

Table S6. Description and initial values of the state variables of the ODE model.

State variables	Description	Initial value*
S	Number of susceptible humans	$0.3 \cdot N_H$
E	Number of exposed humans who are infected with DENV-1	0
I	Number of infectious humans who are infected with DENV-1	1
R	Number of recovered humans	$0.7 \cdot N_H$
T	Number of humans infected with tDP only	0
G	Number of exposed humans who are infected with both DENV-1 and tDP	0
D	Number of infectious humans who are infected with both DENV-1 and tDP	0
S_V	Number of susceptible mosquitoes	N_V
E_V	Number of exposed mosquitoes infected with DENV-1	0
I_V	Number of infectious mosquitoes infected with DENV-1	0
T_V	Number of mosquitoes infected with tDP only	0
G_V	Number of exposed mosquitoes infected with both DENV-1 and tDP	0
D_V	Number of Infectious mosquitoes infected with both DENV-1 and tDP	0

* N_H and N_V are the total numbers of humans and mosquitoes, respectively (see Table S6).