Course Instructor

Miranda L. Lynch, PhD, is an Assistant Professor of Community Medicine and Health Care and a faculty member assigned to the Center for Quantitative Medicine and the CICATS Biostatistics Center at UConn Health. Currently, she consults with faculty from throughout the Health Center, conducts her own research, and teaches advanced statistics courses in the Graduate Program in Public Health. Dr. Lynch earned her doctorate in statistics at the University of Rochester and joined the UConn Health faculty in 2013. Her research interests are in developing methods for analysis of clustered and longitudinal outcome data, for dealing with missing and/or censored data, and for nonparametric statistical analysis to address questions in high-dimensional/functional data.

Couse Location

The course will be held in Medical-Dental Classroom E/F, located on the main level of the Academic building, just a short distance from both the cafeteria and academic lobby on the UConn Health campus in Farmington. The afternoon session will held be in the Computer Education Center in the Library. Directions to the rooms will be provided with your confirmation a few weeks before the course begins.

Computer Usage

During the afternoon session, participants will be lead through a series of exercises in analyzing time-to-event data on Microsoft Windows-based PCs using R software and other statistical packages. A personal computer is NOT needed for this portion of the course. Basic computer skills are required, however, no prior knowledge of R and the other statistical packages is assumed.

Software

This experiential course will use a combination of lectures and computer exercise sessions to show participants how to analyze and interpret time-to-event survival data using R and other statistical software packages.
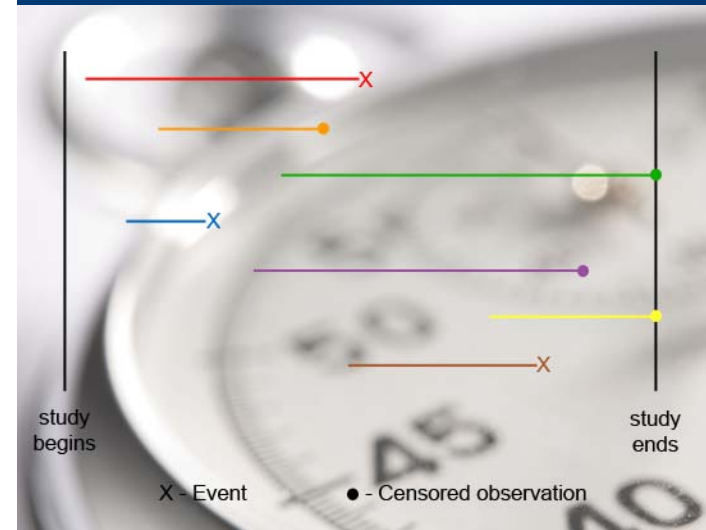
is an integrated suite of software facilities for data manipulation, calculation and graphical display that can be used for statistical analysis. It is available as free software under the terms of the Free Software Foundation's GNU General Public License. R can be compiled and run on a wide variety of Windows, Macintosh, and Unix platforms.

UCONN
HEALTH CENTER
CENTER FOR QUANTITATIVE MEDICINE

263 Farmington Avenue, MC 6029
Farmington, CT 06030-6029

Phone: 860-679-3075
Fax: 860-679-7522
E-mail: cqmEd@uchc.edu

Biostatistics Short Course

study begins — X - Event — study ends — ● - Censored observation

IT'S ABOUT TIME: METHODS FOR ANALYZING TIME-TO-EVENT SURVIVAL DATA

UCONN
HEALTH CENTER

Wednesday, May 28, 2014
9:00 AM — 5:00 PM

Course Location:
UConn Health
School of Medicine Classroom E/F
263 Farmington Ave, Farmington, Conn.

Course Description

In many biomedical and epidemiological studies, one outcome of interest is the time to a particular event. Such events may be adverse, such as death or recurrence of a tumor; positive, such as conception or discharge from hospital; or neutral, such as cessation of breast feeding. Similar data also arise when measuring the time to complete a task. These data, typically called survival data, are often complicated by the presence of censored observations; censored values arise when individuals have not experienced the event of interest at the time the measurement process is stopped (such as patients who don't have tumor recurrence by the time the study ends), and require special methods of analysis.

This short course surveys statistical approaches to analyzing survival data which is frequently encountered in biomedical studies and clinical trials. The course will provide researchers with techniques for analyzing and interpreting survival data using survival curves and Kaplan-Meier estimators of survival functions, as well as regression methods (i.e. Cox proportional hazards regression).

