

Article title: Analyzing self-controlled case series data when case confirmation rates are estimated from an internal validation sample

Programs in folder q0_50_q1_50	Produced results in	parameters	Methods
all reviewed_alpha_neg12_beta_069_q0_50_q1_50	Table 3, Table 5	$\beta_0=-12 \beta_1=0.69 q_0=50\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(100 100 100 100),$	Confirmed case only
all reviewed_alpha_neg13_beta_069_q0_50_q1_50	Table 4, Table 5	$\beta_0=-13 \beta_1=0.69 q_0=50\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(100 100 100 100)$	Confirmed case only
all reviewed_type 1 error_alpha_neg12_beta_0_q0_50_q1_50	Table 2	$\beta_0=-12 \beta_1=0 q_0=50\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(100 100 100 100)$	Confirmed case only
all reviewed_type 1 error_alpha_neg13_beta_0_q0_50_q1_50	Table 2	$\beta_0=-13 \beta_1=0 q_0=50\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(100 100 100 100)$	Confirmed case only
alpha_neg12_beta_069_q0_50_q1_50	Table 3, Table 5	$\beta_0=-12 \beta_1=0.69 q_0=50\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(80 80 80 80), (50 50 50 50), (80 100 80 100),$ and $(50 100 50 100)$	Observed, Confirmed case only, known confirmation rate, Multiple imputation
alpha_neg13_beta_069_q0_50_q1_50	Table 4, Table 5	$\beta_0=-13 \beta_1=0.69 q_0=50\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(80 80 80 80), (50 50 50 50), (80 100 80 100),$ and $(50 100 50 100)$	Observed, Confirmed case only, known confirmation rate, Multiple imputation
Type 1 error_alpha_neg12_beta_0_q0_50_q1_50	Table 2	$\beta_0=-12 \beta_1=0 q_0=50\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(80 80 80 80), (50 50 50 50), (80 100 80 100),$ and $(50 100 50 100)$	Observed, Confirmed case only, known confirmation rate, Multiple imputation
Type 1 error_alpha_neg13_beta_0_q0_50_q1_50	Table 2	$\beta_0=-13 \beta_1=0 q_0=50\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(80 80 80 80), (50 50 50 50), (80 100 80 100),$ and $(50 100 50 100)$	Observed, Confirmed case only, known confirmation rate, Multiple imputation
<b>Programs in folder q0_80_q1_50</b>			
all reviewed_alpha_neg12_beta_069_q0_80_q1_50	Table 3, Table 5	$\beta_0=-12 \beta_1=0.69 q_0=80\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(100 100 100 100),$	Confirmed case only
all reviewed_alpha_neg13_beta_069_q0_80_q1_50	Table 4, Table 5	$\beta_0=-13 \beta_1=0.69 q_0=80\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(100 100 100 100)$	Confirmed case only
all reviewed_type 1 error_alpha_neg12_beta_0_q0_80_q1_50	Table 2	$\beta_0=-12 \beta_1=0 q_0=80\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(100 100 100 100)$	Confirmed case only
all reviewed_type 1 error_alpha_neg13_beta_0_q0_80_q1_50	Table 2	$\beta_0=-13 \beta_1=0 q_0=80\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(100 100 100 100)$	Confirmed case only
alpha_neg12_beta_069_q0_80_q1_50	Table 3, Table 5	$\beta_0=-12 \beta_1=0.69 q_0=80\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(80 80 80 80), (50 50 50 50), (80 100 80 100),$ and $(50 100 50 100)$	Observed, Confirmed case only, known confirmation rate, Multiple imputation
alpha_neg13_beta_069_q0_80_q1_50	Table 4, Table 5	$\beta_0=-13 \beta_1=0.69 q_0=80\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(80 80 80 80), (50 50 50 50), (80 100 80 100),$ and $(50 100 50 100)$	Observed, Confirmed case only, known confirmation rate, Multiple imputation
Type I error_alpha_neg12_beta_0_q0_80_q1_50	Table 2	$\beta_0=-12 \beta_1=0 q_0=80\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(80 80 80 80), (50 50 50 50), (80 100 80 100),$ and $(50 100 50 100)$	Observed, Confirmed case only, known confirmation rate, Multiple imputation
Type I error_alpha_neg13_beta_0_q0_80_q1_50	Table 2	$\beta_0=-13 \beta_1=0 q_0=80\% q_1=50\%$ $(R_{M0} R_{M1} R_{L0} R_{L1})=(80 80 80 80), (50 50 50 50), (80 100 80 100),$ and $(50 100 50 100)$	Observed, Confirmed case only, known confirmation rate, Multiple imputation

