

1. Elizabeth W. Triche, Ph.D., Assistant Professor, Department of Community Health/Epidemiology

2. Address

3. Education

Ph.D., Epidemiology & Public Health, Yale University, 1997
M. Phil., Epidemiology & Public Health, Yale University, 1994
B.A., Sociology, University of New Orleans, 1988

Post-doctoral coursework:

Cold Spring Harbor Laboratory, Genetics Course
Annual Short Course in Medical and Experimental Mammalian Genetics, The Jackson Laboratory, Bar Harbor, Maine, July 2007
Genetic Epidemiology Course, Professor Josephine Hoh, Yale University, Spring Semester, 2007
Society for Epidemiologic Research Workshop, Genome-wide Association Studies for the Rest of Us: Adding Genome-wide Association to Population Studies, Boston, MA, June 2007
Genome-Wide Association Studies: Design and Analysis, Yale CME, New Haven, CT, October 26-27, 2006
American College of Epidemiology Workshop, Everything you wanted to know about molecular genetics, Bethesda, MD, October 1999

4. Professional Appointments

a. Faculty appointments

2008 – present Assistant Professor of Medical Science
Brown University School of Medicine
Department of Community Health
Division of Epidemiology

2004–2008 Research Scientist (rank equivalent Associate Professor Research)
Yale School of Medicine, Department of Epidemiology & Public Health
Division of Chronic Disease Epidemiology

1997–2004 Associate Research Scientist (rank equivalent: Assistant Professor)
Yale School of Medicine, Department of Epidemiology & Public Health
Division of Chronic Disease Epidemiology

b. Work experience

2002 – 2008 Associate Director, Data Analysis and Management
1997 – 2002 Project Director
Yale University School of Medicine
Center for Perinatal, Pediatric and Environmental Epidemiology
(formerly Perinatal Epidemiology Unit)
New Haven, Connecticut

1996 – 1997 Epidemiologist
Connecticut Children's Medical Center
Child Health Data Center
Hartford, Connecticut

- 1995 – 1996 Consultant
Cigna Health Plan of Connecticut, Quality Management
Bloomfield, Connecticut
- 1991 – 1996 Research and Teaching Assistant
Yale University School of Medicine
New Haven, Connecticut
- 1987 –1991 Assistant Director for Research
University of New Orleans
Environmental Research Institute
New Orleans, Louisiana
- 1986 – 1987 President/CEO
Southeastern Engineering, Inc.
Baton Rouge, Louisiana
- 1982 – 1986 General Manager/Programmer
Pace Computing Corporation
Metairie, Louisiana

5. Bibliography

- a. Books/manuscripts: n/a
- b. Chapters in books: n/a
- c. Refereed journal articles:

DellaValle CT, **Triche EW**, Leaderer BP, Bell MB. Effects of Ambient Pollen Concentrations on Frequency and Severity of Asthma Symptoms Among Asthmatic Children. *Epidemiology*, 2012; 23(1):55-63. [PMCID: PMC3246281](#)

Stamatkin CW, Rousser RG, Stout M, Coulam CB, **Triche E**, Godke RA, Barnea ER. Preimplantation factor negates embryo toxicity and promotes embryo development in culture. *Reprod Biomed Online*. Epub ahead of print 2011 Jun 26. [doi: 10.1016/j.rbmo.2011.06.009](#).

Sharma S, Poon A, Himes BE, Lasky-Su J, Sordillo JE, Belanger K, Milton DK, Bracken MB, **Triche EW**, Leaderer BP, Gold DR, Litonjua AA. Association of variants in innate immune genes with asthma and eczema. *Pediatr Allergy Immunol.*, 2011; [Epub ahead of print] [doi: 10.1111/j.1339-3038.2011.01243.x](#).

Sordillo JE, Sharma S, Poon A, Lasky-Su J, Belanger K, Milton DK, Bracken MB, **Triche EW**, Leaderer BP, Gold DR, Litonjua AA. Effects of endotoxin exposure on childhood asthma risk are modified by a genetic polymorphism in ACAA1. *BMC Med Genet.*, 2011, 12:158. [PMCID: PMC3252252](#)

DellaValle CT, **Triche EW**, Bell ML. Spatial and temporal modeling of daily pollen concentrations. *Int J Biometeorol.* 2011 Feb 18. [Epub ahead of print]. [PMID: 21331820](#).

Weiss L, Bernstein S, Jones R, Amunugama R, Krizman D, Jebailey L, Almogi-Hazan O, Yekhtin Z, Shiner R, Reibstein I, **Triche E**, Slavin S, Or R, Barnea ER. Preimplantation factor (PIF) analog prevents

type I diabetes mellitus (T1DM) development by preserving pancreatic function in NOD mice. *Endocrine* 40(1):41-54, 2011. [PMID: 21424847](#).

Triche EW, Lundsberg LS, Wickner PG, Belanger K, Leaderer BP, Bracken MB. Association of maternal anemia with increased wheeze and asthma in children. *Annals of Asthma, Allergy and Immunology*, 106(2): 131-139, 2011. [PMID: 21277514](#).

