
Spring 2004 Meeting Notice
Northeastern Illinois Chapter
American Statistical Association

DATE: Thursday, March 4, 2004 (Luncheon at 11:30 a.m.)

LOCATION: Adam's Mark Hotel, 2875 N. Milwaukee Ave, Northbrook, IL 60062. (Telephone: 847-298-2525.)

RESERVATIONS: Advance reservations are required and must be received by 4 p.m., Thursday, February 26. Cancellations cannot be accepted after this date, and "no shows" will be billed. Registration is transferable except for the \$5 in membership dues (\$1 for students) that is included in the non-member fees. (Please circle in the following table the amount you are paying.)

FEES:	Luncheon & Sessions		Sessions Only		NIC
	Member	Non-Member	Member	Non-Member	Membership Only
Regular (Corp./Govt.)	\$50.00	\$55.00	\$25.00	\$30.00	\$5.00
Academic (Univ./H.S.)	\$40.00	\$45.00	\$15.00	\$20.00	\$5.00
Full-time Student	\$11.00	\$12.00	no charge	\$1.00	\$1.00

Since membership is held on a calendar year basis, if you have not expressly joined the Chapter this year, you should pay the non-member rate. Doing so will make you a member for 2004.

PAYMENT: Make checks payable to: Northeastern Illinois Chapter, ASA

REGISTRATION: Please mail, e-mail or fax (no call-ins please) the registration form (below) to:

Jimmy Sun

D-07B2 AP5N

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100 Abbott Park Road

Abbott Park, IL 60064-3500

Phone: (847) 937-9776

Fax: (847) 935-3320

Email: jimmy.sun@abbott.com

PROGRAM:

11:00 – 11:30 Registration

11:30 – 12:30 Luncheon

12:30 – 13:30 Speaker: Robert Gibbons – Continued Inequity in our Nation's Organ Transplant System

13:30 – 13:45 Break

13:45 – 14:45 Speaker: Nassar Hadidi – Classification Ratemaking Using Decision Trees

14:45 – 15:00 Break

15:00 – 16:00 Speaker: Whitney Whitt – Correlates of Mental Healthcare Use among Children w/Disabilities in the U.S.

NORTHEASTERN ILLINOIS CHAPTER MEETING REGISTRATION/MEMBERSHIP DUES

Name _____

Company _____ Department _____

Street Address _____ Work _____ Home _____

Telephone (____) _____ Work _____ Home _____ E-mail address _____

I will be attending: ☐ Luncheon and Sessions ☐ Sessions only ☐ Membership Dues Only

2004 NIC/ASA member prior to this registration? (See FEES for details) ☐ Yes ☐ No

Membership Type: (1) Regular (Corp./Govt.); (2) Academic (Univ./H.S.); (3) Full-Time Student

Tax Identification Number 52-1665956

21th Annual Spring

Classification Ratemaking Using Decision Trees

Manual rating of specific risks begin with a base rate, which is then modified by appropriate relativity factors depending on the characteristics of each risk. Classical methods of driving relativities are described by McClenahan (1996) and Finger (1996). A number of different modeling procedures are described in Brown's paper. These methods generally rely on the "multiplicative" or "additive" assumptions, which may not be reasonable for all types of risk. In this paper an alternative method of calculating indicated relativities is described, and demonstrated using a commercial Business Owners' Product (BOP) data set. Accident year 1997 to 2000 data are used to describe the method. The results are then applied to claims with accident year 2001. The derived 2001 relativities are compared with observed relativities, thereby demonstrating the extent of suitability of this method.

Nasser Hadidi, Ph.D.m FCAS, MAAA University of Wisconsin- Stout

Dr. Hadidi is a Professor in the Department of Mathematics, Statistics, and Computer Science at the University of Wisconsin-Stout. He is a fellow of Causality Actuarial Society (FCAS) and a member of American Academy of Actuaries (MAAA). He received his Ph.D. in Statistics from Virginia Polytechnic Institute and State University and post doctorate studies at University of Oslo, Oslo, Norway. He has continuously been active in teaching, research, scholarly activities, administration and consulting.

He teaches both at the undergraduate and graduate levels, including a course in the

MBA program at University of St. Thomas. His research activities have resulted in published articles in several peer reviewed journals. His recent consulting projects have been primarily related to actuarial practice and statistics but also have included marketing. He is heavily involved with Casualty Actuarial Society Committees.

