

S4 Table

Sensitivity Analysis on the Initial Value Assumption.

Table 1. Predictive performance of the logistic models in terms of mean errors (*ME*), mean absolute errors (*MAE*), and mean relative errors (*MRE*) for different assumptions about  $\iota$ , the parameter determining the expected prevalence level at the beginning of the time horizon:  $f_v(0) = \iota \tilde{x}_v$ .

	$\iota = 0.4$			$\iota = 0.6$			$\iota = 0.8$		
	<i>ME</i>	<i>MAE</i>	<i>MRE</i>	<i>ME</i>	<i>MAE</i>	<i>MRE</i>	<i>ME</i>	<i>MAE</i>	<i>MRE</i>
Model 3: LMCCC	-0.00086	0.00481	1.51	-0.00095	0.00475	1.50	-0.00096	0.00475	1.49
Model 4: rLMCCC	<b>0.00069</b>	0.00619	1.95	<b>0.00028</b>	0.00583	1.84	<b>0.00009</b>	0.00567	1.79
Model 5: LMVCC	-0.00171	<b>0.00395</b>	<b>1.16</b>	-0.00186	<b>0.00369</b>	<b>1.12</b>	-0.00194	<b>0.00350</b>	<b>1.10</b>