Cochrane

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Vars

```
PATH_HOME = path.expand("~") # user home
PATH = file.path(PATH_HOME, 'thesis/cochrane')
```

Read data

```
source(file.path(PATH, 'prepare.R'))
```

Inspect data frame

```
str(madata)
```

```
## 'data.frame':    463820 obs. of  25 variables:
##  $ file.nr        : int  1 1 1 1 1 1 1 1 1 1 ...
##  $ file.name      : chr  "MYdwnld_CD000004StatsDataOnly_Version2.csv" "MYdwnld_CD000004StatsDataOnly_
##  $ doi            : chr  "10.1002/14651858.CD000004.pub2" "10.1002/14651858.CD000004.pub2" "10.1002/1
##  $ file.index     : int  4 4 4 4 4 4 4 4 4 4 ...
##  $ file.version   : int  2 2 2 2 2 2 2 2 2 2 ...
##  $ comparison.nr  : int  1 1 1 1 1 1 1 1 1 1 ...
##  $ comparison.name: chr  "Abdominal decompression for suspected fetal compromise/pre-eclampsia" "Abd
##  $ outcome.nr     : int  1 2 2 3 4 5 5 6 7 7 ...
##  $ outcome.name   : chr  "Unchanged or worsening pre-eclampsia" "Induction of labour (all indications
##  $ outcome.measure: chr  "Risk Ratio" "Risk Ratio" "Risk Ratio" "Risk Ratio" ...
##  $ subgroup.nr    : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ subgroup.name  : chr  "" "" "" "" ...
##  $ study.name     : chr  "Blecher 1967" "Blecher 1967" "Varma 1973" "Varma 1973" ...
##  $ study.year     : int  1967 1967 1973 1973 1973 1967 1973 1973 1967 1971 ...
##  $ effect         : num  0.362 1.136 0.881 0.741 0.37 ...
##  $ se             : num  0.353 0.246 0.149 0.242 0.329 ...
##  $ events1        : int  8 25 37 20 10 40 18 7 10 1 ...
##  $ total1         : int  42 80 70 70 70 84 70 70 84 28 ...
##  $ mean1          : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ sd1            : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ events2        : int  20 22 42 27 27 55 58 27 24 2 ...
##  $ total2         : int  38 80 70 70 70 80 70 70 87 28 ...
##  $ mean2          : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ sd2            : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ N              : int  NA NA NA NA NA NA NA NA NA NA ...
```

```
names(madata)
```

```
##  [1] "file.nr"         "file.name"       "doi"
##  [4] "file.index"      "file.version"    "comparison.nr"
##  [7] "comparison.name" "outcome.nr"      "outcome.name"
## [10] "outcome.measure" "subgroup.nr"     "subgroup.name"
## [13] "study.name"      "study.year"      "effect"
## [16] "se"              "events1"         "total1"
## [19] "mean1"           "sd1"             "events2"
## [22] "total2"          "mean2"           "sd2"
## [25] "N"
```

