

TITLE

**On the performance of time-dependent AUC estimators for survival
and competing risks models**

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ABSTRACT

The area under the time-dependent ROC curve ($AUC(t)$) can be used to quantify the ability of a survival model to correctly predict future events (non-events) at a time t . It can also be used for competing risks models. Competing risks situations often appear in survival analysis when the endpoint of interest (i.e., recovery) is precluded by another event (i.e., death). The probability of failure in the presence of competing risks can be modeled through cause-specific hazards or the incidence function. These models can also be used to predict the course of future individuals and in this case, their predictive capacity has to be analyzed.

In this presentation we present several estimators of the $AUC(t)$ in the context of survival and competing risks models with the aim of selecting the best estimator.

REFERENCES

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