CCTable

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14 septembre 2017

CCTable

```
Univariate case control analysis for each exposure, results are
summarized into one table. One row, one exposure.

Result file contains: ordering number of exposure(id), name of variable
(exposure), total number of cases, number of exposed cases, percentage of
exposed among cases, number of controls, number of exposed controls,
percentage of exposed among controls, odds ratio, 95%CI interval, 95%
p-value.
```

Function CCTable

```
data(Tiramitsu)
DF <- Tiramitsu
#kable(str(DF))
```

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)) %>%
  as.data.frame()

Colnames <- DF %>% select(-ill, -dateonset, -uniquekey, -tportion, -mportion) %>% colnames()
Colnames
```

```
##  [1] "sex"         "agegroup"    "tira"        "wmousse"     "dmousse"
##  [6] "mousse"      "beer"        "redjelly"    "fruitsalad"  "tomato"
## [11] "mince"       "salmon"      "horseradish" "chickenwin"  "roastbeef"
## [16] "pork"
```

RAW result unordered

```
CCTable(DF,
        "ill",
        exposure = c("sex", "agegroup", "tira", "beer", "mousse", "wmousse", "dmousse", "redjelly",
                     "fruitsalad", "tomato", "mince", "salmon", "horseradish",
                     "chickenwin", "roastbeef", "pork"))
```

```
## $df
##             Tot.Cases Exposed        % Tot.Ctrls Exposed        %
## tira              101      94 93.06931       185      27 14.59459
```

```
## mousse            103      81 78.64078       186      42 22.58065
## wmousse            98      49 50.00000       179      23 12.84916
## dmousse           102      76 74.50980       185      37 20.00000
## redjelly          103      45 43.68932       188      34 18.08511
## fruitsalad        103      46 44.66019       188      25 13.29787
## beer               99      30 30.30303       172      76 44.18605
## tomato            103      35 33.98058       188      48 25.53191
## pork              102      48 47.05882       187      72 38.50267
## horseradish       102      30 29.41176       187      42 22.45989
## sex               103      50 48.54369       188     102 54.25532
## roastbeef         103       8  7.76699       188      21 11.17021
## chickenwin        103      33 32.03883       188      51 27.12766
## mince             103      32 31.06796       188      55 29.25532
## agegroup          100      25 25.00000       183      43 23.49727
## salmon            100      37 37.00000       187      67 35.82888
##              Odds Ratio   95%CI-ll    95%CI-ul p(Chi2)
## tira        78.5820106 31.4465414 217.1518943 0.00000
## mousse      12.6233766  6.7974944  23.6996942 0.00000
## wmousse      6.7826087  3.6162170  12.8298549 0.00000
## dmousse     11.6923077  6.3575442  21.6359361 0.00000
## redjelly     3.5141988  1.9800776   6.2394736 0.00000
## fruitsalad   5.2617544  2.8587304   9.7506517 0.00000
## beer         0.5491991  0.3127957   0.9547369 0.02413
## tomato       1.5012255  0.8569694   2.6123712 0.12692
## pork         1.4197531  0.8455623   2.3790626 0.15835
## horseradish  1.4384921  0.7981125   2.5695856 0.19162
## sex          0.7954125  0.4776452   1.3245320 0.35094
## roastbeef    0.6696742  0.2468933   1.6516798 0.35403
## chickenwin   1.2663866  0.7215739   2.2043032 0.37664
## mince        1.0898848  0.6218378   1.8925259 0.74671
## agegroup     1.0852713  0.5868077   1.9783508 0.77731
## salmon       1.0518834  0.6136467   1.7917610 0.84409
##
## $digits
##  [1] 0 0 1 0 0 1 2 2 2 3
##
## $align
## [1] "ccrccrrrrr"
##
## attr(,"class")
## [1] "EPI_CCTable"
```

Formated result ordered by Odds Ratio

```
res = CCTable(DF,
        "ill",
        sort = "or",
        exposure = Colnames)
kable(res$df, digits=res$digits)
```

	Tot.Cases	Exposed	%	Tot.Ctrls	Exposed	%	Odds Ratio	95%CI-ll	95%CI-ul	p(Chi2)
tira	101	94	93.1	185	27	14.6	78.58	31.45	217.15	0.000
mousse	103	81	78.6	186	42	22.6	12.62	6.80	23.70	0.000
dmousse	102	76	74.5	185	37	20.0	11.69	6.36	21.64	0.000
wmousse	98	49	50.0	179	23	12.8	6.78	3.62	12.83	0.000
fruitsalad	103	46	44.7	188	25	13.3	5.26	2.86	9.75	0.000
redjelly	103	45	43.7	188	34	18.1	3.51	1.98	6.24	0.000
tomato	103	35	34.0	188	48	25.5	1.50	0.86	2.61	0.127
horseradish	102	30	29.4	187	42	22.5	1.44	0.80	2.57	0.192
pork	102	48	47.1	187	72	38.5	1.42	0.85	2.38	0.158
chickenwin	103	33	32.0	188	51	27.1	1.27	0.72	2.20	0.377
mince	103	32	31.1	188	55	29.3	1.09	0.62	1.89	0.747
agegroup	100	25	25.0	183	43	23.5	1.09	0.59	1.98	0.777
salmon	100	37	37.0	187	67	35.8	1.05	0.61	1.79	0.844
sex	103	50	48.5	188	102	54.3	0.80	0.48	1.32	0.351
roastbeef	103	8	7.8	188	21	11.2	0.67	0.25	1.65	0.354
beer	99	30	30.3	172	76	44.2	0.55	0.31	0.95	0.024

Formated result ordered by p.value from Fisher test.

```
res = CCTable(DF,
        "ill",
        exact = TRUE,
        exposure = Colnames)
kable(res$df, digits=res$digits)
```

	Tot.Cases	Exposed	%	Tot.Ctrls	Exposed	%	Odds Ratio	95%CI-ll	95%CI-ul	p(Fisher)
tira	101	94	93.1	185	27	14.6	78.58	31.45	217.15	0.000
wmousse	98	49	50.0	179	23	12.8	6.78	3.62	12.83	0.000
dmousse	102	76	74.5	185	37	20.0	11.69	6.36	21.64	0.000
mousse	103	81	78.6	186	42	22.6	12.62	6.80	23.70	0.000
redjelly	103	45	43.7	188	34	18.1	3.51	1.98	6.24	0.000
fruitsalad	103	46	44.7	188	25	13.3	5.26	2.86	9.75	0.000
beer	99	30	30.3	172	76	44.2	0.55	0.31	0.95	0.028
tomato	103	35	34.0	188	48	25.5	1.50	0.86	2.61	0.137
pork	102	48	47.1	187	72	38.5	1.42	0.85	2.38	0.171
horseradish	102	30	29.4	187	42	22.5	1.44	0.80	2.57	0.203
sex	103	50	48.5	188	102	54.3	0.80	0.48	1.32	0.391
roastbeef	103	8	7.8	188	21	11.2	0.67	0.25	1.65	0.417
chickenwin	103	33	32.0	188	51	27.1	1.27	0.72	2.20	0.418
agegroup	100	25	25.0	183	43	23.5	1.09	0.59	1.98	0.773
mince	103	32	31.1	188	55	29.3	1.09	0.62	1.89	0.789
salmon	100	37	37.0	187	67	35.8	1.05	0.61	1.79	0.898