Continued Inequity in our Nation's Organ Transplant System: A Statistical Perspective

One of the most visible and contentious issues regarding the fairness of the U.S. organ transplant system is the large geographic disparity in waiting time. In 1999 Congress proposed rule changes. Based on analysis of the 68,000 liver transplant waiting list record, the committee recommended that organs be shared more broadly across geographic boundaries. This recommendation was adopted in DHHS Final Rule, but has not been fully implemented by Congress. Following the IOM report, regional sharing was implemented for the most severely ill Status 1 patients, but local allocation of organs for all other patients has remained unchanged, leading to transplantation of a less severely ill patient in one Organ Procurement Organization (OPO) while more severely ill patients in another OPO die waiting. The statistical foundations of the original IOM study will be presented (generalized non-linear mixed-effects regression models) and the results and policy implications explicated. More recent analyses of the current system and the effects of recent changes in the liver allocation system will be presented.

Robert D. Gibbons, Ph.D.
Center for Health Statistics
University of Illinois at Chicago

Dr. Robert D. Gibbons is the director for the Center for Health Statistics at the University of Illinois at Chicago and Professor of Biostatistics and Psychiatry. He received his PhD in 1981 from the University of Chicago. His work is best known in the areas of mixed-effects regression models for biostatistical applications, and in the area of environmental statistics, with emphasis on environmental regulatory statistics. Dr. Gibbons is a Fellow of the American Statistical Association and recipient of the Youden Prize for contributions to statistics in chemistry. He is a member of the Institute of Medicine of the National Academy of Sciences and serves on their Health Science Policy Board. He is the author of three books and over 150 peer reviewed publications. His most recent book *Statistical Methods for Detection and Quantification of Environmental Contamination* was rated as one of the top 5 books for statisticians. As implied by the title of this lecture, the common theme in his work is the interface between public policy and statistical science.

Correlates of Mental Healthcare Use among Children with Disabilities in the U.S.

The use of mental health services and correlates of receiving services among community-dwelling children with disabilities, ages 6 to 17, was examined. The data for the study sample of 4,939 children with disabilities, representing eight million children with disabilities nationwide was obtained from the 1994 and 1995 National Health Interview Survey Disability Supplements (NHIS-D), conducted by the National Center for Health Statistics.

Findings indicate that only two in five disabled children with poor psychosocial adjustment receive mental health services. Multiple logistic regression analysis showed service use was associated with poor psychological adjustment; communication, social, and learning-related functional impairments; public health insurance; and financial family burdens. Differences by age,

race, and insurance coverage suggest that inequalities to access exist. However, the school setting may be one in which some barriers to mental health services for disabled children are reduced. This study also explains how the involvement of health care professionals in care coordination is associated with greater access to mental health care for disabled children. These findings will demonstrate the importance of engaging both health care professionals and the family in the care process.

Whitney P. Witt, Ph.D.,

Northwestern University Feinberg School of Medicine

Dr. Whitney P. Witt, Ph.D., MPH is an Assistant Professor of Medicine in the Division of General Internal Medicine and Center for Healthcare Studies at the Northwestern University Feinberg School of Medicine. She holds a Ph.D. in health services research and a MPH from the Johns Hopkins Bloomberg School of Medicine and a B.A. in women's studies and law from Hampshire College. Prior to her current position at the Center, Dr. Witt received post-doctoral training in pediatric health services research and served as a Research Fellow at the Harvard School of Medicine in the Mass. General Hospital for Children. Dr. Witt's prior work focuses predominately on people living with HIV/AIDS, including children and their families. Over the last five years, she has applied her experience in advocacy, policy, and research on vulnerable and high-cost, chronically ill populations to the field of maternal and child health services research. Dr. Witt's research emphasizes the importance of family adaptation in ensuring the mental health of children with disabilities and for helping these children obtain access to mental health services.

Most recently, her work has focused on the impact of maternal depression on familial health and mental health, preventative care practices, and use of health and mental healthcare services. Dr. Witt's future work will further explore how and to what extent living and/or caring for a chronically ill person results in negative health

and mental health outcomes for spousal and non-spousal caregivers.

