

**Department of Public Health Sciences
Division of Biostatistics and Epidemiology**

Annual Report
2005-2006

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Division Members 2005-2006

Robert Abbott, MPH, MA, PhD	Professor
Viktor Bovbjerg, MPH, PhD	Associate Professor
Hyungjun Cho, MS, PhD	Assistant Professor
Mark Conaway, PhD	Professor and Director
Kelly Gurka, MPH	Visiting Scholar
Matt Gurka, PhD	Assistant Professor
Jae Lee, PhD	Associate Professor
Lei Liu, PhD	Assistant Professor
Jennie Ma, PhD	Associate Professor
James Patrie, MS	Senior Biostatistician
Gina Petroni, PhD	Professor
Jianfen Shu, MS	Biostatistician III
Mark Smolkin, MS	Biostatistics III
George Stukenborg, PhD	Associate Professor
Doug Wagner, PhD	Professor
Hongkun Wang, PhD	Assistant Professor
Xin-Qun Wang, PhD	Senior Biostatistician
Paul Williams, PhD	Research Scientist
Guofen Yan, PhD	Assistant Professor

EXECUTIVE SUMMARY

The Division of Biostatistics and Epidemiology in the Department of Public Health Sciences has provided valuable expertise to support the teaching and research missions of the School of Medicine. Faculty members in the Division of Biostatistics and Epidemiology have pursued independent research through grants and publications. Members of the Division provide service to national organizations including NIH study sections, journal editorial boards and Data Safety Monitoring Boards and serve on numerous School of Medicine and University-wide committees.

Teaching

In the 2005-2006 academic year, the Division was responsible for teaching 13 full-semester courses in the Department of Public Health Science M.S. and MPH programs. Division members contributed substantial efforts to courses coordinated in other departments, journal clubs, lectures to residents and fellows, and in student advising of M.S. and PhD students in other departments as well as in DPHS. An innovation this year was the development of a novel curriculum for PHS 751, Applied Biostatistics. The format combined features of a traditional lecture-style biostatistics course with the discussion-format of a journal club.

Grants

Members of the Division currently support 33 NIH-funded projects as co-investigators, including 6 center grants or program projects. Two Division members are currently leading grants as the principal investigator. Activity in this area is increasing; there are currently 6 grants under review with Division members as PI. For the 18-month period from July 2005 through December 2006, division members collaborated on 74 grant submissions, an average of 4 per month.

Publications

Division members had 21 peer-reviewed publications in 2005 and 2006 as the first- or senior-author. Consistent with the Division's collaborative responsibilities, Division members were authors on an additional 76 publications in 2005 and 2006.

National reputation

In addition to their work on grants and publications, members of the Division contributed significantly to the University of Virginia's reputation and visibility at the national level. Division members served on 18 national committees, including study sections, review panels and Data Safety Monitoring Boards and gave 11 national or international invited talks.

Committees

Division members serve on many of the most important research committees in the University and the School of Medicine, including the Institutional Review Board, the GCRC Protocol Review Committee, the Cancer Center Protocol Review Committee, the Cancer Center Data Safety and Monitoring Committee and the Children's Hospital Grant Review Committee. Division members have served on a number of administrative committees including the School of Medicine Promotion and Tenure Committee.

TEACHING

A. Semester Courses

i. Fall 2005

<i>Instructor</i>	<i>Course</i>	<i>Course number</i>	<i>Students</i>	<i>Class hours</i>
Bovbjerg, V Gurka, K	Fundamentals of Epidemiology	HES 701	28	42
Bovbjerg, V	Cells to Society		7	
Conaway, M	An Introduction to Biostatistics	HES700 STAT500	28	42
Lee, J	Statistical Bioinformatics in Medicine	HES 795	18	42
Petroni, G	Introduction to Clinical Trials	HES 731		6
Stukenborg, G	Clinical Epidemiology	MED 632	15	5
Stukenborg, G	Cells to Society		7	
Wagner, D	Introduction to SAS	HES 717		14
Wagner, D	Clinical Epidemiology	Med 632	15	5

ii. Spring 2006

<i>Instructor</i>	<i>Course</i>	<i>Course number</i>	<i>Students</i>	<i>Class hours</i>
Bovbjerg, V Pastore, L.	Applied Epidemiologic Methods	HES 702	13	42
Entire Division	Biostatistics II	HES 750	22	42
Stukenborg, G	Health Technology and Outcomes Evaluation	HES 712	13	42
Wagner, D	Health Care Economics	HES 709	9	42

iii. Summer 2006

<i>Instructor</i>	<i>Course</i>	<i>Course number</i>	<i>Students</i>	<i>Class hours</i>
Gurka, M	Pediatric Fellows Statistics Symposium: <i>Statistics and Epidemiology in Clinical Research</i>		10	4 day short course

