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Matthew Glomski* (matthew.glomski@marist.edu) and **Olivia Brozek**. *Conditions for endemicity in a compartmental model with deceased-infectious class*. Preliminary report.

We describe the transmission of certain filoviral diseases via a compartmental model with deceased-infectious class. We then consider the effects of background population dynamics under this model, and find that under specific assumptions on the parameter space the model predicts the existence of an asymptotically stable endemic equilibrium. Our report draws on the analysis of similar models appearing in the literature. (Received September 20, 2016)