

$$P(A=1 | E=1, C=1) = \frac{P(E=1, C=1 | A=1) \cdot P(A=1)}{P(E=1, C=1)} = 0.3$$

$$P(E=1, C=1 | A=1) = \frac{P(E=1, C=1 \cap A=1)}{P(A=1)} = \frac{0.7 \cdot 0.3}{0.3} = 0.7$$

$$P(A=1) = 0.3$$

$$P(E=1) = 0.1 \text{ if } D=0 + 0.1 \text{ if } D=1$$

$$P(C=1) = 0.7$$

$$P(C=0) = 0.3$$

$$P(D=1) = 0.4 \text{ if } C=0 + 0.2 \text{ if } C=1$$

$$P(D=1) = 0 + 0.14 + 0.12 = 0.26$$

$$P(D=0) = 1 - 0.26 = 0.74$$

$$P(E=1) = 0.1 \cdot 0.74 + 0.1 \cdot 0.26 = 0.1$$

$$P(E=0) = 1 - 0.1 = 0.9$$

$$P(A=1 | E=1, C=1) = 0.3 \cdot 0.1 \cdot 0.7 = 0.021$$