iv. Fall 2006

<i>Instructor</i>	<i>Course</i>	<i>Course number</i>	<i>Students</i>	<i>Class hours</i>
Bovbjerg, V	Cells to Society		7	
Conaway, M	Statistical Methods in Clinical Trials	STAT531	25	42
Gurka, K	Fundamentals of Epidemiology	PHS701	32	42
Gurka, M	An Introduction to Biostatistics	PHS700 STAT500	35	42
Petroni, G	Advanced Topics in Cancer	BIMS841	15	1.5
Stukenborg, G	Clinical Epidemiology	MED632		5
Stukenborg, G	Cells to Society			
Wagner, D	Introduction to SAS	PHS717		14
Wagner, D	Clinical Epidemiology	MED632	15	5

B. Lectures, Symposia or Journal Clubs at UVA

<i>Speaker</i>	<i>Date</i>	<i>Topic</i>	<i>Location</i>
Bovbjerg, V	10/06	The role of non-randomized studies in clinical research	MTPCI
Conaway, M	08/05	Introduction to Biostatistics	Department of Otolaryngology
Conaway, M	08/05	Introduction to Biostatistics	Department of Physical Medicine and Rehabilitation

Speaker	Date	Topic	Location
Conaway, M	10/05 10/06	Choosing Endpoints in Clinical Studies	Internal Medicine Residents Lecture Series
Conaway, M	02/06	Estimating Reference Centiles	Dept of Public Health Sciences, Research Conference
Conaway, M	05/06	Choosing Endpoints in Clinical Studies	Radiation Oncology Residents Lecture Series
Conaway, M Lyman, J Cohn, W	06/06	Statistics and Outcomes Research	Introduction to Clinical Research
Conaway, M	09/06	Experimental design of clinical studies: role of the biostatistician	MTPCI
Gurka M	08/05	An Introduction to Study Design	Department of Otolaryngology
Gurka, M	04/05	Statistics 101: The basics of statistical inference	Department of Pediatrics
Gurka, M	04/05	An Introduction to Study Design	UVA Children's Hospital Research Symposium
Gurka, M	04/05	An Introduction to Hypothesis Testing	UVA Children's Hospital Research Symposium
Gurka, M	05/06	An Introduction to Study Design	UVA Children's Hospital Research Symposium
Gurka, M	06/06	An Introduction to Meta-Analysis	Department of Pediatrics
Lee, J	11/05	Microarray gene expression studies and bioinformatics for biomarker discovery and molecular prediction of drug response	Digestive Research Center
Liu, L	10/05	Modeling recurrent event data by stratified frailty model for gap times.	Department of Statistics
Petroni, G	05/06	Randomized clinical trials	Radiation Oncology Residents Lecture Series
Petroni, G	10/05 10/06	Randomized controlled clinical trials	Internal Medicine Residents Lecture Series
Petroni, G	10/06	Randomized clinical trials	MTPCI
Stukenborg, G	09/05	How to assess articles in medical journals and related topics in biostatistics	GI and Hepatology Journal Club, Digestive Health Center of Excellence
Stukenborg, G	11/06	Overview of health outcomes research for HES 701	Dept of Public Health Sciences
Stukenborg, G	10/06	Introduction to statistical modeling	Internal Medicine Residents Lecture Series
Yan, G	10/06	Introduction to Multilevel Analysis	Rural Research Methods Workshop, School of Nursing

C. Student Advising

Instructor	Student	Program
Bovbjerg, V	Curtis Argo	MS HES thesis
Stukenborg, G	Jason LaChance	MS HES thesis
Stukenborg, G	Curtis Argo	MS HES thesis
Stukenborg, G Yan, G	Dierdre Thornlow	School of Nursing doctoral program
Stukenborg, G	Jaywant Parmar	School of Medicine Radiology Fellow
Yan, G	Irma H. Mahone	School of Nursing doctoral program
Yan, G	Bernice Mowery	School of Nursing doctoral program
Yan, G	Aletha Rowlands	School of Nursing doctoral program
Yan, G	Francie S. Bernier	School of Nursing doctoral program
Yan, G	Marianne Baernholdt	School of Nursing doctoral program
Yan, G	Nancy Crego	School of Nursing doctoral program

D. Faculty Development Mentoring

<i>Instructor</i>	<i>Student</i>	<i>Role</i>	
Bovbjerg, V	Christopher Davis MD	PhD committee	Medicine fellow

