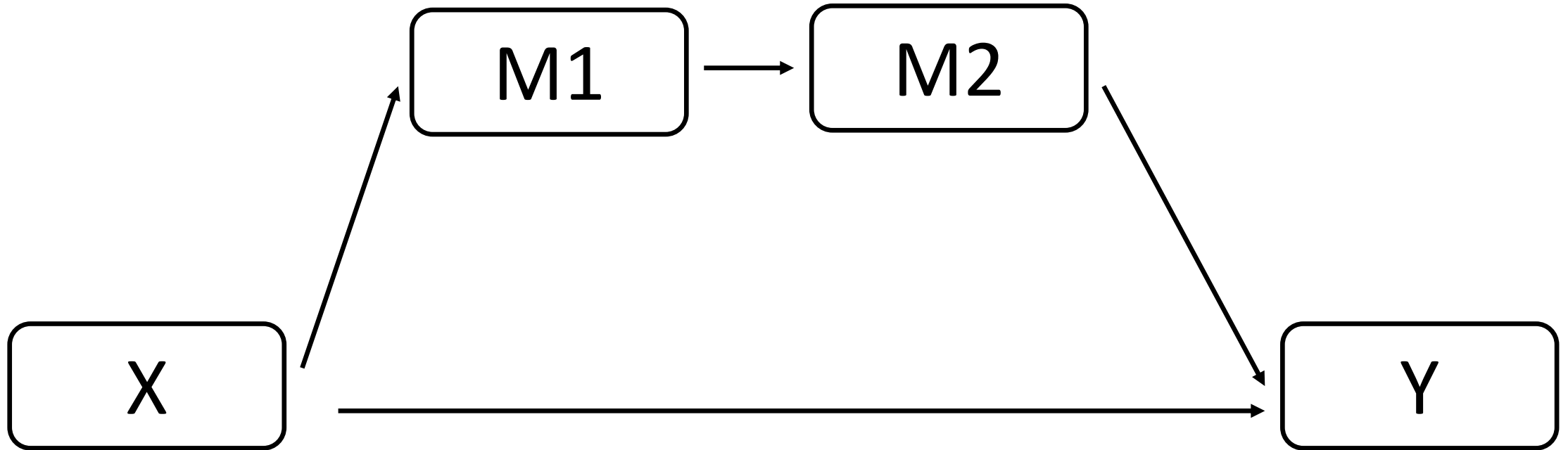# Serial Mediation Analysis
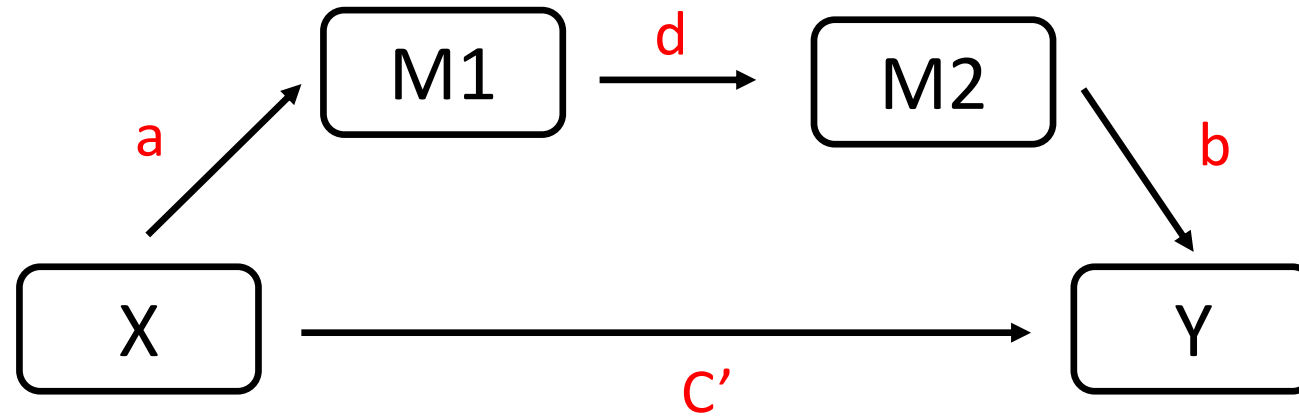
M1 → M2

X → Y

Disclaimer:

