

$S$ : 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

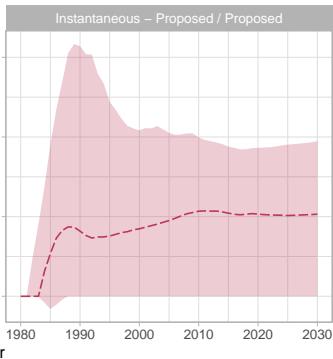
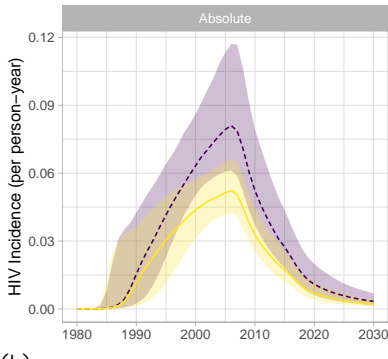
(a)

Approach (median, 90% confidence interval)

Instantaneous

Proposed

Relative Difference



(b)