PUBLICATIONS

E. First or Senior Author:

1. **Cho H** and **Lee JK**. (2006). Response on the letter of Wu et al. (2006), *Bioinformatics*, June 20 web pre-publication.
2. **Cho H** and **Lee JK**. Capturing Heterogeneous Error In Small-Sample Microarray Data for Improved Statistical Discovery, *IEEE-SMC-A*, *forthcoming*
3. **Cho H**, Shashkin P, Jain N, Galkina E, Dunson D, **Lee JK**, Miller Y, and Ley K. (2006). Induction of Dendritic Cell-like Phenotype in Macrophages during Foam Cell Formation, *Physiological Genomics*, *forthcoming*.
4. **Gurka, M.J.*** (2006). Selecting the best linear mixed model under REML. *The American Statistician* 60: 19-26.
5. **Gurka, M.J.***, Edwards, L.J., Muller, K.E., Kupper, L.L. (2006). Extending the Box-Cox transformation to the linear mixed model. *Journal of the Royal Statistical Society, Series A* 169: 273-288.
6. **Gurka, M.J.***, Edwards, L.J., Nylander-French, L. Testing transformations for the linear mixed model. *Computational Statistics and Data Analysis* (in press).
7. **Gurka, M.J.***, Wolf A.M., **Conaway M.R.**, Crowther J.Q., Nadler J.L., **Bovbjerg V.E.** Lifestyle intervention in obese patients with Type 2 Diabetes: The impact of the patient's educational background. *Obesity* 14: 1085-1092.
8. Huang, X. and **Liu, L.** (2006). A joint frailty model for survival time and gap times between recurrent events. *Biometrics*. Accepted for publication.
9. Jain N, **Cho H**, O'Connell M, and **Lee JK** (2005). Rank-Invariant Resampling Based Estimation of False Discovery Rate for Analysis of Small Sample Microarray Data. *BMC Bioinformatics*, 6:187
10. **Liu, L.**, Wolfe, R. A., and Kalbfleisch, J. D. (2006). A random effects model for censored medical costs. *Statistics in Medicine*. In press.
11. Park T, Yi S, Lee S, **Lee JK**. (2005). Diagnostic plots for detecting outlying slides in a cDNA microarray experiment. *BioTechniques* 38, 463-471.
12. **Siadaty MS**, Knaus WA. Locating previously unknown patterns in data-mining results: a dual data- and knowledge-mining method. *BMC Med Inform Decis Mak*. 2006 Mar 7;6(1):13
13. **Siadaty MS, Shu J**. Proportional odds ratio model for comparison of diagnostic tests in meta-analysis. *BMC Med Res Methodol*. 2004 Dec 10;4(1):27.
14. Soukup M, **Cho H, Lee JK** (2005). Robust Classification Modeling on Microarray Data Using Misclassification Penalized Posterior, *Bioinformatics*, 21 (Suppl. 1)
15. **Stukenborg GJ**, Kilbridge KL, Wagner DP, Harrell FE, Oliver MN, Lyman JA, Einbinder J, Connors AF. Present-at-admission diagnoses improve mortality risk-adjustment and allow more accurate assessment of the relationship between volume of lung cancer operations and mortality risk. *Surgery*. 2005; 138: 498-507. [see also the accompanying commentary on this paper. Twomey P. Tweaking the tools of "Quality" measurement. *Surgery*. 2005; 138: 508-509].
16. **Stukenborg GJ**, Wagner DP, Harrell FE, Oliver MN, Heim SW, Price AL, Han CK, Wolf AMD, Connors AF. Present-At-Admission Diagnoses Improved Mortality Risk Adjustment Among Acute Myocardial Infarction Patients. *Journal of Clinical Epidemiology* [in press].
17. Thornlow DK, **Stukenborg GJ**. The association between hospital characteristics and rates of preventable complications and adverse events. *Medical Care*. 2006; 44: 265-269.

18. **Wagner, DP** (editorial) What accounts for the difference between observed and predicted? 34(5):1552-3, 2006 May. *Critical Care Medicine*, Vol XX,
19. **Wang, H** and Zhao H (2006), "Estimating Incremental Cost-Effectiveness Ratios and their Confidence Intervals with Differentially Censored Data," *Biometrics*, Vol 62, 570-575.
20. **Wang, H.** and Zhao, H. (2006). Regression Analysis of Mean Quality-Adjusted Lifetime with Censored Data. *Biostatistics*. In press.
21. **Yan G** and Sedransk J. (2006). Exploring the use of subpopulation membership in Bayesian hierarchical model assessment. *Journal of Data Science* 4, 413-424.

