

$Y = \text{Hyperlipidemia}$

$C = \text{Diabetes}$
(prediction)

$A = \text{gender}$

Y	C	A	$P(Y C, A)$	$P(Y C)$	$P(C Y, A)$	$P(C Y)$
yes	yes	female	0.533	0.569	0.646	0.646
yes	yes	male	0.533	0.569	0.646	0.646
yes	no	female	0.533	0.569	0.646	0.646
yes	no	male	0.533	0.569	0.646	0.646
no	yes	female	0.467	0.431	0.354	0.354
no	yes	male	0.467	0.431	0.354	0.354
no	no	female	0.467	0.431	0.354	0.354
no	no	male	0.467	0.431	0.354	0.354

sufficient does not work
separated works

$Y = \text{Central Obesity}$

$C = \text{Hyperlipidemia}$
(prediction)

$A = \text{gender}$

Y	C	A	$P(Y C, A)$	$P(Y C)$	$P(C Y, A)$	$P(C Y)$
yes	yes	female	0.787	0.787	0.479	0.515
yes	yes	male	0.787	0.787	0.479	0.515
yes	no	female	0.787	0.787	0.479	0.515
yes	no	male	0.787	0.212	0.479	0.515
no	yes	female	0.212	0.212	0.521	0.485
no	yes	male	0.212	0.212	0.521	0.485
no	no	female	0.212	0.212	0.521	0.485
no	no	male	0.212	0.212	0.521	0.485

sufficient works
separate does not work