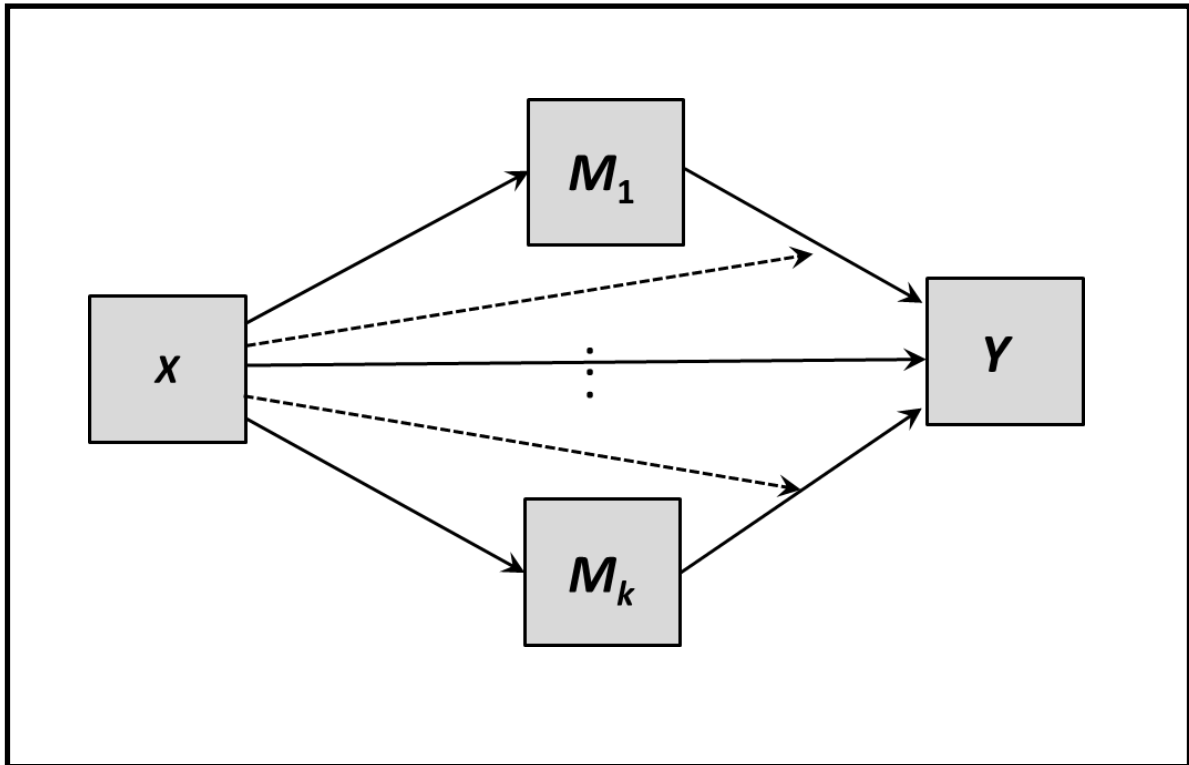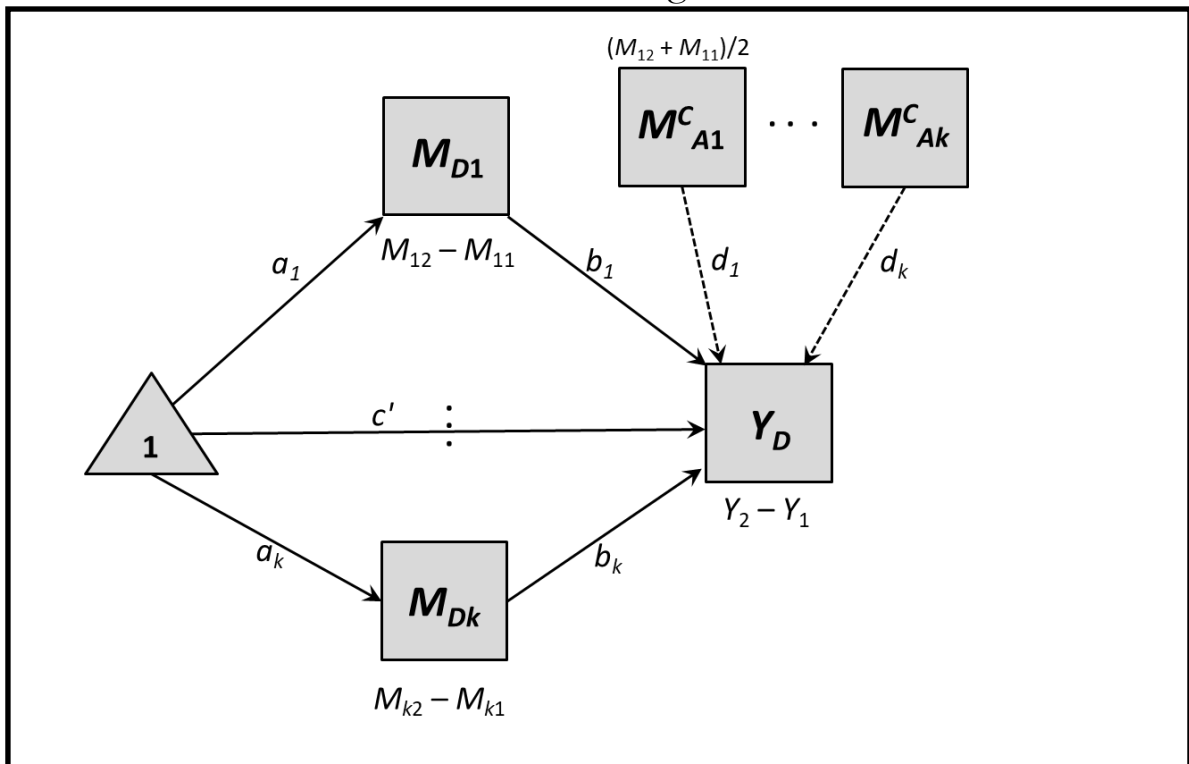## Model 1 Simple and Parallel Mediation

Conceptual Diagram
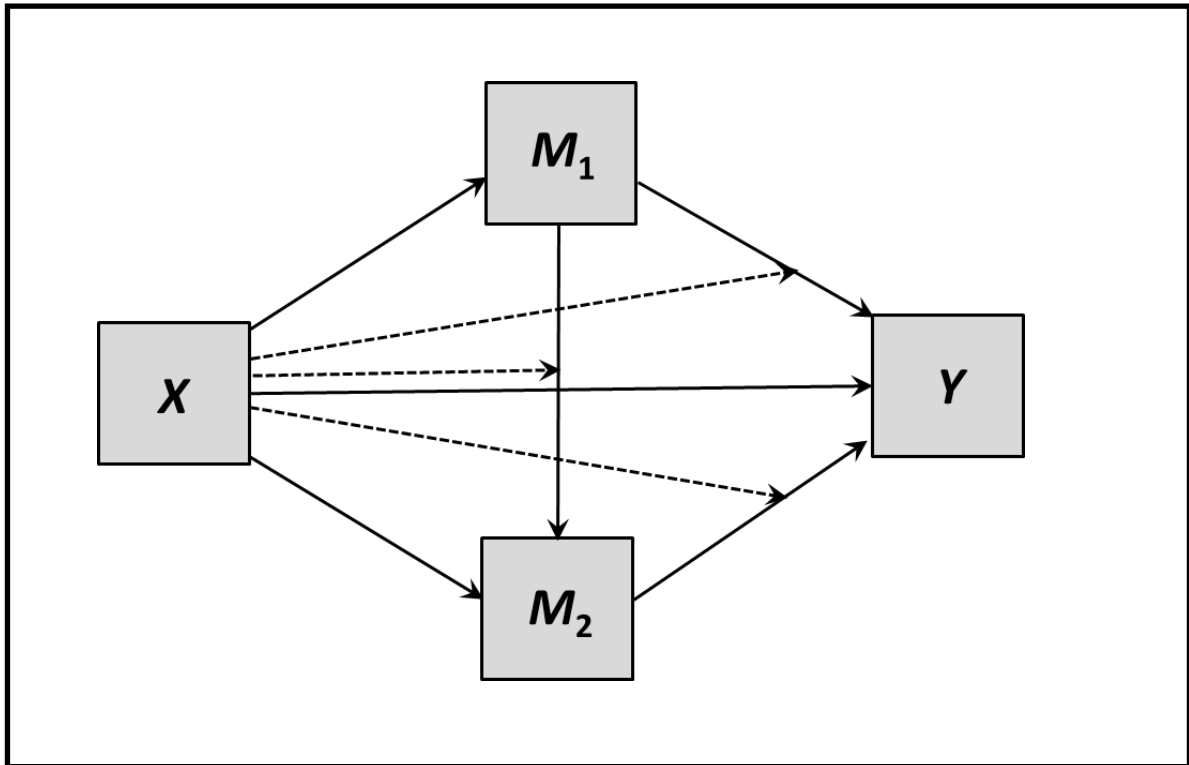

Statistical Diagram

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
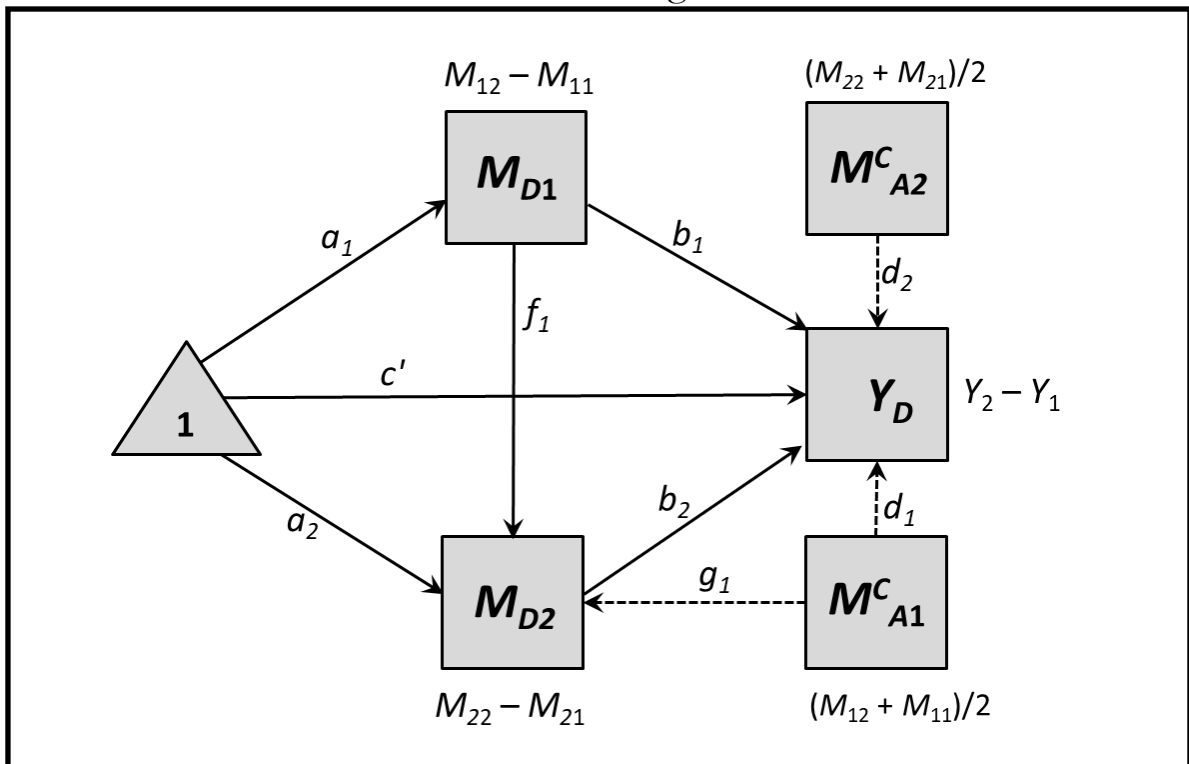
[c] Indicates grand mean centered

Dashed lines can be removed from model by using `xmint = 0`.

