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**FRED BRAUER**, University of British Columbia

*Some simple nosocomial disease transmission models*

The SARS epidemic of 2002-3 drew attention to nosocomial disease transmission as many of the disease cases were transmitted through hospital staff and visitors. Various types of model have been proposed to describe this, including metapopulation models. We formulate and analyze a simple compartmental model with heterogeneous mixing to describe nosocomial transmission and determine the reproduction number and final size relation.