Gianfrancesco MA, **Triche EW**, Fawcett J, Labas, M, Lo AC. Speed- and cane-related alterations in gait parameters in individuals with multiple sclerosis. *Gait and Posture* Jan;33(1):140-2, 2011. Epub 2010 Oct 16. [PMID: 20952198](#).

Wen X, **Triche EW**, Hogan JW, Shenassa ED, Buka SL. Association between placental morphology and childhood systolic blood pressure. *Hypertension* 57(1):48-55, 2011. [PMID: 21079045](#).

Wen X, **Triche EW**, Hogan J, Shenassa E, Buka SL. Prenatal factors for childhood blood pressure mediated by intrauterine and/or childhood growth? *Pediatrics*, 127(3):e713-21, 2011. [PMID: 21300676](#).

Venkatesh KK, de Bruyn G, Mayer KH, Cheng H, Blanchard K, Ramjee G, Chipato T, **Triche EW**, Padian NS, van der Straten A. Changes in Sexual Risk Behavior Before and After HIV Seroconversion in Southern African Women Enrolled in a HIV Prevention Trial. *J Acquir Immune Defic Syndr*. 57(5):435-441, 2011. [PMID: 21546849](#).

Venkatesh KK, Srikrishnan AK, Safren SA, **Triche EW**, Thamburaj E, Prasad L, Lurie MN, Kumar MS, Kumarasamy N, Solomon S, Mayer KH. Sexual risk behaviors among HIV-infected South Indian couples in the HAART era: implications for reproductive health and HIV care delivery. *AIDS Care* 23(6):722-33, 2011. [PMID: 21293990](#).

Venkatesh KK, de Bruyn G, Lurie MN, Modisenyane T, **Triche EW**, Gray GE, Welte A, Martinson NA. Sexual Risk Behaviors Among HIV-Infected South African Men and Women with Their Partners in a Primary Care Program: Implications for Couples-Based Prevention. *AIDS Behav*. Epub ahead of print 2011 Apr 8. [PMID: 21476005](#).

Venkatesh KK, Srikrishnan AK, Mayer KH, Kumarasamy N, Raminani S, Thamburaj E, Lakshmi P, **Triche EW**, Solomon S, Safren SA. Predictors of non-adherence to highly active antiretroviral therapy among HIV-infected South Indians in clinical care: implications for developing adherence interventions in resource-limited settings. *AIDS Patient Care & STDs* 24(12):795-803, 2010. [PMID: 21091232](#).

Venkatesh KK, de Bruyn G, Lurie MN, Mohapi L, Pronyk P, Moshabela M, Marinda E, Gray GE, **Triche EW**, Martinson NA. Decreased sexual risk behavior in the era of HAART among HIV-infected urban and rural South Africans attending primary care clinics. *AIDS* 24(17):2687-96, 2010 [PMID: 20808202](#).

Venkatesh K, de Bruyn G, Marinda E, Otjombe K, van Niekerk R, Urban M, **Triche E**, McGarvey S, Lurie M, Gray G. Morbidity and mortality among infants born to HIV-infected women in South Africa: Implications for child health in resource-limited settings. *J Trop Pediatr* 57(2):109-19, 2011. [PMID: 20601692](#).

Venkatesh KK, Lurie MN, **Triche EW**, De Bruyn G, Harwell JI, McGarvey ST, Gray GE. Growth of infants born to HIV-infected women in South Africa according to maternal and infant characteristics. *Trop Med Int Health* 15(11):1364-74, 2010. [PMID: 20955499](#).

Weir L, Hatcher M, **Triche EW**, Lo AC. Effect of body-weight supported treadmill training with and without robotic assistance on quality of life for people with multiple sclerosis. *J Rehab Res & Dev* 48(4):483-92, 2011. [PMID: 21674396](#).

DeWan AT, **Triche EW**, Xu X, Hsu L-I, Zhao C, Belanger K, Hellenbrand K, Willis-Owen SAG, Moffatt M, Cookson WOC, Weiss ST, Gauderman WJ, Baurley JW, Gilliland F, Wilk JB, O'Connor GT, Strachan DP, Hoh J, Bracken MB. PDE11A associations with asthma: Results of a genome-wide association scan. *J Allergy Clin Immunol* Oct; 126(4):871-873.e9, 2010. [PMID: 20920776](#)

Lykke JA, Langhoff-Roos J, Lockwood CJ, **Triche EW**, Paidas MJ. Mortality of mothers from cardiovascular and non-cardiovascular causes following pregnancy complications in first delivery. *Paediatr Perinat Epidemiol* Jul 1:24(4): 323-30, 2010. [PMID: 20618721](#).

Wen X, **Triche EW**, Hogan JW, Shenassa ED, Buka SL. Birth weight and adult hypercholesterolemia: subgroups of small for gestational age based on maternal smoking status during pregnancy. (Brief Report) *Epidemiology* 21(6):786-90, 2010. [PMID: 20798636](#).

Archabald K, Lundsberg L, **Triche EW**, Norwitz E, Illuzzi J. Women's prenatal concerns regarding breastfeeding: are they being addressed? *J Midwifery & Women's Health* 56(1): 2-7. [PMID: 21323844](#).

