

Fall 2004 Meeting Notice
Northeastern Illinois Chapter
American Statistical Association

DATE: Thursday, October 14, 2004 (Luncheon at 11:30 a.m.)

LOCATION: Radisson Hotel Northbrook, 2875 N. Milwaukee Avenue, Northbrook, IL 60062. (Tel. 847-298-2525).

RESERVATIONS: Advance reservations are required and must be received by 4 p.m., Thursday, October 7. 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.

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
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Abbott Laboratories Fax: (847) 935-3320
100 Abbott Park Road Email: jimmy.sun@abbott.com
Abbott Park, IL 60064-3500

PROGRAM:

- 11:00 – 11:30 Registration
- 11:30 – 12:30 Luncheon
- 12:30 – 13:30 Speaker: Mercedes Carnethon – Comparisons of Methods to Identify Risk Factor Clusterings: the Metabolic Syndrome
- 13:30 – 13:45 Break
- 13:45 – 14:45 Speaker: Devan V. Mehrotra – Statistical Methodology for Evaluating a Cell Mediated Immunity-Based HIV Vaccines
- 14:45 – 15:00 Break
- 15:00 – 16:00 Zvi Gilula: Ranking Ordinal Multinomials with Special Application to Multi-Arm Clinical Trials

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

21st Annual Fall 2004

Comparisons of Methods to Identify Risk Factor Clusterings: the Metabolic Syndrome

An apparent clustering of metabolic and non-metabolic risk factors for the development of diabetes and coronary heart disease (CHD) has long been recognized. While the metabolic syndrome was initially proposed with insulin resistance at its core, a number of other risk factors, including elevated blood pressure, glucose and uric acid, obesity, dyslipidemia, and microalbuminuria have been proposed as components of the syndrome. Researchers have used multiple logistic regression, log-linear modeling, factor analysis, signal detection analysis, and classification and regression tree analysis in an attempt to investigate this syndrome with varying results. Key questions which remain unanswered include: 1) whether this clustering occurs more often than expected by chance alone; 2) which components comprise this cluster; 3) how the selected cutpoints of the components relate to the endpoints of interest. This presentation will provide examples from the literature and our research demonstrating consistency (or lack thereof) of answers to these questions using varying analytic strategies.

Mercedes Carnethon, Ph.D.
Northwestern University Feinberg School of Medicine

Dr. Carnethon is an Assistant Professor of Preventative Medicine in the Feinberg School of Medicine at Northwestern University. She earned a MSPH and Ph.D. in epidemiology from the University of North Carolina, Chapel Hill. Prior

to joining the faculty at Northwestern in 2002, she completed a postdoctoral research

fellowship in cardiovascular disease. Her research in cardiovascular disease and diabetes is published in numerous peer-reviewed journals. Last year, Dr. Carnethon earned a Mentored Career Development Award (K award) from the National Heart, Lung, and Blood Institute to investigate the role of the autonomic nervous system on the development of insulin resistance and diabetes. Other areas of interest include the metabolic syndrome, physical fitness, and the role of statistical methodology in clinical decision-making.

Dr. Carnethon is an active Associative Fellow of the American Heart Association (AHA), Council on Epidemiology and Prevention, serving as a member of the committee on minorities and women, and as a liaison to the Council on Nutrition, Physical Activity, and Metabolism.

She is also a member of the American Diabetes Association, Council of Epidemiology and Statistics, the American College of Epidemiology, and the Society for Epidemiologic Research.

Statistical Methodology for Evaluating a Cell Mediated Immunity-Based HIV Vaccines

Several researchers worldwide are developing HIV vaccines designed to elicit cell mediated immune (CMI) responses (as opposed to neutralizing antibody responses). Although such vaccines might not prevent HIV infection, they might lead to attenuation of disease and significant clinical benefit by preventing or delaying the progression to AIDS. HIV RNA (viral load) set-points have been shown to correlate with disease progression and should provide a measure of vaccine effect among those

who become infected following vaccination. Prior to embarking on a large scale efficacy trial of a candidate vaccine, it would be prudent to conduct a smaller screening trial to generate supportive data for the CMI concept. The primary objective of such a proof-of-concept (POC) trial would be to demonstrate that the vaccine has a positive impact on either the infection and/or the viral load endpoint, relative to placebo. In this talk, we will develop and compare several statistical methods for evaluating a CMI-based HIV vaccine in the context of a POC trial. An illustrative example and simulation results will be provided to reinforce the key points, and to support specific recommendations.