<b>Programs in folder q0_50_q1_80</b>			
all reviewed_alpha_neg12_beta_069_q0_50_q1_80	Table 3, Table 5	$\beta_0=-12 \beta_1=0.69 q_0=50\% q_1=80\%$ ( $R_{M0} R_{M1} R_{L0} R_{L1}$ )=(100 100 100 100),	Confirmed case only
all reviewed_alpha_neg13_beta_069_q0_50_q1_80	Table 4, Table 5	$\beta_0=-13 \beta_1=0.69 q_0=50\% q_1=80\%$ ( $R_{M0} R_{M1} R_{L0} R_{L1}$ )=(100 100 100 100)	Confirmed case only
all reviewed_type 1 error_alpha_neg12_beta_0_q0_50_q1_80	Table 2	$\beta_0=-12 \beta_1=0 q_0=50\% q_1=80\%$ ( $R_{M0} R_{M1} R_{L0} R_{L1}$ )=(100 100 100 100)	Confirmed case only
all reviewed_type 1 error_alpha_neg13_beta_0_q0_50_q1_80	Table 2	$\beta_0=-13 \beta_1=0 q_0=50\% q_1=80\%$ ( $R_{M0} R_{M1} R_{L0} R_{L1}$ )=(100 100 100 100)	Confirmed case only
alpha_neg12_beta_069_q0_50_q1_80	Table 3, Table 5	$\beta_0=-12 \beta_1=0.69 q_0=50\% q_1=80\%$ ( $R_{M0} R_{M1} R_{L0} R_{L1}$ )=(80 80 80 80), (50 50 50 50), (80 100 80 100), and (50 100 50 100)	Observed, Confirmed case only, known confirmation rate, Multiple imputation
alpha_neg13_beta_069_q0_50_q1_80	Table 4, Table 5	$\beta_0=-13 \beta_1=0.69 q_0=50\% q_1=80\%$ ( $R_{M0} R_{M1} R_{L0} R_{L1}$ )=(80 80 80 80), (50 50 50 50), (80 100 80 100), and (50 100 50 100)	Observed, Confirmed case only, known confirmation rate, Multiple imputation
Type I error_alpha_neg12_beta_0_q0_50_q1_80	Table 2	$\beta_0=-12 \beta_1=0 q_0=50\% q_1=80\%$ ( $R_{M0} R_{M1} R_{L0} R_{L1}$ )=(80 80 80 80), (50 50 50 50), (80 100 80 100), and (50 100 50 100)	Observed, Confirmed case only, known confirmation rate, Multiple imputation
Type I error_alpha_neg13_beta_0_q0_50_q1_80	Table 2	$\beta_0=-13 \beta_1=0 q_0=50\% q_1=80\%$ ( $R_{M0} R_{M1} R_{L0} R_{L1}$ )=(80 80 80 80), (50 50 50 50), (80 100 80 100), and (50 100 50 100)	Observed, Confirmed case only, known confirmation rate, Multiple imputation

defining/explaining all the variables that are used in your macros:

**sim\_start:** where the simulation starts in the macro;

**numsim:** where the simulation ends in the macro; number of simulated datasets would be (numsim - sim\_start+1)

**Nsubj:** number of subjects in each simulated dataset

**Studyend:** study follow-up period, which was set to 360 days for all simulations

**Riskwindow:** risk window represents a period time after vaccination that may have elevated risk of outcome.

It was set to 42 days in all simulations;

**Alpha:** it is the intercept in the simulation model. It determined the baseline incidence rate. In the paper it is  $\beta_0$ ;

**Beta:** the coefficient for the vaccination effect. In the paper, it is  $\beta_1$ ;

**true\_confirm\_rate\_S0:** true positive confirmation rate for unexposed cases at the small site;

**true\_confirm\_rate\_S1:** true positive confirmation rate for exposed cases at the small site;

**true\_confirm\_rate\_M0:** true positive confirmation rate for unexposed cases at the medium site;

**true\_confirm\_rate\_M1:** true positive confirmation rate for exposed cases at the medium site;

**true\_confirm\_rate\_L0:** true positive confirmation rate for unexposed cases at the large site;

**true\_confirm\_rate\_L1:** true positive confirmation rate for exposed cases at the large site;

**chart\_review\_p\_S0:** proportion of reviewed cases for unexposed cases at the small site;

**chart\_review\_p\_S1:** proportion of reviewed cases for exposed cases at the small site;  
**chart\_review\_p\_M0:** proportion of reviewed cases for unexposed cases at the medium site;  
**chart\_review\_p\_M1:** proportion of reviewed cases for exposed cases at the medium site;  
**chart\_review\_p\_L0:** proportion of reviewed cases for unexposed cases at the large site;  
**chart\_review\_p\_L1:** proportion of reviewed cases for exposed cases at the large site;