F. Collaborative:

1. Kahaleh, M. Tokar, J., **Conaway, M.**, Brock, A., Le, T., Adams, R. and Yeaton, P. (2005) Efficacy and complications of covered Wallstents in malignant distal biliary obstruction. *Gastrointestinal Endoscopy*, 61:528-533.
2. Long, C., Farrell, W., **Smolkin, M., Conaway, M.** and Blackman, J. (2005) "A Comparison of Developmental versus Functional Assessment in the Rehabilitation of Young Children" *Pediatric Rehabilitation*, 8 (2), 156-161.
3. Attridge, J.T., Herman, A.C., **Gurka, M.J.**, Griffin, M.P., McGahren, E.D., Gordon, P.V.* (2006). Discharge outcomes of extremely low birth weight infants with spontaneous intestinal perforations. *Journal of Perinatology* 26: 49-54.
4. Blackman, J.A.*, **Gurka, M.J.** Developmental and behavioral co-morbidities of asthma in children. *Journal of Developmental and Behavioral Pediatrics* 2006 (accepted).
5. Blackman, JA, Rice, SA, Matsumoto, JA; **Conaway, M.**, Elgin, K, Patrick, P., Farrell, W., Allaire, J., and Willson, D. (2005) "Brain Imaging as an Early Predictor of Outcome following Traumatic Brain Injury in Children" *Journal of Head Trauma Rehabilitation*, 18 (6): 493-503.
6. Blanchard, L., **Gurka, M.J.**, Blackman, J.A.*. (2006). Emotional, developmental, and behavioral health of American children and their families: A report from the 2003 National Survey Of Children's Health. *Pediatrics* 117: e1202-e1212.
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9. Casscells W, Vasseghi MF, **Siadaty MS**, Madjid M, Siddiqui H, Lal B, Payvar S. Hypothermia is a bedside predictor of imminent death in patients with congestive heart failure. *Am Heart J*. 2005 May;149(5):927-33.
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11. Chianese-Bullock KA, Woodson EMH, Tao HM, Boerner SA, **Smolkin M**, Grosh WW, Neese PY, Merrill P, **Petroni GR**, Slingluff CL. Autoimmune toxicities associated with the administration of antitumor vaccines and low-dose interleukin-2. *Journal of Immunotherapy* 28 (4): 412-419 Jul-Aug 2005.
12. Copp, H, Chin, J, **Conaway, M** and Theodorescu, D (2006) "Prospective evaluation of the prognostic relevance of molecular staging for urothelial carcinoma" *Cancer* 107 (1): 60-66.
13. Cragun WC, Yamshchikov GV, Bissonette EA, Smolkin ME, Eastham S, Petroni GR, Schrecengost RS, Woodson EM, Slingluff CL Jr. Low-dose IL-2 induces cytokine cascade, eosinophilia, and a transient Th2 shift in melanoma patients. *Cancer Immunology Immunotherapy* 54(11): 1095-1105 Nov 2005.
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- hyperpolarized helium-3 MR imaging. *Journal of Allergy & Clinical Immunology*, (in press) 2006.
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 17. Doctor, A., Platt, R., Sheram, ML., Eischeid, A., McMahon, T., Maxey, T., Doherty, J., Axelrod, A., Kline, J., **Gurka, M.**, Gow, A., Gaston, B.* (2005). Hemoglobin conformation couples S-nitrosothiol content in erythrocytes to O₂ gradients. *Proceedings of the National Academy of Sciences* 102: 5709-5714.
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 23. Hauenstein EJ, Petterson S, Merwin E, Rovnyak V, Heise B, **Wagner D**. Rurality, gender, and mental health treatment. *Family & Community Health*. 29(3):169-85, 2006 Jul-Sep.
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 25. Isbell, D.C., Meyer, C., Rogers, W., Epstein, F., DiMaria, J., Harthun, N, **Wang, H**, Kramer, C. (2006). "Reproducibility and Reliability of Atherosclerotic Plaque Volume Measurements in Peripheral Arterial Disease with Magnetic Resonance Imaging," *Journal of Cardiovascular Magnetic Resonance*, 2006 (in press).
 26. Johnson, B., Roache, J., Ait-Daoud, N., Wells, L., Wallace, C., Dawes, M., **Conaway, M., Liu, L. Wang, X-Q** (2006). Effects of Topiramate on Methamphetamine-Induced Subjective Mood. *International Journal of Neuropsychopharmacology*. doi:10.1017/S1461145705006401
 27. Johnson, B.A., Roache, J.D., Ait-Daoud, N., Wells, L.T., Wallace, C.L., Dawes, M.A., **Liu, L., Wang, X.-Q.**: Effects of topiramate on methamphetamine-induced changes in attentional and perceptual-motor skills of cognition in recently abstinent methamphetamine-dependent individuals. *Progress in Neuro-Psychopharmacology and Biological Psychiatry* (in press).
 28. Jones DR, Daniel TM, Denlinger CE, Rundall BK, **Smolkin ME**, Wick MR. Stage IB nonsmall cell lung cancers: are they all the same? *Ann Thorac Surg*. 2006 Jun; 81(6): 1958-62.
 29. Kahaleh, M., Shami, V., Brock, A., **Conaway, M.**, Yoshida, C., Moskaluk, C., Adams, R., Tokar, J. and Yeaton, P. (2005) Factors Predictive of Malignancy and Endoscopic Resectability in Ampullary Neoplasia. *American Journal of Gastroenterology*,. 99 (12): 2335-2339.
 30. Kahaleh, M., Yeaton, P., Shami, V., DeLange, E., Bassignani, M., Gay, S., Adams, R., DeLaRue, S. and **Conaway, M.** (2006) " Endoscopic Ultrasound Drainage of Pancreatic Pseudocyst: A Prospective Comparison with Conventional Endoscopic Drainage". *Endoscopy*. 38 (4): 355-359
 31. Kaufman D, Boyle R, Hazen KC, **Patrie JT**, Robinson M, Grossman LB. Twice weekly fluconazole prophylaxis for prevention of invasive Candida infection in high-risk infants of <1000 grams birth weight. *Journal of Pediatrics*. 147(2):172-9, 2005 Aug.
 32. Kaufman, D.*, **Gurka, M.J.**, Hazen, K.C., Boyle, R., Robinson M., Grossman, L.B. (2006). Patterns of fungal colonization in preterm infants less than 1000 grams birth weight. *The Pediatric Infectious Disease Journal* (in press).