Saftlas AF, **Triche EW**, Beydoun H, Bracken MB. Does chocolate intake during pregnancy reduce the risks of preeclampsia and gestational hypertension? *Annals of Epidemiology* 2010 Aug;20(8):584-91. [PMID: 20609337](#), [PMCID: PMC2901253](#)

Holford TR, Ebisu K, McKay LA, Gent JF, **Triche EW**, Bracken MB, Leaderer BP. Integrated exposure modeling: A model using GIS and GLM. *Statist Med* 29:116-129, 2010. [PMID: 19823976](#).

Gent, JF, Belanger K, **Triche EW**, Bracken MB, Beckett WS, Leaderer BP. Association of pediatric asthma severity with exposure to common household dust allergens. *Environ Res* 109(6):768-74, 2009. [PMID: 19473655](#).

Bundy KW, Gent JF, Beckett W, Bracken MB, Belanger K, **Triche EW**, Leaderer BP. Household airborne Penicillium associated with peak flow variability in asthmatic children. *Annals of Allergy, Asthma & Immunology* 103(1):26-30, 2009. [PMID: 19563123](#).

Gent JF, Koutrakis P, Belanger K, **Triche E**, Holford TR, Bracken MB, Leaderer BP. Symptoms and Medication Use in Children with Asthma and Traffic-related Sources of Fine Particle Pollution. *Environ Health Perspect* 117(7):1168-74, 2009. [PMID: 19654929](#).

Lykke JA, Paidas M, Damm P, **Triche E**, Kuczynski E, Langhoff-Roos J. Preterm delivery and risk of subsequent cardiovascular morbidity and type-II diabetes in the mother. *BJOG* Feb;117(3):274-81, 2010. [PMID: 20015308](#).

Lykke JA, Langhoff-Roos J, Sibai BM, Funai EF, **Triche EW**, Paidas MJ. Hypertensive pregnancy disorders and subsequent cardiovascular morbidity and type 2 diabetes mellitus in the mother. *Hypertension* 53(6):944-951, 2009. [PMID: 19433776](#).

Belanger K, **Triche EW**. Indoor combustion and asthma. *Immunol Allergy Clin N Amer* 28(3):507-19, 2008. PMID: 18572104.

Lo A, **Triche EW**. Improving gait in multiple sclerosis using robot-assisted, body-weight supported treadmill training. *Neural Rehabilitation and Repair* 22(6): 661-671, 2008. PMID: 18971381. Selected as Faculty of 1000 Medicine (www.f1000medicine.com) article. This service identifies and evaluates the most important articles published in Medicine based on the recommendations of a Faculty of over 2000 peer-nominated leading researchers and clinicians. Identification and inclusion of this article provides recognition from peers of its scientific merit and the positive contribution it makes to the medical literature.

Triche EW, Grosso LM, Belanger K, Darefsky AS, Benowitz NL, Bracken MB. Chocolate consumption in pregnancy is associated with reduced likelihood of preeclampsia and gestational diabetes. *Epidemiology* 19(3): 458-464, 2008. PMID: 18379424.

Triche E, Hossain N. Genetic influences on smoking cessation and relapse in pregnant women. *J of Obstetrics and Gynaecology*, 28(2): 155-160, 2008. PMID: 18393009.

Grosso LM, **Triche EW**, Benowitz NL, Bracken MB. Prenatal Caffeine Assessment: Fetal and Maternal Biomarkers or Self Reported Intake? *Ann Epidemiol* 18:172-178, 2008. PMID: 18083538

Triche EW, Hossain N. Environmental factors implicated in the causation of adverse pregnancy outcome. *Seminars in Perinatology* 31(4): 240-242, 2007. PMID: 17825680.

Urban G, Vergani P, Tironi R, Ceruti P, Vertemati E, Sala F, Pogliani E, **Triche E**, Lockwood C, Paidas M. Antithrombotic prophylaxis in multiparous women with preeclampsia or intrauterine growth retardation in antecedent pregnancy. *International Journal of Fertility & Women's Medicine* 52(2), 2007.

Hossain N, Shamsi T, Haider S, Soomro N, Khan NH, Memon GU, Farzana T, Ansari S, **Triche EW**, Kuczynski E, Lockwood CJ, Paidas MJ. Use of recombinant activated factor VII for massive postpartum hemorrhage. *Acta Obstetrica et Gynecologica Scandinavica* 86:1200-1206, 2007, doi: 10.1080/00016340701619324.

Beckett W, Gent J, Naeher L, Belanger K, **Triche E**, Bracken M, Leaderer B. Peak expiratory flow rate variability is not affected by home combustion sources in a group of non-smoking women. *Archives of Environmental & Occupational Health* 61(4): 1-7, 2007.

Pettigrew MM, Gent JF, Zhu Y, **Triche EW**, Belanger KD, Holford TR, Bracken MB, Leaderer BP. Respiratory symptoms among infants at risk for asthma: association with surfactant protein A haplotypes. *BMC Medical Genetics* 8:15, doi:10.1186/1471-2350-8-15, 2007.

