

1 - Calculate the risk among bald

Incidence on 秃

$$\frac{775}{10,000} = 0,0775$$

2 - 11 11 11 hairy men?

$$\frac{190}{10,000} = 0,019$$

3 - Relative risk $= \frac{0,0775}{0,019}$

$= 3,947 \approx 4$

Bald men are 4 times at greater risk to develop CHD than hairy men

H - this result isn't enough to suggest that baldness is associated with CHD
So we should test multiple confounding variables associated with both, the exposure ((baldness)) and the disease ((CHD)). Confounding Variables

Could include Age, genetic, hormonal factors, Diabetes, medications used

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5 - Age could be the main associated cause for (CHD) and not balding itself which means that if we stratify the data according to age then Relative risk will get closer

to 1 ((if age was a true confounding factor))

6- Incidence of CHD in older men

$$= \frac{850}{8500} = 0,1$$

- Incidence of CHD in younger subjects

$$- 115$$

- n 1

$$\frac{11,500}{11,500} = 0, \text{UL}$$

CHD is age related because

0,1 > 0,61 ALOT

* Conclusion of it is Confounded by Age

7- baldness Proportion of older men?
= 7,500

8,500

- " " " Younger men?

= 2,500

11,500

Conclusion: there is association between
Age and balding.

One other confounding variable is population size

disease \downarrow \rightarrow Exposure \downarrow \rightarrow Association

Q - We Should Find the Relative rate
for each stratum :-

1 - Older Subject RR :-

$$= \frac{\frac{750}{7,500}}{\frac{100}{1,100}} = \frac{0,1}{0,1} = 1$$

1000

2- Younger subject RR:

$$\Rightarrow \frac{\frac{25}{2500}}{\frac{90}{9,000}} = \frac{0,01}{0,01} = 1$$

Stratification لا يختلف RR على كيف يُطبّع *

Conclusion of association between

baldness and CHD is clearly confounded
by the age

q - RR of CHD associated with balding
in older stratum equals 1

Conclusion: elimination of balding
will have no effect on CHD rates

10. \leftarrow SWI, r_{min}

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