

model

```
{
for (i in 1 : n) {
#
#model for aspirin treatment - logistic regression on centre & nice
#
logit(pa[i])<- a1*nice[i]+centre.effect.a[centre[i]]
aspirin[i]~dbin(pa[i],1)
#
#model for true events - logistic regression on centre and nice
#
logit(py[i])<- b1*nice[i]+centre.effect.y[centre[i]]
y[i]~dbin(py[i],1)
#
# model for observed events
#
  p.events[i]<-y[i]*(1-0.3*aspirin[i])
  events[i]~ dbin(p.events[i],1)
  y1[i]<-y[i]*nice[i]*risk[i]
  y2[i]<-y[i]*(1-nice[i])*risk[i]
  y3[i]<-y[i]*nice[i]*(1-risk[i])
  y4[i]<-y[i]*(1-nice[i]*(1-risk[i]))
}

#
# Prior specification
#
for ( j in 1:n.centre ) {
centre.effect.a[j]~dnorm(0,0.001)
centre.effect.y[j]~dnorm(0,0.001)
}
a1~dnorm(0,0.0001)
b1~dnorm(0,0.0001)
#
# True event counts
#
s1<-sum(y1[]) # NICE + Risk +
s2<-sum(y2[]) # NICE - Risk +
s3<-sum(y3[]) # NICE + Risk -
s4<-sum(y4[]) # NICE - Risk -
}
```