

## Vicki Stover Hertzberg, Ph.D.

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CONTACT INFORMATION	Nell Hodgson Woodruff School of Nursing Emory University 1520 Clifton Rd. NE Atlanta, GA 30322 USA	<i>Cell:</i> 404-291-0088 <i>Office:</i> 404-727-1881 <i>Fax:</i> 404-727-1370 <i>E-mail:</i> vhertz@emory.edu
RESEARCH INTERESTS	<b>Biostatistics, public health informatics, network science, and microbiome.</b> My research focuses now on developing and applying statistical methods for the analysis of network data as well as microbiome data. Specific topics include: social contact networks, infectious diseases on networks, dynamic networks, citation networks, microbiome of the airplane cabin, microbiome of the built environment.. In addition I have decades of experience in collaborative research, particularly in the application of biostatistics in epidemiological and clinical sciences.	
ACADEMIC APPOINTMENTS	<b>Professor</b> (with tenure) Director, Center for Nursing Data Science Nell Hodgson Woodruff School of Nursing <b>Associate Professor</b> (with tenure) <b>Department Chair</b> Department of Biostatistics and Bioinformatics <b>Associate Professor</b> (secondary) Department of Mathematics and Computer Science Emory University, Atlanta, GA	2015-present   January 1995 - 2015 January 1995 - December 2001  2002-present
	<b>Visiting Associate Professor</b> Department of Epidemiology and Biostatistics University of California, San Francisco, CA	1993 - 1994
	<b>Associate Professor</b> (with tenure) <b>Assistant Professor</b> Division of Epidemiology and Biostatistics University of Cincinnati, Cincinnati, OH	September 1986 - December 1995 September 1980 - August 1986
EDUCATION	<b>Ph.D.</b> , Biomathematics (Health Statistics track), December 1980 <b>B.S.</b> , Mathematics and Statistics, June, 1976 Miami University, Oxford, OH	
HONORS	Elected Member, International Statistical Institute, 2002 Statistics Section Award in Academics, American Public Health Association, 2000 Fellow, American Statistical Association, 1999 Founders Award, American Statistical Association, 1994 Who's Who in American Women, 1989-1990 Outstanding Young Woman of America, 1985 NHLBI Cardiovascular Traineeship, July, 1979 to August, 1980 B.S. awarded cum laude Phi Beta Kappa Pi Mu Epsilon Miami University Freshman Scholar	

CERTIFICATION **Professional Statistician** (P.Stat.), American Statistical Association, 2010

**Published/In Press**

As of November 6, 2015, my **h-index** is **36**.

*Interpretation:* The following designations are used: @ for doctoral or master's student whose research was performed under my supervision, # for master's or doctoral students who worked on the publication, % for residents or clinical fellows who worked on the publication. According to departmental criteria, a publication on which I am second author and for which a student working under my supervision is first author is equivalent to a first author paper for me. In addition, I have worked with two students from the Computer Science program (Liu and Thayer). In the computer science world, conference papers such as those listed here also count as peer-reviewed publications. In the case of these two students I was co-advisor with Professor Xiong from CS, I consider myself senior author on those publications.

All publications are peer-reviewed, except when noted otherwise.

**On Teaching**

- [1] **Hertzberg VS**, Clark WS, Brogan DJ. Developing pedagogical and communications skills in graduate students: the Emory University biostatistics TATTO program. *Journal of Statistics Education* [online] 8, 2000.  
(<http://www.amstat.org/publications/secure/v8n3/hertzberg.cfm>).

**Methodological Research**

- [2] @Price M, **Hertzberg VS**, Wright DW. Assessing Causal Effects with Truncation Due to Death and Missing Mortality Status. Accepted, *Journal of Statistics and Applications*, 2015.
- [3] Lowery-North DW, **Hertzberg VS**, Elon L, Cotsonis G, Hilton SA, Vaughns III CF, Hill E, Shrestha A, Jo A, Adams N. Measuring social contacts in the emergency department. *PLoS one* 8(8):e70854, 2013. (PMID 23990915) (PMCID PMC3749132)
- [4] @Xu Z, **Hertzberg VS**. Bayesian area-age-period-cohort model with carcinogenesis age effects in estimating cancer mortality. *Cancer Epidemiology* 37(5): 593 - 600, 2013. (PMID 23891684)
- [5] @Price M, **Hertzberg V**, Wright DW. Does the sliding dichotomy result in higher powered clinical trials for stroke and traumatic brain injury research? *Clinical Trials* 10: 924 - 934, 2013. (PMID: 23027647)
- [6] @Thayer K, Xiong L, **Hertzberg V**. IFC Soft: visual comparison of flow cytometry data using self - organizing maps. Demo paper in *2nd ACM SIGHIT International Health Informatics Symposium (IHI)*, 2012.
- [7] **Hertzberg VS**, Johnston K, Stern BJ. Bayesian analysis of evidence from studies of warfarin v aspirin for symptomatic intracranial stenosis. *Journal of Modern and Applied Statistical Methods*, 98(2): 583 - 591, 2009.
- [8] #Liu L, Xiong L, Lu JJ, Gernert KM, **Hertzberg V**. Comparing and clustering flow cytometry data. In *2008 IEEE Conference on Bioinformatics and Biomedicine (BIBM)*, November, 2008.
- [9] **Hertzberg V**, Chimowitz M, Lynn M, Chester C, Asbury W, Cotsonis G. Use of dose modification schedules is effective for blinding trials of warfarin: evidence from the WASID study. *Clinical Trials* 5(1): 23 - 30, 2008. (PMID: 18283076) (PMCID: PMC3506390)
- [10] **Hertzberg VS**, @Xu F, Haber M. Restricted quasi-independent model resolves paradoxical behaviors of Cohen's kappa. *Journal of Modern and Applied Statistical Methods*, 5: 417 - 431, 2006.