Devan V. Mehrotra, Ph.D.
Merck Research Laboratories

Dr. Devan Mehrotra has worked as a biostatistician for 13 years, and is currently Director of Clinical Biostatistics at Merck Research Laboratories. He received his Ph.D. in statistics from the University of Delaware in 1991. He has published papers on several different statistical topics, and is frequently invited to present seminars at conferences and academia. Dr. Mehrotra has received the best contributed biopharmaceutical paper award at the Joint Statistical Meetings on three occasions as presenter, and once as a co-author. He holds adjunct faculty appointments at the University of Pennsylvania and Villanova University. He is also an associate editor for both the Journal of Biopharmaceutical Statistics and the Biometrical Journal. His other professional activities have included serving as President and Vice President of the Philadelphia Chapter of the American Statistical Association, serving on the steering committee of the annual FDA/Industry Statistics Workshop, and as a consultant to the Center for Scientific Review at the National Institute of Health.

Ranking Ordinal Multinomials with Special Application to Multi-Arm Clinical Trials

Exploratory and confirmatory methods for ranking empirical distributions concerning the same ordinal variable will be discussed in detail. The need for such ranking is quite obvious in marketing applications where ranking of brands (e.g. cars) by the satisfaction of customers using or buying these brands is relevant. The same methodology can be used in multi-arm clinical trials where the efficacy parameter is the doctor's subjective impression of healing which is quite common in dermatology. Real life examples will be presented and analyzed.

Zvi Gilula, Ph.D.
University of Jerusalem and University of Chicago

Zvi Gilula is a Professor of Statistics at the Hebrew University of Jerusalem in Israel and Adjunct Professor of Statistics, Econometrics, and Marketing Research at the University of Chicago, Graduate School of Business. Zvi's area of expertise is categorical data analysis, market research, and risk analysis. Since 1986 he has been an associate editor for JASA. Also, he has been a consultant for Fortune 500 companies since 1985.

~Renee Alpern

President's Report

Thank you all for supporting our organization (NIC-ASA) in bringing programs (talks and workshop) of interest to us all. Our membership count seems to hold steady and hope it continues to grow so that we don't have to look for alternatives like merging with Chicago chapter. Although we wanted more student participation in our chapter activities, this might take some more time and efforts from all of us.

I would like to take this opportunity to thank Drs. Sanjib Basu, Brent Logan, Domenic Reda (Fall 2003), Nasser Hadidi, Robert Gibbons, Whitney Witt (Spring 2004) for taking time to come and give us excellent talks and Don Hedeker for

presenting an exciting and very useful Summer Workshop on Mixed Models.

We sent out survey questionnaire to our members to help us improve the way we serve our members. I would like to thank Dr. Saeki Noriko for kindly agreeing to collect and analyze the data for us. There were only 38 responses and here is a summary of the survey:

- i. 50% of the members attended between 1 to 3 NIC/ASA meetings.
- ii. 38.7% could not attend meetings due to schedule conflict.
- iii. The top three choices of topics of interest for future meetings are: Survival Analysis, Mixed Models and Missing Data.
- iv. The top three choices of topics for future workshop are: Categorical Data, Survival Analysis, Mixed Models or Missing Data.
- v. 67.7% indicated that they are not more likely to attend a meeting if it was hosted by a company in the local area.
- vi. 58.3% indicated that they are not more likely to attend a meeting if at least one presentation was focused on a topic other than biostatistics.
- vii. 82.9% did not want more frequent meetings with fewer speakers.
- viii. 68.6% are not likely to attend a meeting if it started later in the day.
- ix. 76.5% are not likely to attend a meeting if the meeting were less frequent.