Model 1 Serial Mediation (Serial = 1)
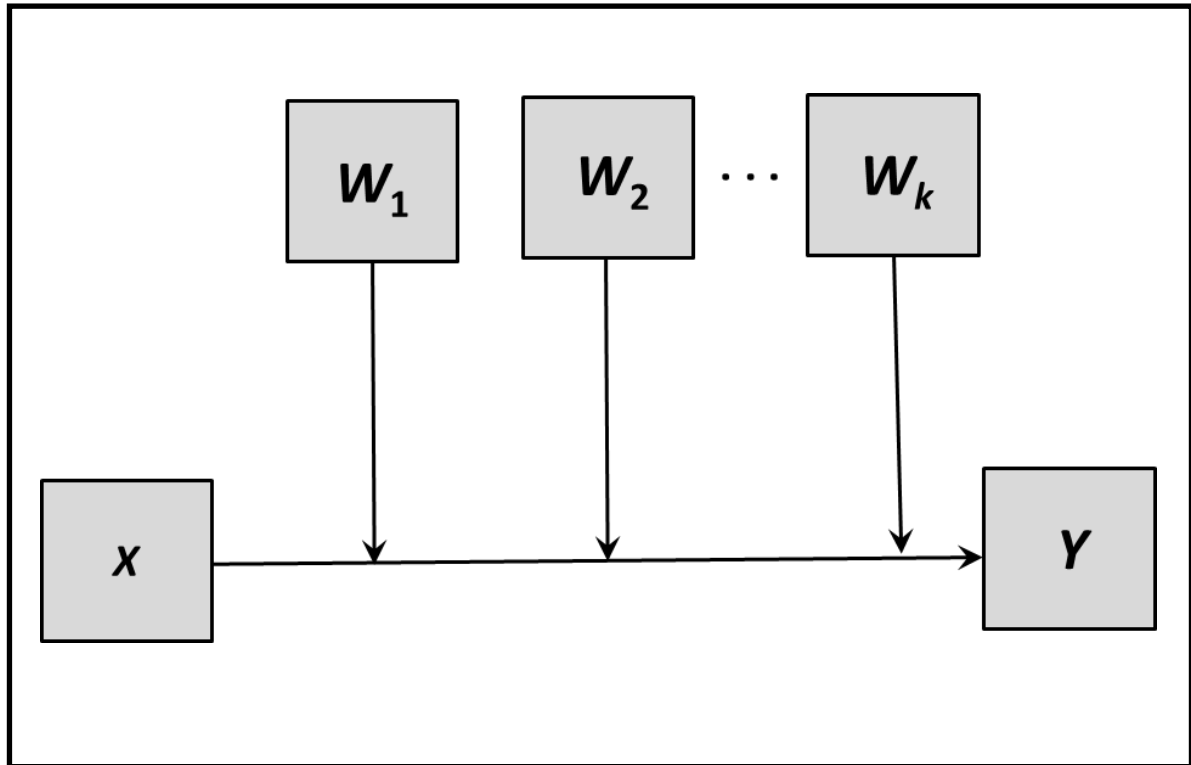
Conceptual Diagram

Statistical Diagram

Models can have up to 5 pairs of mediators

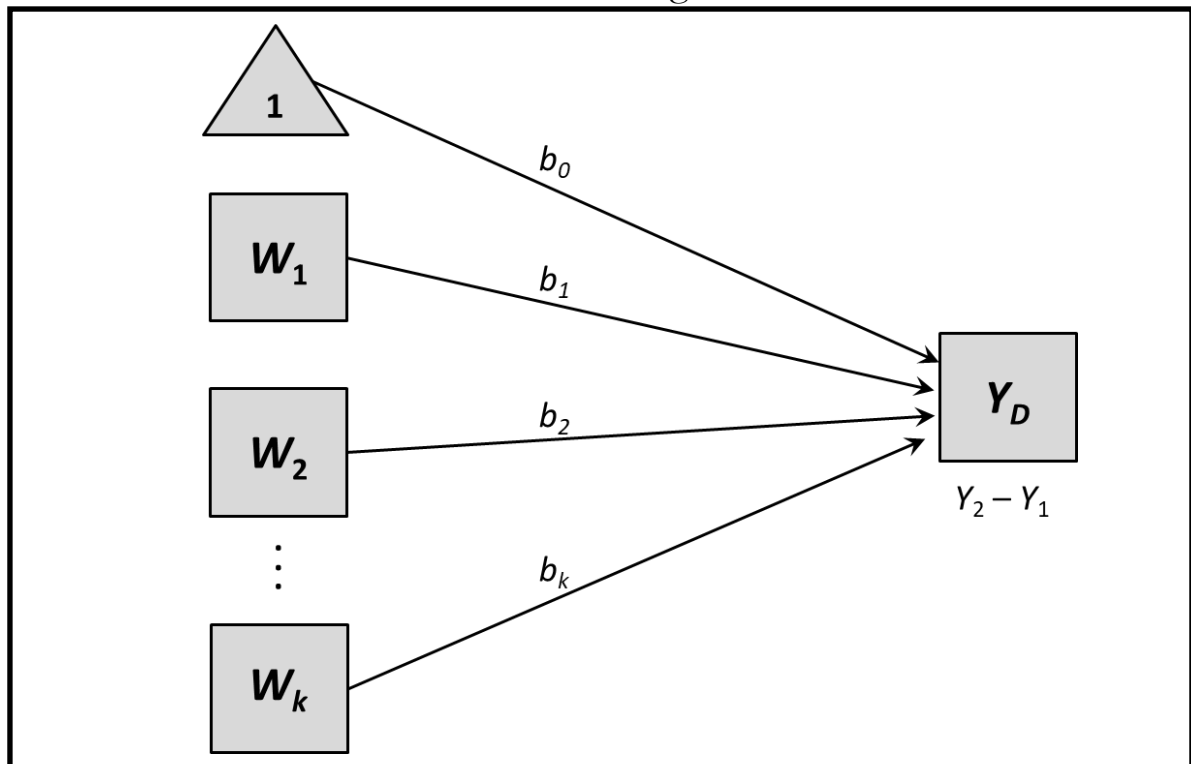[c] Indicates grand mean centered

Dashed lines can be removed from model by using `xmint = 0`.

Model 2 Additive Moderation
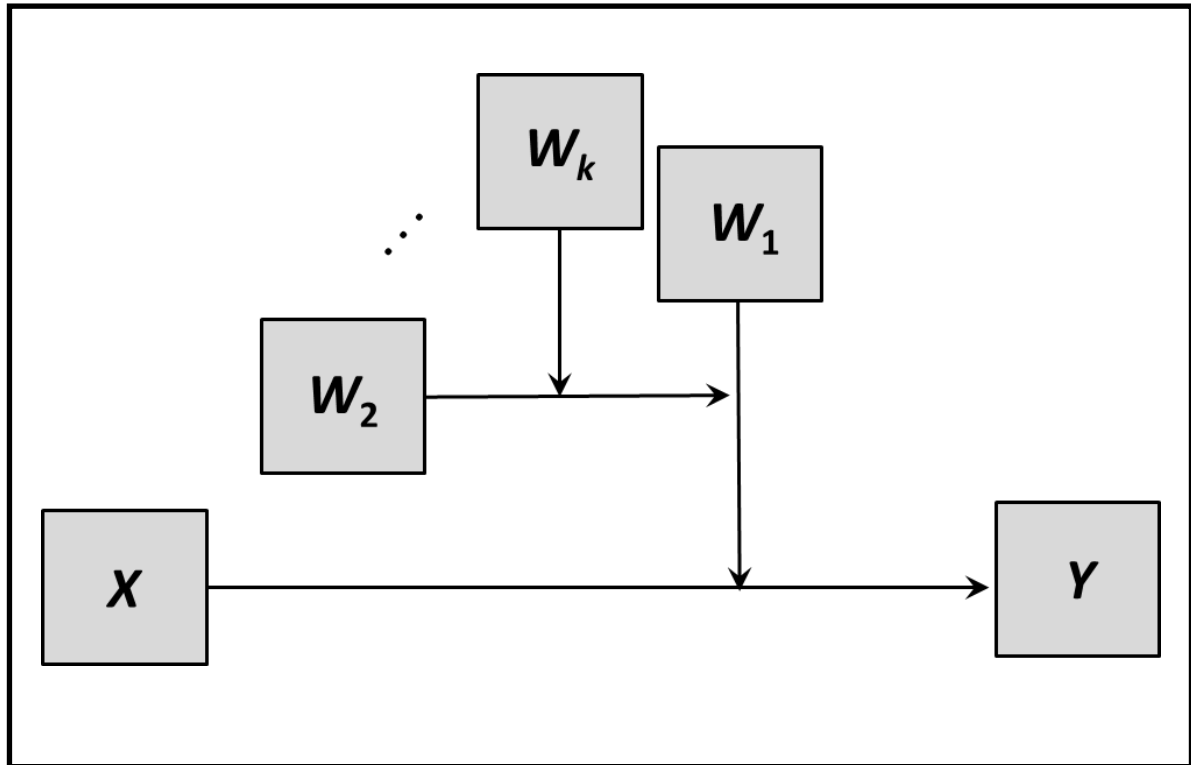
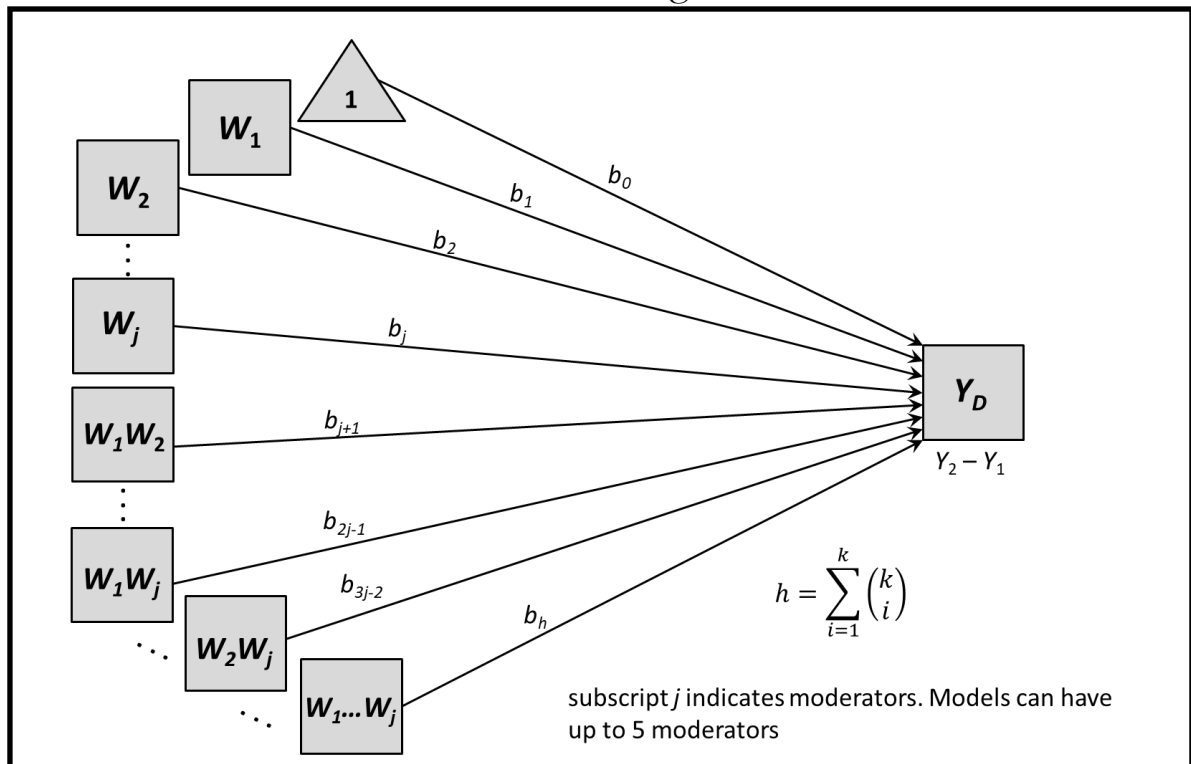### Conceptual Diagram

Statistical Diagram

Subscript k indicates moderators. Model can have up to 5 moderators

Model 3 Multiplicative Moderation

Conceptual Diagram

Statistical Diagram

$$h = \sum_{i=1}^{k} \binom{k}{i}$$

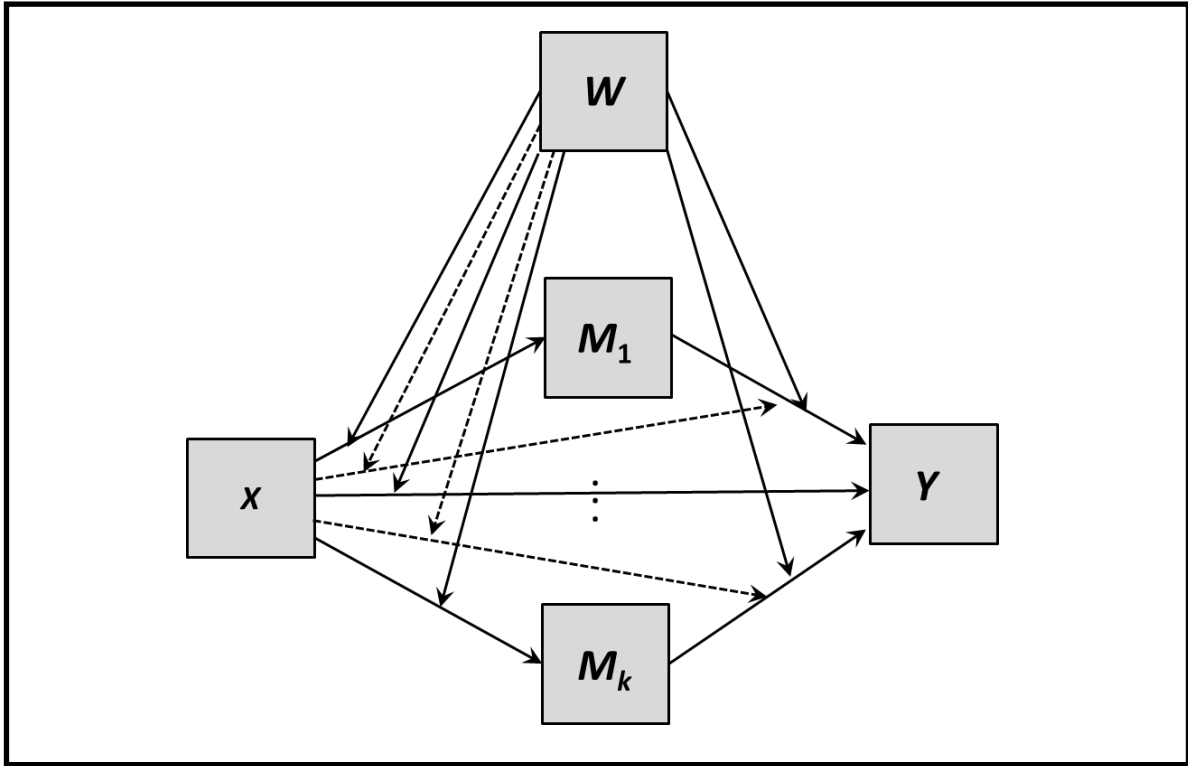subscript j indicates moderators. Models can have up to 5 moderators
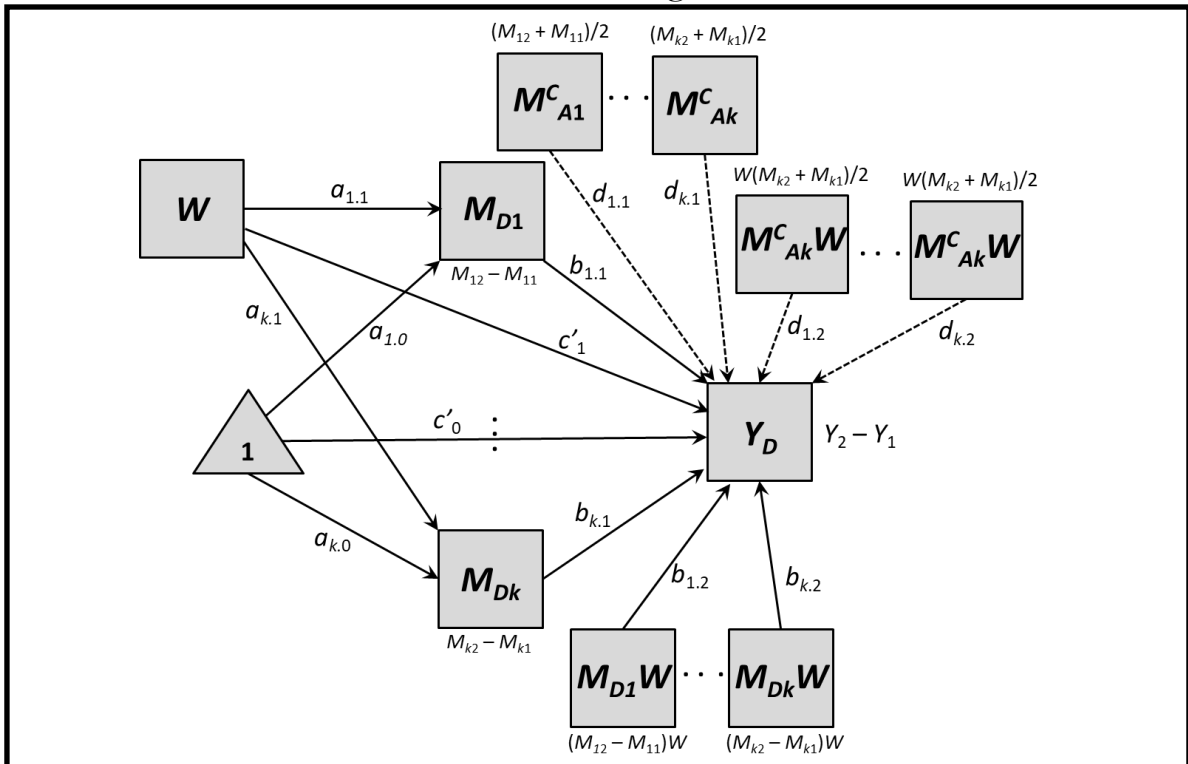
Subscript j indicates pairs of mediators. Model can have up to 5 moderators