- [11] **Hertzberg VS**, Stern BJ, Sherman S. Analytic strategies for stroke genetics *Journal of Stroke and Cerebrovascular Diseases* 11: 272 - 278, 2002. (PMID: 17903885)
- [12] **Hertzberg VS**, Stern BJ, Sherman S. Analytic strategies for stroke genetics. *Seminars in Cerebrovascular Diseases and Stroke* 2: 66 - 72, 2002.
- [13] @Leonard AC, Franson SE, **Hertzberg VS**, Smith MK, Toth GP. Hypothesis testing with the similarity index. *Molecular Ecology* 8: 2105 - 2114, 1999. (PMID: 10632861)
- [14] **Hertzberg VS**. Simulation evaluation of three models for correlated binary data with covariates to each binary observation. *Communications in Statistics - Simulation* 26: 375 - 396,1997.
- [15] **Hertzberg VS**, Lemasters GK, Hansen K, Zenick HM. Statistical issues in risk assessment of reproductive outcomes with chemical mixtures. *Environmental Health Perspectives* 90: 171 - 175, 1991. (PMID: 2050057) (PMCID: PMC1519507)
- [16] **Hertzberg VS**, Fisher LD. A model for variability in arteriographic reading. *Statistics in Medicine* 5: 619 - 627, 1986. (PMID: 3823669)

#### **Resulting from Public Health Practice Activities**

- [17] **Hertzberg VS**, Hinton CF, Therrell BL, Shapira SK. Birth prevalence rates of newborn screening disorders in relation to screening practices in the United States. *Journal of Pediatrics* 159(4): 555 - 560, 2011. (PMID: 21641615)
- [18] Brott TG, Halperin JL, Abbara S, Bacharach JM, Barr JD, Bush RL, Cates CU, Creager MA, Fowler SB, Friday G, **Hertzberg VS**, McIff EB, Moore WS, Panagos PD, Riles TS, Rosenwasser RH, Taylor AJ, Jacobs AK, Smith SC Jr; American College of Cardiology Foundation; American Heart Association Task Force on Practice Guidelines; American Stroke Association; American Association of Neuroscience Nurses; American Association of Neurological Surgeons; American College of Radiology; American Society of Neuroradiology; Congress of Neurological Surgeons; Society of Atherosclerosis Imaging and Prevention; Society for Cardiovascular Angiography and Interventions; Society of Interventional Radiology; Society of NeuroInterventional Surgery; Society for Vascular Medicine; Society for Vascular Surgery; American Academy of Neurology and Society of Cardiovascular Computed Tomography. 2011 ASA/ACCF/AHA/AANN/AANS/ACR/ASNR/CNS/SAIP/SCAI/AIR/SNIS/SVS guideline on the management of patients with extracranial carotid and vertebral artery disease; executive summary: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines, and the American Stroke Association, American Association of Neuroscience Nurses, American Association of Neurological Surgeons, American College of Radiology, American Society of Neuroradiology, Congress of Neurological Surgeons, Society of Atherosclerosis Imaging and Prevention, Society of Interventional Radiology, Society of NeuroInterventional Surgery, Society for Vascular Medicine, and Society for Vascular Surgery. *Journal of the American College of Cardiology*, 57(8):1002 - 1044, 2011. (PMID: 21288680)
- [19] Brott TG, Halperin JL, Abbara S, Bacharach JM, Barr JD, Bush RL, Cates CU, Creager MA, Fowler SB, Friday G, **Hertzberg VS**, McIff EB, Moore WS, Panagos PD, Riles TS, Rosenwasser RH, Taylor AJ, Jacobs AK, Smith SC Jr; American College of Cardiology Foundation; American Heart Association Task Force on Practice Guidelines; American Stroke Association; American Association of Neuroscience Nurses; American Association of Neurological Surgeons; American College of Radiology; American Society of Neuroradiology; Congress of Neurological Surgeons; Society of Atherosclerosis Imaging and Prevention; Society for Cardiovascular Angiography and Interventions; Society of Interventional Radiology; Society of NeuroInterventional Surgery;

