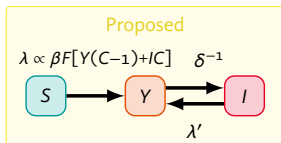


S: susceptible

I: infectious, new partner

Y: infectious, same partner

$\lambda$ : incidence



$\beta$ : transm prob per contact

F: contact frequency

$\delta$ : partnership duration

C: simultaneous partnerships

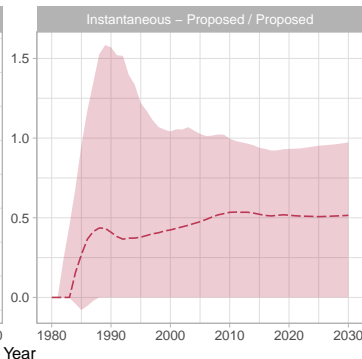
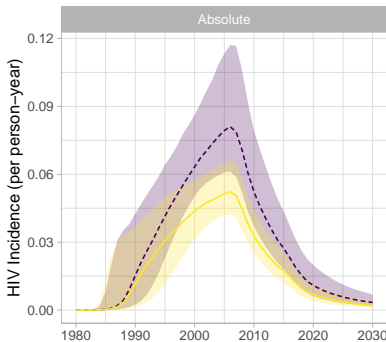
(a)

Model (median, 90% confidence interval)

Instantaneous

Proposed

Relative Difference



(b)