Inspect single study

https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD012713.pub2/full

```
madata[madata$file.nr==6242, ]
```

```
##        file.nr                               file.name
## 463256    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463257    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463258    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463259    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463260    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463261    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463262    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463263    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463264    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463265    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463266    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463267    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463268    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463269    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463270    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463271    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463272    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463273    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463274    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463275    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463276    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463277    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463278    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463279    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463280    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463281    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463282    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463283    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463284    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
## 463285    6242 MYdwnld_CD012713StatsDataOnly_Version2.csv
##                                doi file.index file.version
## 463256 10.1002/14651858.CD012713.pub2      12713            2
## 463257 10.1002/14651858.CD012713.pub2      12713            2
## 463258 10.1002/14651858.CD012713.pub2      12713            2
## 463259 10.1002/14651858.CD012713.pub2      12713            2
## 463260 10.1002/14651858.CD012713.pub2      12713            2
```

```
## 463261 10.1002/14651858.CD012713.pub2         12713              2
## 463262 10.1002/14651858.CD012713.pub2         12713              2
## 463263 10.1002/14651858.CD012713.pub2         12713              2
## 463264 10.1002/14651858.CD012713.pub2         12713              2
## 463265 10.1002/14651858.CD012713.pub2         12713              2
## 463266 10.1002/14651858.CD012713.pub2         12713              2
## 463267 10.1002/14651858.CD012713.pub2         12713              2
## 463268 10.1002/14651858.CD012713.pub2         12713              2
## 463269 10.1002/14651858.CD012713.pub2         12713              2
## 463270 10.1002/14651858.CD012713.pub2         12713              2
## 463271 10.1002/14651858.CD012713.pub2         12713              2
## 463272 10.1002/14651858.CD012713.pub2         12713              2
## 463273 10.1002/14651858.CD012713.pub2         12713              2
## 463274 10.1002/14651858.CD012713.pub2         12713              2
## 463275 10.1002/14651858.CD012713.pub2         12713              2
## 463276 10.1002/14651858.CD012713.pub2         12713              2
## 463277 10.1002/14651858.CD012713.pub2         12713              2
## 463278 10.1002/14651858.CD012713.pub2         12713              2
## 463279 10.1002/14651858.CD012713.pub2         12713              2
## 463280 10.1002/14651858.CD012713.pub2         12713              2
## 463281 10.1002/14651858.CD012713.pub2         12713              2
## 463282 10.1002/14651858.CD012713.pub2         12713              2
## 463283 10.1002/14651858.CD012713.pub2         12713              2
## 463284 10.1002/14651858.CD012713.pub2         12713              2
## 463285 10.1002/14651858.CD012713.pub2         12713              2
##        comparison.nr
## 463256             1
## 463257             1
## 463258             1
## 463259             1
## 463260             1
## 463261             1
## 463262             1
## 463263             1
## 463264             1
## 463265             1
## 463266             2
## 463267             3
## 463268             3
## 463269             3
## 463270             3
## 463271             3
## 463272             3
## 463273             3
## 463274             3
## 463275             3
## 463276             3
## 463277             3
## 463278             3
## 463279             3
## 463280             3
## 463281             4
## 463282             4
## 463283             4
```

```
## 463284                4
## 463285                4
##                                                                    comparison.name
## 463256                                             Ribavirin versus no ribavirin
## 463257                                             Ribavirin versus no ribavirin
## 463258                                             Ribavirin versus no ribavirin
## 463259                                             Ribavirin versus no ribavirin
## 463260                                             Ribavirin versus no ribavirin
## 463261                                             Ribavirin versus no ribavirin
## 463262                                             Ribavirin versus no ribavirin
## 463263                                             Ribavirin versus no ribavirin
## 463264                                             Ribavirin versus no ribavirin
## 463265                                             Ribavirin versus no ribavirin
## 463266                           Early versus late supportive care with ribavirin
## 463267            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463268            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463269            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463270            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463271            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463272            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463273            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463274            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463275            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463276            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463277            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463278            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463279            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463280            Subsidiary descriptive analysis - Ribavirin versus no ribavirin
## 463281 Subsidiary descriptive analysis: early versus late supportive care with ribavirin
## 463282 Subsidiary descriptive analysis: early versus late supportive care with ribavirin
## 463283 Subsidiary descriptive analysis: early versus late supportive care with ribavirin
## 463284 Subsidiary descriptive analysis: early versus late supportive care with ribavirin
## 463285 Subsidiary descriptive analysis: early versus late supportive care with ribavirin
##          outcome.nr
## 463256            1
## 463257            1
## 463258            1
## 463259            1
## 463260            2
## 463261            2
## 463262            2
## 463263            3
## 463264            3
## 463265            4
## 463266            1
## 463267            1
## 463268            1
## 463269            1
## 463270            1
## 463271            1
## 463272            1
## 463273            1
## 463274            1
## 463275            1
```

```
## 463276            1
## 463277            1
## 463278            1
## 463279            1
## 463280            1
## 463281            1
## 463282            1
## 463283            1
## 463284            1
## 463285            1
##                                                          outcome.name
## 463256                                                       Mortality
## 463257                                                       Mortality
## 463258                                                       Mortality
## 463259                                                       Mortality
## 463260 Mortality stratified by severity of disease (Dokuzoguz 2013)
## 463261 Mortality stratified by severity of disease (Dokuzoguz 2013)
## 463262 Mortality stratified by severity of disease (Dokuzoguz 2013)
## 463263                              Length of hospital stay (days)
## 463264                              Length of hospital stay (days)
## 463265                    Requirement for transfusion (platelets)
## 463266                                                       Mortality
## 463267                              Mortality stratified study type
## 463268                              Mortality stratified study type
## 463269                              Mortality stratified study type
## 463270                              Mortality stratified study type
## 463271                              Mortality stratified study type
## 463272                              Mortality stratified study type
## 463273                              Mortality stratified study type
## 463274                              Mortality stratified study type
## 463275                              Mortality stratified study type
## 463276                              Mortality stratified study type
## 463277                              Mortality stratified study type
## 463278                              Mortality stratified study type
## 463279                              Mortality stratified study type
## 463280                              Mortality stratified study type
## 463281                           Mortality stratified by study type
## 463282                           Mortality stratified by study type
## 463283                           Mortality stratified by study type
## 463284                           Mortality stratified by study type
## 463285                           Mortality stratified by study type
##          outcome.measure subgroup.nr
## 463256        Risk Ratio           1
## 463257        Risk Ratio           2
## 463258        Risk Ratio           2
## 463259        Risk Ratio           2
## 463260        Risk Ratio           0
## 463261        Risk Ratio           0
## 463262        Risk Ratio           0
## 463263   Mean Difference           1
## 463264   Mean Difference           2
## 463265        Risk Ratio           0
## 463266        Risk Ratio           0
## 463267        Risk Ratio           1
```

```
## 463268         Risk Ratio         2
## 463269         Risk Ratio         2
## 463270         Risk Ratio         2
## 463271         Risk Ratio         3
## 463272         Risk Ratio         3
## 463273         Risk Ratio         3
## 463274         Risk Ratio         3
## 463275         Risk Ratio         3
## 463276         Risk Ratio         3
## 463277         Risk Ratio         3
## 463278         Risk Ratio         3
## 463279         Risk Ratio         3
## 463280         Risk Ratio         3
## 463281         Risk Ratio         1
## 463282         Risk Ratio         2
## 463283         Risk Ratio         2
## 463284         Risk Ratio         2
## 463285         Risk Ratio         2
##                                               subgroup.name            study.name
## 463256                                                  RCT           Koksal 2010
## 463257                                Non-randomized studies           Bodur 2011
## 463258                                Non-randomized studies       Dokuzoguz 2013
## 463259                                Non-randomized studies          Elaldi 2009
## 463260                                                              Dokuzoguz 2013
## 463261                                                              Dokuzoguz 2013
## 463262                                                              Dokuzoguz 2013
## 463263                                                  RCT           Koksal 2010
## 463264                                Non-randomized studies           Bodur 2011
## 463265                                                                 Koksal 2010
## 463266                                                                 Izadi 2009a
## 463267                                                  RCT           Koksal 2010
## 463268  Non-randomized studies (serious risk of bias)           Bodur 2011
## 463269  Non-randomized studies (serious risk of bias)       Dokuzoguz 2013
## 463270  Non-randomized studies (serious risk of bias)          Elaldi 2009
## 463271 Non-randomized studies (critical risk of bias)      Alavi-Nani 2006
## 463272 Non-randomized studies (critical risk of bias)           Belet 2014
## 463273 Non-randomized studies (critical risk of bias)           Cevik 2008
## 463274 Non-randomized studies (critical risk of bias)         Ergonul 2006
## 463275 Non-randomized studies (critical risk of bias)        Ertugrul 2009
## 463276 Non-randomized studies (critical risk of bias)          Ozkurt 2006
## 463277 Non-randomized studies (critical risk of bias)       Sannikova 2009
## 463278 Non-randomized studies (critical risk of bias) Tasdelen Fisgin 2009
## 463279 Non-randomized studies (critical risk of bias)           Tulek 2012
## 463280 Non-randomized studies (critical risk of bias)          Tuygun 2012
## 463281                            Serious risk of bias          Izadi 2009a
## 463282                           Critical risk of bias     Sharifi-Mood 2006
## 463283                           Critical risk of bias    Sharifi-Mood 2013a
## 463284                           Critical risk of bias  Tasdelen Fisgin 2009
## 463285                           Critical risk of bias         Metanat 2005
##         study.year      effect         se events1 total1 mean1 sd1 events2
## 463256        2010  1.12500000 0.6859199       4     64   0.0 0.0       4
## 463257        2011  1.33333333 0.7359801       2     10   0.0 0.0       6
## 463258        2013  0.70468085 0.4791254      18    235   0.0 0.0       5
## 463259        2010  0.59740260 0.4280352       9    126   0.0 0.0      11
```

```
## 463260       2013  0.00000000 0.0000000        0    77  0.0 0.0        0
## 463261       2013  0.08955224 0.8776760        2   134  0.0 0.0        3
## 463262       2013  0.79200000 0.2954196       16    24  0.0 0.0        2
## 463263       2010  0.70000000 0.5580379        0    64  7.0 2.9        0
## 463264       2011 -0.80000000 0.9696649        0    10  6.6 2.8        0
## 463265       2010  1.22727273 0.2400153       24    64  0.0 0.0       22
## 463266       2009  0.39473684 0.4476057        6    38  0.0 0.0       10
## 463267       2010  1.12500000 0.6859199        4    64  0.0 0.0        4
## 463268       2011  1.33333333 0.7359801        2    10  0.0 0.0        6
## 463269       2013  0.70468085 0.4791254       18   235  0.0 0.0        5
## 463270       2010  0.59740260 0.4280352        9   126  0.0 0.0       11
## 463271       2006  0.24823446 0.2312823       37   236  0.0 0.0       12
## 463272       2014  1.20000000 1.6059784        1    39  0.0 0.0        0
## 463273       2008  1.26984127 0.4113952        5     9  0.0 0.0        7
## 463274       2006  0.34848485 1.1155270        1    22  0.0 0.0        3
## 463275       2009  1.66666667 1.5846486        1    17  0.0 0.0        0
## 463276       2006  0.86363636 0.8235470        2    22  0.0 0.0        4
## 463277       2009  0.11784512 0.5427935        4   264  0.0 0.0       18
## 463278       2009  0.26829268 0.7425411        3    41  0.0 0.0        3
## 463279       2012  0.20879121 1.0523460        1    91  0.0 0.0        8
## 463280       2012  3.50000000 1.6091258        1    23  0.0 0.0        0
## 463281       2009  0.39473684 0.4476057        6    38  0.0 0.0       10
## 463282       2006  0.32000000 0.8426150        4    25  0.0 0.0        1
## 463283       2013  0.62265918 0.3022134       14    89  0.0 0.0       24
## 463284       2009  0.47619048 1.1842217        1    21  0.0 0.0        2
## 463285       2005  0.57084608 0.3075639       16   109  0.0 0.0       18
##         total2 mean2 sd2  N
## 463256     72   0.0 0.0 NA
## 463257     40   0.0 0.0 NA
## 463258     46   0.0 0.0 NA
## 463259     92   0.0 0.0 NA
## 463260     26   0.0 0.0 NA
## 463261     18   0.0 0.0 NA
## 463262      2   0.0 0.0 NA
## 463263     72   6.3 3.6 NA
## 463264     40   7.4 2.5 NA
## 463265     72   0.0 0.0 NA
## 463266     25   0.0 0.0 NA
## 463267     72   0.0 0.0 NA
## 463268     40   0.0 0.0 NA
## 463269     46   0.0 0.0 NA
## 463270     92   0.0 0.0 NA
## 463271     19   0.0 0.0 NA
## 463272     15   0.0 0.0 NA
## 463273     16   0.0 0.0 NA
## 463274     23   0.0 0.0 NA
## 463275      9   0.0 0.0 NA
## 463276     38   0.0 0.0 NA
## 463277    140   0.0 0.0 NA
## 463278     11   0.0 0.0 NA
## 463279    152   0.0 0.0 NA
## 463280     27   0.0 0.0 NA
## 463281     25   0.0 0.0 NA
## 463282      2   0.0 0.0 NA
```

```
## 463283       95   0.0 0.0 NA
## 463284       20   0.0 0.0 NA
## 463285       70   0.0 0.0 NA
```

```
# check first entry, corresponding to first Cochrane review:
madata[madata$file.nr==1, ]
```

```
##    file.nr                                   file.name
## 1        1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 2        1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 3        1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 4        1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 5        1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 6        1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 7        1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 8        1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 9        1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 10       1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 11       1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 12       1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 13       1 MYdwnld_CD000004StatsDataOnly_Version2.csv
## 14       1 MYdwnld_CD000004StatsDataOnly_Version2.csv
##                            doi file.index file.version comparison.nr
## 1  10.1002/14651858.CD000004.pub2          4            2             1
## 2  10.1002/14651858.CD000004.pub2          4            2             1
## 3  10.1002/14651858.CD000004.pub2          4            2             1
## 4  10.1002/14651858.CD000004.pub2          4            2             1
## 5  10.1002/14651858.CD000004.pub2          4            2             1
## 6  10.1002/14651858.CD000004.pub2          4            2             1
## 7  10.1002/14651858.CD000004.pub2          4            2             1
## 8  10.1002/14651858.CD000004.pub2          4            2             1
## 9  10.1002/14651858.CD000004.pub2          4            2             1
## 10 10.1002/14651858.CD000004.pub2          4            2             1
## 11 10.1002/14651858.CD000004.pub2          4            2             1
## 12 10.1002/14651858.CD000004.pub2          4            2             1
## 13 10.1002/14651858.CD000004.pub2          4            2             1
## 14 10.1002/14651858.CD000004.pub2          4            2             1
##                                                       comparison.name
## 1  Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 2  Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 3  Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 4  Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 5  Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 6  Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 7  Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 8  Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 9  Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 10 Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 11 Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 12 Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 13 Abdominal decompression for suspected fetal compromise/pre-eclampsia
## 14 Abdominal decompression for suspected fetal compromise/pre-eclampsia
##    outcome.nr                                 outcome.name
## 1           1           Unchanged or worsening pre-eclampsia
## 2           2              Induction of labour (all indications)
```

