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Title

Some help needed for the example probability computation for the Bayesian network f

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Paragraph

As per the structure of the Bayesian network should not the following probability be computed as shown below?

Joint Probability that Harry has 1 copy of the gene and does not have the trait
 $= P(\text{Trait}=\text{False} \mid \text{Gene_Harray}), P(\text{Gene_Harray} \mid \text{Gene_James}, \text{Gene_Lily}). P(\text{Gene_James}). P(\text{Gene_Lily})$
 $= 0.44 * 0.9802 * 0.01 * 0.96$

Thanks in advance.

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