

Preface to the Revised Edition

This revised edition updates the original text (written to support Stata 7) to reflect Stata 8, which was released in January 2003. Most of the changes are minor and include new graphics, including the appearance of the graphics and the syntax used to create them, and updated datasets.

New sections describe Stata's ability to graph nonparametric and semiparametric estimates of hazard functions. Stata now calculates estimated hazards as weighted kernel-density estimates of the times at which failures occur, where weights are the increments of the estimated cumulative hazard function. These new capabilities are described for nonparametric estimation in chapter 8 and for Cox regression in chapter 9.

Another added section in chapter 9 discusses Stata's ability to apply shared frailty to the Cox model. This section complements the discussion of parametric shared and unshared frailty models in chapter 8. Because the concept of frailty is best understood by beginning with a parametric model, this new section is relatively brief and focuses only on practical issues of estimation and interpretation.

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