

September 15, 2016

RESUME

NAME: Shuster, Jonathan J.

BORN: Montreal, P.Q., Canada 1-6-43

CITIZENSHIP: USA

MARITAL STATUS: Married, two children

EDUCATION:

B.Sc. McGill University, Montreal, 1964 (Chemistry)
M.Sc. McGill University, Montreal, 1967 (Math-Statistics)
Ph.D. McGill University, Montreal, 1969 (Math-Statistics)

AWARDS:

The National Research Council of Canada Studentship (1968-69)
Warner Lambert Research Award (1980)
Research Achievement Award (UF) (1990, 1991, 1992, 1993) (Only years awarded)
University of Florida Research Foundation Professorship: 2000-2002

PROFESSIONAL MEMBERSHIPS:

American Statistical Association (Elected Fellow 1992)
Society for Clinical Trials (1981-)

EMPLOYMENT EXPERIENCE:

Sir George Williams University: Lecturer, 1966-68 (Math-Statistics)

McGill University: Lecturer, 1968-69 (Math)

University of Florida: Assistant Professor, 1969-74 (Statistics)
Tenured Associate Professor, 1974-80 (Statistics)
Professor, 1980 - 2001 (Statistics)
Adjunct Professor 2002
Assoc. Chair of Statistics, College of Medicine 2000-2001
Research Professor of Statistics 2003-2005
Professor of Epidemiology/Health Policy 2005-2010
Professor, Health Outcomes/Policy 2010-
Director, Research Design/Analysis Program, CTSI 2009-2015
Co-Director, Biostatistics, Epidemiology Research Design
CTSI 2015-2016

McGill University: Visiting Associate Professor, 1976-77 (Math-Statistics)

CONSULTING EXPERIENCE IN STATISTICS:

VA Hospital, Gainesville, Florida, 1974 – 1994, 2013-
B&M Chemicals, St. Petersburg, Florida 1974-75
Group Statistician, U. F. Center for Ambulatory Studies, 1975-84
Louisiana State University, Department of Ophthalmology, 1978-83
Affiliate Faculty - Health Services Research - VA Hospital, 1980-82
National Institutes of Health - Special Biostatistical Study Section - 1982-84

CONSULTING EXPERIENCE IN STATISTICS: (Continued)

National Institutes of Health - Epidemiology and Disease Control Study Section, 1986-90
(Chairman 1989-90)
President - Research Assistance Corporation, 1981 - 2009
Florida Association of Pediatric Tumor Programs, 1981 -1993
University of Minnesota, 1989 - 1996
Lederle Laboratories, 1987 - 89
National Institutes of Health, Cancer Clinical Investigation Review Committee, 1991-
1993
Associate Editor, Journal of the American Statistical Association, 1993-1995
Editorial Board, Sequential Analysis 1996-
Editorial Board, Blood 1999-2003
National Institutes of Health - Epidemiology of Chronic Disease Study Section, 2003-5
National Institutes of Health –Cardiovascular and Sleep Epidemiology Study
Section,2005-2008
Nominated to Peer review group for National Institutes of Health Special emphasis panel
For Clinical and Translational Research Awards (2010)
General Clinical Research Center (GCRC), University of Florida, Biostatistician 2002-
2009
Shands Clinical Research Center (Replaced GCRC), Biostatistician 2009-
VA, Brain Rehabilitation Research Center, Biostatistician WOC, 2014-

ADMINISTRATIVE EXPERIENCE:

Chairman, U. F. Department of Statistics Self-Study Committee, 1970
Undergraduate Coordinator (Statistics), 1971-80
Library Coordinator for Statistics, 1970-71
Chairman, Statistics Sponsored Research Committee, 1974-80
Elected University of Florida Faculty Senate, 1972-75, 1980-82
Member, Institutional Review Board (Human Subjects), University of Florida, 1984-87
and 2006-2014
Director, UF International Center for Childhood Cancer Research 1994-2001

GRANTS AND CONTRACTS:

University of Florida Seed Grants, 1973-74, 1980-82
Offshore Power Systems (Jacksonville, Florida), 1973-75
American Cancer Society, 1974-75
National Eye Institute (N.I.H.), 1974-76
Environmental Protection Agency, 1976-80
Severity Indexes 1979-82 (NIH, Co-Investigator)