Society for Vascular Medicine; Society for Vascular Surgery; American Academy of Neurology and Society of Cardiovascular Computed Tomography. 2011  
ASA/ACCF/AHA/AANN/AANS/ACR/ASNR/CNS/SAIP/SCAI/AIR/SNIS/SVS guideline on the management of patients with extracranial carotid and vertebral artery disease; executive summary: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines, and the American Stroke Association, American Association of Neuroscience Nurses, American Association of Neurological Surgeons, American College of Radiology, American Society of Neuroradiology, Congress of Neurological Surgeons, Society of Atherosclerosis Imaging and Prevention, Society of Interventional Radiology, Society of Neurointerventional Surgery, Society for Vascular Medicine, and Society for Vascular Surgery. *Stroke* 42(8): e420 - 463, 2011. (PMID: 21282493)

- [20] Brott TG, Halperin JL, Abbara S, Bacharach JM, Barr JD, Bush RL, Cates CU, Creager MA, Fowler SB, Friday G, **Hertzberg VS**, McIff EB, Moore WS, Panagos PD, Riles TS, Rosenwasser RH, Taylor AJ, Jacobs AK, Smith SC Jr; American College of Cardiology Foundation; American Heart Association Task Force on Practice Guidelines; American Stroke Association; American Association of Neuroscience Nurses; American Association of Neurological Surgeons; American College of Radiology; American Society of Neuroradiology; Congress of Neurological Surgeons; Society of Atherosclerosis Imaging and Prevention; Society for Cardiovascular Angiography and Interventions; Society of Interventional Radiology; Society of NeuroInterventional Surgery; Society for Vascular Medicine; Society for Vascular Surgery; American Academy of Neurology and Society of Cardiovascular Computed Tomography. 2011  
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- [21] Brott TG, Halperin JL, Abbara S, Bacharach JM, Barr JD, Bush RL, Cates CU, Creager MA, Fowler SB, Friday G, **Hertzberg VS**, McIff EB, Moore WS, Panagos PD, Riles TS, Rosenwasser RH, Taylor AJ, Jacobs AK, Smith SC Jr; American College of Cardiology Foundation; American Heart Association Task Force on Practice Guidelines; American Stroke Association; American Association of Neuroscience Nurses; American Association of Neurological Surgeons; American College of Radiology; American Society of Neuroradiology; Congress of Neurological Surgeons; Society of Atherosclerosis Imaging and Prevention; Society for Cardiovascular Angiography and Interventions; Society of Interventional Radiology; Society of NeuroInterventional Surgery; Society for Vascular Medicine; Society for Vascular Surgery; American Academy of Neurology and Society of Cardiovascular Computed Tomography. 2011  
ASA/ACCF/AHA/AANN/AANS/ACR/ASNR/CNS/SAIP/SCAI/AIR/SNIS/SVS guideline on the management of patients with extracranial carotid and vertebral artery disease; executive summary: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines, and the American Stroke Association, American Association of Neuroscience Nurses, American Association of Neurological Surgeons, American College of Radiology, American Society of Neuroradiology, Congress of Neurological Surgeons, Society of Atherosclerosis Imaging and Prevention, Society of Interventional Radiology, Society of Neurointerventional Surgery, Society for Vascular Medicine, and Society for Vascular Surgery developed in

collaboration with the American Academy of Neurology and Society of Cardiovascular Computed Tomography. *Journal of the American College of Cardiology* 57(8): 1002 - 1044, 2011. (PMID: 21288679)

- [22] Brott TG, Halperin JL, Abbara S, Bacharach JM, Barr JD, Bush RL, Cates CU, Creager MA, Fowler SB, Friday G, **Hertzberg VS**, McIff EB, Moore WS, Panagos PD, Riles TS, Rosenwasser RH, Taylor AJ; American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines; American Stroke Association; American Association of Neuroscience Nurses; American Association of Neurological Surgeons; American College of Radiology; American Society of Neuroradiology; Congress of Neurological Surgeons; Society of Atherosclerosis Imaging and Prevention; Society for Cardiovascular Angiography and Interventions; Society of Interventional Radiology; Society of NeuroInterventional Surgery; Society for Vascular Medicine; Society for Vascular Surgery. 2011 ASA/ACCF/AHA/AANN/AANS/ACR/ASNR/CNS/SAIP/SCAI/AIR/SNIS/SVS guideline on the management of patients with extracranial carotid and vertebral artery disease; executive summary: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines, and the American Stroke Association, American Association of Neuroscience Nurses, American Association of Neurological Surgeons, American College of Radiology, American Society of Neuroradiology, Congress of Neurological Surgeons, Society of Atherosclerosis Imaging and Prevention, Society of Interventional Radiology, Society of Neurointerventional Surgery, Society for Vascular Medicine, and Society for Vascular Surgery. *Vascular Medicine* 16(1): 35 - 77. (PMID: 21471149)
- [23] Brott TG, Halperin JL, Abbara S, Bacharach JM, Barr JD, Bush RL, Cates CU, Creager MA, Fowler SB, Friday G, **Hertzberg VS**, McIff EB, Moore WS, Panagos PD, Riles TS, Rosenwasser RH, Taylor AJ; American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines; American Stroke Association; American Association of Neuroscience Nurses; American Association of Neurological Surgeons; American College of Radiology; American Society of Neuroradiology; Congress of Neurological Surgeons; Society of Atherosclerosis Imaging and Prevention; Society for Cardiovascular Angiography and Interventions; Society of Interventional Radiology; Society of NeuroInterventional Surgery; Society for Vascular Medicine; Society for Vascular Surgery. ASA/ACCF/AHA/AANN/AANS/ACR/ASNR/CNS/SAIP/SCAI/AIR/SNIS/SVS guideline on the management of patients with extracranial carotid and vertebral artery disease; executive summary. *Journal of Neurointerventional Surgery* 3(2): 100 - 130. 2011. (PMID: 21990803)
- [24] **Hertzberg VS**, Mei JV, Therrell BT. Newborn screening practices for congenital hypothyroidism: effect of laboratory practices on the incidence of congenital hypothyroidism rates. *Pediatrics*, 125 Suppl 2: S48 - S53, 2010. (PMID: 20435717)
- [25] **Hertzberg V**, Ingall T, O'Fallon W, Asplund K, Goldfrank L, Louis T, Christianson, T. Methods and processes for the reanalysis of the NINDS tissue Plasminogen Activator for acute ischemic stroke treatment trial. *Clinical Trials* 5(4): 308 - 315, 2008. (PMID: 18697845)
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#### **Resulting from Collaborative Research Activities**

