

Seperated:

Prediction: BMI

$P(\text{BMI} = \sim 18.5 | \text{Hyperlipidemia} = \text{YES}, \text{Gender} = \text{Female}) = 19.9$

$P(\text{BMI} = \sim 24.0 | \text{Hyperlipidemia} = \text{YES}, \text{Gender} = \text{Female}) = 47.0$

$P(\text{BMI} = \sim 28.0 | \text{Hyperlipidemia} = \text{YES}, \text{Gender} = \text{Female}) = 32.8$

$P(\text{BMI} = < 18.5 | \text{Hyperlipidemia} = \text{YES}, \text{Gender} = \text{Female}) = 0.4$

$P(\text{BMI} = \sim 18.5 | \text{Hyperlipidemia} = \text{YES}) = 19.9$

$P(\text{BMI} = \sim 24.0 | \text{Hyperlipidemia} = \text{YES}) = 47.0$

$P(\text{BMI} = \sim 28.0 | \text{Hyperlipidemia} = \text{YES}) = 32.8$

$P(\text{BMI} = < 18.5 | \text{Hyperlipidemia} = \text{YES}) = 0.4$

Prediction: BMI

$P(\text{Hyperlipidemia} = \text{YES} | \text{BMI} = \sim 18.5, \text{Gender} = \text{Female}) = 18.9$

$P(\text{Hyperlipidemia} = \text{YES} | \text{BMI} = \sim 24.0, \text{Gender} = \text{Female}) = 81.1$

$P(\text{Hyperlipidemia} = \text{YES} | \text{BMI} = \sim 18.5) = 21.6$

$P(\text{Hyperlipidemia} = \text{YES} | \text{BMI} = \sim 24.0) = 78.4$

Sufficient:

Prediction: Hyperlipidemia

$P(\text{Hyperlipidemia} = \text{YES} | \text{Hyperlipidemia} = \text{YES}, \text{Gender} = \text{Female}) = 35.3$

$P(\text{Hyperlipidemia} = \text{NO} | \text{Hyperlipidemia} = \text{YES}, \text{Gender} = \text{Female}) = 64.7$

$P(\text{Hyperlipidemia} = \text{YES} | \text{Hyperlipidemia} = \text{YES}) = 39.2$

$P(\text{Hyperlipidemia} = \text{NO} | \text{Hyperlipidemia} = \text{YES}) = 60.8$

Prediction: Hyperlipidemia

$P(\text{Hyperlipidemia} = \text{YES} | \text{Hyperlipidemia} = \text{YES}, \text{Gender} = \text{Female}) = 49.7$

$P(\text{Hyperlipidemia} = \text{YES} | \text{Hyperlipidemia} = \text{NO}, \text{Gender} = \text{Female}) = 50.3$

$P(\text{Hyperlipidemia} = \text{YES} | \text{Hyperlipidemia} = \text{YES}) = 49.7$

$P(\text{Hyperlipidemia} = \text{YES} | \text{Hyperlipidemia} = \text{NO}) = 50.3$