Statistical Office, Pediatric Oncology Group (National Cancer Institute, Co-Principal Investigator, 1980- 93, PI 1993 -2000)

Research Data Center, Children's Oncology Group (National Cancer Institute, Director 2000-2001 and Adjunct 2002-

POG as a Research Base for Community Cancer Outreach Programs (National Cancer Institute PI 1993 -97 Co-PI 1997-2001)

University of Florida General Clinical Research Center-Biostatistician 2002-2009

HOBBIES: Duplicate Bridge, Keyboards/Synthesizer/Digital Music Production

BOOKS and BOOK CHAPTERS:

Handbook of Sample Sizes for Clinical Trials. Chemical Rubber Company: Boca Raton (1990, 1992).

Handbook of Statistics in Clinical Oncology, John Crowley, ed. Marcel Decker, NY, 2nd edition (2006, Chapter 13)

Textbook of Clinical Trials, D. Machin, S. Day, and S. Green eds., Wiley Publications, West Sussex, UK (2006, Chapter 5, co-author Dr. S. Murphy)

Topics in Biostatistics, Walter Ambrosius, Ed., Humana Press, Totowa, NJ (2007, Chapter 12)

REFEREED PUBLICATIONS since 2005 (Total publications all years: 396, Methods 61 collaborative 335)

Leverence R, Nuttall R, Palmer R, Segal M, Wood A, Yancey, F, Shuster J, Brantly, M, Hromas R. Using Organizational Philosophy to Create a Self-Sustaining Compensation Plan Without Harming Academic Missions. *Academic Medicine*, 2016 (In Press)

Stellefson, M., Shuster, J., Chaney, B., Alber, J., Chaney, J.D., & Paige, S. Web-based health information seeking and eHealth literacy among patients living with Chronic Obstructive Pulmonary Disease (COPD). *Health Communication*. (accepted w revisions; in press)

Meehan CS, Kethireddy PL, Ashcraft JK, Shuster JJ, Haller MJ. Premeal insulin decreases arterial stiffness in children with type 1 diabetes. *Pediatr Diabetes*. 2016 May 13. doi: 10.1111/pedi.12389. [Epub ahead of print] PubMed PMID: 27174580.

Kawaguchi-Suzuki M, Nasiri-Kenari N, Shuster J, Gmitter F, Cancalon P, de Oliveria F, Kight J, Handberg E, Pepine C, Frye RF, Cooper-DeHoff R. The Effect of Low Furanocoumarin Grapefruit Hybrid Juice Consumption on Midazolam Pharmacokinetics. *Journal of Clinical Pharmacology*, In Press, 2016.

Van Dillen C, Tice M, Patel A, Meurer D, Tyndall JA, Elie-Turenne M, Shuster J. Trauma Simulation Increases Confidence Levels in Prehospital Personnel Performing Life-Saving Interventions in Trauma Patients. *Emergency Medicine International*, in Press 2016.

Rodriguez CS, Rowe M, Thomas L, Shuster J, Koeppl B, Cairns P. Enhancing the Communication of Suddenly Speechless Critical Care Patients. *Am J Crit Care*. 2016 May;25(3):e40-7. doi: 10.4037/ajcc2016217. PubMed PMID: 27134237; PubMed Central PMCID: PMC4855698.

Linden S, Bussing R, Kubilis P, Gerhard T, Segal R, Shuster JJ, Winterstein AG. Risk of Suicidal Events With Atomoxetine Compared to Stimulant Treatment: A Cohort Study. *Pediatrics*. 2016 May;137(5). pii: e20153199. doi: 10.1542/peds.2015-3199. PubMed PMID: 27244795; PubMed Central PMCID: PMC4845870.

Cannon SH, Levy JK, Kirk SK, Crawford PC, Leutenegger CM, Shuster JJ, Liu J, Chandrashekar R. Infectious diseases in dogs rescued during dogfighting investigations. *Vet J*. 2016 May;211:64-9. doi: 10.1016/j.tvjl.2016.02.012. Epub 2016 Mar 4. PubMed PMID: 27056107.

