

Direct Effect Multiplicative Inference Algorithm



Purpose

AI sourced from medical records

Dependent Predictors



Key Idea

**Total = Direct +
Indirect**



Knowledgebase

**Co-occurrence +
Temporal Order**

Step 1

Temporal Ordering

Step 2

Total Effects



Step 3

Remove indirect effects



Step 4

Multiply direct effects



**Re-anchor to prior
Calibration**



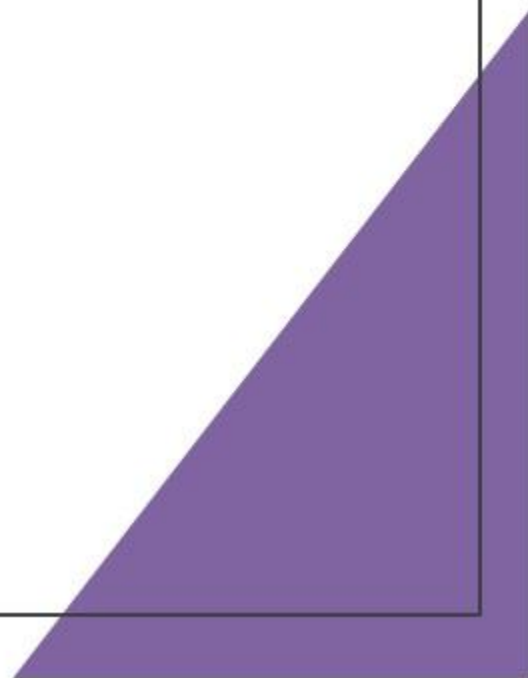
**Probability of
outcome**

OUTPUT

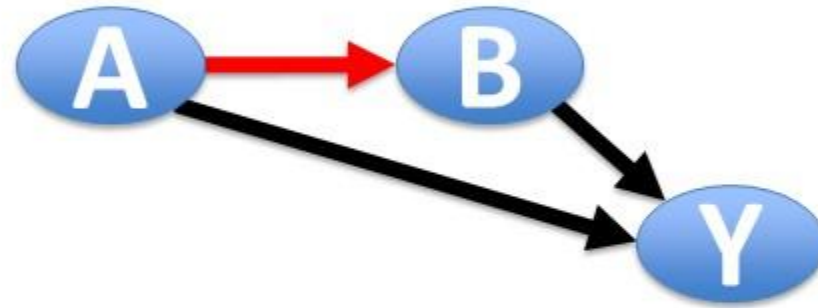
Pipeline

Order → Effects →

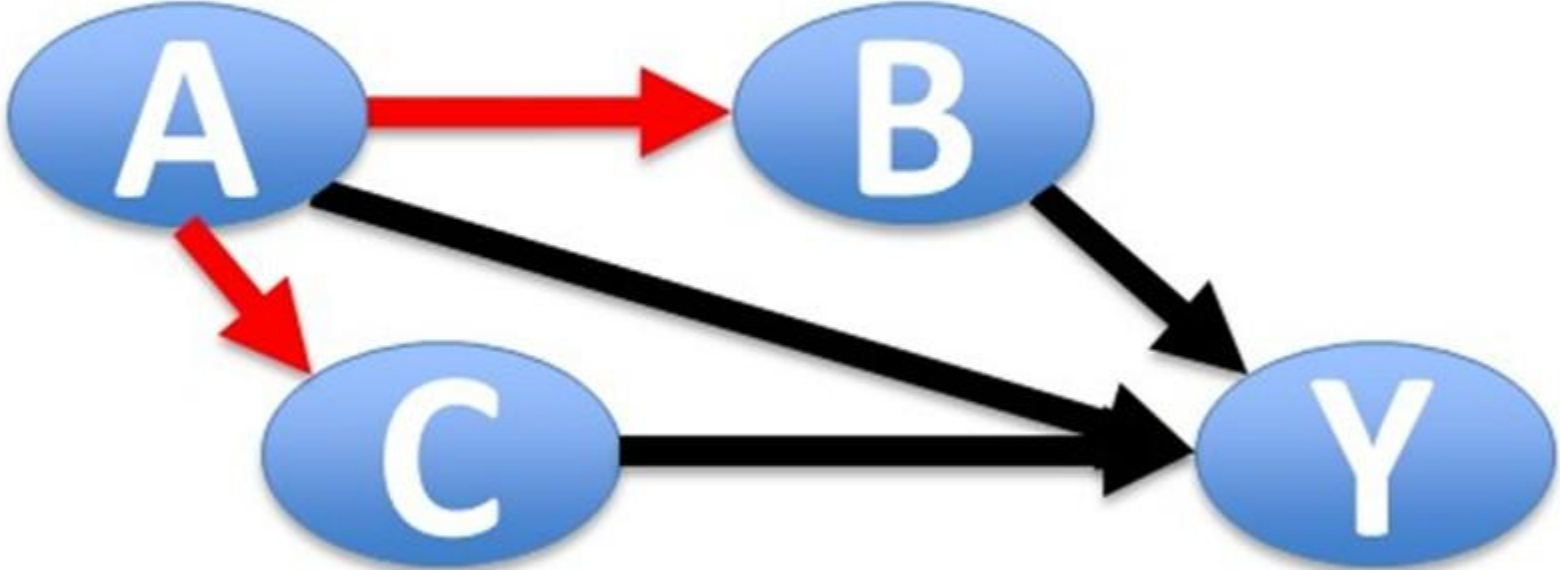
Decompose → Multiply



Decomposition DAG



Decomposition DAG





**Predicting Next
Mediator**

AI Reasoning