

Computer Lab 12: Generalized Estimating Equations (GEE)

[R code:]

```
data(warpbreaks)
```

```
## marginal analysis of random effects model for wool
```

```
gee1=gee(breaks ~ tension, id=wool, data=warpbreaks, corstr="exchangeable")
```

```
summary(gee1)
```

```
## test for serial correlation in blocks
```

```
gee2=gee(breaks ~ tension, id=wool, data=warpbreaks, corstr="AR-M", Mv=1)
```

```
summary(gee2)
```

```
library(MASS)
```

```
data(OME)
```

```
gee3=gee(cbind(Correct, Trials-Correct) ~ Loud + Age + OME, id = ID,  
          data = OME, family = binomial, corstr = "exchangeable")
```

```
summary(gee3)
```