33. Kent R. **Patrie J.** Chest deflection tolerance to blunt anterior loading is sensitive to age but not load distribution. *Forensic Science International*. 149(2-3):121-8, 2005 May 10.
34. Levenson JL, McClish DK, Dahman BA, Penberthy LT, **Bovbjerg VE**, Aisiku IP, Roberts JD, Roseff SD, Smith WR. Alcohol abuse in sickle cell disease: The PiSCES project. *American Journal of Addictions*, in press.
35. Li, Y., Oskouian, R. J., Day, Y., Rieger, J. M., Marshall, M. A., **Liu, L.**, Kern, J. A., and Linden, J. (2006). Activation or inhibition of adenosine A_{2a} receptors reduces mouse spinal cord injury. *Neuroscience*. Accepted.
36. Mascia K. Borish L. **Patrie J.** Hunt J. Phillips CD. Steinke JW. Chronic hyperplastic eosinophilic sinusitis as a predictor of aspirin-exacerbated respiratory disease. *Annals of Allergy, Asthma, & Immunology*. 94(6):652-7, 2005 Jun.
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39. Moon K, **Stukenborg GJ**, Keim J, Theodorescu D. Cancer incidence after localized therapy for prostate cancer. *Cancer*. 2006; 107: 991-8.
40. Mounsey AL, **Bovbjerg VE**, White LL Gazewood JD. Do students develop better motivational interviewing skills through role-play with standardized patients or student colleagues? In press, *Medical Education* 2006; 40: 775-780.
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42. Ng YH, Meyer KB, Kuse JW, **Yan G**, Rocco MV, Kimmel PL, Benz RL, Beddhu S, Dwyer JT, Toto RD, Eknoyan G, and Unruh ML. (2006). Hemodialysis timing, survival, and cardiovascular outcomes in the Hemodialysis (HEMO) Study. *American Journal of Kidney Disease*. 47(4):614-24.
43. Nicholson B., LoRusso A, **Smolkin M**, **Bovberg V**, **Petroni G**, Harvey J. Accuracy of Assigned BI-RADS Breast Density Category Definitions. *Academic Radiology* 2006 (accepted)
44. Northup PG, Pruett TL, **Stukenborg GJ**, Berg CL. Survival after Adult Liver Transplantation Does Not Correlate with Transplant Center Case Volume in the MELD Era. *American Journal of Transplantation*. 2006. 6 (10), 2455-2462
45. Oliver MN, Matthews KA, **Siadaty M**, Hauck FR, Pickle LW. Geographic bias related to geocoding in epidemiologic studies. *Int J Health Geogr*. 2005 Nov 10;4:29.
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47. Owen, J., **Conaway, M.**, Hayden, G. and Bailey, B. (2006) Assessing the accuracy of predictions of eventual rural practice using different definitions to classify medical school applicants as having a rural upbringing (in press, *Journal of Rural Health*)
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G. Book Chapters

1. **Petroni, G.R.** and **Conaway, M.R.** (2006) "Phase II trials with combined response and toxicity endpoints" Handbook of Statistics in Clinical Oncology. 2nd edition. Editor: John Crowley. Marcel Dekker.
2. **Petroni, G.R.** (2006) "Design Issues for Early Stage Clinical Trials for Cancer Vaccines" Immunotherapy of Cancer. Editor: Mary L. Disis. Humana Press.