Triche EW, Gent JF, Holford TR, Belanger K, Bracken MB, Beckett WS, McSharry J-e, Leaderer BP. Low level ozone exposure and respiratory symptoms in infants. *Environmental Health Perspectives* 114(6): 911-916, 2006.

Pettigrew MM, Gent JF, Zhu Y, **Triche EW**, Belanger KD, Holford TR, Bracken MB, Leaderer BP. Association of surfactant protein A polymorphisms with otitis media in infants at risk for asthma. *BMC Medical Genetics* 7:68 (02 Aug 2006) <http://www.biomedcentral.com/1471-2350/7/68>, 2006.

Grosso LM, **Triche EW**, Belanger K, Benowitz NL, Holford TR, Bracken MB. Caffeine metabolites in umbilical cord blood, cytochrome P-450 1A2 activity, and intrauterine growth restriction. *Am J Epidemiol*

163: 1035-1041, 2006.

Kwon HL, **Triche EW**, Belanger K, Bracken MB. The epidemiology of asthma during pregnancy: Prevalence, diagnosis, and symptoms. *Immunol Allergy Clin N Amer* 26(2006): 29-62, 2006.

Beydoun H, Saftlas AF, Harland K, **Triche E**. Combining conditional and unconditional recruitment incentives could facilitate telephone tracing in surveys of post-partum women. *Journal of Clinical Epidemiology* 59(7): 732-738, 2006.

Belanger K, Gent JF, **Triche EW**, Bracken MB, Leaderer BP. Association of indoor nitrogen dioxide exposure with respiratory symptoms in asthmatic children. *American Journal of Respiratory and Critical Care Medicine* 173: 297-303, 2006.

Litonjua AA, Belanger K, Celedón JC, Milton DK, Bracken MB, Kraft P, **Triche EW**, Sredl DL, Weiss ST, Leaderer BP, Gold DR. Polymorphisms in the 5' region of CD14 are associated with eczema in young children. *Journal of Allergy and Clinical Immunology* 115(5):1056-62, 2005.

Saftlas AF, Beydoun H, **Triche EW**. Immunogenetic determinants of preeclampsia and related pregnancy disorders: A systematic review. *Obstetrics and Gynecology*, 106(1):162-172, 2005.

Triche EW, Belanger K, Hellenbrand K, Bracken MB, Beckett WS, Holford TR, Gent JF, McSharry J-e, Leaderer BP. Indoor heating sources and respiratory symptoms in non-smoking women. *Epidemiology* 16(3):377-384, 2005.

Triche EW, Saftlas AF, Belanger K, Leaderer BP, Bracken MB. Association between asthma diagnosis, severity, symptoms, and treatment in pregnancy with risk of preeclampsia. *Obstetrics and Gynecology* 104:585-93, 2004.

Bracken MB, **Triche EW**. Letter to Editor: Asthma During Pregnancy. *Obstetrics and Gynecology* 103(5):1001-1002, 2004.

Paidas MP, Ku D-H, **Triche EW**, Lockwood C, Arkel Y. Does Heparin Therapy Improve Pregnancy Outcome In Patients With Thrombophilias? *Journal of Thrombosis and Haemostasis* 2:1194-1195, 2004.

Saftlas AF, Lodgen-Sackett N, Waldschmidt M, **Triche EW**, Field E. Optimizing Buccal Cell DNA Yields in Mothers and Infants for HLA Genotyping. *American Journal of Epidemiology* 160(1): 77-84, 2004.

Gehring U, **Triche EW**, von Strein RT, Belanger K, Holford T, Gold D, Leaderer BP. Prediction of residential pet and cockroach allergen levels using questionnaire information. *Environmental Health Perspectives* 112:834-839, 2004.

Pettigrew M, Gent JF, **Triche EW**, Belanger K, Bracken MB, and Leaderer BP. Association of otitis media with measured household mold in infants during their first year of life. *Paediatric and Perinatal Epidemiology* 18(6):441-447, 2004.

Pettigrew M, Gent JF, **Triche E**, Belanger K, Bracken MB, Leaderer BP. Infant otitis media, recurrent otitis media, and the use of secondary heating sources. *Epidemiology* 15:13-20, 2004.

van Strien RT, Gent J, Belanger K, **Triche E**, Bracken MB, Leaderer BP. Exposure to NO₂ and nitrous acid and respiratory symptoms in the first year of life. *Epidemiology* 15(4): 471-78, 2004.

van Strien RT, Gehring U, Belanger K, **Triche E**, Gent J, Bracken MB, Leaderer BP. The influence of air conditioning, humidity, temperature and other household characteristics on mite allergen concentrations in the Northeastern United States. *Allergy* 59:645-652, 2004.

Bracken MB, **Triche EW**, Belanger K, Saftlas A, Beckett WS, Leaderer BP. Asthma symptoms, severity, and drug therapy: a prospective study of 2205 pregnancies. *Obstetrics and Gynecology* 102(4):743-752, 2003.

