Assessment of Poisson, logit, and linear models for genetic analysis of clinical mastitis in Norwegian Red cows. By Vazquez et al., page 739. Clinical mastitis is usually defined as absence/presence during a given period. Because “presence” may involve more than one case of clinical mastitis, there is a loss of information when analyzing the trait as a binary response. Different models have been proposed for mastitis, but they have not been formally compared. Models to infer genetic parameters of mastitis as count of cases were assessed, and their predictive ability was evaluated and compared with models for absence/presence. The models for counts better predicted diseased cows, and the binary data models better predicted cows with a healthy status.