

$P(S(Y) = T \mid S(X) = T, F(X,Y)=T) = 70\%$   
 $P(S(Y) = T \mid S(X) = T, F(X,Y)=F) = 75\%$   
...

Friend(X,Y)

Smokes(X)

Smokes(Y)

Cancer(Y)

$P(C(Y) = T \mid S(Y) = T) = 70\%$   
...