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```
## 3            2          Induction of labour (all indications)
## 4            3          Induction for placental insufficiency
## 5            4                       Fetal distress in labour
## 6            5                                 Low birthweight
## 7            5                                 Low birthweight
## 8            6                        Apgar score <6 at 1 minute
## 9            7                             Perinatal mortality
## 10           7                             Perinatal mortality
## 11           7                             Perinatal mortality
## 12           8          Urinary oestriol increase mg per week
## 13           9 Fetal biparietal diameter increase mm per week
## 14          10                                    Birthweight
##    outcome.measure subgroup.nr subgroup.name   study.name study.year
## 1       Risk Ratio           0                Blecher 1967       1967
## 2       Risk Ratio           0                Blecher 1967       1967
## 3       Risk Ratio           0                  Varma 1973       1973
## 4       Risk Ratio           0                  Varma 1973       1973
## 5       Risk Ratio           0                  Varma 1973       1973
## 6       Risk Ratio           0                Blecher 1967       1967
## 7       Risk Ratio           0                  Varma 1973       1973
## 8       Risk Ratio           0                  Varma 1973       1973
## 9       Risk Ratio           0                Blecher 1967       1967
## 10      Risk Ratio           0                 MacRae 1971       1971
## 11      Risk Ratio           0                  Varma 1973       1973
## 12 Mean Difference           0                  Varma 1973       1973
## 13 Mean Difference           0                  Varma 1973       1973
## 14 Mean Difference           0                 MacRae 1971       1971
##         effect          se events1 total1 mean1    sd1 events2 total2
## 1    0.3619048   0.3533761       8     42  0.00   0.00      20     38
## 2    1.1363636   0.2458751      25     80  0.00   0.00      22     80
## 3    0.8809524   0.1492150      37     70  0.00   0.00      42     70
## 4    0.7407407   0.2417966      20     70  0.00   0.00      27     70
## 5    0.3703704   0.3293412      10     70  0.00   0.00      27     70
## 6    0.6926407   0.1370294      40     84  0.00   0.00      55     80
## 7    0.3103448   0.2102986      18     70  0.00   0.00      58     70
## 8    0.2592593   0.3890022       7     70  0.00   0.00      27     70
## 9    0.4315476   0.3439006      10     84  0.00   0.00      24     87
## 10   0.5000000   1.1952286       1     28  0.00   0.00       2     28
## 11   0.2500000   0.7722879       2     70  0.00   0.00       8     70
## 12   0.7700000   0.1695245       0     70  1.68   1.21       0     70
## 13   0.5900000   0.0951465       0     70  2.08   0.36       0     70
## 14 504.0000000 131.1728685       0     28    NA 591.00       0     28
##    mean2  sd2  N
## 1   0.00 0.00 NA
## 2   0.00 0.00 NA
## 3   0.00 0.00 NA
## 4   0.00 0.00 NA
## 5   0.00 0.00 NA
## 6   0.00 0.00 NA
## 7   0.00 0.00 NA
## 8   0.00 0.00 NA
## 9   0.00 0.00 NA
## 10  0.00 0.00 NA
## 11  0.00 0.00 NA
```

```
## 12  0.91   0.74 NA
## 13  1.49   0.71 NA
## 14    NA 364.00 NA
```

```r
# example: show Richer-et-al review's data
# (see http://doi.org/10.1002/14651858.CD005220.pub2):
madata[madata$file.name=="MYdwnld_CD005220StatsDataOnly_Version2.csv", c(2,5,7,10,12)]
```