Schaefer JL, Lukowski ZL, Meyer AM, Leoncavallo AJ, Greer A, Martorana GM, Zou B, Shuster JJ; Ocular Hypertension Treatment Study Group, Sherwood MB. Comparing Glaucomatous Disc Change Using Stereo Disc Viewing and the MatchedFlicker® Software Program in Ophthalmologists in Training. *Am J Ophthalmol*. 2016 Mar 30. pii: S0002-9394(16)30135-0. doi: 10.1016/j.ajo.2016.03.031. [Epub ahead of print] PubMed PMID: 27038890.

Zou B, Zou F, Shuster JJ, Tighe PJ, Koch GG, Zhou H. On variance estimate for covariate adjustment by propensity score analysis. *Stat Med*. 2016 Sep 10;35(20):3537-48. doi: 10.1002/sim.6943. Epub 2016 Mar 21. PubMed PMID: 26999553; PubMed Central PMCID: PMC4961520.

Richter, C, Taylor J, Shuster J. Correction of point of care INR results in Warfarin patients. *Point of Care* 2016; 15(1):1-3.

Sacino AN, Shuster JJ, Nowicki K, Carek PJ, Wegman MP, Listhaus A, Gibney JM, Chang KL. Novel Application of a Reverse Triage Protocol Providing Increased Access to Care in an Outpatient, Primary Care Clinic Setting. *Fam Med*. 2016 Feb;48(2):136-139. PubMed PMID: 26950786.

Sattari M, Serwint JR, Shuster JJ, Levine DM. Infant-Feeding Intentions and Practices of Internal Medicine Physicians. *Breastfeed Med*. 2016 May;11:173-9. doi: 10.1089/bfm.2015.0151. Epub 2016 Feb 26. PubMed PMID: 26918534; PubMed Central PMCID: PMC4860625.

Marchick MR, Allen BR, Weeks EC, Shuster JJ, Elie MC. The incidence and significance of acute kidney injury following emergent contrast administration in patients with STEMI and stroke. *Intern Emerg Med*. 2016 Sep;11(6):853-7. doi: 10.1007/s11739-016-1407-9. Epub 2016 Feb 24. PubMed PMID: 26910240.

Chmielewski TL, George SZ, Tillman SM, Moser MW, Lentz TA, Indelicato PA, Trumble TN, Shuster JJ, Cicuttini FM, Leeuwenburgh C. Low- Versus High-Intensity Plyometric Exercise During Rehabilitation After Anterior Cruciate Ligament Reconstruction. *Am J Sports Med.* 2016 Mar;44(3):609-17. doi: 10.1177/0363546515620583. Epub 2016 Jan 21. PubMed PMID: 26797700.

Shuster JJ. Discussion of 'Misunderstandings about Q and "Cochran's Q Test" in meta-analysis'. *Stat Med.* 2016 Feb 20;35(4):498-500. doi: 10.1002/sim.6762. PubMed PMID: 26776060.

Shuster JJ, Walker MA. Low-event-rate meta-analyses of clinical trials: implementing good practices. *Stat Med.* 2016 Jun 30;35(14):2467-78. doi: 10.1002/sim.6844. Epub 2016 Jan 5. PubMed PMID: 26728099; PubMed Central PMCID: PMC4891219.

Elgendy IY, Mahmoud A, Shuster JJ, Doukky R, Winchester DE. Outcomes after inappropriate nuclear myocardial perfusion imaging: A meta-analysis. *J Nucl Cardiol.* 2016 Aug;23(4):680-9. doi: 10.1007/s12350-015-0240-2. Epub 2015 Aug 8. PubMed PMID: 26253327.

Wagle Shukla A, Shuster JJ, Chung JW, Vaillancourt DE, Patten C, Ostrem J, Okun MS. Repetitive Transcranial Magnetic Stimulation (rTMS) Therapy in Parkinson Disease: A Meta-Analysis. *PM R.* 2015 Aug 24. pii: S1934-1482(15)00970-3. doi: 10.1016/j.pmrj.2015.08.009. [Epub ahead of print] Review. PubMed PMID: 26314233.

Chen CY, Bussing R, Hartzema AG, Shuster JJ, Segal R, Winterstein AG. Stimulant use following the publicity of cardiovascular safety and the introduction of patient medication guides. *Pharmacoepidemiol Drug Saf.* 2016 Jun;25(6):678-86. doi: 10.1002/pds.3894. Epub 2015 Nov 23. PubMed PMID: 26597624.