Model 4 Moderated Mediation

Conceptual Diagram

Statistical Diagram

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators

[c] Indicates grand mean centered

Dashed lines can be removed from model by using `xmint = 0`.

Model 5 Moderated Mediation

Conceptual Diagram

W

M_1

X

$\vdots$

Y

M_k

Statistical Diagram

$(M_{12} + M_{11})/2$ $(M_{k2} + M_{k1})/2$

M^C_{A1} $\cdots$ M^C_{Ak}

$W(M_{k2} + M_{k1})/2$ $W(M_{k2} + M_{k1})/2$

W $\xrightarrow{a_{1.1}}$ M_{D1}

$M^C_{Ak}W$ $\cdots$ $M^C_{Ak}W$

$a_{k.1}$

$a_{1.0}$

$M_{12} - M_{11}$

$b_{1.1}$

$d_{1.1}$ $d_{k.1}$

$d_{1.2}$ $d_{k.2}$

c' $\vdots$

1

Y_D $Y_2 - Y_1$

$a_{k.0}$

$b_{k.1}$

M_{Dk}

$b_{1.2}$ $b_{k.2}$

$M_{k2} - M_{k1}$

$M_{D1}W$ $\cdots$ $M_{Dk}W$
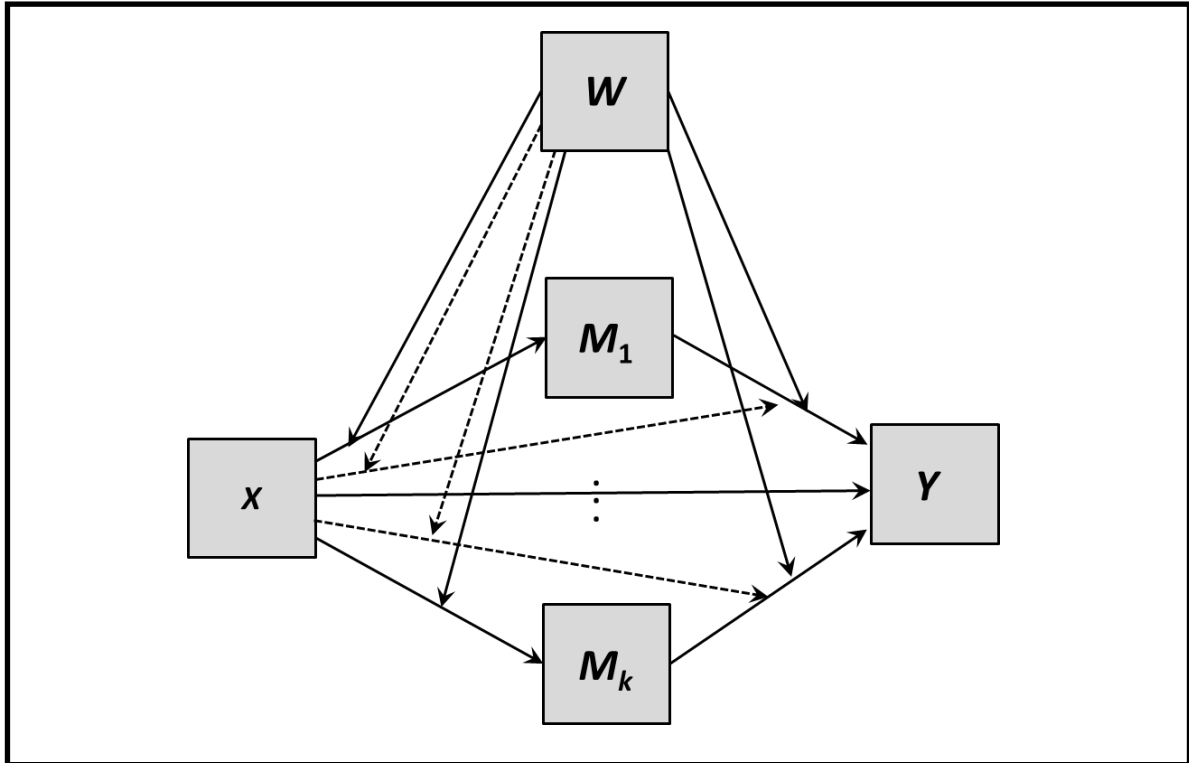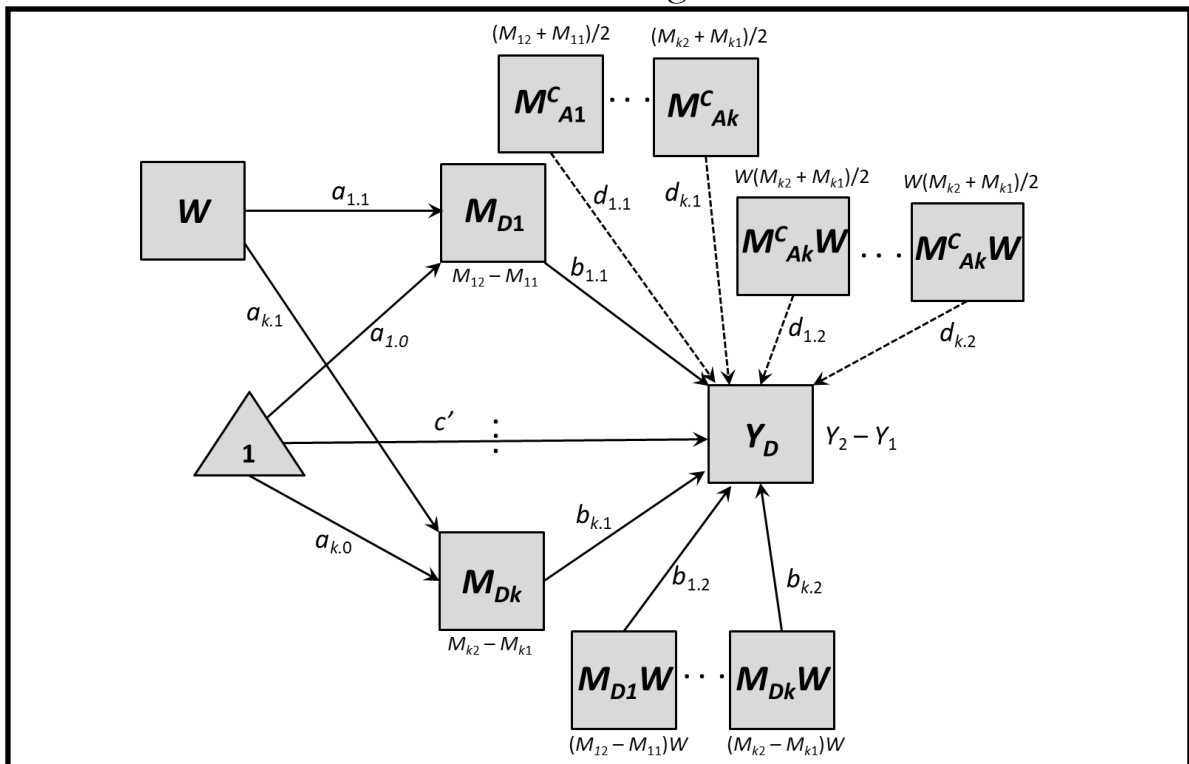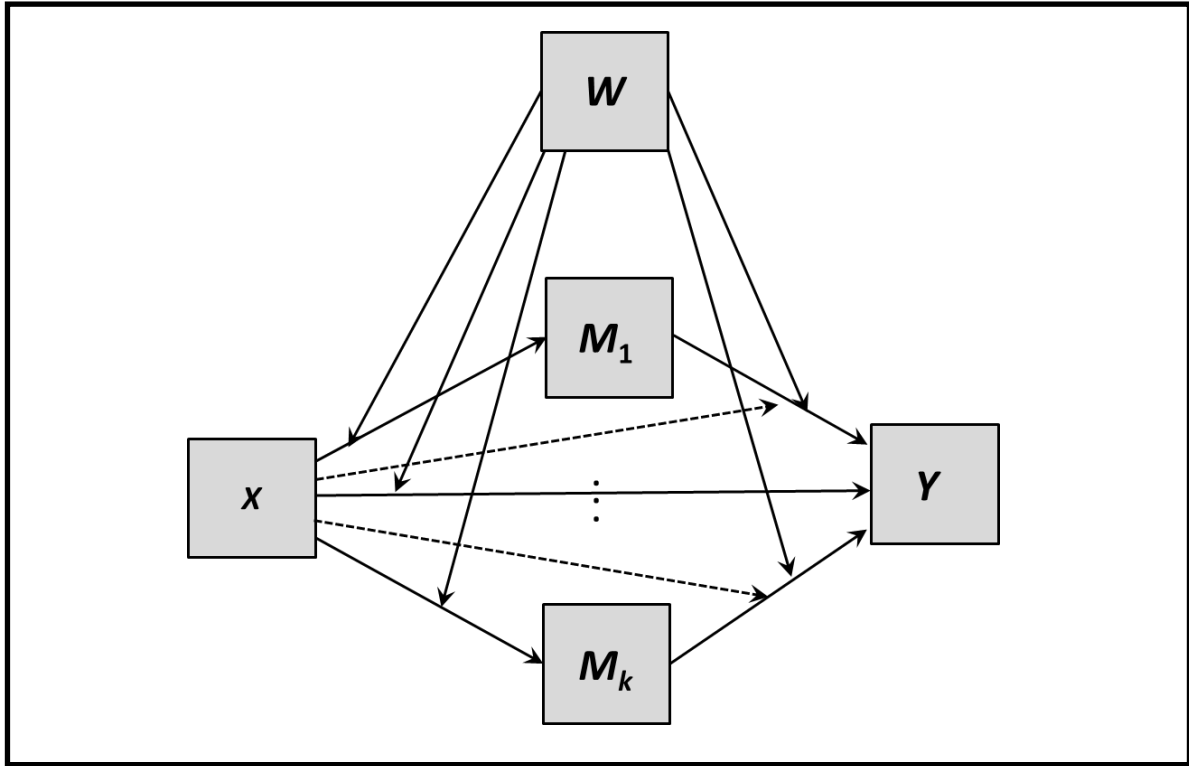
$(M_{12} - M_{11})W$ $(M_{k2} - M_{k1})W$

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
[c] Indicates grand mean centered
Dashed lines can be removed from model by using `xmint = 0`.

Model 6 Moderated Mediation

Conceptual Diagram

W

M_1

X Y

M_k

Statistical Diagram

$(M_{12} + M_{11})/2$ $(M_{k2} + M_{k1})/2$

M^{C}_{A1} $\cdots$ M^{C}_{Ak}

W $a_{1.1}$ M_{D1} d_1 d_k

$M_{12} - M_{11}$ $b_{1.1}$

$a_{k.1}$ $a_{1.0}$ c'_1

c'_0 Y_D $Y_2 - Y_1$

1

$a_{k.0}$ $b_{k.1}$

M_{Dk} $b_{1.2}$ $b_{k.2}$

$M_{k2} - M_{k1}$

$M_{D1}W$ $\cdots$ $M_{Dk}W$

$(M_{12} - M_{11})W$ $(M_{k2} - M_{k1})W$

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
^{c} Indicates grand mean centered
Dashed lines can be removed from model by using `xmint = 0`.