```
##                                     file.name file.version
## 227388 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227389 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227390 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227391 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227392 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227393 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227394 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227395 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227396 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227397 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227398 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227399 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227400 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227401 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227402 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227403 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227404 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
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## 227409 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
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## 227411 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227412 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
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## 227419 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227420 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227421 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
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## 227430 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227431 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
## 227432 MYdwnld_CD005220StatsDataOnly_Version2.csv            2
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## 227434 MYdwnld_CD005220StatsDataOnly_Version2.csv                2
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## 227691 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227692 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227693 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227694 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227695 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227696 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227697 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227698 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227699 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227700 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227701 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227702 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227703 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
```

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## 227704 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227705 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227706 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227707 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227708 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227709 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227710 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227711 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227712 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227713 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227714 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227715 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227716 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227717 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227718 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227719 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227720 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227721 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227722 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227723 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
## 227724 MYdwnld_CD005220StatsDataOnly_Version2.csv          2
##                                                   comparison.name
## 227388                        Ibuprofen vs placebo in children
## 227389                        Ibuprofen vs placebo in children
## 227390                        Ibuprofen vs placebo in children
## 227391                        Ibuprofen vs placebo in children
## 227392                        Ibuprofen vs placebo in children
## 227393                        Ibuprofen vs placebo in children
## 227394                        Ibuprofen vs placebo in children
## 227395                        Ibuprofen vs placebo in children
## 227396                         Triptans vs placebo in children
## 227397                         Triptans vs placebo in children
## 227398                         Triptans vs placebo in children
## 227399                         Triptans vs placebo in children
## 227400                         Triptans vs placebo in children
## 227401                         Triptans vs placebo in children
## 227402                         Triptans vs placebo in children
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## 227410                         Triptans vs placebo in children
## 227411                         Triptans vs placebo in children
## 227412                         Triptans vs placebo in children
## 227413                         Triptans vs placebo in children
## 227414                      Triptans vs placebo in adolescents
## 227415                      Triptans vs placebo in adolescents
## 227416                      Triptans vs placebo in adolescents
## 227417                      Triptans vs placebo in adolescents
## 227418                      Triptans vs placebo in adolescents
## 227419                      Triptans vs placebo in adolescents
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## 227420                         Triptans vs placebo in adolescents
## 227421                         Triptans vs placebo in adolescents
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## 227445                         Triptans vs placebo in adolescents
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## 227459                         Triptans vs placebo in adolescents
## 227460                         Triptans vs placebo in adolescents
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## 227471                         Triptans vs placebo in adolescents
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## 227473                         Triptans vs placebo in adolescents
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## 227510                              Triptans vs placebo in adolescents
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## 227512                              Triptans vs placebo in adolescents
## 227513                              Triptans vs placebo in adolescents
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## 227528                       Triptans vs placebo in adolescents
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## 227537                       Triptans vs placebo in adolescents
## 227538                       Triptans vs placebo in adolescents
## 227539                       Triptans vs placebo in adolescents
## 227540    Triptans vs placebo in adolescents, subgroup analysis
## 227541    Triptans vs placebo in adolescents, subgroup analysis
## 227542    Triptans vs placebo in adolescents, subgroup analysis
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## 227544    Triptans vs placebo in adolescents, subgroup analysis
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## 227559    Triptans vs placebo in adolescents, subgroup analysis
## 227560    Triptans vs placebo in adolescents, subgroup analysis
## 227561    Triptans vs placebo in adolescents, subgroup analysis
## 227562    Triptans vs placebo in adolescents, subgroup analysis
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## 227580    Triptans vs placebo in adolescents, subgroup analysis
## 227581    Triptans vs placebo in adolescents, subgroup analysis
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## 227582    Triptans vs placebo in adolescents, subgroup analysis
## 227583    Triptans vs placebo in adolescents, subgroup analysis
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## 227593    Triptans vs placebo in adolescents, subgroup analysis
## 227594    Triptans vs placebo in adolescents, subgroup analysis
## 227595    Triptans vs placebo in adolescents, subgroup analysis
## 227596         Triptans vs placebo by age, subgroup analysis
## 227597         Triptans vs placebo by age, subgroup analysis
## 227598         Triptans vs placebo by age, subgroup analysis
## 227599         Triptans vs placebo by age, subgroup analysis
## 227600         Triptans vs placebo by age, subgroup analysis
## 227601         Triptans vs placebo by age, subgroup analysis
## 227602         Triptans vs placebo by age, subgroup analysis
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## 227618         Triptans vs placebo by age, subgroup analysis
## 227619         Triptans vs placebo by age, subgroup analysis
## 227620 Triptans vs placebo in adolescents, sensitivity analysis
## 227621 Triptans vs placebo in adolescents, sensitivity analysis
## 227622 Triptans vs placebo in adolescents, sensitivity analysis
## 227623 Triptans vs placebo in adolescents, sensitivity analysis
## 227624 Triptans vs placebo in adolescents, sensitivity analysis
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## 227636 Triptans vs placebo in adolescents, sensitivity analysis
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## 227660 Triptans vs placebo in adolescents, sensitivity analysis
## 227661 Triptans vs placebo in adolescents, sensitivity analysis
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## 227688 Triptans vs placebo in adolescents, sensitivity analysis
## 227689 Triptans vs placebo in adolescents, sensitivity analysis
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## 227690 Triptans vs placebo in adolescents, sensitivity analysis
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## 227706 Triptans vs placebo in adolescents, sensitivity analysis
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## 227721 Triptans vs placebo in adolescents, sensitivity analysis
## 227722 Triptans vs placebo in adolescents, sensitivity analysis
## 227723 Triptans vs placebo in adolescents, sensitivity analysis
## 227724 Triptans vs placebo in adolescents, sensitivity analysis
##         outcome.measure                    subgroup.name
## 227388       Risk Ratio
## 227389       Risk Ratio
## 227390 Risk Difference
## 227391       Risk Ratio
## 227392       Risk Ratio
## 227393       Risk Ratio
## 227394       Risk Ratio
## 227395       Risk Ratio
## 227396       Risk Ratio                     Rizatriptan
## 227397       Risk Ratio                     Sumatriptan
## 227398       Risk Ratio                     Sumatriptan
## 227399 Risk Difference                      Rizatriptan
## 227400 Risk Difference                      Sumatriptan
## 227401 Risk Difference                      Sumatriptan
## 227402       Risk Ratio                     Rizatriptan
## 227403       Risk Ratio                     Sumatriptan
## 227404       Risk Ratio                     Sumatriptan
## 227405       Risk Ratio                     Sumatriptan
```