- [27] DiClemente RJ, Jackson JM, **Hertzberg V**, Seth P. Steroid use, health risk behaviors and adverse health indicators among U.S. high school students. *Family Medicine & Medical Science Research*, 3(3): 127, 2014. DOI: 10.4172/2327 - 4972.1000127
- [28] Wright DW, Yeatts SD, Silbergleit R, Palesch YY, **Hertzberg VS**, Frankel M, Goldstein FC, Caveney AF, Howlett-Smith H, Bengelink EM, Manley GT, Merck LH, Janis LS, Barsan W. Very early administration of progesterone for acute traumatic brain injury. *New England Journal of Medicine* 371(46):2457-2466, 2014.
- [29] Osborne AD, Ali K, Lowery-North D, Capes J, Keadey M, Franks N, **Hertzberg V**, Stroder R, Pitts S, Wheatley M, O'Malley R, Leach G, Ross M. Ability of triage decision rules for rapid electrocardiogram to identify patients with suspected ST-elevation myocardial infarction. *Critical Pathways in Cardiology*, 11(4): 211 - 213, 2012. (PMID: 23149364)
- [30] Rosenman KD, Rossman M, **Hertzberg V**, Reilly MJ, Rice C, Kanterakis E, Monos D. HLA class II DPB1 and DRB1 polymorphisms associated with genetic susceptibility to beryllium toxicity. *Occupational and Environmental Medicine* 68(7):487 - 493, 2011. (PMID: 21186201)
- [31] %Famakin B, Weiss P, **Hertzberg V**, McClellan W, Presley R, Krompf K, Karp H, Frankel MR. Hypoalbuminemia predicts acute stroke mortality: Paul Coverdell Georgia Stroke Registry. *Journal of Stroke and Cerebrovascular Diseases* 19: 17 - 22, 2010. (PMID: 20123222)
- [32] %Lang DL, DiClemente RJ, Hardin JW, Crosby RA, Salazar LF, **Hertzberg VS**. Threats of cross - contamination on effects of a sexual risk reduction intervention: fact or fiction. *Prevention Science* 10: 270 - 275, 2009. (PMID: 19241171)
- [33] Wright DW, Clark PL, Pentz RD, **Hertzberg VS**, Kellermann AL. Enrolling subjects by exception from consent versus proxy consent in trauma care research. *Annals of Emergency Medicine* 51:355 - 360, 2008. (PMID: 17933428)
- [34] Wright DW, Kellermann AL, **Hertzberg VS**, Clark PL, Frankel M, Goldstein FC, Salomone JP, Dent LL, Harris OA, Ander DS, Lowery DW, Patel MM, Denson DD, Gordon AB, Wald MM, Gupta S, Hoffman SW, Stein DG. ProTECT: a randomized controlled trial of progesterone for acute traumatic brain injury. *Annals of Emergency Medicine* 49: 391 - 402, 2007. (PMID: 17011666)
- [35] Kasner SE, Lynn MJ, Chimowitz MI, Frankel MR, Howlett-Smith H, **Hertzberg VS**, Chaturvedi S, Levine SR, Stern BJ, Venesch CG, Jovin TG, Sila CA, Romano JG. Warfarin vs aspirin for symptomatic intracranial stenosis: subgroup analyses from WASID. *Neurology* 67: 1275 - 1278, 2006. (PMID: 17030766)
- [36] #Webb AL, Stein AD, Ramakrishnan U, **Hertzberg VS**, Urisar M, Martorell R. A simple index to measure hygiene behaviours. *International Journal of Epidemiology* 35: 1469 - 1477, 2006. (PMID: 17023500)
- [37] Frank E, Elon L, **Hertzberg V**. A quantitative assessment of a 4-year intervention that improved patient counseling through improving medical student health. *Medscape General Medicine* 9(2): 58, 2007. (PMID: 17955112) (PMCID: PMC1994883) (<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1994883/>).
- [38] Frank E, @Carrera JS, Elon L, **Hertzberg VS**. Predictors of US medical students' prevention counseling practices. *Preventive Medicine* 44: 76 - 81, 2007. (PMID: 16978687)
- [39] Frank E, @Carrera J, Elon L, **Hertzberg V**. Basic demographics, health practices, and health status of U.S. medical students. *American Journal of Preventive Medicine*, 31: 499 - 505, 2006. (PMID: 17169711)

