Hughes, James P.
Mixed effects models with censored data with application to HIV RNA levels. (English)
Zbl 1059.62661

Summary: Mixed effects models are often used for estimating fixed effects and variance components in longitudinal studies of continuous data. When the outcome being modelled is a laboratory measurement, however, it may be subject to lower and upper detection limits (i.e., censoring). In this paper, the usual EM estimation procedure for mixed effects models is modified to account for left and/or right censoring.

MSC:

62P10	Applications of statistics to biology and medical sciences; meta analysis
62N02	Estimation in survival analysis and censored data
62N01	Censored data models

Cited in **1** Review
Cited in **34** Documents

Keywords:

censored data; EM algorithm; Gibbs sampling; laboratory detection limits; mixed effects models; variance components

Software:

BUGS

Full Text: DOI

References:

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