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## 227406         Risk Ratio                    Sumatriptan
## 227407         Risk Ratio                    Sumatriptan
## 227408         Risk Ratio                    Rizatriptan
## 227409         Risk Ratio                    Sumatriptan
## 227410         Risk Ratio                    Sumatriptan
## 227411         Risk Ratio                    Rizatriptan
## 227412         Risk Ratio                    Sumatriptan
## 227413         Risk Ratio                    Sumatriptan
## 227414         Risk Ratio                    Almotriptan
## 227415         Risk Ratio                     Eletriptan
## 227416         Risk Ratio                    Naratriptan
## 227417         Risk Ratio                    Rizatriptan
## 227418         Risk Ratio                    Rizatriptan
## 227419         Risk Ratio                    Rizatriptan
## 227420         Risk Ratio                    Rizatriptan
## 227421         Risk Ratio                    Sumatriptan
## 227422         Risk Ratio                    Sumatriptan
## 227423         Risk Ratio                    Sumatriptan
## 227424         Risk Ratio                    Sumatriptan
## 227425         Risk Ratio                    Sumatriptan
## 227426         Risk Ratio                    Sumatriptan
## 227427         Risk Ratio                    Sumatriptan
## 227428         Risk Ratio                    Sumatriptan
## 227429         Risk Ratio                    Sumatriptan
## 227430         Risk Ratio                    Sumatriptan
## 227431         Risk Ratio                    Zolmitriptan
## 227432         Risk Ratio                    Zolmitriptan
## 227433         Risk Ratio                    Zolmitriptan
## 227434         Risk Ratio                    Zolmitriptan
## 227435 Risk Difference                    Almotriptan
## 227436 Risk Difference                     Eletriptan
## 227437 Risk Difference                    Naratriptan
## 227438 Risk Difference                    Rizatriptan
## 227439 Risk Difference                    Rizatriptan
## 227440 Risk Difference                    Rizatriptan
## 227441 Risk Difference                    Rizatriptan
## 227442 Risk Difference                    Sumatriptan
## 227443 Risk Difference                    Sumatriptan
## 227444 Risk Difference                    Sumatriptan
## 227445 Risk Difference                    Sumatriptan
## 227446 Risk Difference                    Sumatriptan
## 227447 Risk Difference                    Sumatriptan
## 227448 Risk Difference                    Sumatriptan
## 227449 Risk Difference                    Sumatriptan
## 227450 Risk Difference                    Sumatriptan
## 227451 Risk Difference                    Sumatriptan
## 227452 Risk Difference                    Zolmitriptan
## 227453 Risk Difference                    Zolmitriptan
## 227454 Risk Difference                    Zolmitriptan
## 227455 Risk Difference                    Zolmitriptan
## 227456         Risk Ratio                    Almotriptan
## 227457         Risk Ratio                     Eletriptan
## 227458         Risk Ratio                    Naratriptan
## 227459         Risk Ratio                    Rizatriptan
```

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## 227460    Risk Ratio                    Rizatriptan
## 227461    Risk Ratio                    Rizatriptan
## 227462    Risk Ratio                    Rizatriptan
## 227463    Risk Ratio                    Sumatriptan
## 227464    Risk Ratio                    Sumatriptan
## 227465    Risk Ratio                    Sumatriptan
## 227466    Risk Ratio                    Sumatriptan
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## 227468    Risk Ratio                    Sumatriptan
## 227469    Risk Ratio                    Sumatriptan
## 227470    Risk Ratio                    Sumatriptan
## 227471    Risk Ratio                    Sumatriptan
## 227472    Risk Ratio                    Sumatriptan
## 227473    Risk Ratio                    Zolmitriptan
## 227474    Risk Ratio                    Zolmitriptan
## 227475    Risk Ratio                    Zolmitriptan
## 227476    Risk Ratio                    Almotriptan
## 227477    Risk Ratio                     Eletriptan
## 227478    Risk Ratio                    Naratriptan
## 227479    Risk Ratio                    Rizatriptan
## 227480    Risk Ratio                    Rizatriptan
## 227481    Risk Ratio                    Rizatriptan
## 227482    Risk Ratio                    Sumatriptan
## 227483    Risk Ratio                    Sumatriptan
## 227484    Risk Ratio                    Sumatriptan
## 227485    Risk Ratio                    Sumatriptan
## 227486    Risk Ratio                    Sumatriptan
## 227487    Risk Ratio                    Sumatriptan
## 227488    Risk Ratio                    Sumatriptan
## 227489    Risk Ratio                    Sumatriptan
## 227490    Risk Ratio                    Sumatriptan
## 227491    Risk Ratio                    Sumatriptan
## 227492    Risk Ratio                    Zolmitriptan
## 227493    Risk Ratio                    Zolmitriptan
## 227494    Risk Ratio                    Almotriptan
## 227495    Risk Ratio                     Eletriptan
## 227496    Risk Ratio                    Naratriptan
## 227497    Risk Ratio                    Rizatriptan
## 227498    Risk Ratio                    Sumatriptan
## 227499    Risk Ratio                    Sumatriptan
## 227500    Risk Ratio                    Sumatriptan
## 227501    Risk Ratio                    Sumatriptan
## 227502    Risk Ratio                    Sumatriptan
## 227503    Risk Ratio                    Sumatriptan
## 227504    Risk Ratio                    Sumatriptan
## 227505    Risk Ratio                    Sumatriptan
## 227506    Risk Ratio                    Sumatriptan
## 227507    Risk Ratio                    Zolmitriptan
## 227508    Risk Ratio                    Zolmitriptan
## 227509    Risk Ratio                    Almotriptan
## 227510    Risk Ratio                     Eletriptan
## 227511    Risk Ratio                    Naratriptan
## 227512    Risk Ratio                    Rizatriptan
## 227513    Risk Ratio                    Rizatriptan
```

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## 227514      Risk Ratio                    Sumatriptan
## 227515      Risk Ratio                    Sumatriptan
## 227516      Risk Ratio                    Sumatriptan
## 227517      Risk Ratio                    Sumatriptan
## 227518      Risk Ratio                    Sumatriptan
## 227519      Risk Ratio                    Sumatriptan
## 227520      Risk Ratio                    Sumatriptan
## 227521      Risk Ratio                    Sumatriptan
## 227522      Risk Ratio                    Sumatriptan
## 227523      Risk Ratio                    Sumatriptan
## 227524      Risk Ratio                    Zolmitriptan
## 227525      Risk Ratio                    Zolmitriptan
## 227526      Risk Ratio                    Naratriptan
## 227527      Risk Ratio                    Rizatriptan
## 227528      Risk Ratio                    Sumatriptan
## 227529      Risk Ratio                    Sumatriptan
## 227530      Risk Ratio                    Sumatriptan
## 227531      Risk Ratio                    Sumatriptan
## 227532      Risk Ratio                    Sumatriptan
## 227533      Risk Ratio                    Sumatriptan
## 227534      Risk Ratio                    Sumatriptan
## 227535      Risk Ratio                    Sumatriptan
## 227536      Risk Ratio                    Sumatriptan
## 227537      Risk Ratio                    Sumatriptan
## 227538      Risk Ratio                    Zolmitriptan
## 227539      Risk Ratio                    Zolmitriptan
## 227540      Risk Ratio                            Oral
## 227541      Risk Ratio                            Oral
## 227542      Risk Ratio                            Oral
## 227543      Risk Ratio                            Oral
## 227544      Risk Ratio                            Oral
## 227545      Risk Ratio                            Oral
## 227546      Risk Ratio                            Oral
## 227547      Risk Ratio                            Oral
## 227548      Risk Ratio                            Oral
## 227549      Risk Ratio                            Oral
## 227550      Risk Ratio                            Oral
## 227551      Risk Ratio                            Oral
## 227552      Risk Ratio                            Oral
## 227553      Risk Ratio                            Oral
## 227554      Risk Ratio                            Oral
## 227555      Risk Ratio                       Intranasal
## 227556      Risk Ratio                       Intranasal
## 227557      Risk Ratio                       Intranasal
## 227558      Risk Ratio                       Intranasal
## 227559      Risk Ratio                       Intranasal
## 227560      Risk Ratio                       Intranasal
## 227561      Risk Ratio                       Intranasal
## 227562      Risk Ratio                       Intranasal
## 227563      Risk Ratio                       Intranasal
## 227564      Risk Ratio                       Intranasal
## 227565      Risk Ratio                            Oral
## 227566      Risk Ratio                            Oral
## 227567      Risk Ratio                            Oral
```

