Allen, Robert F., Cassandra Jens, and Theodore J. Wendt. 2014. Perturbations in Epidemiological Models: When zombies attack, we can survive! *Letters in Biomathematics*. 1(2): 173-180.

See https://www.researchgate.net/publication/277595069_Perturbations_in_Epidemiological_Models_When_zombies_attack_we_can_survive . Accessed 29 March 2023.

Abstract: In this paper, we investigate the existence of stability-changing bifurcations in epidemiological models used to study the spread of zombiism through a human population. These bifurcations show that although linear instability of disease free equilibria may exist in a model, perturbations of model parameters may result in stability. Thus, we show that humans can survive a zombie outbreak.

Keywords: differential equation, models, epidemiology, dynamical systems, zombies, difference equations, equilibrium, stability, perturbation