14/2020



## ONLINE INSPEM'S WEEKLY SEMINAR

DATE : 29 MAY 2020 | TIME : 2.15 PM APPLICATION : VIDEO CONFERENCE

The url will be given once the participant has confirmed attendance

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INSPEM CLASS OF 2009

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Topic : A Competing Risks Regression Model Based on the Exponential Gompertz-like Subdistribution

## ABSTRACT

In some situations, research activities were conducted to measure the length of time until the event occurred. If it was possible to have not only the event of interest but also the competing events, then it was a kind of competing risks data. The main parameter being concerned with was the subdistribution function. The parameter contained the information about the proportion of individuals experiencing an event of interest. One step further, if the subdistribution needs to be predicted by predictor variables, then the regression model for competing risks data had to be developed. In this paper, the regression model for the exponential Gompertz-like subdistribution was proposed. The model was then estimated by means of a maximum likelihood estimation method. Specifically, the subdistribution of the proposed model to contraceptive discontinuation data showed good result. Goodness-of-fit of the estimated regression model which measured by the likelihood and Akaike Information Criterion (AIC) also showed the acceptable value.

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