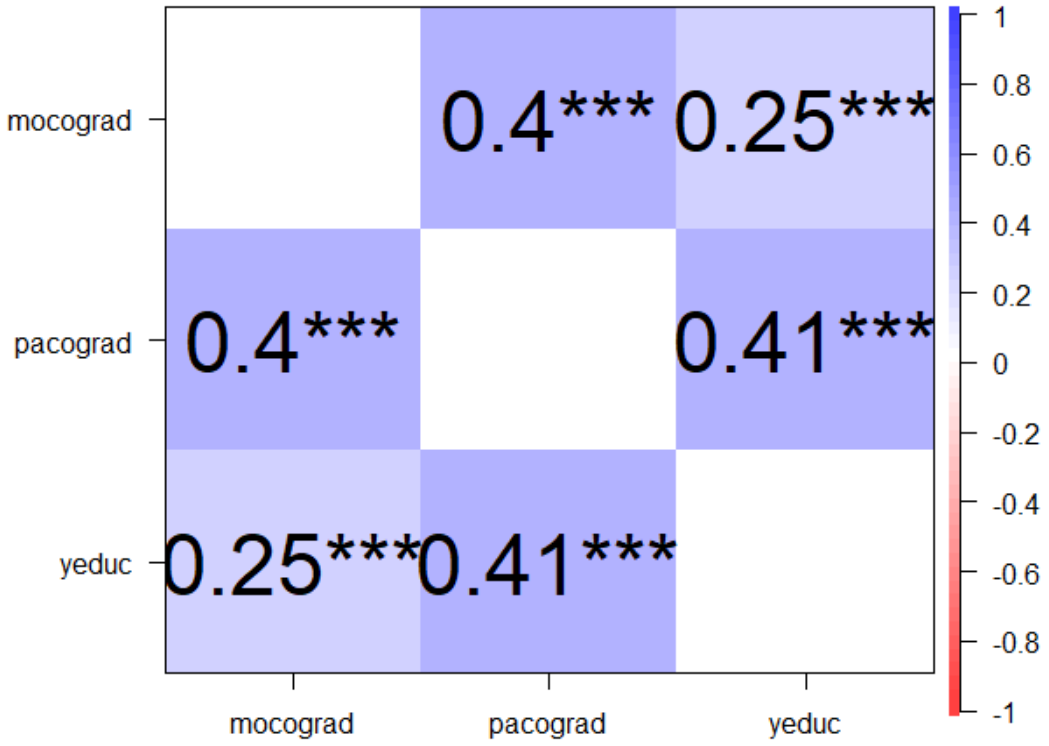
スクリプト：

```
data_4 = read.csv("6_2_yeduc.csv", header = TRUE, sep = ",");
data_4;
reg4_1 = lm(yeduc ~ mocograd, data = data_4);
summary(reg4_1)
reg4_2 = lm(yeduc ~ pacograd + mocograd, data = data_4);
summary(reg4_2)
library(psych)
corr.test(data_4)

data <- corr.test(data_4)
r <- data$r
p <- data$p
corPlot(r,pval=p,numbers=TRUE,diag=FALSE,stars=TRUE)
```

結果：

```
Call:
lm(formula = yeduc ~ mocograd, data = data_4)

Residuals:
   Min     1Q  Median     3Q    Max
-4.8550 -0.8550  0.1450  0.9337  4.1450

Coefficients:
          Estimate Std. Error t value Pr(>|t|)
(Intercept) 13.85500    0.02208  627.40   <2e-16 ***
mocograd    1.21128    0.07454   16.25   <2e-16 ***
---
Signif. codes:
0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 1.326 on 3952 degrees of freedom
Multiple R-squared:  0.06263, Adjusted R-squared:  0.06239
F-statistic:   264 on 1 and 3952 DF,  p-value: < 2.2e-16

Call:
lm(formula = yeduc ~ pacograd + mocograd, data = data_4)

Residuals:
   Min     1Q  Median     3Q    Max
-4.5946 -1.0946 -0.0946  0.9054  4.4054
```

```
Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept) 13.59462    0.02352 578.020  < 2e-16 ***
pacograd     1.10886    0.04751  23.339  < 2e-16 ***
mocograd     0.49701    0.07630   6.514 8.23e-11 ***
---
Signif. codes:
0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 1.243 on 3951 degrees of freedom
Multiple R-squared:  0.1762,  Adjusted R-squared:  0.1758
F-statistic: 422.5 on 2 and 3951 DF,  p-value: < 2.2e-16
```



$COV(M, P) = 0.4$, that is to say, pacograd has some effect on the expection of yeduc.