```
## 227568      Risk Ratio                                                   Oral
## 227569      Risk Ratio                                                   Oral
## 227570      Risk Ratio                                                   Oral
## 227571      Risk Ratio                                              Intranasal
## 227572      Risk Ratio                                              Intranasal
## 227573      Risk Ratio                                                   Oral
## 227574      Risk Ratio                                                   Oral
## 227575      Risk Ratio Preventive medication not permitted
## 227576      Risk Ratio Preventive medication not permitted
## 227577      Risk Ratio Preventive medication not permitted
## 227578      Risk Ratio Preventive medication not permitted
## 227579      Risk Ratio Preventive medication not permitted
## 227580      Risk Ratio Preventive medication not permitted
## 227581      Risk Ratio Preventive medication not permitted
## 227582      Risk Ratio Preventive medication not permitted
## 227583      Risk Ratio     Preventive medication permitted
## 227584      Risk Ratio     Preventive medication permitted
## 227585      Risk Ratio     Preventive medication permitted
## 227586      Risk Ratio     Preventive medication permitted
## 227587      Risk Ratio     Preventive medication permitted
## 227588      Risk Ratio     Preventive medication permitted
## 227589      Risk Ratio     Preventive medication permitted
## 227590      Risk Ratio     Preventive medication permitted
## 227591      Risk Ratio                                                Unsure
## 227592      Risk Ratio                                                Unsure
## 227593      Risk Ratio                                                Unsure
## 227594      Risk Ratio                                                Unsure
## 227595      Risk Ratio                                                Unsure
## 227596      Risk Ratio                                              Children
## 227597      Risk Ratio                                              Children
## 227598      Risk Ratio                                              Children
## 227599      Risk Ratio     Mixed children and adolescents
## 227600      Risk Ratio     Mixed children and adolescents
## 227601      Risk Ratio     Mixed children and adolescents
## 227602      Risk Ratio     Mixed children and adolescents
## 227603      Risk Ratio     Mixed children and adolescents
## 227604      Risk Ratio                                            Adolescent
## 227605      Risk Ratio                                            Adolescent
## 227606      Risk Ratio                                            Adolescent
## 227607      Risk Ratio                                            Adolescent
## 227608      Risk Ratio                                            Adolescent
## 227609      Risk Ratio                                            Adolescent
## 227610      Risk Ratio                                            Adolescent
## 227611      Risk Ratio                                            Adolescent
## 227612      Risk Ratio                                            Adolescent
## 227613      Risk Ratio                                            Adolescent
## 227614      Risk Ratio                                            Adolescent
## 227615      Risk Ratio                                            Adolescent
## 227616      Risk Ratio                                            Adolescent
## 227617      Risk Ratio                                            Adolescent
## 227618      Risk Ratio                                            Adolescent
## 227619      Risk Ratio                                            Adolescent
## 227620      Risk Ratio                                            Cross-over
## 227621      Risk Ratio                                            Cross-over
```

```
## 227622      Risk Ratio                        Cross-over
## 227623      Risk Ratio                        Cross-over
## 227624      Risk Ratio                        Cross-over
## 227625      Risk Ratio                        Cross-over
## 227626      Risk Ratio                        Cross-over
## 227627      Risk Ratio                          Parallel
## 227628      Risk Ratio                          Parallel
## 227629      Risk Ratio                          Parallel
## 227630      Risk Ratio                          Parallel
## 227631      Risk Ratio                          Parallel
## 227632      Risk Ratio                          Parallel
## 227633      Risk Ratio                          Parallel
## 227634      Risk Ratio                          Parallel
## 227635      Risk Ratio                          Parallel
## 227636      Risk Ratio                          Parallel
## 227637      Risk Ratio                          Parallel
## 227638      Risk Ratio                          Parallel
## 227639      Risk Ratio                          Parallel
## 227640      Risk Ratio                          Parallel
## 227641      Risk Ratio                               Low
## 227642      Risk Ratio                               Low
## 227643      Risk Ratio                               Low
## 227644      Risk Ratio                               Low
## 227645      Risk Ratio                               Low
## 227646      Risk Ratio                               Low
## 227647      Risk Ratio                               Low
## 227648      Risk Ratio                               Low
## 227649      Risk Ratio                           Unclear
## 227650      Risk Ratio                           Unclear
## 227651      Risk Ratio                           Unclear
## 227652      Risk Ratio                           Unclear
## 227653      Risk Ratio                           Unclear
## 227654      Risk Ratio                           Unclear
## 227655      Risk Ratio                           Unclear
## 227656      Risk Ratio                           Unclear
## 227657      Risk Ratio                           Unclear
## 227658      Risk Ratio                           Unclear
## 227659      Risk Ratio                           Unclear
## 227660      Risk Ratio                           Unclear
## 227661      Risk Ratio                           Unclear
## 227662      Risk Ratio                     Pharmaceutical
## 227663      Risk Ratio                     Pharmaceutical
## 227664      Risk Ratio                     Pharmaceutical
## 227665      Risk Ratio                     Pharmaceutical
## 227666      Risk Ratio                     Pharmaceutical
## 227667      Risk Ratio                     Pharmaceutical
## 227668      Risk Ratio                     Pharmaceutical
## 227669      Risk Ratio                     Pharmaceutical
## 227670      Risk Ratio                     Pharmaceutical
## 227671      Risk Ratio                     Pharmaceutical
## 227672      Risk Ratio                     Pharmaceutical
## 227673      Risk Ratio                     Pharmaceutical
## 227674      Risk Ratio                     Pharmaceutical
## 227675      Risk Ratio                     Pharmaceutical
```

```
## 227676      Risk Ratio                    Pharmaceutical
## 227677      Risk Ratio                    Pharmaceutical
## 227678      Risk Ratio                    Pharmaceutical
## 227679      Risk Ratio                Non-pharmaceutical
## 227680      Risk Ratio                Non-pharmaceutical
## 227681      Risk Ratio                           Unclear
## 227682      Risk Ratio                           Unclear
## 227683      Risk Ratio                    Journal report
## 227684      Risk Ratio                    Journal report
## 227685      Risk Ratio                    Journal report
## 227686      Risk Ratio                    Journal report
## 227687      Risk Ratio                    Journal report
## 227688      Risk Ratio                    Journal report
## 227689      Risk Ratio                    Journal report
## 227690      Risk Ratio                    Journal report
## 227691      Risk Ratio                    Journal report
## 227692      Risk Ratio                    Journal report
## 227693      Risk Ratio                    Journal report
## 227694      Risk Ratio                    Journal report
## 227695      Risk Ratio                    Journal report
## 227696      Risk Ratio                    Journal report
## 227697      Risk Ratio                    Journal report
## 227698      Risk Ratio         Registry or abstract only
## 227699      Risk Ratio         Registry or abstract only
## 227700      Risk Ratio         Registry or abstract only
## 227701      Risk Ratio         Registry or abstract only
## 227702      Risk Ratio         Registry or abstract only
## 227703      Risk Ratio         Registry or abstract only
## 227704      Risk Ratio         Sample size \342\211\244 50
## 227705      Risk Ratio         Sample size \342\211\244 50
## 227706      Risk Ratio                 Sample size > 50
## 227707      Risk Ratio                 Sample size > 50
## 227708      Risk Ratio                 Sample size > 50
## 227709      Risk Ratio                 Sample size > 50
## 227710      Risk Ratio                 Sample size > 50
## 227711      Risk Ratio                 Sample size > 50
## 227712      Risk Ratio                 Sample size > 50
## 227713      Risk Ratio                 Sample size > 50
## 227714      Risk Ratio                 Sample size > 50
## 227715      Risk Ratio                 Sample size > 50
## 227716      Risk Ratio                 Sample size > 50
## 227717      Risk Ratio                 Sample size > 50
## 227718      Risk Ratio                 Sample size > 50
## 227719      Risk Ratio                 Sample size > 50
## 227720      Risk Ratio                 Sample size > 50
## 227721      Risk Ratio                 Sample size > 50
## 227722      Risk Ratio                 Sample size > 50
## 227723      Risk Ratio                 Sample size > 50
## 227724      Risk Ratio                 Sample size > 50
# show outcome measures and their frequencies:
t(t(sort(table(madata$outcome.measure), decreasing=TRUE)))

