# L4 More About Interventions

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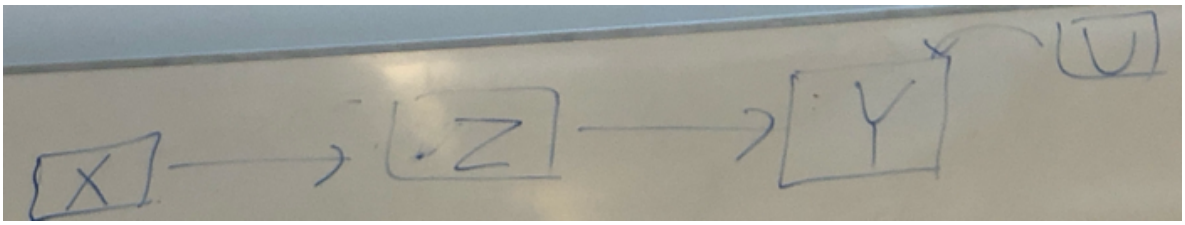


For any value of Z (if the value is fixed), the causal effect will tell us the causal effect on Y.
On the graph to be exactly right, we should remove the link from X to Z.
If we know the causal effect from X on Z and Z on Y, we should know the causal effect from X on Y.

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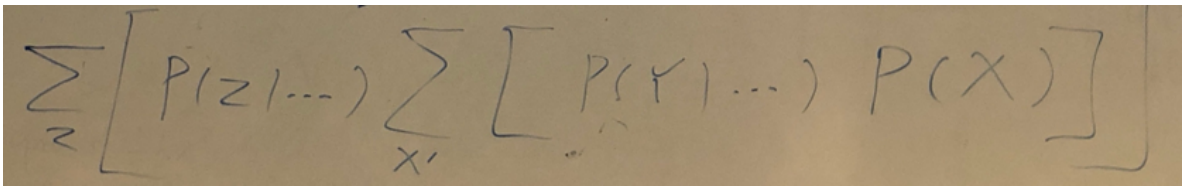

A little explanation on the full formula; parenthesis explicitly shown to explain the x vs x_prim.

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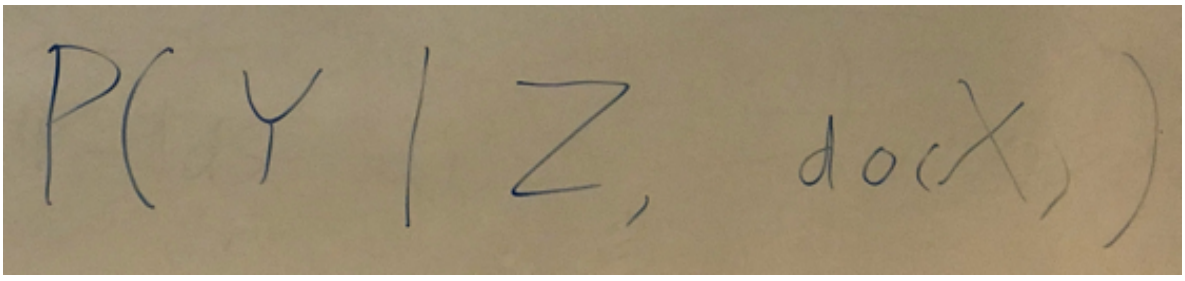
**The z-specific effect**
We have a probability of Y, given some conditional set Z and some interventions (X) we do.
Whenever the “do” appears, we must have fixed the graph. Only then we can start talking about the probabilities.



For example:
Y = effect on the patient
Z = age of the patient
X = treatment given