Model 7 Moderated Mediation

Conceptual Diagram

Statistical Diagram

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
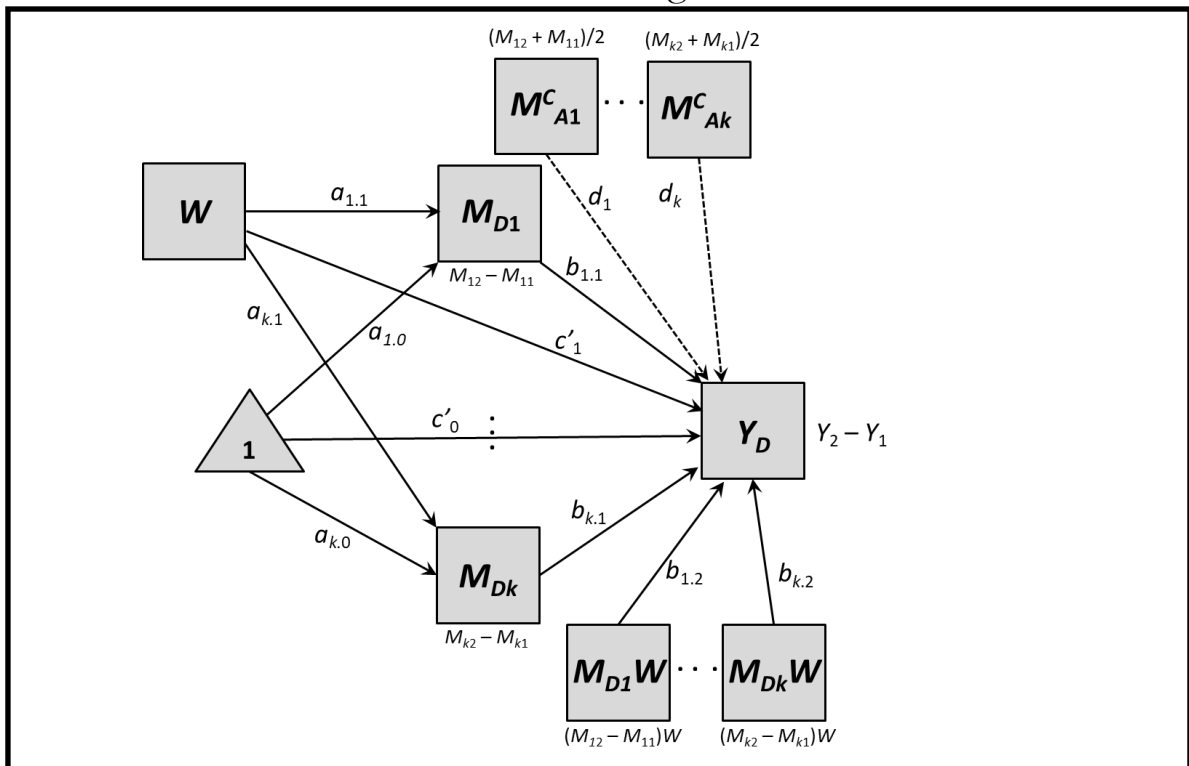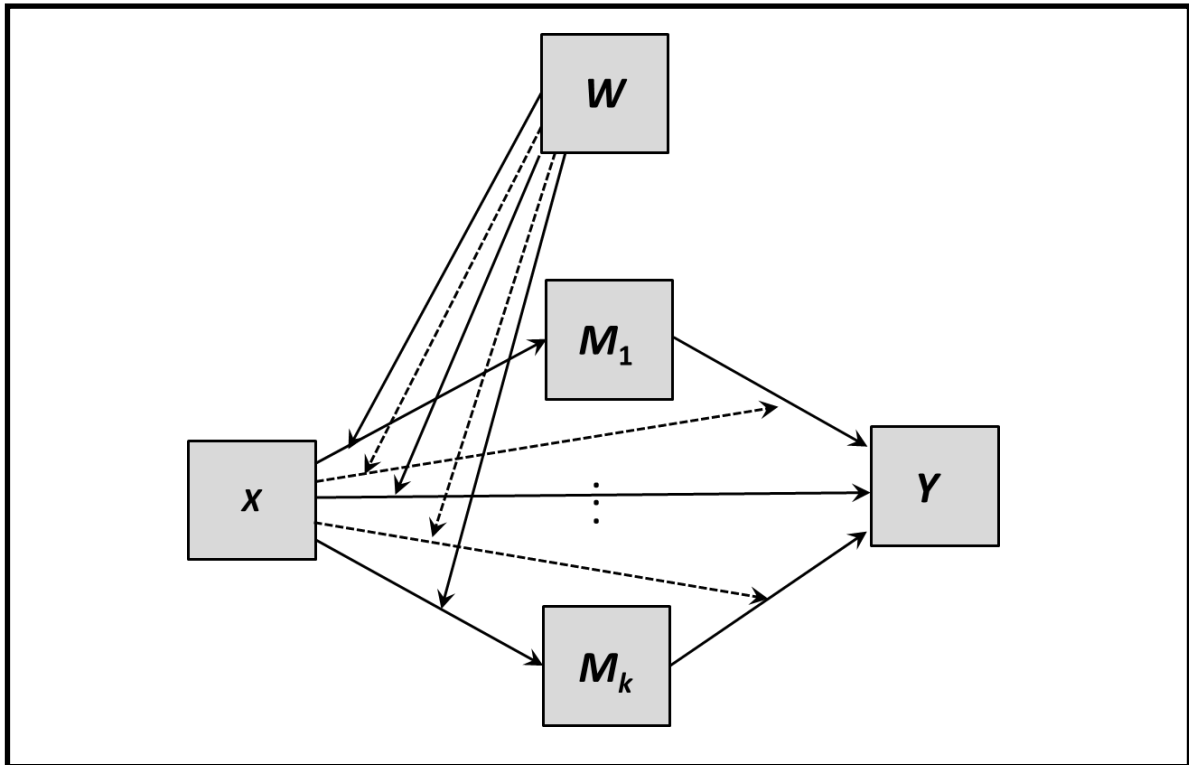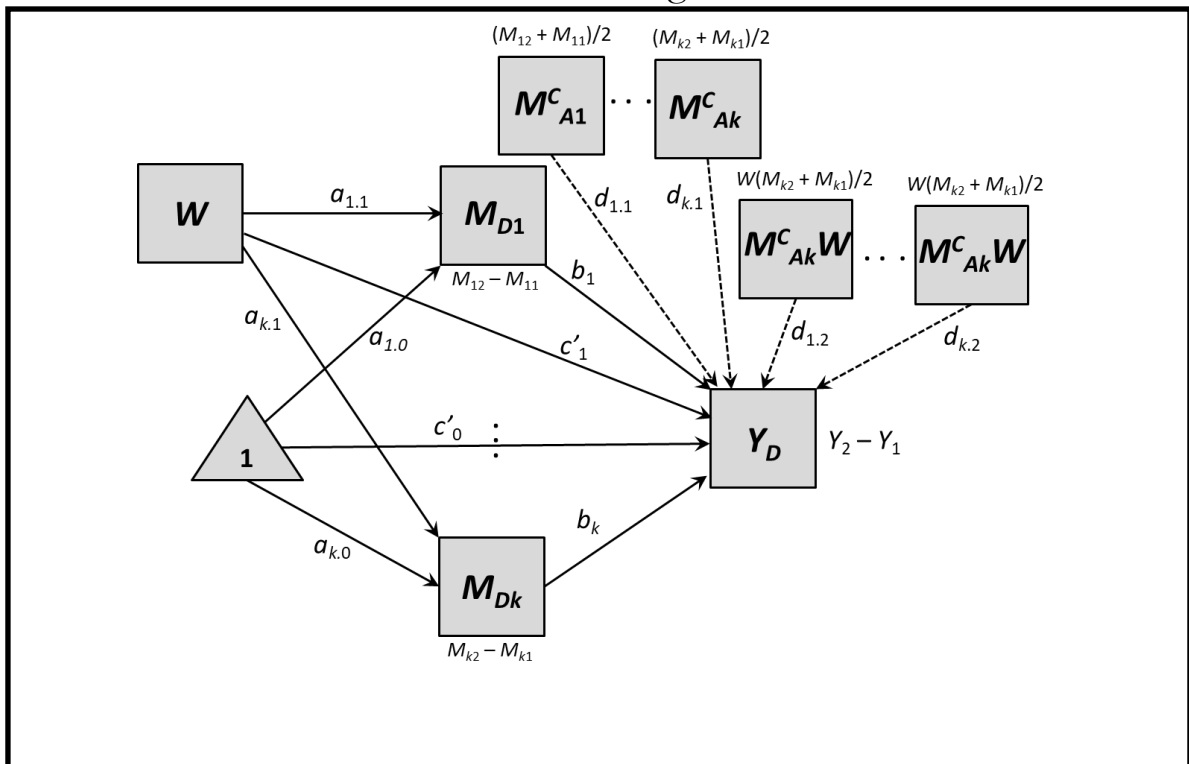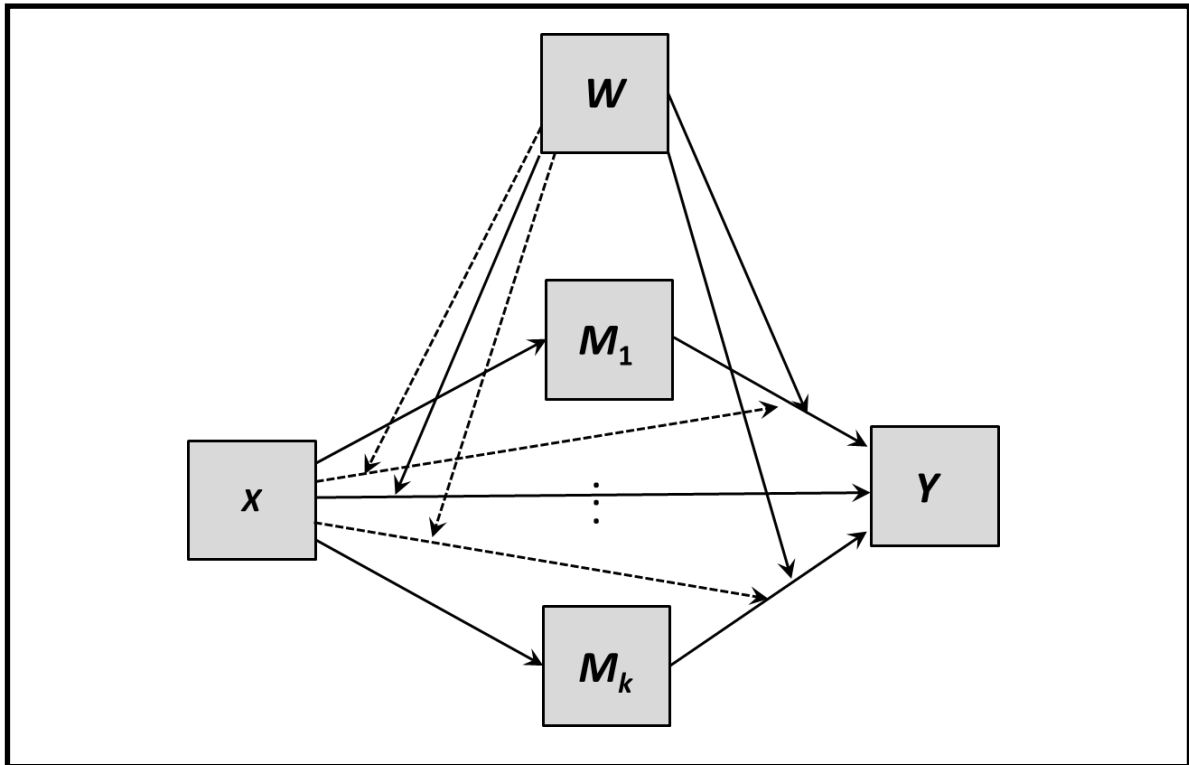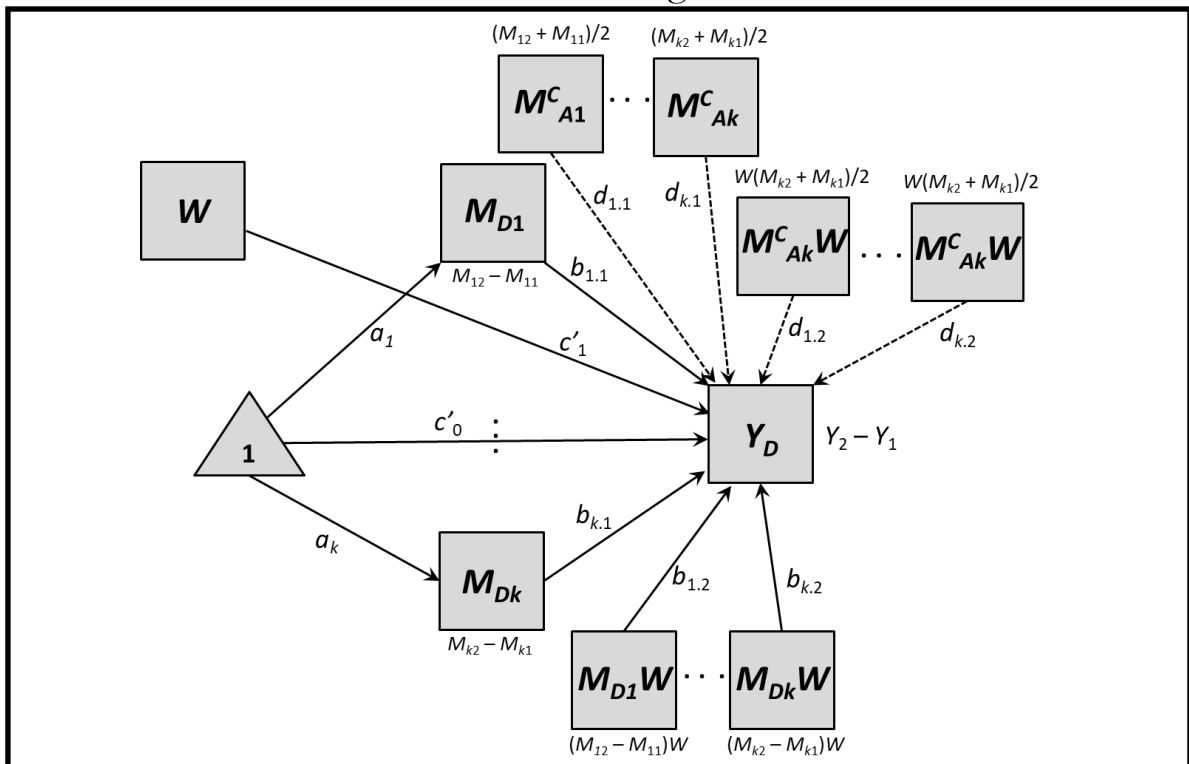[c] Indicates grand mean centered
Dashed lines can be removed from model by using `xmint = 0`.

