

1116-VM-1819      **Cody A Palmer\***, cody.palmer@umontana.edu. *Dynamics of Vector-borne Relapsing Diseases.*

The dynamics of vector-borne relapsing diseases, such as Tick-Borne relapsing Fever (TBRF) and Equine Infectious Anemia Virus (EIAV) are affected by the number of relapses that occur over the course of infection. In this talk we will be investigating the relationship between the number of relapses and latent states and the fundamental reproductive number  $R_0$ . We will also be considering how the existence of endemic equilibria can be affected by relapse and latent states. (Received September 21, 2015)