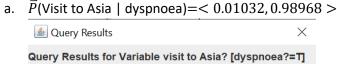
CECS 451 Assignment 6

Ivy Nguyen

Feb. 23, 2022

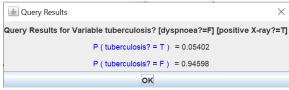
Write answers the following questions:



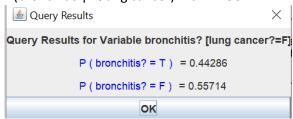
P (visit to Asia? = T) = 0.01032 P (visit to Asia? = F) = 0.98968

OK

b. \vec{P} (Tuberculosis | positive X-ray, ¬dyspnoea)=< 0.05402, 0.94598 >



c. $P(bronchitis \mid \neg lung cancer) = 0.44286$



d. $P(\neg \text{lung cancer} \mid \text{tuberculosis}, \neg \text{dyspnoea}) = 0.95143$

```
Query Results 

Query Results for Variable lung cancer? [tuberculosis?=T] [dyspnoea?=F]

P(lung cancer? = T) = 0.04857

P(lung cancer? = F) = 0.95143

OK
```

e. \vec{P} (Smoking | ¬positive X-ray, bronchitis, ¬visit to asia)=< 0.64541, 0.35459 >