**Lesson 6**

**Divide in group: can you check the AIC and BIC of the foward and backward procedure? Which model will you choose for AIC and BIC?**

AIC(mod\_back)

AIC(mod\_forward)

BIC(mod\_back)

BIC(mod\_forward)

Both the aic and bic are better for the forward, so we will choose the forward method

**Divide in group: can you re-do the backward and forward procedure considering poor as outcome insetad of mortality?**

What selection procedure would you prefer?

fit\_poor <- lm(poor~., data= data)

mod\_backP <- step(fit\_poor, direction= 'backward')

summary(mod\_backP)

fit2\_poor <- lm(poor ~ 1, data=data)

mod\_forwardP <- stepAIC(fit2\_poor,direction="forward",scope=list(upper=fit\_poor,lower=fit2\_poor))

summary(mod\_forwardP)

AIC(mod\_back)

AIC(mod\_forward)

BIC(mod\_back)

BIC(mod\_forward)

Again we will prefer the forward also from the interpretation of coefficient