Thomas G. Stewart

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Education

PhD Biostatistics
University of North Carolina at Chapel Hill, anticipated 2015
Advisors: Michael Wu and Donglin Zeng
Dissertation Title: Statistical Learning and Missing Data

MS Statistics
Brigham Young University, 2008
Advisor: H. Dennis Tolley
Thesis Title: Generalized Random Walks, Their Trees, and the Transformation Method of Option Pricing.

BS Mathematics & BA Economics
Brigham Young University, 2006

Awards

ENAR Distinguished Student Paper Award, 2015
ENAR Regional Advisory Board Poster Award, 2014
Commendation, High Score on Biostatistics PhD Qualifying Exam in Applications of Statistics, 2010
NIH Training Grant Recipient, Genomics and Cancer, August 2008
John and Diane Fryer Fellowship, August 2008
Mu Sigma Rho Society, member, January 2008

Publications

Gordon SC, Muir AJ, Lim JK, Pearlman B, Argo CK, Ramani A, Maliakkal B, Alam I, **Stewart** TG, Vainorius M, Peter J, Nelson DR, Fried MW, Rajender Reddy K. Safety Profile of Boceprevir and Telaprevir in Chronic Hepatitis C: Real-World Experience From HCV-TARGET. *Journal of Hepatology*, in press, 2014.

Nakada Y, **Stewart** TG, Peña CG, Zhang S, Zhao N, Bardeesy N, Sharpless NE, Wong KK, Hayes DN, Castrillon DH. The LKB1 tumor suppressor as a biomarker in mouse and human tissues. *PloS one*, 8(9):e73449, 2013.

Berggren EK, **Stewart** TG, Boggess KA. Glycated haemoglobin to predict birthweight among women with gestational diabetes: a classification and regression tree analysis. Submitted.

Reau N, Afdhal NH, Everson GT, Morelli G, Lok AS, Sherman KE, Dickson RC, Regenstein F, Mena EA, Schiff E, Hassan MA, Smith C, Terrault N, Mailliard M, **Stewart** TG, Baron JA, Peter JA, Nelson DR, Fried MW, Pockros PJ. Safety and efficacy of Telaprevir or

Boceprevir in chronic HCV patients with cirrhosis in HCV-TARGET, a longitudinal, observational study. Submitted.

Sterline RK, Kuo A, Rustgi VK, Sulkowski MS, **Stewart** TG, Fenkel JM, El-Genaidi H, Mah'moud MA, Abraham GM, Stewart P, Akushevich L, Nelson DR, Fried MW, Di Bisceglie AM. Virologic outcomes and utilization of treatment algorithms in patients with chronic hepatitis C treated with Boceprevir or Telaprevir. Submitted.

Stewart TG, Wu MC, Zeng D. Augmented weighted support vector machines for missing covariates. In preparation.

Stewart TG, Wu MC, Zeng D. Doubly Robust Support Vector Machines for Missing Covariates. In preparation.

Vinikoor-Imler L, **Stewart** TG, Luben TJ, Davis JA, Langlois PH. An exploratory analysis of the relationship between ambient ozone and particularte matter concentrations during early pregnancy and selected birth defects in Texas. Submitted.

PRESENTATIONS

Stewart TG, Wu MC, Zeng D. Methods for support vector machines when the training set includes incomplete data. *ISBIS and SLDM Meeting on Data Mining in Business and Industry in Durham, NC*, 2014a.

Stewart TG, Wu MC, Zeng D. The augmented and weighted support vector machine for binary classification of incomplete data. *ENAR Spring Meeting in Baltimore, MD*, 2014b.

Stewart TG, Wu MC, Zeng D. The augmented and weighted support vector machine for binary classification of incomplete data. *UNC Research Computing Symposium*, 2014c.

Gordon SC, Muir AJ, Lim JK, Pearlman B, Argo CK, Ramani A, Maliakkal B, Alam I, **Stewart** TG, Vainorius M, Peter J, Nelson DR, Fried MW, Rajender Reddy K. The Frequency and Management of Adverse Events in Chronic Hepatitis C (HCV) Treated with Boceprevir or Telaprevir: Real World Experience from the HCV-TARGET Longitudinal Observational Study. *AASLD 64rd Annual Meeting in Washington, DC*, 2014.

Afdhal NH, Reau N, Everson GT, Morelli G, Lok AS, Sherman KE, Dickson RC, Regenstein F, Mena EA, **Stewart** TG, Fried MW,

Reddy KR. Safety and Efficacy of Telaprevir (TVR) or Boceprevir (BOC) in Patients with Cirrhosis: Interim Results of a Longitudinal, Observational Study. *AASLD 64rd Annual Meeting in Washington, DC*, 2013.

