Stage 6 – Bayes' Theorem

(6a) Put all your probabilities together in the formula for Bayes' theorem and calculate the posterior probability of each hypothesis given the evidence you have.

  ○ NB: Calculations are tedious to do by hand. Instead, use *Genie* and output a Bayesian network with probabilities for each hypothesis.[1]

(6b) What is the most probable hypothesis given the evidence?

(6c) Does this result agree with your initial guess in (1f) and your assessment in (4e)?

(6d) Does this result differ from the prior probability in (3b)? Why is that?

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[1]You can download the academic version of Genie at *www.bayesfusion.com*. Since Genie works on Windows, if you are using Mac OS, you should first download PlayOnMac at *www.playonmac.com*.