CCInter

Jean Pierre Decrorps

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CCInter - Summary table for cohort study

CCInter produces 2 by 2 tables with stratum specific odds ratios, attributable risk among exposed and population attributable risk.

Displays a summary with the crude OR, the Mantel Haenszel adjusted OR and the result of a Woolf test for homogeneity.

Also computes additive interaction (biological interaction)

Function CCInter

```
data(Tiramitsu)
DF <- Tiramitsu
```

Recoding

```
DF <- DF %>%
  mutate(age = case_when(age < 30 ~ 0, age >= 30 ~ 1)) %>%
  rename(agegroup = age) %>%
  mutate(tportion = case_when(tportion == 0 ~ 0, tportion == 1 ~ 1, tportion >= 2 ~ 2)) %>%
  mutate(tportion = as.factor(tportion)) %>%
  as.data.frame()
```

CCInter ill / wmousse by tira

```
options(knitr.kable.NA = '')

res <- CCInter(DF, cases="ill", exposure = "wmousse", by = "tira")
kable(res$df1, align=res$df1.align, digits = res$df1.digits)
```

CCIinter ill / wmousse f(tira)	Cases	Controls	P.est.	Statistics	95%CI-ll	95%CI-ul
tira = 1			Odds ratio	1.45	0.52	4.22
Exposed	43	9	Attrib.risk.exp	0.31	-0.92	0.76
Unexposed	46	14	Attrib.risk.pop	0.15		
Total	89	23				
Exposed %	48.3%	39.1%				
tira = 0			Odds ratio	14.46	2.12	106.00
Exposed	4	13	Attrib.risk.exp	0.93	0.53	0.99
Unexposed	3	141	Attrib.risk.pop	0.53		
Total	7	154				
Exposed %	57.1%	8.4%				
Number of obs	273					
Missing	18					

```
kable(res$df2, digits = res$df2.digits)
```

P.estimate	Statistics	95%CI-ll	95%CI-ul
MH test of Homogeneity	0.013		
Crude OR for wmousse	6.758	3.57	12.93
MH OR wmousse adjusted for tira	2.254	1.01	5.05
Adjusted/crude relative change	-66.645		

CCInter ill / beer by tira

```
options(knitr.kable.NA = '')

res <- CCInter(DF, cases="ill", exposure = "beer", by = "tira")
kable(res$df1, align=res$df1.align, digits = res$df1.digits)
```

CCIinter ill / beer f(tira)	Cases	Controls	P.est.	Statistics	95%CI-ll	95%CI-ul
tira = 1			Odds ratio	0.37	0.14	0.99
Exposed	27	14	Prev. frac. ex.	0.63	0.01	0.86
Unexposed	63	12	Prev. frac. pop	0.34		
Total	90	26				
Exposed %	30.0%	53.8%				
tira = 0			Odds ratio	1.04	0.15	6.38
Exposed	3	60	Attrib.risk.exp	0.04	-5.82	0.84
Unexposed	4	83	Attrib.risk.pop	0.02		
Total	7	143				
Exposed %	42.9%	42.0%				
Number of obs	266					
Missing	25					

```
kable(res$df2, digits = res$df2.digits)
```

P.estimate	Statistics	95%CI-ll	95%CI-ul
MH test of Homogeneity	0.219		
Crude OR for beer	0.575	0.33	1.00
MH OR beer adjusted for tira	0.484	0.22	1.05
Adjusted/crude relative change	-15.827		