```
# JAGS model (saved to 'modelChemo.txt')
                                                                  model {
                                       Economic outcomes
                                                                       pi[1] ~ dbeta(a.pi,b.pi)
                                                                       pi[2] <- pi[1]*rho
                          Ambulatory care e_t = 0, c_t = c_s^{drug} + c^{amb}
                                                                       rho ~ dnorm(m.rho,tau.rho)
               SE_t
                                                                       gamma ~ dbeta(a.gamma,b.gamma)
             Blood-related
             side effects
                                                                       c.amb ~ dlnorm(m.amb,tau.amb)
               (\pi_t)
                                                                       c.hosp ~ dlnorm(m.hosp,tau.hosp)
                         Hospital admission e_t = 0 c_t = c^{drug} + c^{hosp}
                                                                       for (t in 1:2) {
                                                                            SE[t] ~ dbin(pi[t],N)
  N
Standard
                                                                            A[t] ~ dbin(gamma, SE[t])
treatment
                                                                            H[t] <- SE[t] - A[t]
                                                                   }
                          No side effects
                                       e_t = 1, c_t = c_{\cdot}^{drug}
                            (1 - \pi_i)
                                                                   # Calls JAGS in background to run the model
                                                                   library(R2jags)
                                                                   data <- list("a.pi", "b.pi", "a.gamma", "b.gamma",
                                                                              "m.amb", "tau.amb", "m.hosp", "tau.hosp",
                                                                              "m.rho", "tau.rho", "N")
                                                                   filein <- "modelChemo.txt"
                                                                   params <- c("pi", "gamma", "c.amb", "c.hosp",
# Creates the variables of cost & effectiveness
                                                                                 "rho", "SE", "A", "H")
e <- c <- matrix(NA.1000.2)
                                                                   inits <- function()
e <- N - SE
                                                                       list(pi=c(runif(1),NA),gamma=runif(1),
for (t in 1:2) {
                                                                             c.amb=rlnorm(1),c.hosp=rlnorm(1),
   c[,t] \leftarrow c.drug[t]*(N-SE[,t]) +
                                                                             rho=runif(1))
             (c.amb+c.drug[t])*A[,t] +
             (c.hosp+c.drug[t])*H[,t]
                                                                   chemo <- jags(data,inits,params,n.iter=20000,
                                                                     model.file=filein,n.chains=2,n.burnin=9500,
                                                                     n.thin=42.DIC=FALSE)
                                                                   print(chemo,digits=3,intervals=c(0.025, 0.975))
                                                                   attach.jags(chemo)
```