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#Random effects model based on differences between groups
model{
  for (i in 1:N){
    prec[i]<- 1/var[i]      #Precision of differences = 1/var
    diff[i]~dnorm(delta[i],prec[i]) #Likelihood for mean differences
  }
  between arms
  delta[i]~dnorm(md[i],tau) #Random effects model for delta's
  md[i]<- d[t[i]] - d[b[i]] #Define functional parameters for t[i] vs
  b[i]
#Residual Deviance for data i
  dev[i] <- (diff[i]-delta[i])* (diff[i]-delta[i])/var[i]
  }
resdev <- sum(dev[])
  d[1]<-0
  for (k in 2:NT) {d[k] ~ dnorm(0,.00001) } # vague priors for basic
parameters
  sd.d ~ dunif(0,5) # vague prior for random effects sd
  tau <- 1/pow(sd.d,2)
  tau.squared <- sd.d*sd.d

# Ranking and prob{treatment k is best}
  for (k in 1:NT) {
    rk[k]<- rank(d[],k)
    best[k]<-equals(rk[k],1)
  }

# pairwise mean difference comparisons
  for (c in 1:(NT-1)) { for (k in (c+1):NT) { SMD[c,k] <- (d[k] - d[c] ) } }
}

```