Appointment

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Subject: [DRSG] Monthly DRSG Meeting/Webinar Announcement

Start: 3/5/2019 5:00:00 PM
End: 3/5/2019 6:00:00 PM
Show Time As: Tentative

Recurrence: (none)

For our monthly March Meeting:

Please join us on **Tuesday March 5th** as we host **Dr. Dustin Long,** Associate Professor in the Department of Biostatistics at University of Alabama Birmingham as he delivers his webinar presentation titled: **Cox Proportional Hazard Regression and Splines: A Cautionary Tale for exposure-response assessment**

Webinar information:
https://epawebconferencing.acms.com/drsg/ Dial in for audio: 202-991-0477 Conference ID: 7413938

Abstract:
Polynomial splines provide a flexible alternative to parametric regression modeling and are frequently used when the underlying data generating mechanism is unknown or when a parametric model is not appropriate. When modeling failure time data, the use of polynomial splines with the Cox proportional hazard model is a standard practice in a variety of fields including epidemiology and toxicology. The use of splines with the Cox model is available in many different statistical packages where the practitioner seldom considers the underlying assumptions of the model when using polynomial splines. Specifically, when there is no probability, or very small probability, of observing a failure at background with non-zero probability at all other levels, the use of polynomial splines may result in erroneous, but statistically significant inference, due to an ill-defined likelihood. The result of this is the prediction of a hormetic or 'J' shaped exposure-response relationship when no such relationship exists in truth. Additionally, other incorrect relationships may arise primarily due to the distribution of the exposure. We demonstrate these findings using simulations with a study of silicosis exposure as motivation.

Here is the new dial in information for our monthly DRSG call:

Dial-in**: 202-991-0477** Conference ID: **7413938**