

$$P(\text{fo}) = .15$$

$$P(\text{bp}) = .01$$

family-out (fo)

bowel-problem (bp)

light-on (lo)

dog-out (do)

hear-bark(hb)

$$P(\text{do} \mid \text{fo bp}) = .99$$

$$P(\text{do} \mid \text{fo } \neg \text{bp}) = .90$$

$$P(\text{do} \mid \neg \text{fo bp}) = .97$$

$$P(\text{do} \mid \neg \text{fo } \neg \text{bp}) = .3$$

$$P(\text{lo} \mid \text{fo}) = .6$$

$$P(\text{lo} \mid \neg \text{fo}) = .05$$

$$P(\text{hb} \mid \text{do}) = .7$$

$$P(\text{hb} \mid \neg \text{do}) = .01$$