A Multivariate Survival Analysis of

Recurrent Surgical Interventions for Retinal Detachment: the SPR Study

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This work presents an example of the use of time-to-event data analysis tools in the presence of multiple events. We will show an illustration of several generalizations of the ordinary Cox model to the multivariate setting, using data from an ophthalmologic clinical trial comparing two surgical methods for the treatment of retinal detachment. The two treatment groups will be compared by studying the re-operation processes in each arm using marginal models for recurrent events and frailty models.