H. Editorial Boards & Journal Reviews

Division Member	Journal	Role
Bovbjerg, V	American Journal of Managed Care	reviewer
Bovbjerg, V	American Journal of Epidemiology	reviewer
Conaway, M.	Biometrics	Reviewer
Conaway, M.	Statistics in Medicine	Reviewer
Gurka, M.	The American Statistician	Referee
Gurka, M.	Journal of the Royal Statistical Society, Series C	Referee
Gurka, M.	Statistics in Medicine	Referee
Gurka, M.	International Journal of Obesity	Referee
Gurka, M.	Journal of Preventive Methods	Referee
Gurka, M.	Psychological Methods	Referee
Gurka, M.	Journal of the Royal Statistical Society, Series A	Editorial Board
Petroni, G.	Clinical Prostate Cancer	Editorial Board
Petroni, G.	Journal of Clinical Oncology	Editorial Board
Stukenborg, G	Canadian Medical Association Journal	Reviewer
Stukenborg, G	Health Services and Outcomes Research Methodology	Reviewer
Stukenborg, G	Journal of Clinical Epidemiology	Reviewer
Stukenborg, G	Medical Care	Reviewer
Wang, H.	Lifetime Data Analysis	Reviewer

Division Member	Journal	Role
Yan, G	Critical Care Medicine	Referee
Yan, G	Circulation	Referee

RESEARCH TALKS

I. National and International

Speaker	Date	Topic	Location
Bovbjerg, V	10/05	Field-based evaluation of less-lethal weapons: Effects and effectiveness	Jane's Information Group 8th Annual Less-Lethal Weapons Conference, Leeds UK, 26-
Gurka, M	01/06	Biostatistical challenges in rehabilitation research	Fourth Annual Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Charlottesville, VA.
Gurka, M.	08/06	Violating the assumption of independence of the error components in the linear mixed model for longitudinal data	Seattle, WA, Joint Statistical Meetings
Lee, J	06/05	Robust classification modeling using MiPP	Ann Arbor, MI: ISMB International Conference, International Society for Computational Biology (ISCB)
Lee, J	08/06	Statistical Methods for Integrative Genomics, Integrative Homologous Regulation Analysis between Mouse and Human Microarray Gene	Seattle, WA, Joint Statistical Meetings
Stukenborg, G	12/05	Poster: Hospital Mortality Risk for Acute Myocardial Infarction and the Effect of Adjustments for Diagnoses: Present at Admission	American Public Health Association Annual Meeting 2005, Philadelphia PA
Stukenborg, G	11/06	Improved risk adjustment identifies fewer hospitals with better or worse than expected mortality among acute myocardial infarction patients	Statistics Section on Biostatistical Modeling Techniques, American Public Health Association 134 th Annual Meeting, Boston MA
Wang, H	07/06	Regression Analysis of Mean Quality-Adjusted Lifetime with Censored Data	XXVth International Biometric Conference, Montreal, Canada
Yan, G	03/06	Bayesian methodology which accounts for uncertainty about the commonality of a set of small area parameters.	Invited paper. ENAR Spring Meeting, International Biometric Society, Tampa, Florida
Yan, G	08/06	Bayes methodology accounting for uncertainty of commonality in 'random effects' in a linear mixed model	2006 Joint Statistical Meeting, Seattle, WA
Yan, G	08/06	Bayesian methodology which accounts for uncertainty about the commonality of a set of small area parameters	IMS Ninth Meeting of New Researchers in Statistics and Probability

J. Local

<i>Speaker</i>	<i>Date</i>	<i>Topic</i>	<i>Location</i>
Stukenborg, G	06/05	The Statistical Relationship Between Hospital Volume of Lung Cancer Operations and Patient Mortality Risk'	Surgery Grand Rounds, Dept of Surgery
Stukenborg, G	01/05	The Statistical Relationship Between Hospital Lung Cancer Surgery Volume and Mortality Risk'	Dept of Health Evaluation Sciences

HONORS AND AWARDS

<i>Division Member</i>	<i>Award</i>	<i>Date</i>
Bovbjerg, V	Society of Behavioral Medicine Distinguished Service Award	
Stukenborg, G	Selected as exception reviewer by the journal Medical Care	June 2006