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- [41] #Davis SI, Blanck HM, **Hertzberg VS**, Tolbert PE, Rubin C, Cameron LL, Henderson AK, Marcus M. Menstrual function among women exposed to polybrominated biphenyls: a follow-up prevalence study. *Environmental Health* 4: 15, 2005. (PMID: 16091135) (PMCID: PMC1201158)
- [42] DiClemente RJ, Wingood GM, Lang DL, Crosby RA, Salazar LF, Harrington K, **Hertzberg VS**. Adverse health consequences that co-occur with depression: a longitudinal study of black adolescent females. *Pediatrics* 116: 78 - 81, 2005. (PMID: 15995035)
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#### **Other**

- [108] **Hertzberg VS**. Utilization 2: special datasets. *Statistics in Medicine* 14:693,1995. (PMID: 7792460)

#### **Book Chapters**

- [109] Bonewitz RF, Foulkes EC, O'Flaherty EJ, **Hertzberg, VS**. The Effect of Dexamethasone on the Kinetics of Jejunal Zinc Uptake and Metallothionein Synthesis in the Rat. In Foulkes, E.C., Editor, *Biological Roles of Metallothionein. Developments in Toxicology and Environmental Science*. Elsevier-North Holland, New York, 9: 203 - 214, 1982.
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- [111] Maxon HR, Schroder LE, Thomas SR, **Hertzberg VS**, Deutsch E, Samaratunga RC, Libson K, Moulton JS, Schneider HJ. 186-Re(Sn)-HEDP for the Treatment of Painful Osseous Metastases: Initial Clinical Experience. In *Technetium and Rhenium in Chemistry and Nuclear Medicine*. (eds. Nicolini, M., Bandoli, G., Mazzi, U), pp. 733 - 741, 1990. Raven Press, NY.
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#### **Non-peer reviewed Publications**

- [113] %Bonewitz RF, Foulkes EC, O,Flaherty EJ, **Hertzberg VS**. The effect of dexamethasone on the kinetics of jejunal zinc uptake and metallothionein synthesis in the rat. *Developments in Toxicology and Environmental Science* 9: 203-214, 1982. (PMID: 7053967)
- [114] Maxon H, Book SA, Buncher CR, **Hertzberg VS**, Thomas SR. Appendix A: Thyroid Effects. In *Health Effects Model for Nuclear Power Plant Accident Consequence Analysis, Part II: Scientific Basis for Health Effects Models*. Prepared by Evans, J.D., Moeller, D.W. and Cooper, D.W. U.S. Nuclear Regulatory Commission, 1985.
- [115] Maxon HR, Thomas SR, **Hertzberg VS**, Schroder LE, %Englaro EE, Samaratunga R, Scher HI, Moulton JS, Deutsch EA, Deutsch KF, Schneider HJ, Williams CC, Ehrhardt GJ. Rhenium-186 hydroxyethylidene diphosphonate for the treatment of painful osseous metastases. *Nuclear Geneeskundig Bulletin* ISSN 0169-1279, Jaargang 14, 1992.

#### **Submitted**

- [116] Lowery-North DW, Hilton SA, Hardy S, Vaughns C, Cotsonis G, Elon L, **Hertzberg VS**. Design and implementation of a real-time location sensing system for determining interpersonal social contacts in the emergency department. (Methodological)

- [117] Goldstein GC, Caveney AF, **Hertzberg VS**, Silbergleit R, Yeatts SD, Palesch YY, Levin HS, Wright DW. Very early administration of progesterone does not improve neuropsychological outcomes in subjects with moderate to severe TBI.

