

1125-A0-301      **Martin I Meltzer\*** (qzm4@cdc.gov), Mailstop C-18, 1600 Clifton Rd, Atlanta, GA 30333. *Simple mathematical models for public health decision making during a response.*

The value of simple mathematical models, rapidly built with available data, to aid decision makers during response to catastrophic infectious disease events will be demonstrated by examining the contributions of modeling during 2 public health emergencies: Estimating, in near real-time, the impact of the 2009 H1N1 influenza pandemic; and, Modeling input to aid the decision during the 2014-2016 Ebola epidemic; These examples will be used to illustrate some basic concepts that must guide mathematical modelers as they interact with public health decision makers during responses. (Received August 24, 2016)