GRANTS

K. Active

i. As PI

<i>PI</i>	<i>Title</i>	<i>Funding source/type</i>	<i>Current year direct costs</i>
Bovbjerg, V	Improving Control with Activity and Nutrition	NIH/R18	\$496,806
Lee, JK	Genome Pathway Modeling Diabetic Atherosclerosis	NIH/NHLBI/R01	

ii. Collaborative (as Co-investigator)

a. NIH P01, P30, P20

<i>PI</i>	<i>Title</i>	<i>Funding source/type</i>	<i>Division member</i>	<i>Current year direct costs</i>
Barrett	General Clinical Research Center Core Grant (Biostatistics Core)	NCRR/M01	Abbott Patrie	
Cominelli, F	Silvio O. Conte UVA Digestive Health Research Center (DHRC) (Biostatistics Core)	NIH/P30	Conaway	\$878,174
Merwin, E.	Rural Health Center (Biostatistics Core)	NIH/P20	Conaway	\$193,176
Platts-Mills, T	UVA Asthma and Allergic Diseases Center (Biostatistics Core)	NIH/P01	Patrie Conaway Liu	
Theodorescu, D	Signaling and Progression in Prostate Cancer (Biostatistics Core)	NIH/P01	Conaway Wang,H Shu Lee	\$1,225,661
Weber, M.	Cancer Center Support Grant (Biostatistics Core)	NIH/P30	Petroni Conaway Smolkin Shu	

b. NIH R01 or equivalent

<i>PI</i>	<i>Title</i>	<i>Funding source/type</i>	<i>Division member</i>	<i>Current year direct costs</i>
Gaston, B	Redox Determinants of Severe Asthma	NIH/R01	Liu	

<i>PI</i>	<i>Title</i>	<i>Funding source/type</i>	<i>Division member</i>	<i>Current year direct costs</i>
Gaston, B	S-Nitrosothiol Breakdown by Airway Epithelial Cells	NIH/R01	Liu	
Guise, T	Prostate Cancer Bone Metastases: Role of Adrenomedullin	NIH/R01	Conaway	\$235,000
Hauenstein	Mental Health Treatment for the Rural Poor and Minorities	NIH/R01	Wagner	
Hollen, P	A decision aid for cancer-surviving adolescents	NINR/R01	Petroni, Shu	
Holroyd, S	Visual Hallucinations and Visual Abnormalities in Patients with Parkinson's Disease	NIH/R01	Conaway	\$213,750
Hunt, J	Exhaled Biomarkers during Treatment of Rhinovirus	NIH/R01	Liu	
Johnson, B	New Medications to Treat Alcohol Dependence	NIH/R01	Liu Wang, X-Q	
Johnston, K	Glucose Regulation for Acute Stroke Patients (GRASP)	NIH/R01	Conaway	\$494,234
Matsumoto, A	CORAL Angiography Corelab Protocol	NIH/R01	Conaway Liu	\$123,531
Moorman, R	Impact of Neonatal Heart Rate Characteristics Monitoring	NIH/R01	Wagner	
Mugler, J	Improved Methods for Hyperpolarized-Gas MRI of the Lung	NIH/R01	Conaway	
Petri, W	Field Studies of Human Immunity to Amebiasis in Bangladesh	NIH/R01	Shu	
Santen, R	The role of Cell Cycling in Hypersensitivity to Estradiol	NIH/R01	Petroni	
Slingluff, C	Melanoma Vaccines Using MHC-Associated Peptides	NIH/R01	Petroni Smolkin	\$222,500
Slingluff, C	Multi-peptide Vaccine Administered with Cyclophosphamide for High-risk Melanoma	NIH/R01	Petroni Smolkin	\$348,554
Theodorescu, D	Ral in Human Bladder Cancer Progression	NIH/R01	Conaway	

c. Other: NIH R21, NIH K-awards, DoD, Supplements

<i>PI</i>	<i>Title</i>	<i>Funding source/type</i>	<i>Division member</i>	<i>Current year direct costs</i>
Blackman, J.	NIH Grant Prep.Workshops for Rehabilitation Research	NIH/T15	Gurka	
Caldwell	Omega 3 polyunsaturated fatty acids as a treatment for non-alcoholic fatty liver disease	NIH/R21	Patrie	
Guise, T.	Effect on high bone turnover state induced by estrogen deficiency	DoD	Conaway	\$125,000
Hauck	Comparison of Risk Factors for SIDS and Other Sudden Unexpected Deaths in Infancy	NIH/R03	Bovbjerg	\$75,000
Hollen, P	A decision aid for advanced lung cancer patients	NINR/R21	Petroni Shu	\$227,460
Hullfish	Patient centered goals for pelvic floor dysfunction	NIH/R03	Bovbjerg	\$74,000
Irvin, W	Evaluation of the Immunogenicity of Vaccination with Synthetic Peptides Mixed with GM-CSF-in-Adjuvant, Following Surgical Debulking, in Patients with Advanced Ovarian Cancer	CRI	Petroni Smolkin	\$105,836
Johnston, K	Acute Physiology of Stroke Score	NIH/K24	Conaway	\$89,499
Pastore	Influence of acupuncture on reproductive hormones and ovulation in polycystic ovarian syndrome.	NIH/R21	Patrie	