Model 8 Moderated Mediation

Conceptual Diagram
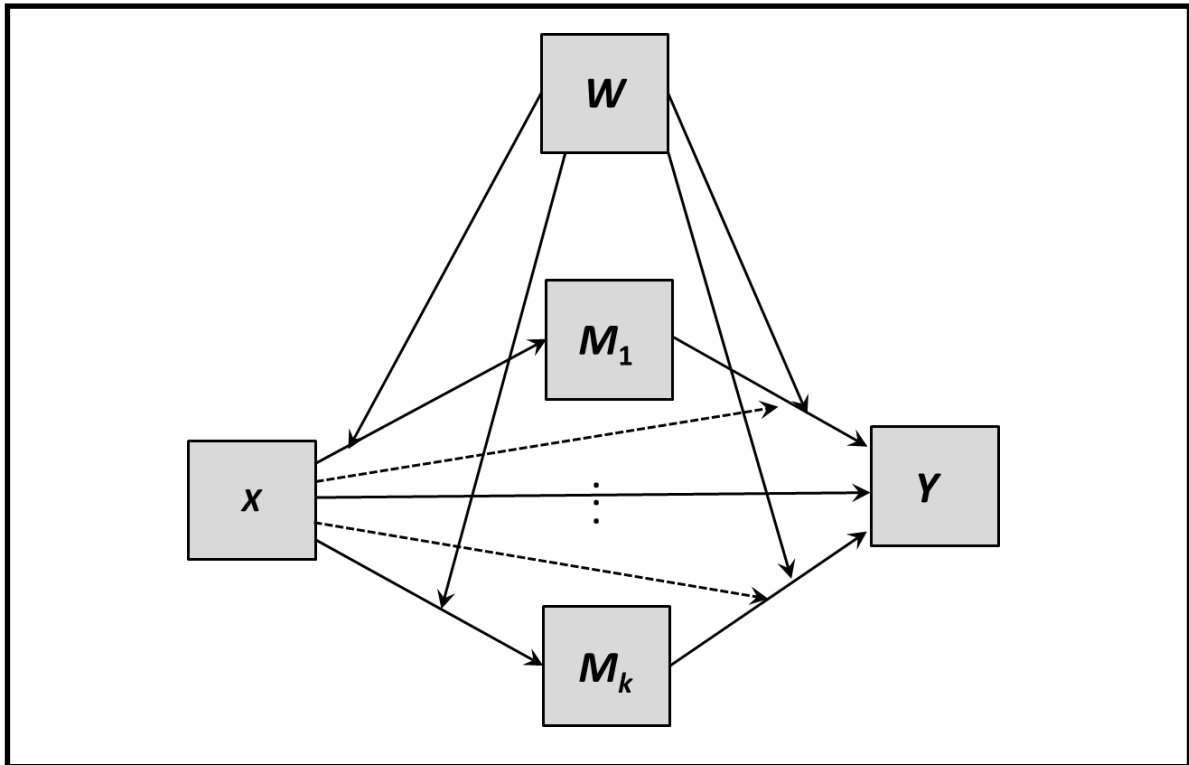

Statistical Diagram

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
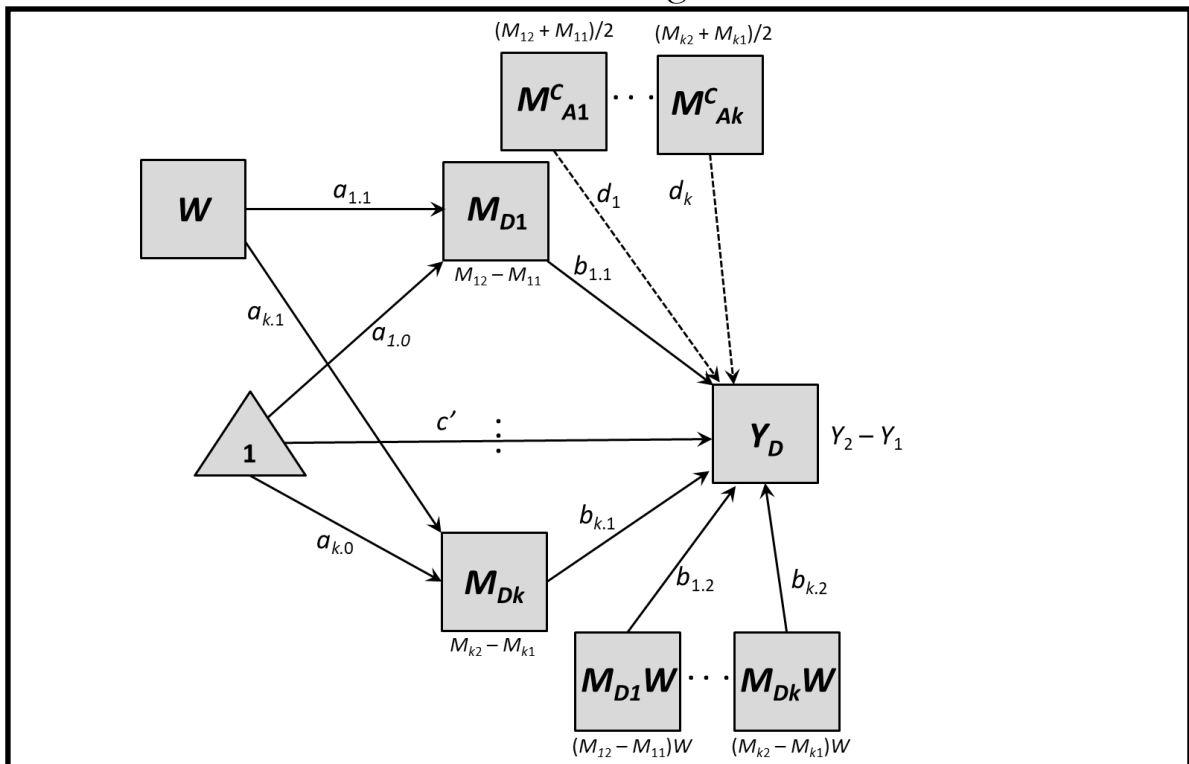^{c} Indicates grand mean centered
Dashed lines can be removed from model by using `xmint = 0`.

Model 9 Moderated Mediation

Conceptual Diagram

W

M_1

X

Y

$\vdots$

M_k

Statistical Diagram

$(M_{12} + M_{11})/2$ $(M_{k2} + M_{k1})/2$

M^C_{A1} $\cdots$ M^C_{Ak}

W

$a_{1.1}$

M_{D1}

d_1 d_k

$a_{k.1}$

$M_{12} - M_{11}$ $b_{1.1}$

$a_{1.0}$

1

c' $\vdots$

Y_D $Y_2 - Y_1$

$a_{k.0}$

$b_{k.1}$

M_{Dk}

$b_{1.2}$ $b_{k.2}$

$M_{k2} - M_{k1}$

$M_{D1}W$ $\cdots$ $M_{Dk}W$
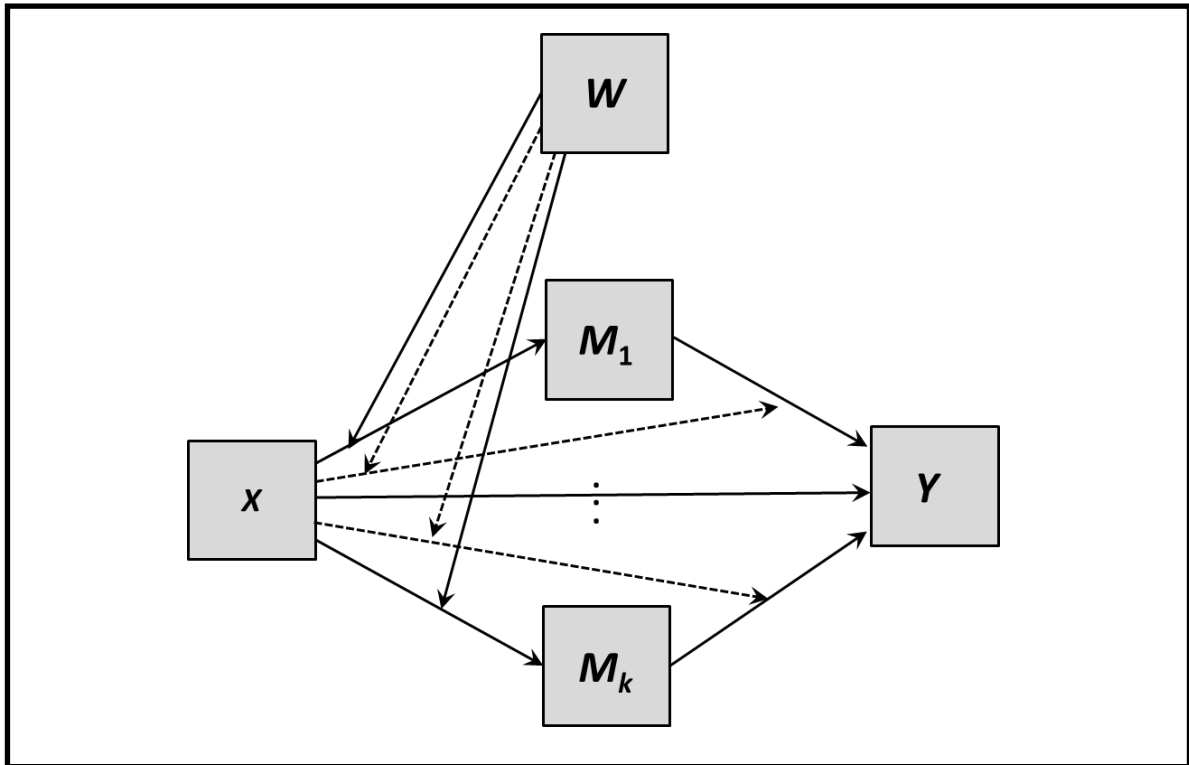
$(M_{12} - M_{11})W$ $(M_{k2} - M_{k1})W$

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
[c] Indicates grand mean centered
Dashed lines can be removed from model by using `xmint = 0`.