~ *Bala Hosmane*

Fall Meeting

The fall meeting will be held on October 14, 2004, at Radisson Hotel Northbrook, 2875 N. Milwaukee Avenue, 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*

Treasurer's Report

BALANCE 01/01/2004	3,776.69
INCOME	
2004 Spring Meeting	1,905.00
2004 Summer Workshop	6,995.00
2004 Fall Meeting	0.00
Bank Interest (thru 08/31/2004)	9.28
Total Income	8,909.28
TOTAL ASSETS	12,685.97
EXPENSES	
Bank Charges	(28.00)
2004 Spring Meeting	(1,785.06)
2004 Summer Workshop	(5,947.90)
Spring Presenter Expenses	(320.60)
Summer Presenter Expenses	(1750.00)
Total Expenses	(9,831.56)
BALANCE 12/31/2003	2,854.41

~ *Jimmy Sun*

Chapter Rep's Report

I would like to thank Dr. Yi-Lin Chiu from Abbott Laboratories for representing me at the Council of Chapters' Workshop at the Joint Statistical Meetings in Toronto. One of the topics discussed is partnering with other organization and institutions to host joint events, especially if these chapters have low membership and are geographically located closely. Chapters shared their experiences with organizing different activities, such as "university day" and "statistics week". In addition to career days, science fairs, and project/poster competitions, an idea was brought up to organize an event similar to the Science Olympiad which involve middle/high

school students from mathematics/science magnet schools.

~ *Bala Hosmane*

Nominations for 2005 Chapter Officers

At the business portion of the Fall Chapter Meeting, scheduled for 14 October 2004, we will elect officers for the 2005 calendar year (January 1 – December 31, 2005). The nominees for 2005 Chapter Officers are as follows:

President-Elect/Program Chair

Jeffrey D. Isaacson, Ph.D., Senior Statistician II in Global Pharmaceutical Research & Development. He received a Ph.D. in Statistics from the University of Iowa (1998) and a B.A. in Mathematics and Computer Science from Wartburg College (1993). He joined Abbott Laboratories in 1998 as a member of the Clinical Statistics department. He provided statistical support for the virology section of the Kaletra NDA and is currently supporting oncology research and development. He is a member of the American Statistical Association and the American Society of Clinical Oncology. Dr. Isaacson has co-authored manuscripts in several journals. Jeff resides in Grayslake, Illinois.

Secretary

Coleen Hall is a Statistician in the Clinical Statistics department of Abbott Laboratories. She received an M.S. in Biostatistics from the University of Illinois at Chicago. Prior to joining Abbott, Coleen held positions at the Hines VA Cooperative Studies Program Coordinating Center and the University of Illinois Health Research Policy Center.

Treasurer

Jimmy Sun received his B.S. degree in Instrumentation Design Engineering from Shanghai University of China in 1984; and received an M.S. degree in Applied Statistics from the Graduate School of Louisiana State University in 1994 with minors in Chemistry and

Quality Control. He was a biomedical instrumentation design engineer at Shanghai Medical Equipment Research Institute for five years from 1984 to 1989. After graduate school he worked as a Quality Engineer/New Product Development Manager at Yaskawa Electric of America. In 1996 he formed his own consulting firm, and also worked as a statistical consultant at Abbott Labs. He became an Abbott Employee in 2002.

Jimmy has been involved in the NIC/ASA chapter activities since year 2000. He created a database for chapter meeting registration and membership purposes and volunteers at the registration table for all the chapter meetings. He was elected Treasurer for year 2004.

~*Rick Rode*

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:

- FDA/Industry Statistics Workshop (September 21-23, 2004; Washington, DC)
- Adaptive Clinical Trial Designs (October 19, 2004; College Park, Maryland)
- BASS XI: The 11th Annual Meeting of the Biopharmaceutical Applied Statistics Symposium (November 1-5, 2004; Savannah, Georgia)

- 60th Annual Deming Conference on Applied Statistics (December 6-10, 2004; Atlantic City, New Jersey)

For additional meetings or information, visit Calendar of Events on the ASA website (www.amstat.org).

~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.
