Vaccine Efficacy Against Susceptibility = 0.1

Retrospective Cohort Design

$$RR(t) = \dfrac{\dfrac{CI_V(t)}{N_V}}{\dfrac{CI_U(t)}{N_U}}$$

-0.03

-0.01   -0.01   0.01   -0.02

	$P_{trans} = 0.03$	$P_{trans} = 0.05$	$P_{trans} = 0.07$	$P_{trans} = 0.09$	$P_{trans} = 0.11$
Equal Testing	$\dfrac{\dfrac{2851}{N_V}}{\dfrac{1044}{N_U}}$ 2.73	$\dfrac{\dfrac{4961}{N_V}}{\dfrac{1825}{N_U}}$ 2.72	$\dfrac{\dfrac{6031}{N_V}}{\dfrac{2229}{N_U}}$ 2.71	$\dfrac{\dfrac{6333}{N_V}}{\dfrac{2332}{N_U}}$ 2.72	$\dfrac{\dfrac{6393}{N_V}}{\dfrac{2365}{N_U}}$ 2.70
Highly Unequal Testing	$\dfrac{\dfrac{2851}{N_V}}{\dfrac{443}{N_U}}$ 6.44	$\dfrac{\dfrac{4961}{N_V}}{\dfrac{757}{N_U}}$ 6.55	$\dfrac{\dfrac{6031}{N_V}}{\dfrac{904}{N_U}}$ 6.67	$\dfrac{\dfrac{6333}{N_V}}{\dfrac{945}{N_U}}$ 6.70	$\dfrac{\dfrac{6393}{N_V}}{\dfrac{944}{N_U}}$ 6.77

0.11   0.12   0.03   0.07

0.33