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Zhilan Feng* (fengz@purdue.edu), 150 N. University Street, Department of Mathematics, West Lafayette, IN 47907. *Influence of heterogeneity in model predictions for public health policymaking*. Preliminary report.

Mathematical modeling of infectious diseases has affected disease control policy throughout the developed world. Policy goals vary with disease and setting, but preventing outbreaks is common. We use epidemiological models that incorporate various spatial and temporal heterogeneities to demonstrate how these heterogeneities may influence model predictions, particularly their implications for public health policymaking. (Received August 31, 2014)