Gent J, **Triche E**, Holford TR, Belanger K, Bracken MB, Beckett WS, Leaderer BP. Low level ozone increases symptoms in asthmatic children using maintenance medication: An analysis of simultaneous ozone and fine particle effects. *JAMA* 290:1859-1867, 2003.

Grosso LM, **Triche EW**, Bracken MB. Letter to Editor: Regarding "An unexpected distribution of sodium concentration in serum specimens stored for more than 30 years." *Annals of Epidemiology* 14:77-78, 2004.

Bracken MB, Belanger K, Cookson WO, **Triche E**, Christiani DC, Leaderer BP. Genetic and perinatal risk factors for asthma onset and severity: A review and theoretical analysis. *Epidemiologic Reviews* 24:176-189, 2002.

Belanger K, Beckett W, **Triche E**, Bracken MB, Holford T, Ren P, McSharry J-e, Gold DR, Platts-Mills TAW, Leaderer BP. Symptoms and wheeze and persistent cough in the first year of life: associations with indoor allergens, air contaminants, and maternal history of asthma. *American Journal of Epidemiology* 158:195-202, 2003.

Bracken MB, **Triche E**, Belanger K, Hellenbrand K, Leaderer BP. Association of maternal caffeine consumption with decrements in fetal growth. *American Journal of Epidemiology* 157:456-466, 2003.

Gent JF, Ren P, Belanger K, **Triche E**, Bracken MB, Holford TR, Leaderer BP. Levels of household mold associated with respiratory symptoms in the first year of life in a cohort at risk for asthma. *Environmental Health Perspectives* 110:A781-A786, 2002.

Triche E, Belanger K, Beckett W, Bracken MB, Holford TR, Gent J, Jankun T, McSharry J-e, Leaderer BP. Respiratory symptoms in infants associated with indoor heating sources. *American Journal of Respiratory and Critical Care Medicine* 166:1105-1111, 2002.

Leaderer BP, Belanger K, **Triche E**, Holford T, Kim Y, Jankun T, Ren P, McSharry J-e, Platts-Mills TAE, Chapman MD, Gold DR, Bracken MB. Household concentrations of dust-mite, cockroach, cat and dog allergens in northeastern US: impact of socioeconomic factors and population density. *Environmental Health Perspectives* 110:419-425, 2002.

Bracken MB, **Triche E**, Grosso L, Hellenbrand K, Belanger K, Leaderer BP. Heterogeneity in assessing self-reports of caffeine exposure: implications for studies of health effects. *Epidemiology* 13:165-171, 2002.

von Maffei J, Beckett WS, Belanger K, **Triche E**, Zhang H, Machung J, Leaderer BP. Risk factors for asthma prevalence among urban and non-urban African-American children. *Journal of Asthma* 38:555-564, 2001.

Zhang H, **Triche E**, Leaderer BP. Model for the analysis of binary time series of respiratory symptoms. *American Journal of Epidemiology* 151:1206-1215, 2000.

Eras JL, Saftlas AF, **Triche E**, Hsu CD, Bracken MB. Abortion and its effect on risk of preeclampsia and transient hypertension. *Epidemiology* 11: 36-43, 2000.

Naeher L, Holford T, Beckett W, Belanger K, **Triche E**, Bracken MB, Leaderer BP. Healthy women's PEF variations with ambient summer concentrations of PM₁₀, PM_{2.5}, SO₄²⁺, H⁺, and O₃. *American Journal of Respiratory and Critical Care Medicine* 160: 117-125, 1999.

Bracken MB, Belanger K, Hellenbrand K, Addesso K, Patel S, **Triche E**, Leaderer BP. Correlates of residential wiring code used in studies of health effects of residential electromagnetic fields. *American Journal of Epidemiology* 148: 467-474, 1998.

Spencer JW and **Triche EW**. Media constructions of risk and safety: Differential framings of hazard events. *Sociological Inquiry* 64(2): 199-213, 1994.

Seydlitz R, Laska S, Spain D, **Triche E**, Bishop KL. Development and social problems: The impact of the offshore oil industry on suicide and homicide rates. *Rural Sociology* 58 (1): 93-110, 1993.

Spencer WJ, Seydlitz R, Laska S, **Triche E**. The different influences of newspaper and television news reports of a natural hazard on the public's response. *Communication Research* 19(3): 299-325, 1992.

Seydlitz R, Spencer JW, Laska S, **Triche E**. The effects of newspaper reports on the public's response to a natural event. *International Journal of Mass Emergencies and Disasters* 9(March): 5-29, 1991.

d. Non-refereed journal articles: n/a

e. Book reviews: n/a

f. **Abstracts:**

Triche EW, Belanger K, Beckett W, Bracken MB, Holford T, Jankun T, McSharry J-e, Leaderer BP. Association Between Indoor Heating and Cooking Sources and Respiratory Symptoms in Infants. Presented at ATS Meeting in Atlanta, Georgia, May 2002, *Am J Respir Crit Care Med* 2002;165;A676.