Model 10 Moderated Mediation

Conceptual Diagram

Statistical Diagram

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
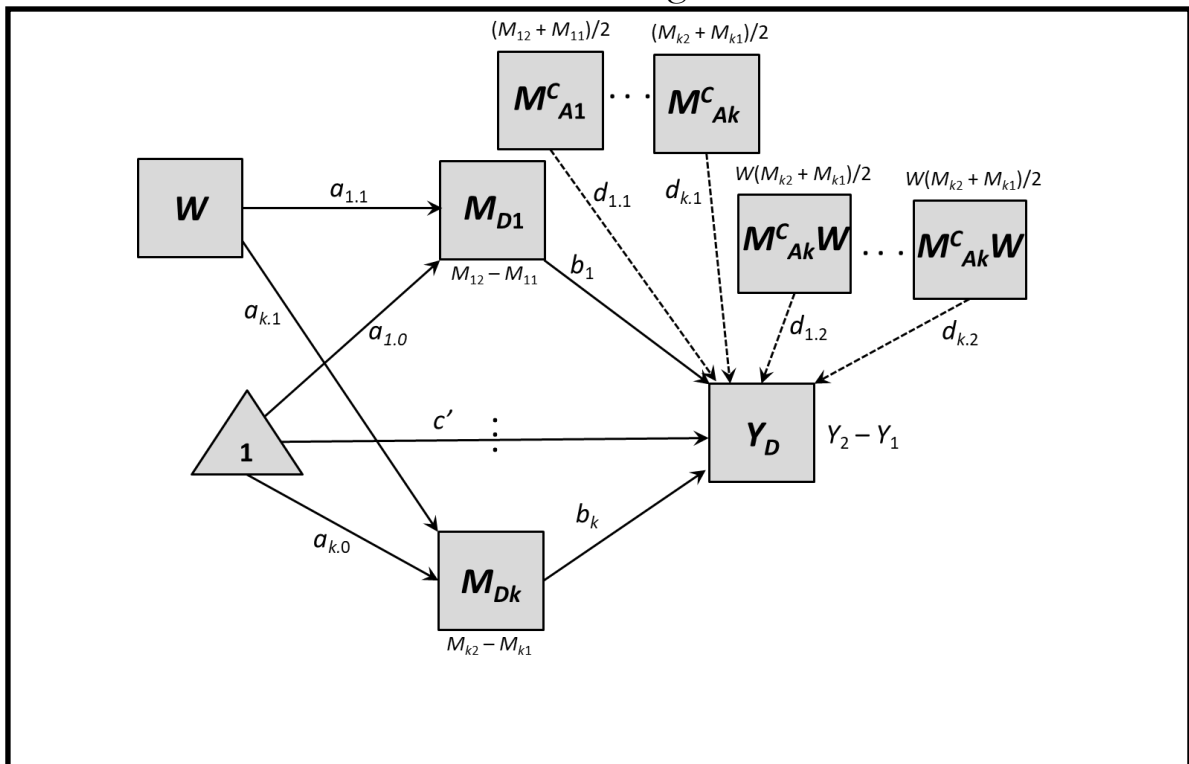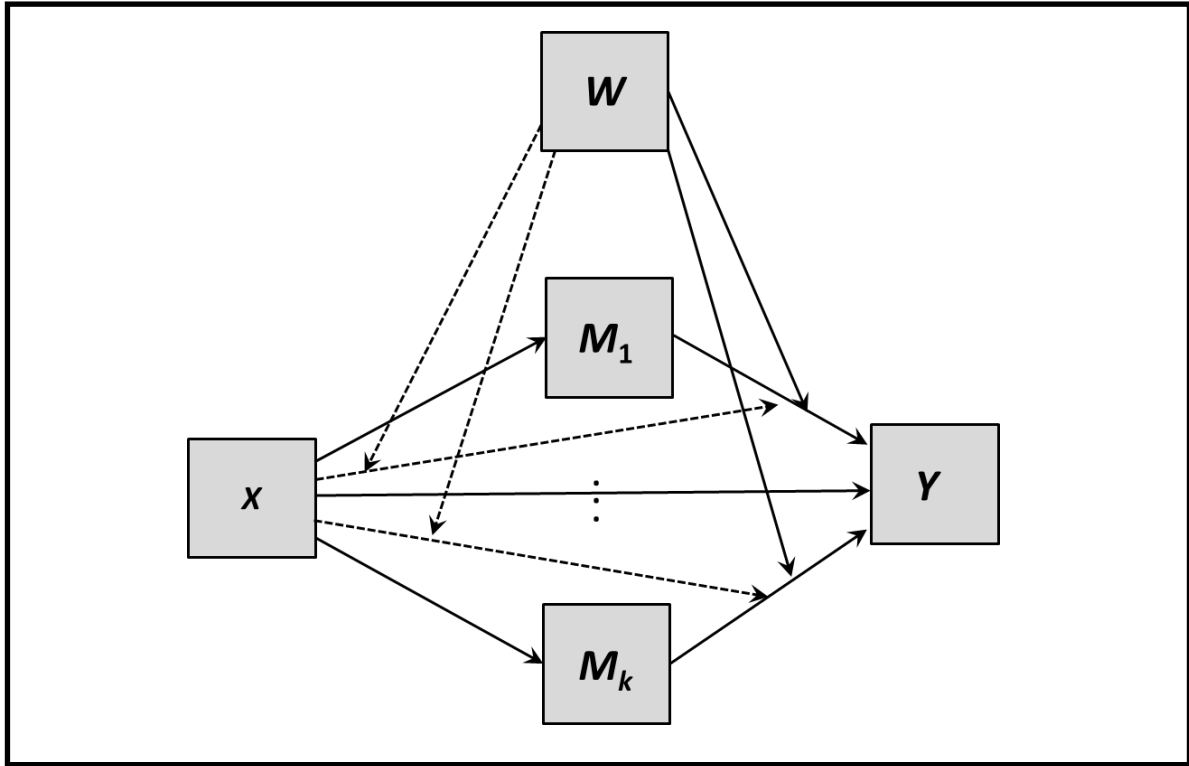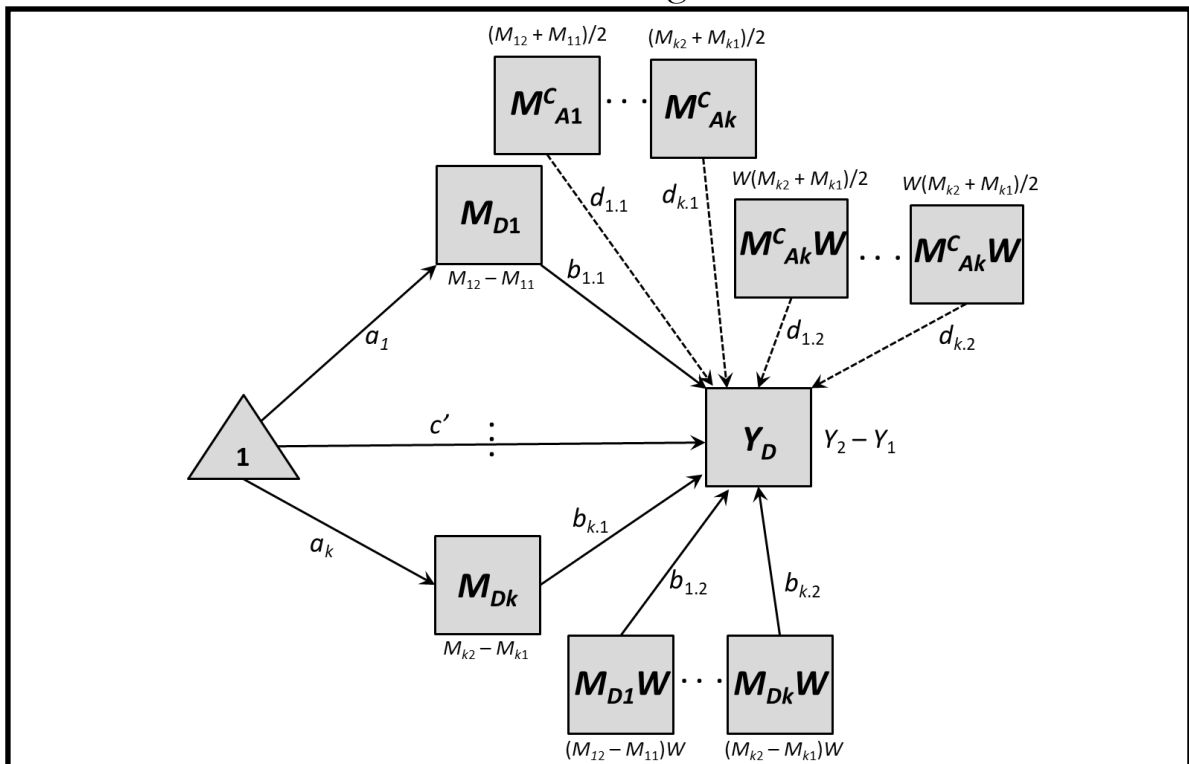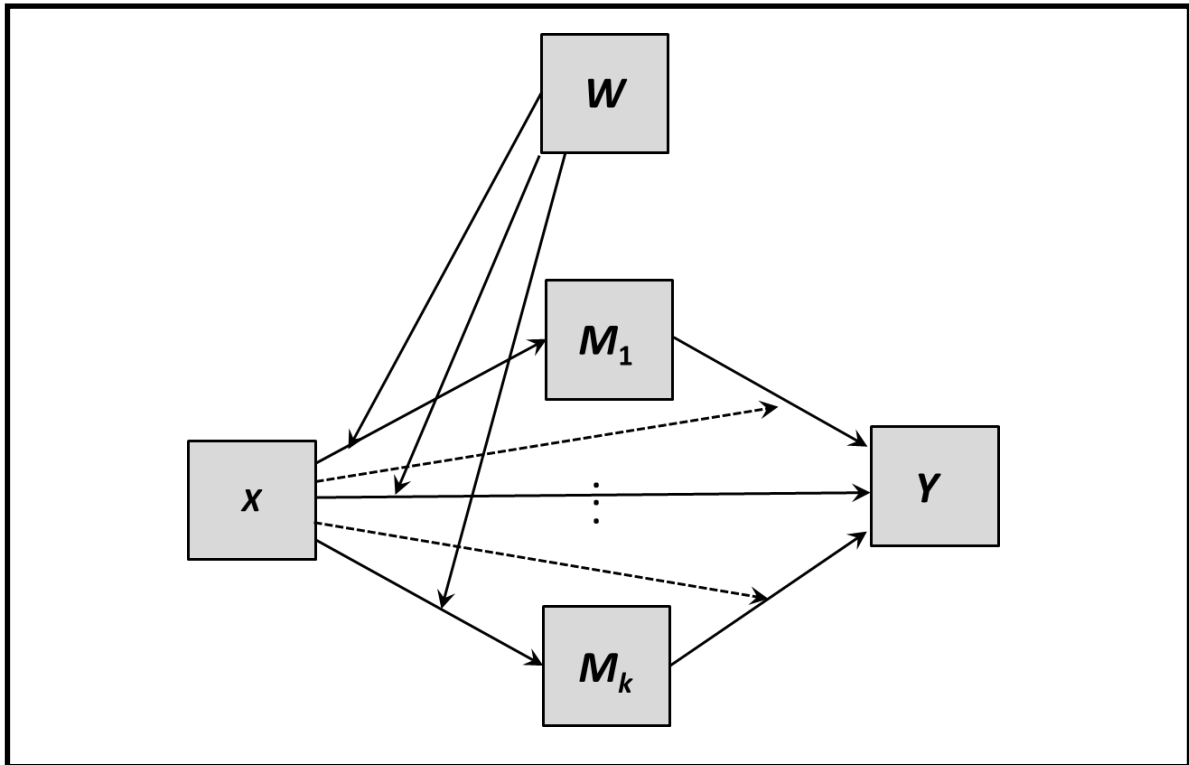[c] Indicates grand mean centered
Dashed lines can be removed from model by using `xmint = 0`.

Model 11 Moderated Mediation

Conceptual Diagram

Statistical Diagram

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
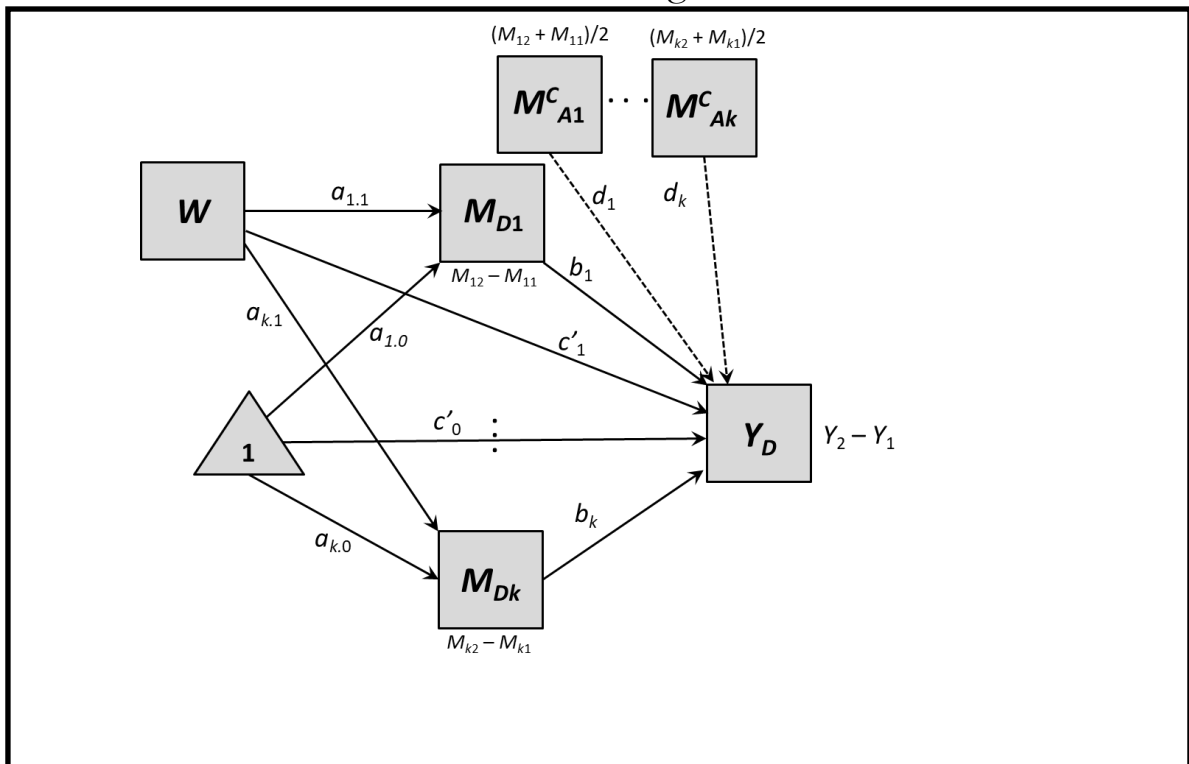
[c] Indicates grand mean centered

Dashed lines can be removed from model by using `xmint = 0`.

