The Mathematical Model

$$\frac{dM_1(a)}{da} = A_1 M_2(a) - A_2 M_1^2(a)$$

$$\frac{dM_2}{da} = B_1 M_1(a) - B_2 M_2(a) - B_3 M_2^2(a)$$

$$\frac{dM_3(a)}{da} = C_1 M_1(a) - C_3 M_3(a)$$
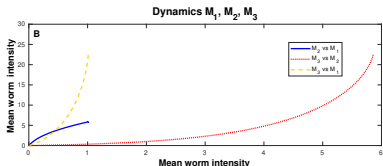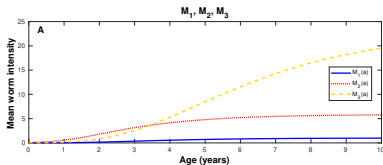

Transmission Dynamics of Taenia-Cysticercosis
Basic flowchart of the life cycle of *Taenia solium*

$$c_1 = -ln(1 - G_1 x C_1)$$
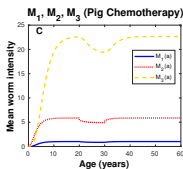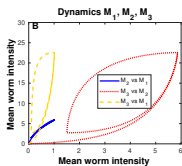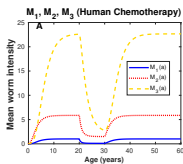$$c_2 = -ln(1 - G_2 x C_2)$$
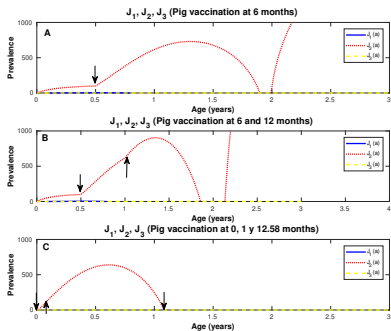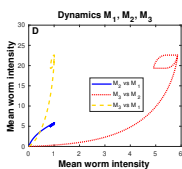
Conclusions

A mathematical model of taenia-cysticercosis is based upon the life cycle of the parasite.

The model can be adapted to any given community with mild, moderate endemicity, or even in hyperendemic regions.