#### **In Preparation**

- [118] **Hertzberg VS**, Krisher J, McClellan WM. A network analysis of improvement in the quality of care of patients with end-stage renal disease.
- [119] **Hertzberg VS**, Elon LK, Weiss HN. On the Two-Row Rule for Infectious Disease Transmission on Aircraft.
- [120] **Hertzberg VS**, Elon LK, Weiss HN. Movements, Close Contacts, and Infectious Disease Transmission in an Aircraft Cabin: An empirical simulation.
- [121] Glass JD, **Hertzberg VS**, Boulis NM, Riley J, Polak M, Bordeau J, Fournier C, Johe K, Hazel T, Cudkowicz M, Atassi N, Borges L, Patil P, Rutkove SB, Ballard J, Goutman SA, Feldman EL. Spinal cord transplantation of spinal cord-derived neural stem cells for ALS: Analysis of phase 1 and 2 trials.
- [122] **Hertzberg VS**, #Baumgardner J, @Mehta CC, Elon L, Cotsonis G, Lowery-North DW. Contact networks in the emergency department: effects of time, environment, patient characteristics, and staff role. (Methodological)
- [123] **Hertzberg VS**, #Wang Y, Elon LK, Lowery-North DW. The risk of cross infection in the emergency department: a simulation study. (Methodological)
- [124] **Hertzberg VS**, @Qin T, Stempora L, Mehta A. A Hierarchical Model for Repeated Measures Compositional Data: Applications to the Analysis of Flow Cytometry Data (Methodological)
- [125] **Hertzberg VS**, #Wang Y, Elon LK, Lowery-North DW. The risk of cross infection in the emergency department: a simulation study. (Methodological)
- [126] @Bray MJ, Hertzberg VS, Elon LK, Lowery-North DW. Effect of missing data on contact networks: a simulation study. (Methodological)
- [127] **Hertzberg VS**, Williams T, Elon L, Lowery-North DW. Video surveillance: a novel method for determining health behaviors and social contact networks. (Methodological)
- [128] #Williams TS, Hertzberg VS, DiClemente R. Effects of peer networks on gonorrhea and chlamydial infections among high school students in the United State: an analysis of the National Longitudinal Study of Adolescent Health.
- [129] @Mehta CC, Hertzberg VS. Centralization in various graph generating methods. (Methodological)
- [130] Hertzberg VS, Cotsonis G, Glass J. Aggressive acceleration designs for Phase I trials of stem cells in ALS. (Methodological)

INVITED  
PRESENTATIONS

- Invited Panelist "Infectious Diseases - the Risks". International Travel & Health Insurance Conference Global Athens 2015, November 2, 2015, Athens, Greece.
- Additional Consideration beyond the "Two-Row Rule" for Infectious Disease Airborne Transmission on Commercial Aircraft. International Air Transport Association Aviation Health Conference 2015, September 30, 2015, London, UK.
- Preliminary Findings of the FlyHealthy™ Study. CDC Division of Global Migration and Quarantine Science Forum, May 14, 2015, Atlanta, GA.
- Interpersonal Contacts in the Emergency Department and the Risk of Cross Infection. CDC Modeling Infectious Disease Seminar, October 8, 2014, Atlanta, GA.
- The Fly Health Study. International Travel Insurance Conference. November 6, 2013, Vienna, Austria.
- Contact and Infectious Disease Transmission between Passengers and Flight Attendants on Commercial Aircraft: Implications for Healthcare. Clinical and Translational Informatics Rounds. April 25, 2013, Atlanta, GA.
- The Fly Healthy Study. Presentation to CDC Division of Quarantine and Border Control. November 29, 2012, Atlanta, GA.
- Faceoff: Using RFID in the ED to Fingerprint Influenza Transmission. Presentation to 6th Annual CEIRS Network Meeting. July 29 - August 1, 2012, New York City, NY.
- Faceoff: Using RFID in the ED to Fingerprint Influenza Transmission. Presentation to Institute for Scientific Interchange. March 21, 2012, Torino, Italy.
- Assessing and evaluating historical data contained in the National Newborn Screening Database. 2007 Newborn Screening and Genetic Testing Symposium. May 8, 2007, Minneapolis, MN.
- Re-analysis and Re-evaluation of the NINDS tPA Trial: A Case Study of the Two Additional R's of Statistics in the Era of NIH Data Sharing. 2009 Summer Research Conference, Southern Regional Council on Statistics. 9 June 2009, Jekyll Island, GA.
- Goldfrank LR, Hertzberg V, Ingall T, Louis T, O'Fallon WM, Asplund K. Initial findings of the rtPA acute ischemic stroke treatment review. Society for Academic Emergency Medicine Annual Meeting, May 29, 2003, Boston, MA.
- Ingall TJ, O'Fallon WM, Louis TA, Hertzberg V, Goldfrank LR, Asplund K. Initial findings of the rtPA acute ischemic stroke treatment review. European Stroke Conference, May 24, 2003, Valencia, Spain
- Hertzberg V, Schenck-Yglesias C, Lee CV, Niehaus W, Hanchette W. Informatics in Action: Applications of Geographic Information Systems in Public Health. American Medical Informatics Association 2002 Symposium, November 13, 2003, San Antonio, Texas.
- Biostatistics and Health Informatics. Invited Roundtable Luncheon Discussion, International Biometrics Society Eastern North American Regional Spring Statistics Meeting, Crystal City, VA, March, 2002.
- Public Health Informatics and Biostatistics. University of Iowa Department of Biostatistics Seminar and College of Public Health Seminar, November, 2001.
- Biostatistics / Public Health Informatics / Opportunity. Presented at CDC Public Health Informatics Seminar, Atlanta, GA, April 27, 2001.