Model 12 Moderated Mediation

Conceptual Diagram

Statistical Diagram

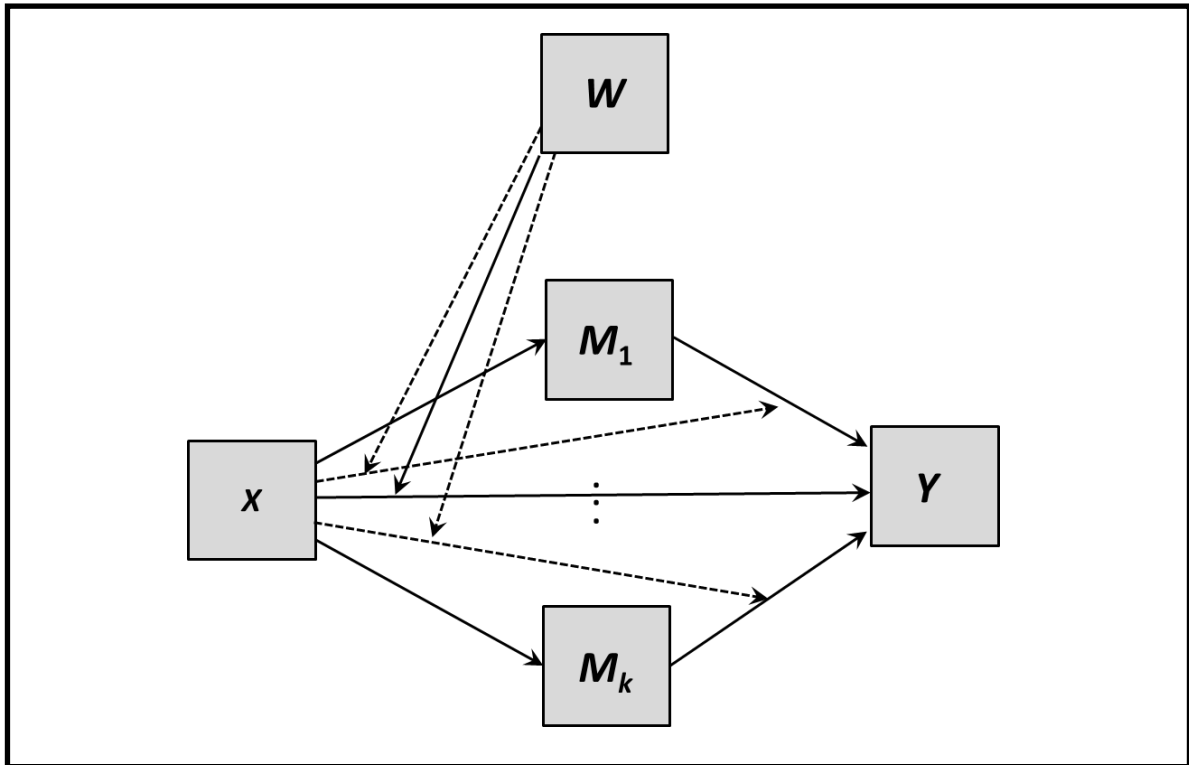Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
[c] Indicates grand mean centered
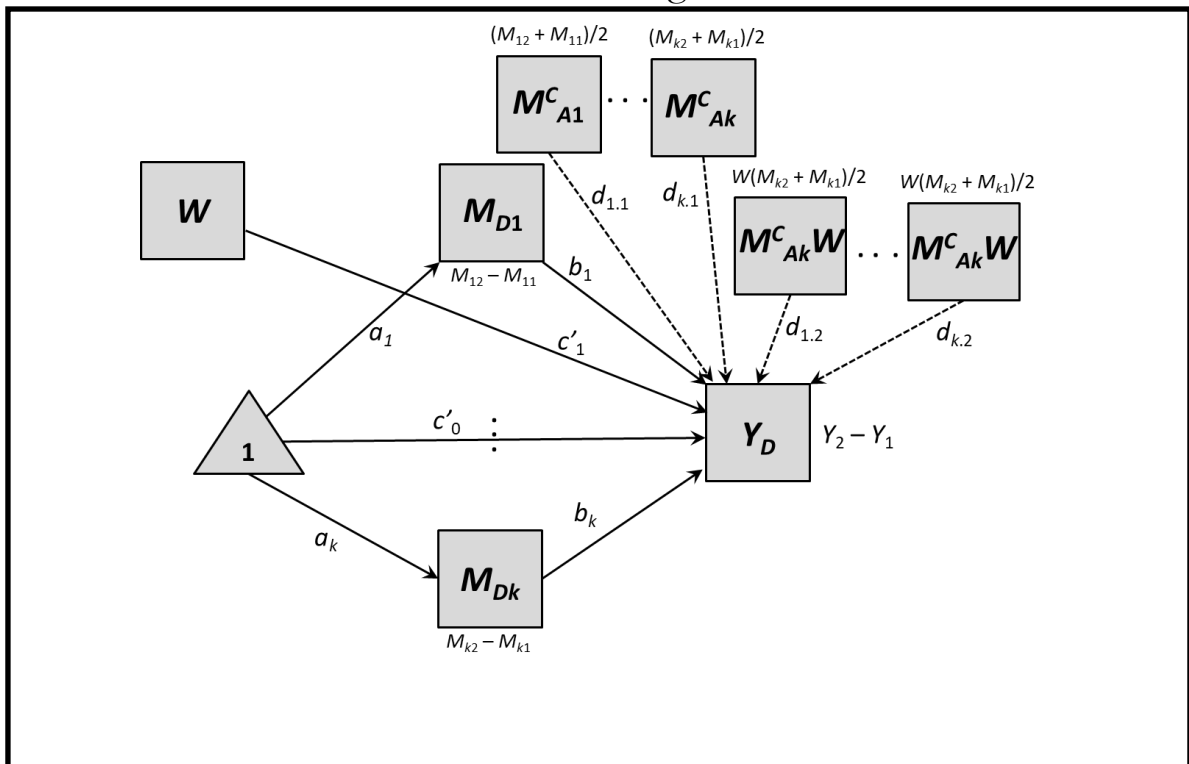Dashed lines can be removed from model by using `xmint = 0`.

Model 13 Moderated Mediation

Conceptual Diagram
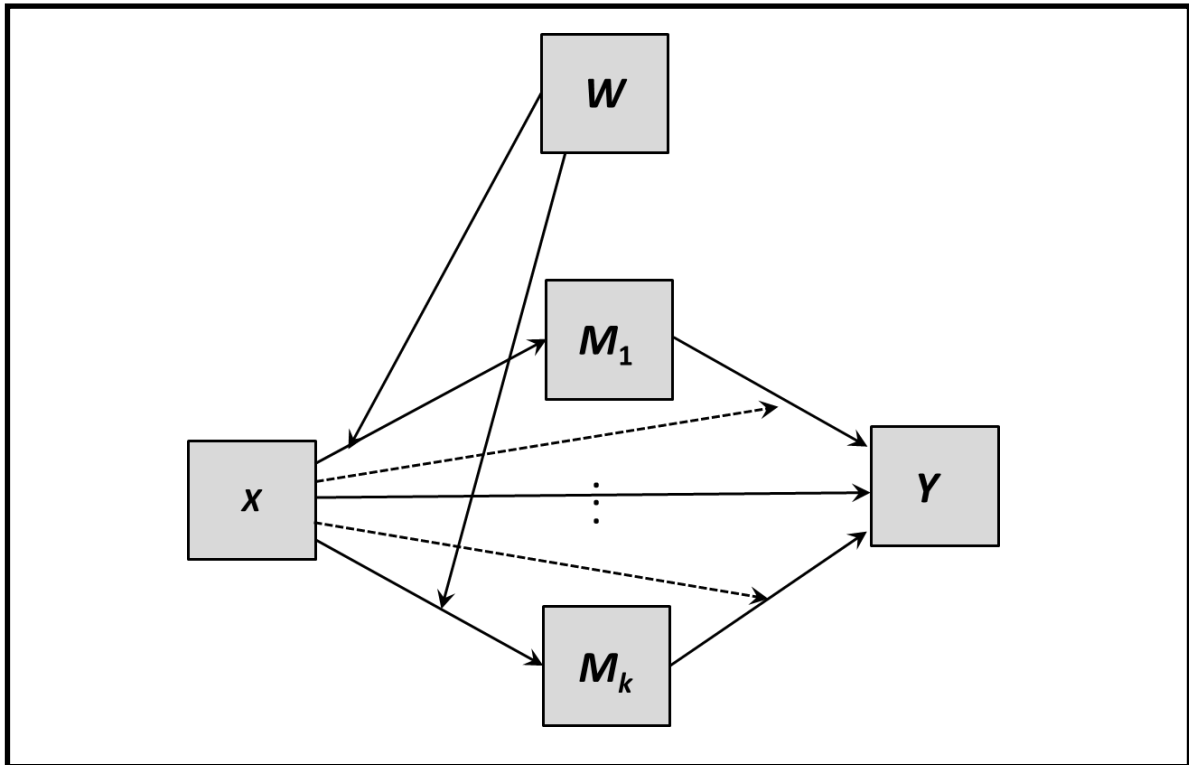

Statistical Diagram

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators

[c] Indicates grand mean centered

Dashed lines can be removed from model by using `xmint = 0`.

Model 14 Moderated Mediation

Conceptual Diagram

Statistical Diagram

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
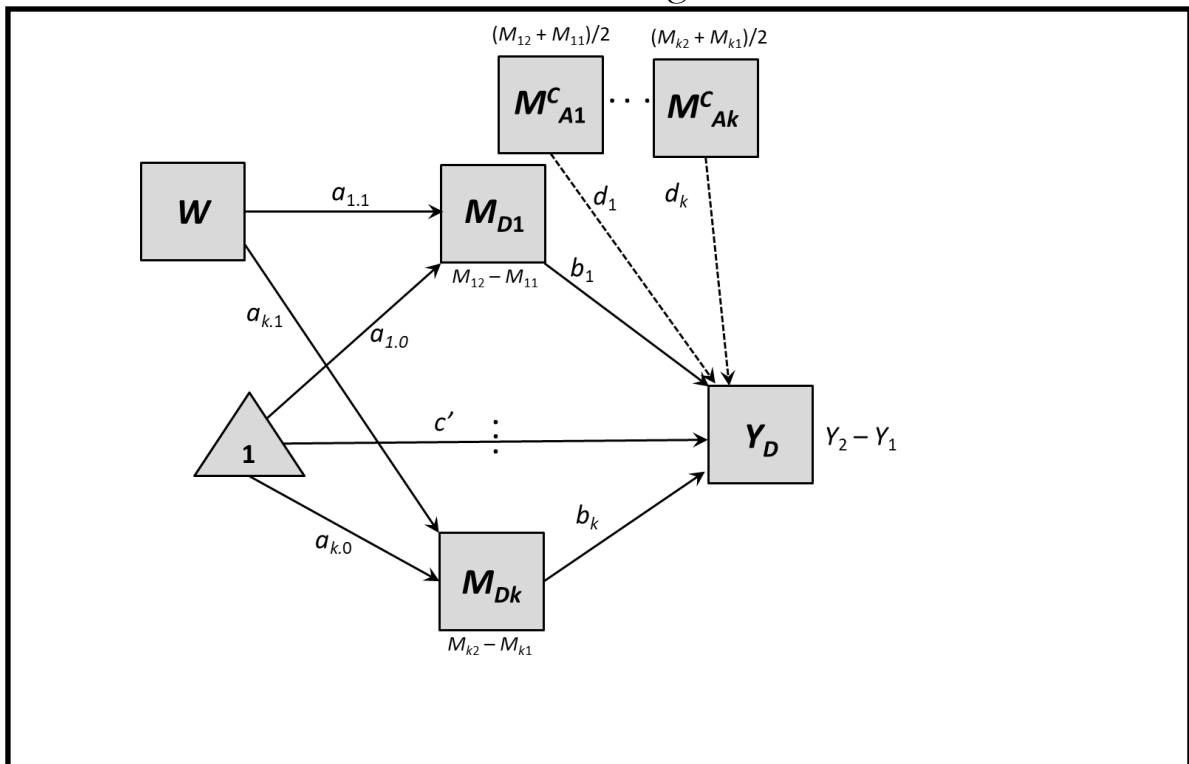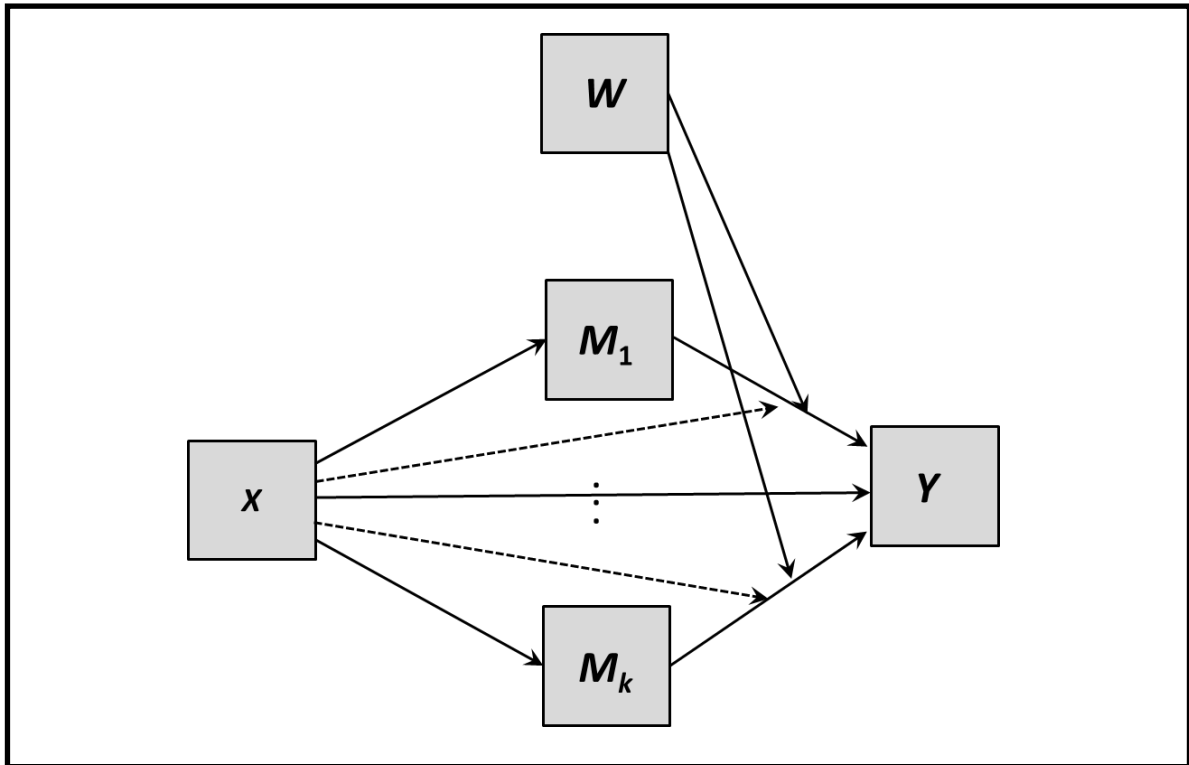^{c} Indicates grand mean centered
Dashed lines can be removed from model by using `xmint = 0`.