This video tutorial is not peer-reviewed and the correctness and quality of the information and R code presented in this tutorial are not guaranteed.
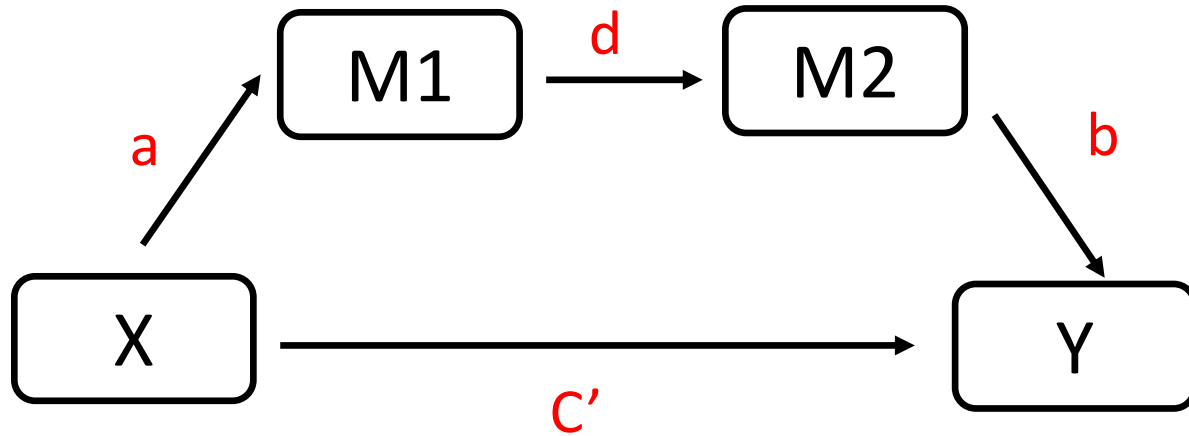
Notes:

1. This pdf is part of a YouTube tutorial: https://youtu.be/tDKD54Uv6RM

2. This pdf is for your own personal use only. Please do not distribute further!

Notes: The author accepts no responsibility for the topicality, correctness, completeness, or quality of the information provided.

How to calculate the mediation effect?

$$a \times d \times b$$

How to calculate the mediation effect?
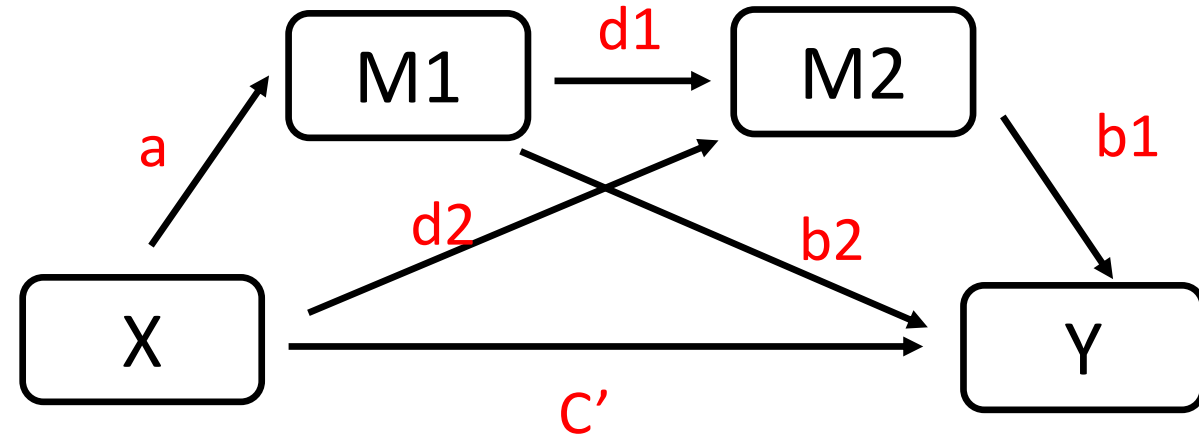
M1 = a X

M2 = $d1$ M1+ d2 X

Y = $b1$ M2+ b2 M1 + c' X

$$a \times d \times b$$

$$a \times d1 \times b1$$

Steps of Bootstrap serial mediation analysis

Step 1

Draw a sample from the data

5000 times /
5000 indirect effects

Step 2

Calculate all 3 regressions, and compute the indirect effect

Calculating the 95% Confidence Interval