- Biostatistics / Public Health Informatics / Opportunity. Presented at Research Triangle Institute, Research Triangle, NC, February 22, 2001.
- Biostatistics / Public Health Informatics / Opportunity. Presented at Department of Biostatistics Seminar, Emory University, Atlanta, GA, January 25, 2001.
- Statistics In Environmental Health: Challenges in the 21st Century. Keynote address for the Summer Statistics Conference, Southern Regional Conference on Statistics, Navarre Beach, FL, June, 1998.
- Issues in Dependent Discrete Data in Reproductive Epidemiology. Presented at the National Institute for Occupational Safety and Health, Cincinnati, OH, October, 1996.
- Statistical Models for Dependent Discrete Data: Applications to Pregnancy Outcomes Data. Presented at Department of Statistics Colloquium, The Ohio State University, Columbus, OH, April, 1992.
- Statistical Issues in the Analysis of Multiple Outcomes of Pregnancy. Presented at the Sixth Annual EPA Statisticians Conference, Williamsburg, VA, March, 1990.
- Statistical Issues in Quantitative Risk Assessment of Reproductive Outcomes with Chemical Mixtures. Presented at Seventh Symposium on Environmental Epidemiology, University of Pittsburgh, Pittsburgh, PA, April, 1989.



## RESEARCH GRANTS

### Pending

- Assessing the Risk of Infectious Disease Transmission Associated with Aircraft Departures. Proposal submitted to The Boeing Company. V.S. Hertzberg, Principal Investigator. 7/1/15 - 6/30/17. Anticipated total costs: \$2,876,475.
- Assessing the Rate of Infectious Disease Transmission in an Aircraft Cabin, Continuation. Proposal submitted to The Boeing Company. V.S. Hertzberg, Emory Principal Investigator. 1/1/15 - 6/30/16. Anticipated total costs: \$380,000.

### Active

- Phase 1b Stem Cell Transplant in ALS. Funded by NINDS. J. Glass Principal Investigator. V.S. Hertzberg, co-Investigator. \$2,858,698 total costs.
- ProTECT III: Progesterone for TBI. Funded by NINDS. D. Wright Principal Investigator, V.S. Hertzberg, co-Investigator. \$8,867,053 total costs.
- Environmental Biostatistics Training Grant. Funded by NIEHS. L. Waller, Principal Investigator, V.S. Hertzberg, co-Investigator. 9/1/06 - 8/31/16. \$1,201,581 total costs.
- Influenza Pathogenesis and Immunology Research Center. Funded by NIAID. R. Compans, Principal Investigator. V.S. Hertzberg, co-Investigator. 3/30/15 - 3/29/21. \$26,413,355 total costs.

### Completed

- Assessing the Rate of Infectious Disease Transmission in an Aircraft Cabin. Subcontract to Georgia Institute of Technology Contract to The Boeing Company. V.S. Hertzberg, co-Principal Investigator. \$1,377,000 total costs.
- Influenza Pathogenesis and Immunology Research Center. Funded by NIAID. R. Compans, Principal Investigator. V.S. Hertzberg, co-Investigator. 3/30/07 - 3/29/14. \$32,800,000 total costs.
- ProTECT II: Progesterone for TBI MCCT Planning Grant. Funded by NINDS. D. Wright Principal Investigator. V.S. Hertzberg, co-Investigator. 4/1/07 - 3/31/08. \$150,000 total direct costs.
- National Newborn Screening Genetic Resource Center. Funded by Health Resources and Services Administration by subcontract through University of Texas Health Sciences Center San Antonio. V.S. Hertzberg, Principal Investigator. 5/1/06 - 5/31/07. \$30,778 total direct costs.
- VALIDATE - Stroke Care: VALidating Indicators by Determining correlATIOn with End-points. Funded by AAMC/CDC. M. Frankel, Principal Investigator, V.S. Hertzberg, co-Investigator. 10/1/05 - 10/1/08. \$195,426 total direct costs.
- Tracking and Improving Quality of Medical Care and Rehabilitation. Funded by AAMC / CDC. M. Frankel, Principal Investigator, V.S. Hertzberg, co-Investigator. 10/1/04 - 9/30/06. \$59,129 total direct costs.
- HIV Prevention Maintenance for African American Teens. R. DiClemente, Principal Investigator, V.S. Hertzberg, co-Investigator. 9/30/03 - 6/30/08. \$416,609 total direct costs.