Model 15 Moderated Mediation

Conceptual Diagram

Statistical Diagram

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
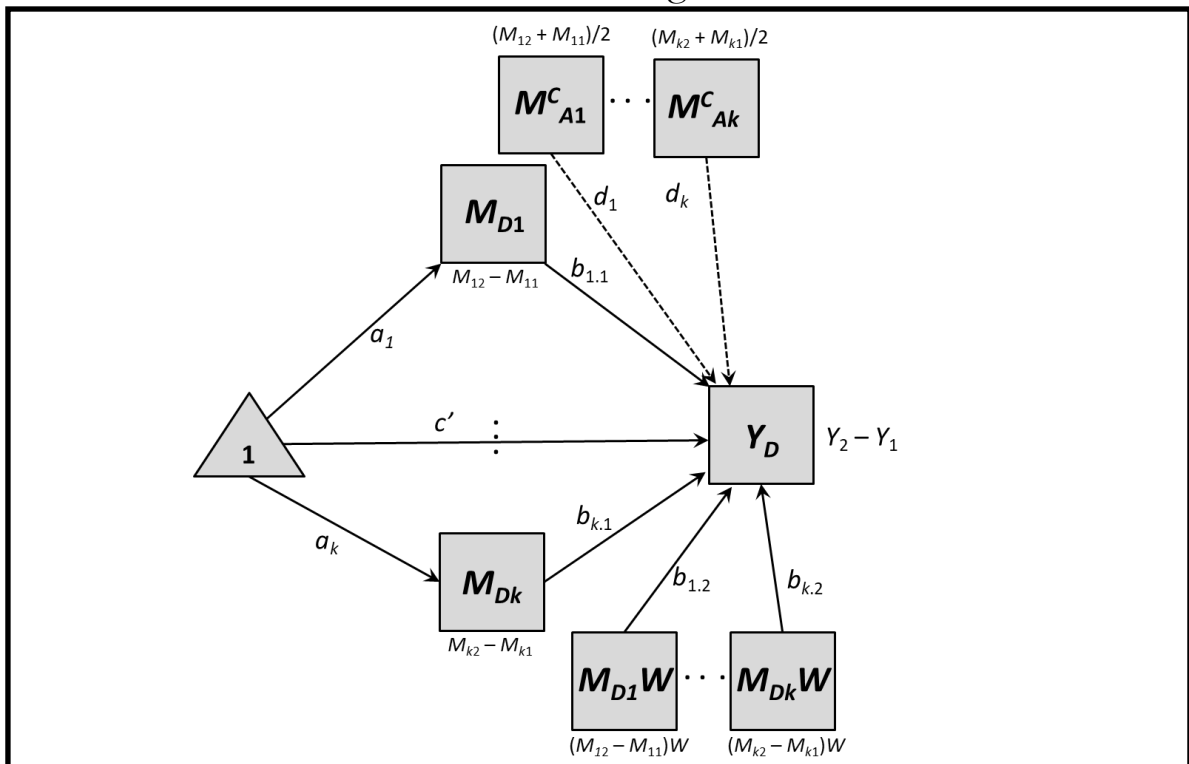[c] Indicates grand mean centered
Dashed lines can be removed from model by using `xmint = 0`.

Model 16 Moderated Mediation

Conceptual Diagram
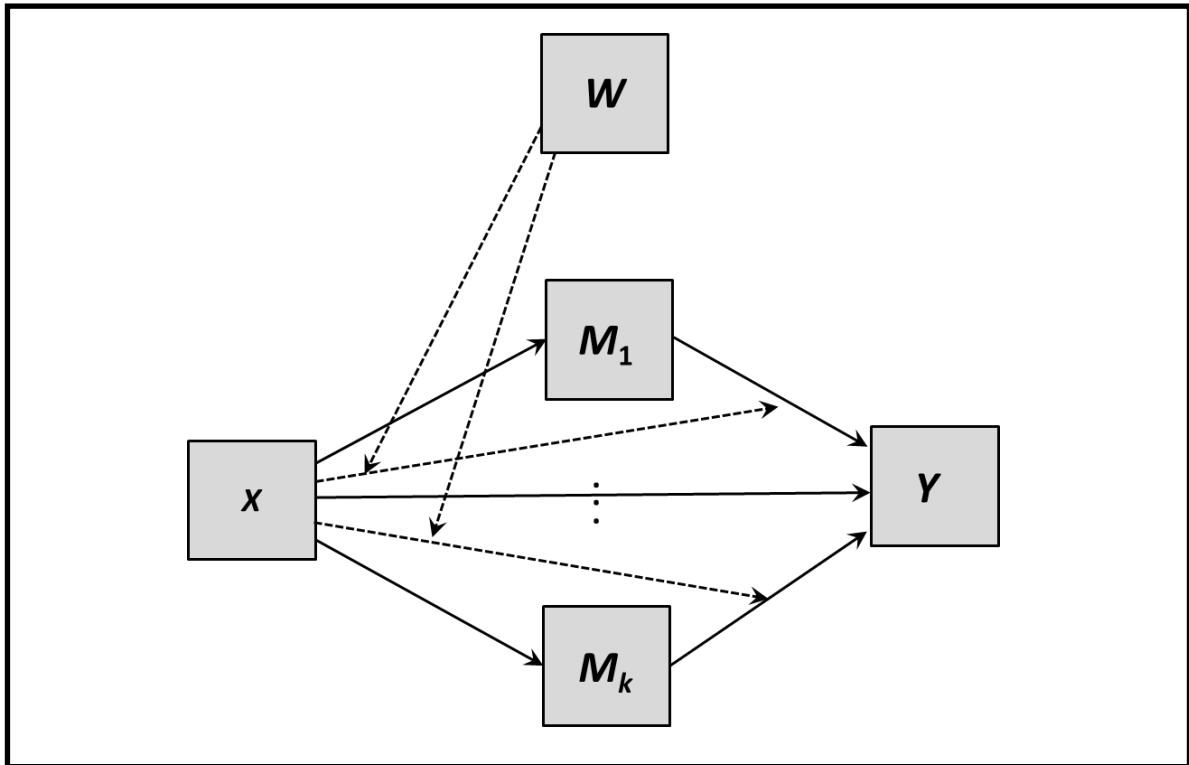

Statistical Diagram

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
[c] Indicates grand mean centered
Dashed lines can be removed from model by using `xmint = 0`.

Model 17 Moderated Mediation

Conceptual Diagram

Statistical Diagram

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
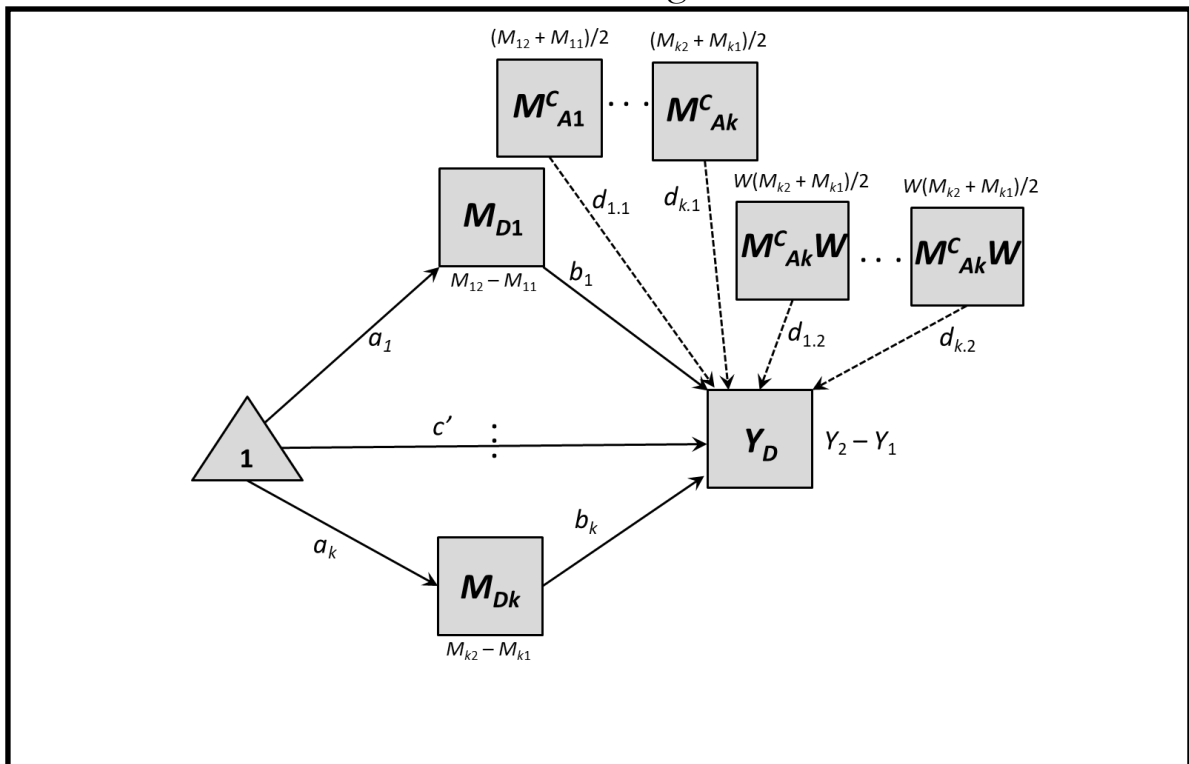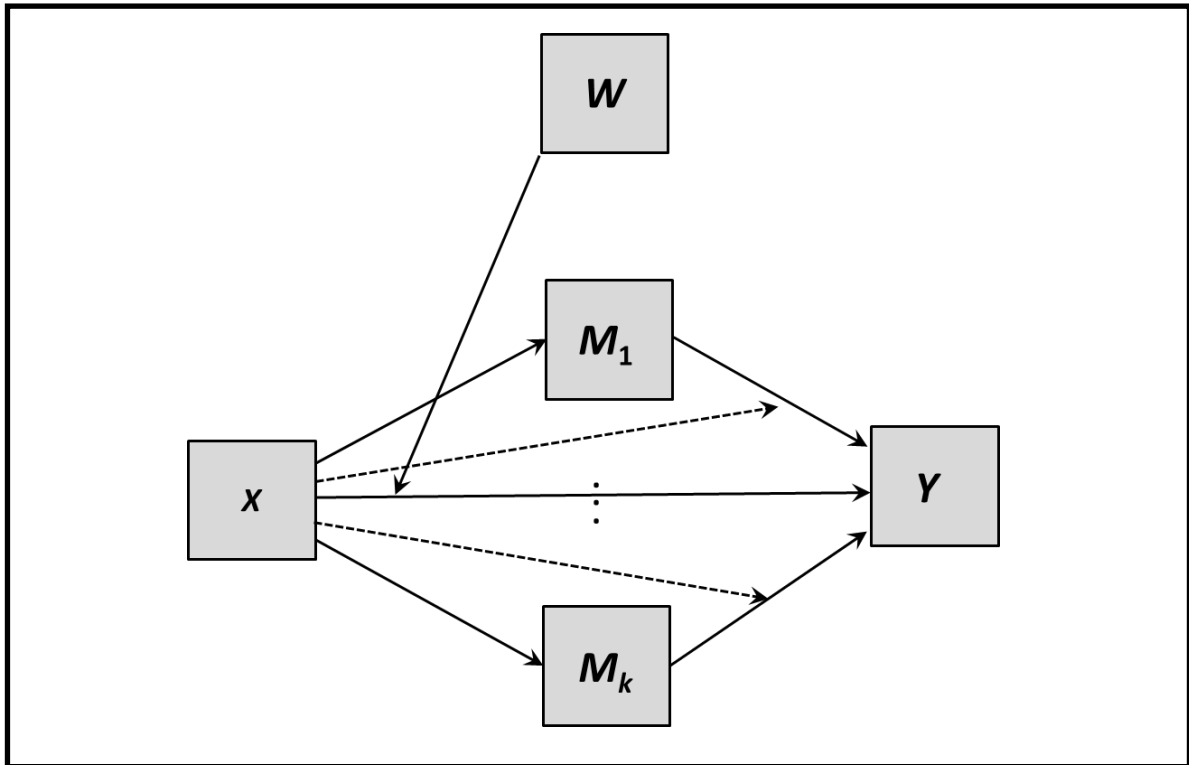[c] Indicates grand mean centered
Dashed lines can be removed from model by using `xmint = 0`.

Model 18 Moderated Mediation

Conceptual Diagram

Statistical Diagram

Subscript k indicates pairs of mediators. Models can have up to 5 pairs of mediators
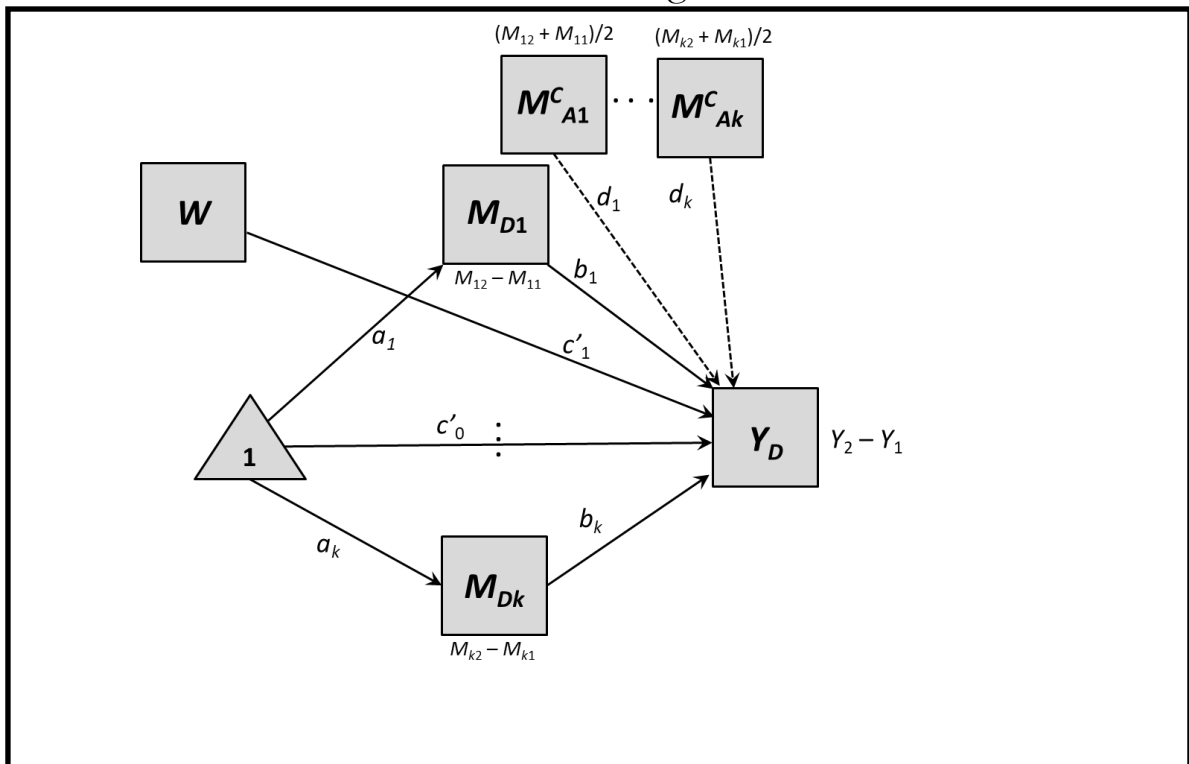[c] Indicates grand mean centered
Dashed lines can be removed from model by using `xmint = 0`.