Aronsohn A, Stainbrook T, Mohanty S, Mubarak A, Spivey J, Pandya PK, **Stewart** TG, Fried MW, Jacobson IM. Impact of Age on Safety and Treatment Response in Patients with Hepatitis C (HCV) Treated With Boceprevir or Telaprevir. *AASLD 64rd Annual Meeting in Washington, DC*, 2013.

Di Bisceglie AM, Kuo A, Rustgi VK, Sulkowski MS, **Stewart** TG, Fenkel JM, El-Genaidi H, Mah'moud MA, Abraham GM, Fried MW, Sterling RK. Virologic Outcomes and Adherence to Treatment Algorithms in a Longitudinal Study of Patients with Chronic Hepatitis C Treated with Boceprevir (BOC) or Telaprevir (TVR) in the United States (HCV-TARGET). *AASLD 64rd Annual Meeting in Washington, DC*, 2013.

Fried MW, Reddy KR, Di Bisceglie AM, Jensen DM, Jacobson IM, Sulkowski M, Terrault N, Afdhal N, Gordon S, Pockros P, Kwo P, Everson G, Sherman KE, Muir AJ, Pearlman B, **Stewart** TG, Vainorius M, Peter JA, Nelson DR. HCV-TARGET: A Longitudinal, Observational Study of North American Patients with Chronic Hepatitis C Treated with Boceprevir or Telaprevir. *EASL 48th Annual Meeting in Amsterdam, Netherlands*, 2013.

Mercier DA, Appolo BA, Cardona DE, Scherschel AC, Horne P, Hubbard SB, Richards L, Keller AL, **Stewart** TG, Vainorius M, Peter JA. [Poster] Pre-Treatment Education and Treatment Completion in Patients with Hepatitis C (HCV) Treated with Boceprevir (BOC) or Telaprevir (TVR). *AASLD 64rd Annual Meeting in Washington, DC*, 2013.

Berggren EK, **Stewart** TG, Boggess K. The association of glycosylated hemoglobin (HbA1c) with infant birthweight among women with gestational diabetes: a classification and regression tree (CART) analysis. *American Journal of Obstetrics and Gynecology*, 206(1):S252, 2012.

Research Experience

HCV-TARGET, Research Assistant, August 2012 – present.
Provide statistical consulting and data management to HCV-TARGET, an academic consortium of Hepatitis C investigators. Collaborate with investigators to plan and execute observational studies related to patient safety and outcomes.

D. Neil Hayes Research Laboratory, August 2012 – present.
UNC Lineberger Cancer Center. Provide statistical analyses. Recent projects include exploratory analyses involving certain genetic pathways in certain types of lung cancer.

NC Injury & Violence Prevention Branch, January – July 2011.
Created a simple user interface and a number of SAS scripts to help public health experts synthesize injury data. The researchers use the interface to create publication-ready reports with a few simple mouse clicks (no SAS programming on the user's side). You can see an example of the output here (link).

UNC Dept of Psychiatry, Summer 2010.
Wrote SAS scripts to help researchers manage data from an ongoing, multicenter clinical research study. Helped research assistants establish data quality protocols.

Tolley Consultants, September 2007 – June 2008.
Analyzed state Medicaid claims and cost data from four states as part of a drug safety lawsuit. Job responsibilities included managing large data sets and performing matched pairs case-control analyses.

Teaching Experience

BIOSTAT 600, Principles of Statistical Inference, UNC
Instructor, Fall 2011.
Designed and taught introductory biostatistics course for incoming graduate students in the UNC School of Public Health. Lectured and evaluated 120 students.

Teaching Assistant / Grader, 2004 – 2010.
BIOSTAT 767, UNC, Longitudinal Analysis
BIOSTAT 600, UNC, Principles of Statistical Inference
STAT 642, BYU, Prob Theory & Math Stat 2
STAT 641, BYU, Prob Theory & Math Stat 1
STAT 545, BYU, Stochastic Processes
STAT 441, BYU, Probability and Distribution Theory
MATH LAB, BYU, Undergraduate courses in mathematics.
ECON 110, BYU, Economic Principles and Problems

Software

Statistical Software: R, SAS, Matlab
Operating System: MS Windows, Linux

Professional Organizations

American Statistical Association
International Biometrics Society, Eastern North American Region
International Chinese Statistical Association
Royal Statistical Society
Research Triangle Analysts
Research Triangle SAS Group

Service

UNC Biostatistics Student Association, Treasurer, 2012-2014
UNC Bios Information Technology Committee, Member, 2011