$$\frac{\widehat{dX}}{dt} = \overbrace{\rho X \left(1 - \frac{X}{K}\right)}^{\text{logistic growth}} - \overbrace{\kappa_1 X Y}^{\text{CAR T-cell induced cancer cell death}}$$

CAR T-cell rate of change

$$\frac{\widetilde{dY}}{dt} = \underbrace{\kappa_2 XY}_{\text{cancer cell stimulated proliferation}} - \underbrace{\theta Y}_{\text{CAR T-cell death}}$$
 or exhaustion of CAR T-cells