##
##                                   [,1]
```

```
##   Risk Ratio                      232072
##   Mean Difference                 101229
##   Odds Ratio                       49060
##   Std. Mean Difference             39933
##   Peto Odds Ratio                  19081
##   Risk Difference                   6229
##   Hazard Ratio                      6124
##   Rate Ratio                        1835
##   rate difference                    606
##   SMD                                587
##   % change from baseline             528
##   Risk Ratio (Non-event)             337
##   Mean difference                    305
##   mean difference                    277
##   Ratio of means                     231
##   Incidence Rate Ratio               218
##   MD                                 217
##   Prevented fraction                 202
##   Rate ratio                         199
##   Hazard ratio                       177
##   HR                                 176
##   Prevented Fraction                 157
##   Hedges` g                          123
##   OR                                 118
##   Prevalence                         115
##   %                                  110
##   Change in DBP                      109
##   WMD                                108
##   L/min                              106
##   Change in SBP                      103
##   Odds Ratio (Non-event)             103
##   Litres                              92
##   Effect Size                         88
##   Ratio of Means                      86
##   efficacy (%)                        86
##   Adjusted Odds Ratio                 74
##   mean diff (L/min)                   70
##   odds ratio                          69
##   Effect size                         68
##   Mean ES                             68
##   Relative Risk                       68
##   Hazards ratio                       66
##   MD in SBP                           66
##   Ratio of the Means                  62
##   Prevalence ratio                    58
##   MD in DBP                           56
##   treatment effect                    56
##   L                                   52
##   SGRQ units                          50
##   mean difference (L)                 48
##   Symptoms                            44
##   Minutes                             43
##   Metres                              42
##   Peto Odds Ratio (Non-event)         41
```

```
##    IRR                              38
##    SD units                         37
##    Stand. Tx effect                 35
##                                     29
##    Interaction coefficient          29
##    Epworth Score                    28
##    Cramp Number                     27
##    Odds Ratios                      26
##    Various                          25
##    mmHg                             25
##    Ratio of GM                      24
##    Litres/min                       23
##    rate ratio                       22
##    RR                               21
##    Adjusted odds ratio              19
##    Events/hr                        19
##    mls                              19
##    AHI/hr                           18
##    Mean Change Difference           18
##    Mean hrs/night                   18
##    Epworth score                    17
##    FOSQ units                       16
##    SMDs                             15
##    Arousals/hr                      14
##    Borg                             14
##    Change in PRA                    14
##    Cramp number                     14
##    HADS Units                       14
##    Relative risk                    14
##    difference                       14
##    difference in means              14
##    mm Hg                            14
##    Cramp intensity                  13
##    ESS                              13
##    Incidence Risk Ratio             13
##    differences between              13
##    Mins                             12
##    Odds ratio                       12
##    SF-36 units                      12
##    hazards ratio                    12
##    mean                             12
##    rate of hearing loss             12
##    Cramp days                       11
##    Mean Difference L/mn             11
##    RR or HR                         11
##    CC                               10
##    Exn's/pt/yr                      10
##    Puffs/day                        10
##    Risk ratio                       10
##    Change in Aldosterone             9
##    Incidence of ALRI                 9
##    Median Ratio                      9
##    changes in MVC [%]                9
##    effect size                       9
```

```
##    Change in Cholesterol                    8
##    Diff in mean score                       8
##    Geometric mean ratio                     8
##    Incidence rate ratio                     8
##    Incubator measures                       8
##    MCD                                      8
##    MD in serum Ca                           8
##    Mean Difference (SDs)                    8
##    Mean diff in DBP                         8
##    Mean diff in SBP                         8
##    OR, cluster adjusted                     8
##    Relative rate                            8
##    Stand. tx effect                         8
##    odds ratios                              8
##    puffs/day                                8
##    Annualized risk difference (%)           7
##    IDR, 95% CI                              7
##    Treatment difference                     7
##    Treatment effect                         7
##    Change in HDL                            6
##    Change in Noradrenaline                  6
##    Change in Triglyceride                   6
##    Cows hit                                 6
##    Difference-in-Differences                6
##    Difference-in-Differences (SDs)          6
##    Heat production                          6
##    Hedges &#180;g                           6
##    Hedges&#180; g                           6
##    Hrs/nt                                   6
##    Mean Difference [%]                      6
##    Risk Difference (%)                      6
##    SGRQ                                     6
##    Symptom score diff                       6
##    prevented fraction                       6
##    puffs/day or night                       6
##    risk ratio                               6
##    Change in LDL                            5
##    Infant temperatures                      5
##    No. cramps                               5
##    Rate difference                          5
##    Risk difference (RD)                     5
##    Units on SGRQ scale                      5
##    hazard ratio                             5
##    mL/year                                  5
##    mortality                                5
##    % predicted                              4
##    ATP consumpt. [%PCr]                     4
##    Attacks/pt                               4
##    Change in Adrenaline                     4
##    Difference in WOMAC                      4
##    FOSQ Units                               4
##    Heat exchange                            4
##    NHP units                                4
##    Operative conditions                     4
```

```
##    Physiologic                             4
##    Puffs/d                                 4
##    St George's RQ score                    4
##    Symptom score                           4
##    change in slope                         4
##    changes in tau [s]                      4
##    difference between                      4
##    immediate change in level               4
##    quality of life                         4
##    % of sleep                              3
##    % of total sleep                        3
##    CHFQ score                              3
##    Cases/Year                              3
##    Change in HR                            3
##    Change in MAP                           3
##    Change in MPAP                          3
##    GHQ units                               3
##    Geometric Mean                          3
##    HR and variance                         3
##    Hedges ` g                              3
##    IDD                                     3
##    Mean hrs/nights used                    3
##    OR Becker-Balagtas                      3
##    Oxygen consumption                      3
##    Ratio of the Medians                    3
##    SF36 units                              3
##    Survival HR                             3
##    Wattage                                 3
##    Watts                                   3
##    changes [%]                             3
##    changes in LBM [kg]                     3
##    effectsize                              3
##    generic inverse                         3
##    hours/night                             3
##    % increase                              2
##    &#223;-agonist                          2
##    Attacks/participant                     2
##    Change in duration                      2
##    Change in level and slope               2
##    Coefficient                             2
##    Conners                                 2
##    Effect of intervention                  2
##    Efficacy                                2
##    General Health score                    2
##    Geometric mean                          2
##    Hedges&#180;g                           2
##    Hedges`g                                2
##    MD in serum K                           2
##    MD or Difference-in-Differences (SDs)   2
##    Mean % change                           2
##    Paired samples mean                     2
##    Relatvie risks                          2
##    Symptom scale                           2
##    Symptom scores                          2
```

```
##    VO2peak                                  2
##    events/hour                              2
##    kPa                                      2
##    log(OR)                                  2
##    #/hour                                   1
##    % Rate difference                        1
##    % change                                 1
##    % predicted FEV1                         1
##    ACQ score                                1
##    AQLQ score                               1
##    Awakenings/yr                            1
##    Cases/year                               1
##    Coughs/hr                                1
##    Difference lesion/yr                     1
##    Doses                                    1
##    Doubl'g doses                            1
##    ESS units                                1
##    IDR                                      1
##    L/m2                                     1
##    LCQ score                                1
##    Litres/s                                 1
##    Mg/day                                   1
##    No. puffs/day                            1
##    Number                                   1
##    Paired Odds Ratio                        1
##    QoL                                      1
##    RR Ratios                                1
##    Score                                    1
##    Seconds                                  1
##    Weekly score                             1
##    cm                                       1
##    conditional OR                           1
##    events/hr                                1
##    ex'cbtions/pat                           1
##    hours/nt                                 1
##    incidence rate ratio                     1
##    level                                    1
##    mm VAS                                   1
##    puffs                                    1
##    puffs/d                                  1
##    rr                                       1
##    slope                                    1
##    symptoms                                 1
```