Triche EW, Belanger K, Gent JF, Beckett W, Holford T, Bracken MB, Leaderer BP. Association Between Indoor Heating Sources and Winter Episodes of Respiratory Symptoms in Nonsmoking Women. Presented at the American Thoracic Society Meeting in Atlanta, Georgia, May 2002, *Am J Respir Crit Care Med* 2002;165;A676.

g. **Invited lectures:**

Triche EW. Nature and Distribution of NO₂ in a Study Area. US EPA Linking Ambient NO₂ to Health Effects—Issues in Studying Human Exposures Workshop, Piscataway, NJ, January 11-12, 2007.

Triche EW, Grosso LM, Belanger K, Hellenbrand K, Leaderer BP, Bracken MB. Comparison between self-report and biochemical assessment of smoking in pregnancy. Symposium: Measuring in-Utero Exposures in Longitudinal Children Studies: What, Why, How and When? International Conference on Environmental Epidemiology & Exposure, Paris, France, September 2-6, 2006.

Triche EW. Exposure to Allergens and IgE Sensitization in At-Risk Children. 13th Annual Conference of the International Society of Exposure Analysis, Stresa, Italy, September 21-25, Abstract O3.1-08, 2003.

Triche EW. Asthma in Pregnancy. American Society of Reproductive Immunologists (ASRI) Pre-Congress Symposium, Yale University School of Medicine, June 17, 2003.

Triche EW. The Pregnant Asthmatic. Connecticut Perinatal Association Annual Meeting. Oct, 1997.

h. Papers read (poster presentations at professional meetings):

Wen X, **Triche EW**, Hogan JW, Shenassa ED, Buka SL. Associations of placental size and vascular pathological lesions with childhood systolic blood pressure. 16th Annual Maternal and Child Health Epidemiology (MCH EPI) Conference. San Antonio, TX, USA; December 15-17, 2010.

Triche EW, Belanger K, Lundsberg L, Hellenbrand KG, Leaderer BP. Cord serum concentrations of iron are associated with decreased likelihood of respiratory symptoms in the first year of life in at-risk children. Presented at the American Thoracic Society Meeting in Toronto, Canada, May 16-21, 2008.

i. Work in review:

Fawcett JA, Labas MP, **Triche EW**, Lo AC. A combination of robot-assisted and body weight supported treadmill training improves gait in persons with multiple sclerosis: a pilot randomized study. *J NeuroEngineering and Rehabilitation*, under review, 2010.

j. Work in progress:

Sharma S, Poon A, Lasky-Su J, Sordillo J, Belanger K, Milton DK, Bracken MB, **Triche EW**, Leaderer BP, Gold DR, Litonjua AA. Association of variants in innate immunity genes with asthma and eczema, *Allergy*, to be submitted July 2010.

Triche EW, Houseman EA, Harland K, Saftlas AF. Maternal-fetal HLA sharing and risk of preeclampsia. In preparation, 2011.

Triche EW, Houseman EA, Leaderer BP. Repeated measures to increase power in GWAS studies. In preparation, 2011.

Triche EW, Houseman EA. Genetic polymorphisms in neurotransmitter pathways associated with smoking cessation and relapse in pregnant women. In preparation, 2011.

Triche EW, Peskoe S, Houseman EA. Psychosocial factors associated with smoking cessation and relapse in pregnant women. In preparation, 2011.

Saftlas AF, Harland K, **Triche EW**. Cumulative sperm exposure and risk of preeclampsia. In preparation, 2011.

6. Research Grants

a. Current grants

Agency: Veterans Administration (IPA 1I01RX000475-01)
Title: Cortical Mechanisms of Gait in Parkinson's Disease Using Optical Imaging
Dates: 10/1/10 – 9/30/12
Role: Co-Investigator
Description: The aim is to assist with primary study design and be responsible for developing and implementing the statistical analysis plan for this project. Supervision of data management will be involved, and also data interpretation for manuscript preparation and submission.

Agency: National Multiple Sclerosis Society
Title: Rhode Island Multiple Sclerosis Study (RIMSS) (PI: Buka/Lo)
Submission Date: October 2009
Role: Co-Investigator
Description: Phase I epidemiologic study to identify all patients with multiple sclerosis in Rhode Island and their sociodemographic and clinical characteristics.

Agency: NIH/NICHD (HHSN267200700032C)
Title: National Children's Study (PI: Buka)
Dates: 7/1/10 – 9/25/13
Role: Co-Investigator
Description: This project examines the effects of environmental influences on the health and development of more than 100,000 children across the US, following them from before birth until the age of 21. Brown/Women & Infants Hospital has two study sites (Providence County, RI and Bristol County, MA). Using a provider-based recruitment strategy, the goal is to enroll 1,000 families from each study site. The overall goal of the study is to improve the health and well-being of children.

Agency: NIH/NIEHS (R01 ES0 17416)
Title: Traffic and Respiratory Morbidity in the Northeast (PI: Leaderer/Gent/Holford)
Dates: 7/16/09 – 4/30/14
Role: Co-Investigator
Description: This study will use data collected in our previously conducted studies of children and pregnant women along with pollutant estimates from sophisticated atmospheric models to examine the short-term effects of air pollution on respiratory morbidity.

