Question 3

Example 1:
Let C = central obesity (co), Y = hyperlipidemia (hl), and A = gender (gd).

By VE of of Medical BN, we have:
P(C = yes | Y = yes) = 0.788 = P(C = yes | Y = yes, A = female).

So separation is here. However,
P(Y = yes | C = yes) = 0.479 != P(Y = yes | C = yes, A = female) = 0.438

Example 2:
Let Y = gender (gd), C = hyperlipidemia (hl), and A = vegetable (vg).

By VE of Medical BN, we have:
P(Y = female | C = yes) = 0.571 = P(Y = female | C = yes, A = >500g/d).

So sufficiency is here. However,
P(C = yes | Y = female) != P(C = yes | Y = female, A = >500g/d).