Mehta HJ, Begnaud A, Penley AM, Wynne J, Malhotra P, Fernandez-Bussy S, Cope J, Shuster JJ, Jantz MA. Restoration of Patency to Central Airways Occluded by Malignant Endobronchial Tumors Using Intratumoral Injection of Cisplatin. *Ann Am Thorac Soc.* 2015 Sep;12(9):1345-50. doi: 10.1513/AnnalsATS.201503-131OC. PubMed PMID: 26072968.

Mehta HJ, Begnaud A, Penley AM, Wynne J, Malhotra P, Fernandez-Bussy S, Cope JM, Shuster JJ, Jantz MA. Treatment of isolated mediastinal and hilar recurrence of lung cancer with bronchoscopic endobronchial ultrasound guided intratumoral injection of chemotherapy with cisplatin. *Lung Cancer.* 2015 Dec;90(3):542-7. doi: 10.1016/j.lungcan.2015.10.009. Epub 2015 Oct 9. PubMed PMID: 26477968.

Haller MJ, Atkinson MA, Wasserfall CH, Brusko TM, Mathews CE, Hulme M, Cintron M, Shuster J, McGrail K, Posgai A, Schatz D. Mobilization without immune

depletion fails to restore immunological tolerance or preserve beta cell function in recent onset type 1 diabetes. *Clin Exp Immunol*. 2016 Mar;183(3):350-7. doi: 10.1111/cei.12731. Epub 2015 Dec 7. PubMed PMID: 26462724; PubMed Central PMCID: PMC4750600.

Campbell-Thompson ML, Kaddis JS, Wasserfall C, Haller MJ, Pugliese A, Schatz DA, Shuster JJ, Atkinson MA. The influence of type 1 diabetes on pancreatic weight. *Diabetologia*. 2016 Jan;59(1):217-21. doi: 10.1007/s00125-015-3752-z. Epub 2015 Sep 10. PubMed PMID: 26358584; PubMed Central PMCID: PMC4670792.

Bairey Merz CN, Handberg EM, Shufelt CL, Mehta PK, Minissian MB, Wei J, Thomson LE, Berman DS, Shaw LJ, Petersen JW, Brown GH, Anderson RD, Shuster JJ, Cook-Wiens G, Rogatko A, Pepine CJ. A randomized, placebo-controlled trial of late Na current inhibition (ranolazine) in coronary microvascular dysfunction (CMD): impact on angina and myocardial perfusion reserve. *Eur Heart J*. 2016 May 14;37(19):1504-13. doi: 10.1093/eurheartj/ehv647. Epub 2015 Nov 27. Review. PubMed PMID: 26614823; PubMed Central PMCID: PMC4872284.

Schatz RA, Zhang Q, Lodhia N, Shuster J, Toskes PP, Moshiree B. Predisposing factors for positive D-Xylose breath test for evaluation of small intestinal bacterial overgrowth: a retrospective study of 932 patients. *World J Gastroenterol*. 2015 Apr 21;21(15):4574-82. doi: 10.3748/wjg.v21.i15.4574. PubMed PMID: 25914466; PubMed Central PMCID: PMC4402304.

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Hendeles L, Khan YR, Shuster JJ, Chesrown SE, Abu-Hasan M. Omalizumab therapy for asthma patients with poor adherence to inhaled corticosteroid therapy. *Ann Allergy Asthma Immunol*. 2015 Jan;114(1):58-62.e2. doi: 10.1016/j.anai.2014.10.012. PubMed PMID: 25528738.

Moawad NS, Santamaria E, Johnson M, Shuster J. Cost-effectiveness of office hysteroscopy for abnormal uterine bleeding. *JSLs*. 2014 Jul;18(3). pii: e2014.00393. doi: 10.4293/JSLs.2014.00393. PubMed PMID: 25392645; PubMed Central PMCID: PMC4154435.

Zou B, Jin B, Koch GG, Zhou H, Borst SE, Menon S, Shuster JJ. On model selections for repeated measurement data in clinical studies. *Stat Med*. 2015 May 10;34(10):1621-33. doi: 10.1002/sim.6414. Epub 2015 Jan 23. PubMed PMID: 25645442; PubMed Central PMCID: PMC4390448.