Agency: NIH/NIEHS (R01 ES0 16317)
Title: Effect of Air Pollution and Traffic on Birth Outcomes (PI: Belanger/Bell)
Dates: 8/1/08 – 4/30/13
Role: Co-Investigator
Description: This study uses a two-pronged approach to assessing the impact of air pollution on birth outcomes. The first method will examine whether traffic exposure and pollution measurements at the residential addresses of a cohort of 10,000 women have an impact on birth outcomes. The question will be revisited using birth certificate data on over 250,000 women in the same area as the cohort study data.

b. Completed Grants

Agency: Connecticut Department of Public Health (PI: Triche)
Title: Genetics and Smoking in Pregnancy (GASP)
Dates: 7/1/06 – 6/30/09
Role: Principal Investigator

Agency: NIH/NHLBI (R07515)
Title: Genome-wide association studies of asthma in populations of African descent (PI: Barnes)
Dates: 10/1/06 – 9/30/09
Role: Co-Investigator (subcontract)

Agency: NIH/NIEHS (R01 ES0 11013-05A1)

Title: Asthma Severity in Children and Fine Particle Composition (PI: Leaderer)
 Dates: 7/9/01 – 6/30/05
 Role: Co-Investigator

Agency: NIH/NIEHS (R01 ES0 11013-05A)
 Title: Indoor and Outdoor NO₂ and Asthma Severity in Children (Leaderer)
 Dates: 07/01/05 – 04/30/10
 Role: Co-Investigator

Agency: NIH/NICHD (R01 HD045 735)
 Title: Effects of Perinatal Depression on Preterm Delivery and Low Birth Weight (PI: Yonkers)
 Dates: 9/01/04 – 8/30/10
 Role: Director, Data Management and Analysis

Agency: NIH/NIEHS (R01 AI056230)
 Title: Gene by Environment Interactions in Asthma and Allergy (PI: Litonjua (Harvard))
 Dates: 05/15/05 - 02/28/10
 Role: Co-Investigator, Director of Data Management

Agency: NIAID/NHLBI (R02 AI 41040)
 Title: Perinatal Risk of Asthma in Infants of Asthmatic Mothers (PI: Bracken)
 Dates: 05/15/03 – 04/30/08
 Role: Co-Investigator

Agency: Veterans Administration
 Title: Characterization and treadmill treatment of Gait dysfunction in Multiple Sclerosis (PI: Lo)
 Dates: 07/01/06 – 09/30/07
 Role: Co-Investigator, Biostatistician

Agency: NIH/NICHD (R01 HD032579)
 Title: Maternal-Fetal HLA Sharing and Risk of Preeclampsia (PI: Saftlas / Triche (subcontract))
 Dates: 09/01/01 – 07/31/07
 Role: Co-Investigator / Principal Investigator, Yale subcontract

Agency: NIH/NIEHS (2R01 ES0 7456-10)
 Title: Gene-Environment Interactions in Asthma Development (PI: Leaderer)
 Dates: 09/25/95 – 02/28/07
 Role: Co-Investigator

Agency: NIH/NIEHS (1R01 ES0 11013-03)
 Title: Genetic & Environmental Risk Factors in Asthma Severity (PI: Leaderer)
 Dates: 07/09/01 – 06/30/05
 Role: Co-Investigator

Agency: NIH/NIDA (R01 DA 05484)
 Title: Paraxanthine and Reproductive Effects of Caffeine (PI: Bracken)
 Dates: 01/15/03 – 12/31/05
 Role: Co-Investigator

Agency: NIH/NIEHS (R01 ES0 5419-09)
Title: Asthma Severity in Children and Environmental Agents (PI: Leaderer)
Dates: 08/26/99 – 07/31/04
Role: Co-Investigator

Agency: NIH/NIDA (R01 DA 05484)
Title: Effects of Caffeine and Coffee on Fetal Development (PI: Bracken)
Dates: 08/01/95 – 06/30/01
Role: Project Director/Co-Investigator

Agency: NIH/NIAID (R01 AI 41040)
Title: Effects of Asthma Severity and Medication in Pregnancy (PI: Bracken)
Dates: 09/01/96 – 08/31/01
Role: Project Director/Co-Investigator

c. Proposals Submitted

Agency: NIH (R21)
Title: Fetal Genetic Contributions to Preeclampsia (PI: Triche/DeWan)
Submission Date: July 2011 - scored at 8th percentile 11/2011
Role: Principal Investigator (Multiple)

Agency: NIH (R03)
Title: Urinary theobromine concentrations and risk of preeclampsia (PI: Triche)
Submission Date: October 2011
Role: Principal Investigator

Agency: ACORDA Pharmaceuticals
Title: Response to dalfampridine in MS patients: Predictors and alternative outcomes (PI: Triche / Lo)
Submission Date: December 2010
Role: Principal Investigator (Multiple)

7. Service

i. University

Co-Director of Graduate Studies Jan 2009-July 2011
Epi Admissions Committee: Chair 2010, Member 2009
Epi Core Competencies and Admissions Committee: Chair 2009-present
Epi Curriculum Committee Member: 2009-2010
Community Health Graduate Program Steering Committee 2009-present
Community Health Curriculum Committee 2008-present
MPH Curriculum Committee 2009-2010
Faculty Search Committee, Environmental Epidemiology position: 2009, 2011

ii. Professional

Chair, CDC Special Emphasis Panel, Special Interest Project - STDs – Panel F, 2011/10 Council ZDP1 NAI F5R, 6/22/2011.

