# CSInter

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*5 septembre 2017*

## Function CSInter

```
data(Tiramisu)
DF <- Tiramisu
```

### 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()
```

### CSINTER ill / beer by tira

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

res <- CSInter(DF, cases="ill", exposure = "wmousse", by = "tira")
```

| CSInter ill - wmousse by(tira) | Total | Cases | Risk % | P.est. | Stats | 95%CI-ll | 95%CI-ul |
|---|---|---|---|---|---|---|---|
| tira = 1 | 112 | NA | NA | Risk difference | 0.06 | -0.09 | 0.21 |
| Exposed | 52 | 43 | 82.69 | Risk Ratio | 1.08 | 0.89 | 1.30 |
| Unexposed | 60 | 46 | 76.67 | Attrib.risk.exp | 0.07 | -0.12 | 0.23 |
| | NA | NA | NA | Attrib.risk.pop | 0.04 | NA | NA |
| tira = 0 | 161 | NA | NA | Risk difference | 0.21 | 0.01 | 0.42 |
| Exposed | 17 | 4 | 23.53 | Risk Ratio | 11.29 | 2.76 | 46.26 |
| Unexposed | 144 | 3 | 2.08 | Attrib.risk.exp | 0.91 | 0.64 | 0.98 |
| | NA | NA | NA | Attrib.risk.pop | 0.52 | NA | NA |
| Missing / Missing % | 18 | 6.2% | NA | NA | NA | NA | NA |

| Point Estimate | Chi2 | p.value | Stats | 95%CI-ll | 95%CI-ul |
|---|---|---|---|---|---|
| Woolf test of homogeneity | 10.47 | 0.001 | NA | NA | NA |
| Crude RR for wmousse | NA | NA | 2.84 | 2.12 | 3.80 |
| MH RR wmousse adjusted for tira | NA | NA | 1.23 | 1.02 | 1.48 |
| Adjusted/crude relative change | NA | NA | -56.70 | NA | NA |