```r
# non-zero entries for event counts only for RR/OR/RD/HR outcomes:
t(t(sort(table(madata$outcome.measure[(madata$events1>0) | (madata$events2>0)]),dec=TRUE)))
```

```
##
##                              [,1]
##    Risk Ratio              209948
##    Odds Ratio               42977
##    Peto Odds Ratio          16428
##    Risk Difference           4702
##    Hazard Ratio               795
##    Risk Ratio (Non-event)     336
```

```
##     Odds Ratio (Non-event)          102
##     Peto Odds Ratio (Non-event)      40
```

```r
# binary outcomes' names:
outcomenames <- unique(madata$outcome.measure[(madata$events1>0) | (madata$events2>0)])
# studies with binary outcomes:
binstudies <- is.element(madata$outcome.measure, outcomenames)
# fraction of binary outcomes:
mean(binstudies)  # 67%
```

```
## [1] 0.6749321
```

```r
# fraction of zero counts among binary outcomes:
mean((madata$events1[binstudies] == 0)
     | (madata$events1[binstudies] == madata$total1[binstudies])
     | (madata$events2[binstudies] == 0)
     | (madata$events2[binstudies] == madata$total2[binstudies]))
```

```
## [1] 0.2571722
```

```r
#  26 % (!)


#########################################
# distribution of analysis sizes;
# overall analyses:
tab1 <- table(table(paste(madata$file.nr, madata$comparison.nr, madata$outcome.nr, sep=".")))
tab1 <- c(tab1[1:15], ">15"=sum(tab1[-(1:15)]))
tab1 <- tab1/sum(tab1)
round(cbind("prob"=tab1, "cumulative"=cumsum(tab1)),3)
```

```
##       prob cumulative
## 1    0.380      0.380
## 2    0.182      0.562
## 3    0.107      0.669
## 4    0.074      0.743
## 5    0.049      0.792
## 6    0.038      0.830
## 7    0.028      0.858
## 8    0.023      0.881
## 9    0.018      0.899
## 10   0.015      0.914
## 11   0.012      0.926
## 12   0.010      0.936
## 13   0.009      0.945
## 14   0.007      0.951
## 15   0.005      0.956
## >15 0.044      1.000
```

```r
barplot(tab1, col="red3")
```
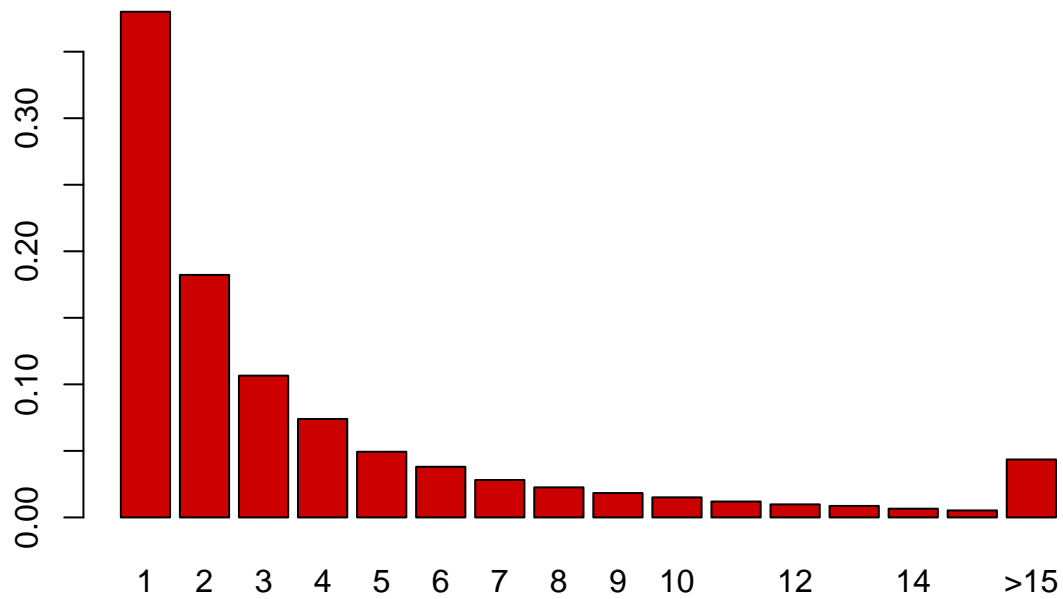
```
# subgroup analyses:
tab2 <- table(table(paste(madata$file.nr, madata$comparison.nr, madata$outcome.nr, madata$subgroup.nr, s
tab2 <- c(tab2[1:15], ">15"=sum(tab2[-(1:15)]))
tab2 <- tab2/sum(tab2)
round(cbind("prob"=tab2, "cumulative"=cumsum(tab2)),3)
```

```
##       prob cumulative
## 1    0.558      0.558
## 2    0.173      0.730
## 3    0.088      0.818
## 4    0.052      0.870
## 5    0.035      0.906
## 6    0.023      0.929
## 7    0.016      0.945
## 8    0.012      0.956
## 9    0.009      0.965
## 10   0.007      0.972
## 11   0.005      0.977
## 12   0.004      0.980
## 13   0.003      0.984
## 14   0.002      0.986
## 15   0.002      0.988
## >15  0.012      1.000
```

```
barplot(tab2, col="blue3")
```
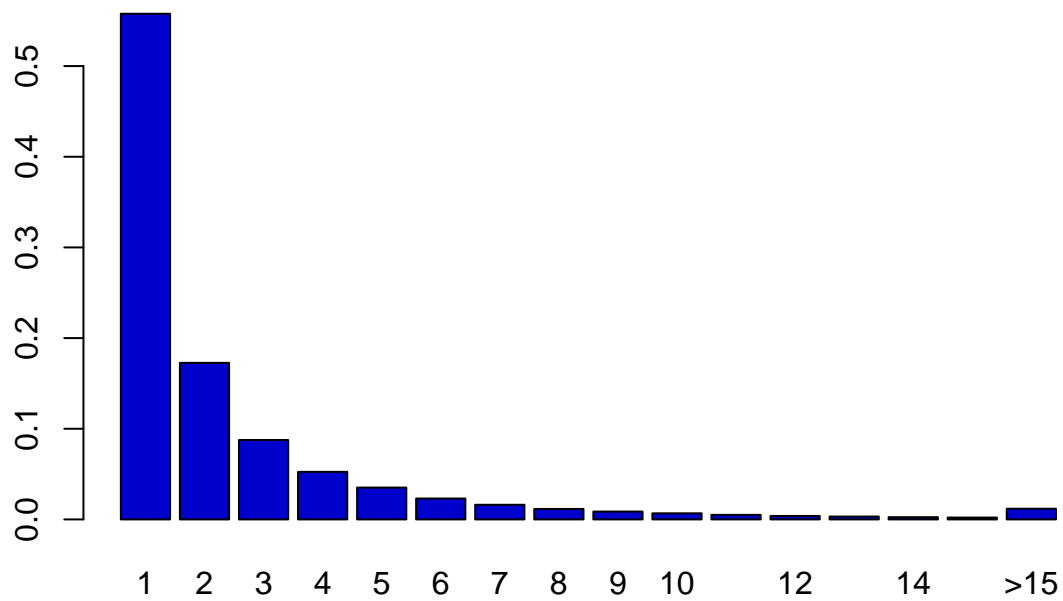
```
# both analysis types:
barplot(rbind(tab1, tab2), beside=TRUE, col=c("red3","blue3"),
        xlab="number of studies included", ylab="frequency")
legend("topright", c("overall analyses","subgroup analyses"),
       pch=15, col=c("red3","blue3"))
```