- PRISE: Worksite Fitness for African-American Women. Funded by CDC. C. Hogue, Principal Investigator, V.S. Hertzberg, co-Investigator. 9/30/04 - 9/29/07. \$342,753 total direct costs.
- Immune Function and Biodefense in Children, Elderly and Immunocompromised Populations. Funded by NIH (NIAID). C. Larsen, Principal Investigator, V. S. Hertzberg, co-Investigator. 9/1/05 - 8/30/10. \$1,584,436 total direct costs.
- Validation of Stroke Care Quality Indicators for the Paul Coverdell National Acute Stroke Registry. Funded by AAMC/CDC. M. Frankel, Principal Investigator, V.S. Hertzberg, co-Principal Investigator. 10/1/05 - 9/30/08. \$195,429 total direct costs.
- Role of the STRK1 Gene in Ischemic Stroke in the USA. Funded by Doris Duke Foundation. B. Stern, Principal Investigator, V.S. Hertzberg, co-Principal Investigator. 7/1/02 - 7/30/05.
- U.S. Medical Students' Cancer Prevention Behavior and Attitudes. Funded by American Cancer Society. E. Frank, Principal Investigator. V.S. Hertzberg, co-Investigator. 1/1/01 - 12/31/05.
- Investigation of the Utility of the Multistage Model for Quantification of the Epidemiology of Stroke and Associated Risk Factors. Funded by CDC. V.S. Hertzberg, Principal Investigator. 7/1/04 - 4/30/05.
- Development of Prototypes for the Paul Coverdell National Acute Stroke Registry - The Georgia Project. Funded by CDC. M. Frankel, Principal Investigator, V.S. Hertzberg, co-Principal Investigator, \$1,198,311, September 1, 2001 - August 31, 2002. V.S. Hertzberg, Director of Statistical Coordinating Center \$308,687 total direct costs.
- Genetic/Exposure Interaction in Beryllium Disease. Funded by NIOSH. V. S. Hertzberg, Emory Principal Investigator. \$157,856 direct costs for statistical center, December 1, 2001 - November 30, 2004.
- Progesterone Treatment of Traumatic Brain Injury. Funded by NINDS. A. Kellermann, Principal Investigator, V. S. Hertzberg, Co - Investigator. \$1,940,226 direct costs, September 1, 2001 - August 31, 2004.
- Clinical Research Curriculum Award. D. Stephens, Principal Investigator, \$191,085, June 1, 1999 - May 31, 2004.
- Effect of N-3 Fatty Acids on Sickle Cell Pain Episodes. Funded by NHLBI. J. Eckman, Principal Investigator, \$1,013,882, July 1, 1999 - May 31, 2002.
- Improving Primary Care of African-Americans with NIDDM. Funded by AHRQ. L. Phillips, Principal Investigator, \$3,327,706, September 30, 1998 - September 29, 2002.
- Georgia Model Brain Injury System. Funded by U.S. Department of Education. A. Stringer, Principal Investigator, \$1,380,000, October 1, 1998 - September 30, 2002.
- Prevention of Graft Failure to Dietary N-3 Fatty Acids. Funded by NHLBI. J. Tumlin, Principal Investigator, \$1,368,348, February 1, 1999 - December 31, 2002.
- Chronic Beryllium Disease Among Beryllium-exposed Workers Data Center. Funded by CDC/DOE. V.S. Hertzberg, Emory Principal Investigator, \$453,190, September 29, 1995 - September 29, 2000.
- The MI PBB Cohort 20 Year Later: Endocrine Disruption. Funded by NIEHS/EPA. M. Marcus, Principal Investigator, \$188,062, September 1, 1996 - August 31, 1999.

- General Clinical Research Center (GCRC) at Emory School of Medicine. Funded by NIGMS. T. Lawley, Principal Investigator. \$2,439,239, December 1, 1999 - November 30, 2004.
- Warfarin vs. Aspirin for Intracranial Arterial Stenosis (WASID). Funded by NINDS. M. Chimowitz, Principal Investigator, \$15,803,373, September 15, 1998 - June 30, 2003. V.S. Hertzberg, Director of Statistical Coordinating Center \$1,829,449 direct direct costs.
- Cohort Study of Former Employees of a Chloraklaci Plant in Brunswick, Georgia. Funded by NIEHS. H. Frumkin, Principal Investigator, \$1,089,971, January 1, 1997 - December 31, 1998.
- Implant, Prosthetic & Periodontal Studies. Funded by NIH. M. Fritz, Principal Investigator, \$520,757, March 8, 1995 - March 31, 1999.
- Statistical Methods for DNA Fingerprint Data in Assessing Environmental Change. Funded by EPA. V.S. Hertzberg, Principal Investigator, \$31,369, September 1, 1992 - August 31, 1995.
- Regression Procedures for Multiple Outcomes of Pregnancy, Funded by EPA. V.S. Hertzberg, Principal Investigator, \$53,540, October 1, 1989 - September 30, 1992.
- Statistical Methods in Reproductive Epidemiology. Funded by NICHD. V.S. Hertzberg, Principal Investigator, \$143,102, May 1, 1987 - April 30, 1990.
- Diabetes in Pregnancy. Funded by NICHD. R. Tsang, Principal Investigator, \$9,418,359, December 1, 1988 - November 30, 1993; Project C2 Biostatistics, V.S. Hertzberg, Principal Investigator.
- Exploratory Research on Mutagenic Activity of Coal Related Materials Using Statistical Evaluation. Funded by U.S. Department of Energy. D. Warshawsky, Principal Investigator; R. Schoeny, Co - Principal Investigator; Hertzberg, V.S., co-Investigator, \$106,192, September 29, 1983 to July 29, 1985.
- Diabetes in Pregnancy. Funded by NICHD. R. Tsang, Principal Investigator, \$423,279, June 1, 1983 - May 31, 1988, Project 1B Biostatistics, V.S. Hertzberg, Principal Investigator.
- Perinatal Emphasis Research Center. Funded by NICHD. R. Tsang, Principal Investigator, \$382,546. September, 1985 - September, 1990. Project 1B, Biostatistics Core, V.S. Hertzberg, Principal Investigator.