```
model{

for (i in 1:10){
      x[1,i]~dnorm(theta[1],prec[1])      #Vaginal Delivery outcome
likelihood
      for (j in 2:9){
            x[j,i]~dnorm(mu[i,j],prec[j]) #Other outcomes likelihood
            mu[i,j]<-x[1,i] + d[j]               # d[j] = mean difference
for outcome j compared to outcome 1, allowing for individual correlations
      }
}

theta[1]~dnorm(0,.001)
for (j in 2:9){
      theta[j]<-theta[1]+d[j]       #Estimated mean utility for outcome j
      d[j]~dnorm(0,.001)                        #prior for d's
}

for (j in 1:9){
      prec[j]<-pow(sd[j],-2)
      sd[j]~dunif(0,5)                    #prior for sd's

      utility[j]<-theta[j]/10             #utilities for each outcome
}

#Derive utility scores for health states in model (Table B.1)
VD<-utility[1]+1
VD.TC<-(utility[1]*utility[8]) + utility[9]
VD.HD<-(utility[1]*utility[6]) + utility[7]
VD.IC<-(utility[1]*utility[4]) + utility[5]

CS<-utility[3] + 1
CS.TC<-(utility[3]*utility[8]) + utility[9]
CS.HD<-(utility[3]*utility[6]) + utility[7]
CS.IC<-(utility[3]*utility[4]) + utility[5]


}

#DATA
#Note column=respondent i, row=health outcome, j as defined in Fig. B.1
x[,1] x[,2] x[,3] x[,4] x[,5] x[,7] x[,8] x[,9] x[,10]
8     7.5   5.5   4.5   4.1   9.5   6.1   6.5   7     7.6
5.5   5.5   3.7   3.5   3.1   9.1   4.1   3.85  6     6.5
3.8   3.5   2.5   2.8   2.1   8.6   2.1   2.5   6     5.2
4.8   2.5   0.5   0.5   0.1   4     5.1   5.25  3     8.2
1.2   1.5   0.5   0.5   0.1   2     1.1   2.8   3     1.3
5.2   3.5   2.1   0.5   0.1   6     6.1   5.25  4     8.3
1     1.5   2.1   0.5   1.1   4     2.1   4.8   4     2.4
6.6   7.5   7.5   3.5   2.1   8     7.1   6.8   8     9.6
4.1   5.5   7.6   3.5   2.1   7.5   5.1   5.5   8     6.7
END

#INITIAL VALUES
list(theta=c(5,NA,NA,NA,NA,   NA,NA,NA,NA), sd=c(1,1,1,1,1, 1,1,1,1),
d=c(NA, 2, 2, 2, 2,     2,2,2,2))

list(theta=c(8,NA,NA,NA,NA,   NA,NA,NA,NA), sd=c(2,3,1,0.5,1.5,
      2,1.5,2,3), d=c(NA, 5, 4, 2, 3,     1,3,4,5))
```