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Malarial Model

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2. ODE Model

$$\frac{dx_1}{dt} = -\frac{p_1 x_1 x_3}{V} \tag{1}$$
$$+p_3 x_2 \tag{2}$$
$$+2p_7 x_1 \tag{3}$$
$$-p_7 x_1 \tag{4}$$
$$\frac{dx_2}{dt} = \frac{p_1 x_1 x_3}{V} \tag{5}$$
$$+\frac{p_2 x_4 x_2}{V} \tag{6}$$
$$-\frac{p_2 x_4 x_2}{V} \tag{7}$$
$$-p_3 x_2 \tag{8}$$
$$-p_8 x_2 \tag{9}$$
$$\frac{dx_3}{dt} \quad \frac{p_1 x_1 x_3}{V} \tag{10}$$
$$-\frac{p_2 x_4 x_2}{V} \tag{11}$$
$$-p_4 x_3 \tag{12}$$
$$+\frac{-\frac{1}{10} p_5 10 x_3 2 x_5}{V} \tag{13}$$
$$-p_9 x_3 \tag{14}$$
$$\tag{15}$$