Learning Objectives

At the end of the course, participants will be able to:

1. Define and characterize time-to-event data and the most common types of censoring.
2. Compare and interpret survival curves between groups.
3. Discuss regression methods for associating explanatory predictors to survival outcomes.
4. Design a research study or project that includes survival endpoints.
5. Analyze time-to-event data using R and other statistical packages on the computer.

Who should attend?

This short course is aimed at junior and senior researchers, postdoctoral fellows, predoctoral and post-graduate students, research assistants and associates, and clinicians who generate time-to-event data in their studies (e.g. clinical trials, cohort studies, or retrospective correlational studies), epidemiologists and other members of the public health workforce who investigate time-to-event outcomes, and others interested in learning methods and techniques to analyze and interpret survival data.

Registration

Space is limited to 19 participants on a first-come, first-served basis. Save money and register early to guarantee your seat. If you wish to pay by Visa®, MasterCard® or Discover®, you may register by calling UConn Link at 860-679-7692 or 1-800-535-6232, otherwise mail your completed registration with a check made payable to the "UConn Health Center" to the address listed on the registration form. UConn departments may also pay by transfer voucher. Advanced registration only. No onsite walk-in registrations allowed.

Confirmations

All registrations are confirmed in writing prior to the event. If you don't receive a confirmation, call 860-679-3075.

Conference Attire

Business casual attire is suggested. Since meeting room temperatures and personal comfort levels vary, it is recommended that you dress in layers and bring a sweater or jacket.

Directions to the UConn Health Center

From I-84 East or West, take Exit 39 (if coming from I-84 West, Exit 39 is after 39A). Turn right at the first traffic light onto Route 4 East (Farmington Avenue). At the third traffic light, turn right to enter the UConn Health Center campus. At the first blinking light/stop sign, continue straight. Bear left at the fork and continue up the hill. The main entrance is straight past the second stop sign. Visitor parking is available on the other side of the gate. Once you enter the lobby, check-in with the Hospital information desk for directions to Medical-Dental Classroom E/F.

Parking

Visitor parking is available near the main hospital entrance. Free valet parking is available to patients and visitors from 6 AM until 6 PM weekdays for those visiting the main building.

Cancelations

Registration includes a $50.00 nonrefundable registration fee. Should you cancel your registration before May 23, 2014, you will be refunded the entire short course fee less $50. Sorry there are no refunds after 5/23/2014.

For Further Information

Matthew J Cook, MPH, Director, Education & Outreach
Center for Quantitative Medicine
UConn Health
263 Farmington Ave, MC 6029, Farmington, CT 06030-6029
phone: 860-679-3075; fax: 860-679-7522
email: cook@uchc.edu; web: http://cqm.uchc.edu

Registration Form

Methods for Analyzing Time-to-Event Data — May 28, 2014

Sign up for: | Price
- ○ Student Registration (copy of valid student ID required with your registration) — $150.00
- ○ Early Bird (call or postmarked by 4/25/2014) — $300.00
- ○ Advance Registration (by 5/23/2014) — $375.00

Space is limited to 19 participants! Registration includes tuition, course certificate, materials, lunch voucher, refreshment breaks, and a non-refundable registration fee of $50.00. Advance registration is required. There is no onsite registration available. Sorry no refunds after May 23, 2014.

Total: _____

Please type or print below using CAPITAL letters.

First Name ___ MI ___ Last Name ___

Highest professional degree(s) [for course certificate and name tag]

Organization

Mailing Address

City ___ State ___ Zip

Daytime Phone Number

Email address (required to confirm your registration)

Method of Payment

☐ Check made payable to the UConn Health Center

☐ Transfer Voucher (UConn departments only)

☐ Credit Card: ○ Visa ○ MasterCard ○ Discover

☐☐☐☐ - ☐☐☐☐ - ☐☐☐☐ - ☐☐☐☐
Credit Card Number

☐☐ / ☐☐   ☐☐☐   3 digit number on back of the card on signature panel
Expiration Date (MM / YY)   CV2/CVV Security Code

Cardholder name as it appears on the credit card

Cardholder Billing Address

APT / UNIT / PO Box

City ___ State ___ Zip

I authorize you to charge the total amount listed above to my credit card provided herein. I agree that I will pay for this purchase in accordance with the issuing bank cardholder agreement.

Cardholder Signature ___ Date ___

Please return this registration form with your payment to:
Center for Quantitative Medicine
UConn Health Center
263 Farmington Avenue, MC 6029
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Fax: 860-679-7522