2 &= 1.68 - 0.39 = 1.29
 \end{aligned}$$