

## **The Efficiency of Simple and Counter-matched Nested Case-Control Sampling**

Authors: **Ørnulf Borgan and Espen F. Olsen**

Technical Report number (Dept. of Statistics, Stanford University): **1997-5**

Date: **December 1997**

Abstract:

This paper presents a study of the performance of simple and counter-matched nested case-control sampling relative to a full cohort study. First we review methods for estimating the regression parameters and the integrated baseline hazard for Cox's proportional hazards model from cohort and case-control data. Then the asymptotic distributional properties of these estimators are recapitulated, and relative efficiency results are presented both for regression and baseline hazard estimation.