effect3

2023-08-18

파일 불러오기

```
effect3 <- read.csv("C:\\Users\\ph102\\Desktop\\P\\bio_sas\\data\\prop12.csv")
head(effect3)</pre>
```

```
## study event n g
## 1 study1 27 190 0
## 2 study2 21 189 0
## 3 study3 64 215 1
## 4 study4 53 226 1
## 5 study5 113 973 2
## 6 study6 7 33 2
```

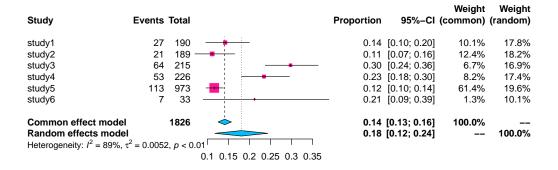
분석 진행

'metaprop'명령어를 사용하여 분석을 진행

```
library(meta)
meta3 <- metaprop(event,n,data=effect3,sm='PRAW',method.ci ='CP',study)</pre>
meta3
## Number of studies: k = 6
## Number of observations: o = 1826
## Number of events: e = 285
##
##
                        proportion
                                             95%-CI
                            0.1411 [0.1253; 0.1569]
## Common effect model
## Random effects model
                            0.1807 [0.1177; 0.2437]
## Quantifying heterogeneity:
## tau^2 = 0.0052 [0.0015; 0.0328]; tau = 0.0718 [0.0383; 0.1811]
## I^2 = 88.8% [78.3%; 94.3%]; H = 2.99 [2.15; 4.17]
## Test of heterogeneity:
        Q d.f. p-value
##
## 44.82 5 < 0.0001
##
## Details on meta-analytical method:
## - Inverse variance method
## - Restricted maximum-likelihood estimator for tau^2
## - Q-Profile method for confidence interval of tau^2 and tau
## - Untransformed proportions
```

효과크기 확인

```
forest(meta3,col.diamond = 'deepskyblue1',col.square = 'deeppink1')
```



변수로 저장

[1] 0.1411121 0.1253367 0.1568876 0.1807218 0.1177288 0.2437149

결과 정리

```
library(kableExtra)
result3 <- matrix(0,2,5)
colnames(result3) <- c('ES','95% CI_low','95% CI_up','Q(df)',expression('I^2'))
row.names(result3) <- c('Fixed','random')
result3[1,1] <- round(meta3_result[1],2)
result3[1,2] <- round(meta3_result[2],2)
result3[1,3] <- round(meta3_result[3],2)
result3[2,1] <- round(meta3_result[4],2)
result3[2,2] <- round(meta3_result[5],2)
result3[2,3] <- round(meta3_result[6],2)
result3[,4] <- paste(round(meta3$Q,2),'(', meta3$df.Q,')')
result3[,5] <- round(meta3$I2*100,2)
kable(result3)</pre>
```

	ES	95% CI_low	95% Cl_up	Q(df)	I^2
Fixed	0.14	0.13	0.16	44.82 (5)	88.85
random	0.18	0.12	0.24	44.82 (5)	88.85