<i>PI</i>	<i>Title</i>	<i>Funding source/type</i>	<i>Division member</i>	<i>Current year direct costs</i>
Stevenson, R.	Growth and Physical Maturation in Cerebral Palsy	NIH/K24	Conaway Gurka	\$103,408

d. Internal and Industry

<i>PI</i>	<i>Title</i>	<i>Funding source/type</i>	<i>Division member</i>	<i>Current year direct costs</i>
Grosh, W	Evaluation of the Clinical Efficacy of Leukine® Administered in Conjunction with Paclitaxel in Patients with Advanced Melanoma	Berlex Inc.	Petroni	\$72,307
Hollen, P	A Theory-Based Decision Aid for Patients with Breast Cancer	Ca Ctr	Shu	

L. Submitted

- i. 6 submitted as Principal Investigator
- ii. 74 grants submitted as co-investigator

COMMITTEES

M. National

<i>Division Member</i>	<i>Organization, Committee</i>	<i>Role</i>
Bovbjerg, V	NIDDKD, SEP:Translational Research for the Prevention and Control of Diabetes	Member
Bovbjerg, V	NIH, Global Health Research Initiative Program for New Foreign Investigators	Member
Bovbjerg, V	International Collaborative Projects	Member
Bovbjerg, V	International Law Enforcement Forum for Minimal Force Options, Advisory Board	Member
Conaway, M	DSMB, OPT Clinical Trial	Member
Conaway, M	DSMB, MOTOR Clinical Trial	Member
Conaway, M	CLIP Clinical Trial	Member
Lee, J	NIH Arthritis and Musculoskeletal and Skin Disease Special Grant Review Committee	Ad hoc reviewer
Lee, J	NIDDK B Subcommittee for Mentored Research Scientist Awards	Ad hoc reviewer
Lee, J	NIH/NCI, SEP for Cancer Genetics Network	Ad hoc reviewer
Lee, J	NIH/NCI, SEP for Advanced Proteomic Platforms and Computational Sciences for the NCI Clinical Proteomic Technologies Initiative	Ad hoc reviewer
Lee, J	NIH/NCI, SEP for Cancer Prevention and Cancer Epidemiology	Ad hoc reviewer
Petroni, G.	NIH/NCI, Subcommittee C (Parent committee)	Member
Petroni, G.	American Society of Clinical Oncology, Scientific Program Committee	Member
Petroni, G.	Moffitt Cancer Center, Moffitt Cancer Center Data Monitoring Committee	Member
Petroni, G.	Children's Oncology Group, Leukemia/Lymphoma Data Safety Monitoring Committee	Member
Petroni, G.	Fred Hutchinson Cancer Research Center, Observational Study Monitoring Board	Member
Stukenborg, G	NIH/AHRQ, SEP for review of applications for RFA HS-05-010	Member
Stukenborg, G	American Public Health Association: for review of abstracts submitted for the Statistics program of the 134 th Annual Meeting	Panelist
Stukenborg, G	American Public Health Association: Statistical Advances and Applications -- Posters II session of the 134 th Annual Meeting	Presider
Stukenborg, G	American Public Health Association: Biostatistical Modeling Techniques and Applications oral presentation session	Moderator

N. School of Medicine

Division Member	Committee	Role
Bovbjerg, V	Clinical Translational Science Award, Education Advisory Board	Member
Conaway, M	School of Medicine Promotion and Tenure Committee	Member
Conaway, M	CTSA K30	Member
Conaway, M	CTSA-T32	Member
Conaway, M	CTSA-K12	Member
Conaway, M	Dean Re-appointment committee	Member
Gurka, M	University of Virginia Children's Hospital Grants Committee	Member
Lee, J	UVA Task Force on Information Technology Infrastructure Supporting Research in Engineering and Science Advisory Committee	Member
Patrie, J	GCRC protocol review committee	Member
Petroni, G	Cancer Center Minority Recruitment Task Force	Member
Petroni, G	Cancer Center Data and Safety Monitoring Committee	Co-chair
Petroni, G	Cancer Committee	Member
Petroni, G	Cancer Center Protocol Review Committee	Member
Petroni, G	Cancer Center ACS IRG Committee	Member
Shu, J	Cancer Center Data and Safety Monitoring Committee	Member
Wagner, D	HIC (IRB) alternate member, 2005, full member 2006-09	Member

CONSULTING PROJECTS

24 consulting projects from 19 divisions, departments or schools of the University.