~Renee Alpern

President's Report

As President of the Northeastern Illinois Chapter of the American Statistical Association (NIC/ASA), I would like to welcome you all (members and their friends) to an exciting new year. Several interesting talks were presented at our 2003 Spring and Fall Meetings, and we hope to continue the tradition of inviting good speakers with interesting topics to our meetings. The 2003 Summer Workshop on Data Mining, presented by Professor Dick DeVeaux, was indeed a success. Thank you all for your support.

This year we have already lined up speakers with what we believe are exciting topics to present at our Spring and Fall Meetings, and Professor Hedeker has agreed to present a one-day short course on Mixed Models at our Summer Workshop.

One of my missions as President of the NIC/ASA is to strengthen our Chapter by recruiting more members and encouraging past, present and future members to attend the meetings. We have already contacted several businesses in Northeastern Illinois to gain their support in this endeavor and would very much appreciate your efforts in this regard. This may help resolve the declining membership problem of our Chapter and would enable us to better serve our statistical community.

~ Bala Hosmane

Community Activities

The Region 6 Science Fair is Saturday, March 13th, at Christian Liberty High School in Arlington Heights. Please contact me if you care to judge and represent our organization as we

seek students whose projects make the best use of statistics. Please e-mail me at cbernnett@ix.netcom.com

Last year we had a team of 5 and we hope to do the same or have more this year. Judging is from 9 in the morning until noon.

~Carole Bernett

Treasurer's Report

BALANCE 01/01/2004	4,964.13
INCOME	
2003 Spring Meeting	2,644.00
2003 Summer Workshop	6,080.00
2003 Fall Meeting	2,050.00
Bank Interest (thru 12/31/2003)	43.18
Total Income	10,817.18
TOTAL ASSETS	15,781.31
EXPENSES	
2003 Spring Meeting	(2,286.90)
Design Conf. Support	(500.00)
Workshop Hotel Deposit	(500.00)
Workshop Tuition Refund	(80.00)
Summer Workshop Hotel Bill	(3,857.19)
Summer Workshop	(1,500.00)
Honorarium Presenter Expenses	(654.11)
Fall 2003 Meeting Expenses	(2,410.93)
Bank Charges	(6.00)
Labels	(51.99)
AP Statistics Workshop	(157.50)
Total Expenses	(12,004.62)
BALANCE 12/31/2003	3,776.69

~ Jimmy Sun

Spring Meeting

The spring meeting will be held on March 4, 2004, at the Adam's Mark Hotel, 2875 N. Milwaukee Ave., Northbrook, IL 60062. The telephone number is 847-298-2525. Directions to the hotel are available at www.mapquest.com.

If you have special needs, please contact: Peter Yu (847-236-2359; peter.yu@tappharma.com) or Chris Sullivan (773-327-9607; csullivan@childrensmemorial.org).

~Chris Sullivan

Chapter Website

Don't forget to visit our Chapter web page at <http://www.amstat.org/chapters/NortheasternIllinois>. The website has lots of information about our Chapter, including events, program information, and contact information for Chapter officers and committee members. You can also peruse PDF versions of current and past Chapter newsletters. Finally, if the speaker provides them, slides/notes from previous presentations are available to view or download.

~Paul Cernohous

Calendar

The following are some upcoming meetings/conferences that may be of interest:

- International Biometric Society Eastern North American Region (March 28-31, 2004; Pittsburgh, Pennsylvania)
- 27th Annual Midwest Biopharmaceutical Statistics Workshop (May 24-26, 2004; Muncie, Indiana)
- 40th Annual Meeting of the Drug Information Association (June 13-17, 2004; Washington, DC)
- Workshop on Teaching Introductory Statistics with Data and Activities at Post-Calculus Level (June 21-25, 2004; San Luis Obispo, California)
- XXII International Biometric Conference (July 11-16, 2004; Cairns, Australia)
- Joint Statistical Meetings (August 8-12, 2004; Toronto, Ontario)

~Rick Rode

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Statfax welcomes letters and material for articles from its readers. Address correspondence to: The Editor, Statfax, c/o Anita Ross, Ross Consulting, 4554 Main St., Skokie, IL, 60076.

The Chapter's purpose, as stated in its Constitution, is "to foster statistics and its applications and promote the interests of the statistical profession...". Accordingly, diverse views are presented. They do not necessarily reflect the opinions of the officers or the policies of the Chapter.