Reviewer for National Academies, National Research Council's "Review of the Environmental Protection Agency's Draft IRIS Assessment of Formaldehyde", 2/2011.

Reviewer for journals: *JAMA*, *Human Reproduction*, *American Journal for Respiratory and Critical Care Medicine*, *American Journal of Epidemiology*, *International Journal of Epidemiology*, *Environmental Health Perspectives*, *American Journal of Preventive Medicine*, *BMC Medical Genetics*, and *Journal of Neurological Sciences*, 2008, 2009, 2010, 2011.

Grant Reviewer for Canadian Institutes of Health Research (CIHR), 2009.

CDC Special Emphasis Panel, Centers for Birth Defects Research and Prevention, October 7, 2008.

Consultant, University of Iowa, School of Public Health, Database Development and Management, 2007.

Consultant for Health Effects Institute, Traffic-Related Pollutant Exposures, 2007.

Consultant for ECRI Institute's Evidence-Based Practice Team, May 2007 - present

Expert Consultant for VIDA Health Communications, Inc., *Environmental Risks in Pregnancy*, Provider and Patient Educational Materials, September 2006 - present

Reviewer for European Respiratory Society, Joint ERS Research Seminar: 'Impact of Pollutants on the Respiratory Health of Children', November 2006.

NIH Infectious Diseases and Reproductive Health/IRAP Member Conflict Special Emphasis Panel (Primary Reviewer and Discussant), April 12, 2006.

NICHD Special Emphasis Panel, Global Network for Women's and Children's Health Research, June 5, 2002.

NICHD Review committee, Ad Hoc reviewer for Program Project Grant, Hershey, Pennsylvania, September 1998.

8. Honors and Awards

2007	NIH Travel Award, 48 th Annual Short Course in Medical and Experimental Mammalian Genetics, The Jackson Laboratory, Bar Harbor, Maine
1991– 1995	NIMH Research Fellow
1988	Student Research Award, University of New Orleans

9. Teaching, Lectures

Professor, PHP2120, Introduction to Epidemiologic Research Methods, Brown University, Fall 2008, 2009, 2010 (50-70 students/semester)

Professor, PHP2220C, Reproductive and Perinatal Epidemiology, Brown University, Spring 2009, 2011 (9-11 students)

Professor, PHP 2430, Analysis of Population-Based Datasets Using the SAS System, Spring 2010, 2012 (18 students)

Independent Study, Fall 2008, Spring 2009, Fall 2010, Spring 2011

Medical Student Clerkship, Brown University Spring 2010 (2 sessions)

Instructor, CDE534b, Approaches to Data Management and Analysis, Yale University, Spring 2001, 2002, 2003 (50 students per semester)

Teaching Assistantships:

Advanced Epidemiological Research Methods (*doctoral level*)
Epidemiology, Health Resources, and Health Policy (*masters'/doctoral level*)
Data Management (*masters' level*)
Quantitative Research Methods (*masters'/doctoral level*)
Integrative Policy Analysis Seminar (*masters'/doctoral level*)
Financial Decision Making in Health Care (*masters' level*)

Student Advising (Brown University and Yale University):

a. PhD students:

2010-present Valery Danilack
2008-11 Anthony Nunes (Chair)
2009-11 Monica Bertoia (Chair)
2009-10 Kartik Venkatesh (MD/PhD)
2010-present Emma Viscidi (Chair)
2010-11 Jessi Champion
2008-10 Xiaozhong Wen
2006-10 Curt DellaValle (Yale)

b. MD Thesis Advisor

2007-09 Rashele Cross (MD/PhD, Yale)
2007-08 Jacob Lykke (Denmark/Yale)
2006-07 Kristian Jensen (Norway/Yale)
2005-06 Mary Hatcher (Yale)
2004-05 Oistein Mjelva (Norway/Yale)
1997-98 Jennifer Eras (Yale)

c. MPH Thesis Advisor/Reader

2011-12 3 Brown students (Heidi Schneider MD, Alyse Laliberte, Jordan Davis)
2010-11 1 Brown student (Danielle Cote)
2008-09 1 Brown student (Folsade Ajayi, MD)
1998-08 21 Yale students

d. MS Thesis Advisor/Reader

2010-11 1 Brown biostatistics M.S. student (Sarah Peskoe)

e. Fellowship/Grant Advisor

2007-08 Rashele Cross – NIH Minority Supplement Grant
2002-03 Adanna Anyikam – MIRT Fellowship Faculty Mentor

f. Undergraduate Honors Thesis Advisor

2011-present Corinne Larson

g. MPH Internship

2010-2011 Elisabeth Becker