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Subject: Discrete Time Vs Continuous Time Survival Model

Posted by [shujaat.smc@gmail.com](mailto:shujaat.smc@gmail.com) on Wed, 25 Nov 2020 11:10:06 GMT

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Dear DHS Representative,

I am working on the determinants of neonatal mortality in Pakistan. (PDHS 2017-18 using BR file). Using Stata 13.

I have declared my data as survival time data by generating the time variable for neonatal death in days (n; 1 to 30 i.e discrete-time) and then building regression model in stepwise forward direction, first gone through semi-parametric cox model & then Parametric survival model.

Today I was going through the book "Applied Survey Data Analysis Using Stata: The Kauffman Firm Survey Data". In this book they have shared that for discrete-time model are built on the following stata commands "svy: logit reporting Odds Ratio" & "svy: cloglog reporting Hazard ratio".

When I tried the same command for my data which was declared as survey & survival time data, I got the error message.

I have all literature published on neonatal mortality using DHS data that authors use cox-proportional hazard model or parametric survival model for Discrete time, which according to this book is incorrect since we have time of death in days (discrete) and not continuous time.

Kindly explain my query.

Best Regards

Dr. Hussain

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