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Evelyn Kamaria Thomas* (evelyn.k.thomas@gmail.com). *The Effect of Male Bisexuality on the Spread of Incurable Sexually Transmitted Diseases.*

The goal of this research is to determine the role bisexuality, among males, plays on the spread of incurable sexually transmitted diseases within a heterosexual female population. A system of eight ordinary differential equations was constructed to describe these dynamics. In order to fully understand the dynamics within this system, the model was deconstructed into smaller systems of ordinary differential equations, which represent segments of the interacting populations. Such information will assist in making predictions as to whether the disease will stabilize, increase, or decrease. (Received January 26, 2012)