

Teeth erosion

a case-control study carried out among swimmers to investigate the possible association between exposure to chlorinated swimming pool water and erosion of dental enamel. Among 49 swimmers with enamel erosion (the cases) 32 reported swimming six or more hours per week, compared with 118 of 245 swimmers without enamel erosion (the controls).

2x2

time	erosion	controls
> 6h	32	118
< 6h	17	127
Total	49	245

$$X^2 = \frac{(a + b)(c + d)}{(a + b)(c + d)}$$

H0... there is no correlation the associat

I will do the test of Chi2

X ²	4.802
X t	3.841

So we are rejected H0 so there is a correlation between chlorinated swimming pool and ero

$$\frac{N(ad - bc)^2}{a + c)(b + d)(c + d)}$$

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