1033-62-237   **Xiaoping Xiong*** (`xiaoping.xiong@stjude.org`), 332 N. Lauderdale St. Street, R2032, Memphis, TN 38120. *SCPRT Procedures for Survival Data.*

Survival data is a common type of end-points in clinical trials because the progression-free survival is often taken as trustable evidence to judge a new medical treatment. We propose the sequential conditional probability ratio test (SCPRT) procedures for monitoring clinical trials with survival data. The advantages of SCPRT procedures include that the conclusions of sequential test are consistent at different stages, that the maximum sample size of the sequential test is minimized, and that the trial is flexible such that interim looks can be ignored or added during the process of trial without affecting the significance level and power. The stochastic behavior of sequential test statistic for survival data can be approximated by Brownian motion on the interval of information time, thus the framework of SCPRT on information time is used to derive the procedures. (Received September 11, 2007)