Borst SE, Shuster JJ, Zou B, Ye F, Jia H, Wokhlu A, Yarrow JF. Cardiovascular risks and elevation of serum DHT vary by route of testosterone administration: a systematic review and meta-analysis. *BMC Med*. 2014 Nov 27;12:211. doi: 10.1186/s12916-014-0211-5. Review. PubMed PMID: 25428524; PubMed Central PMCID: PMC4245724.

Kweh FA, Miller JL, Sulsona CR, Wasserfall C, Atkinson M, Shuster JJ, Goldstone AP, Driscoll DJ. Hyperghrelinemia in Prader-Willi syndrome begins in early infancy long before the onset of hyperphagia. *Am J Med Genet A*. 2014 Oct 29. doi: 10.1002/ajmg.a.36810. [Epub ahead of print] PubMed PMID: 25355237.

Shroads AL, Coats BS, Langae T, Shuster JJ, Stacpoole PW. Chloral hydrate, through biotransformation to dichloroacetate, inhibits maleylacetoacetate isomerase and tyrosine catabolism in humans. *Drug Metabol Drug Interact*. 2014 Oct 4. pii: /j/dmdi.ahead-of-print/dmdi-2014-0015/dmdi-2014-0015.xml. doi: 10.1515/dmdi-2014-0015. [Epub ahead of print] PubMed PMID: 25283137.

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Acosta A, Azzalin A, Emmons CJ, Shuster JJ, Jay M, Lo MC. Improving residents' clinical approach to obesity: impact of a multidisciplinary didactic curriculum. *Postgrad Med J*. 2014 Nov;90(1069):630-7. doi: 10.1136/postgradmedj-2014-132821. Epub 2014 Sep 11. PubMed PMID: 25214540.

Torrazza RM, Parker LA, Li Y, Talaga E, Shuster J, Neu J. The value of routine evaluation of gastric residuals in very low birth weight infants. *J Perinatol*. 2014 Aug 28. doi: 10.1038/jp.2014.147. [Epub ahead of print] PubMed PMID: 25166623.

Parker L, Torrazza RM, Li Y, Talaga E, Shuster J, Neu J. Aspiration and evaluation of gastric residuals in the neonatal intensive care unit: state of the science. *J Perinat Neonatal Nurs*. 2015 Jan-Mar;29(1):51-9; quiz E2. doi: 10.1097/JPN.000000000000080. PubMed PMID: 25633400; PubMed Central PMCID: PMC4313388.

Sharma R, Kraemer DF, Torrazza RM, Mai V, Neu J, Shuster JJ, Hudak ML. Packed

red blood cell transfusion is not associated with increased risk of necrotizing enterocolitis in premature infants. *J Perinatol*. 2014 Nov;34(11):858-62. doi: 10.1038/jp.2014.59. Epub 2014 Aug 21. PubMed PMID: 25144159.

Borst SE, Yarrow JF, Fernandez C, Conover CF, Ye F, Meuleman JR, Morrow M, Zou B, Shuster JJ. Cognitive effects of testosterone and finasteride administration in older hypogonadal men. *Clin Interv Aging*. 2014 Aug 12;9:1327-33. doi: 10.2147/CIA.S61760. eCollection 2014. PubMed PMID: 25143719; PubMed Central PMCID: PMC4136953.

Beggs LA, Yarrow JF, Conover CF, Meuleman JR, Beck DT, Morrow M, Zou B, Shuster JJ, Borst SE. Testosterone alters iron metabolism and stimulates red blood cell production independently of dihydrotestosterone. *Am J Physiol Endocrinol Metab*. 2014 Sep 1;307(5):E456-61. doi: 10.1152/ajpendo.00184.2014. Epub 2014 Jul 29. PubMed PMID: 25074984; PubMed Central PMCID: PMC4154071.

Tower RL, Jones TL, Camitta BM, Asselin BL, Bell BA, Chauvenet A, Devidas M, Halperin EC, Pullen J, Shuster JJ, Winick N, Kurtzberg J. Dose intensification of methotrexate and cytarabine during intensified continuation chemotherapy for high-risk B-precursor acute lymphoblastic leukemia: POG 9406: a report from the Children's Oncology Group. *J Pediatr Hematol Oncol*. 2014 Jul;36(5):353-61. doi: 10.1097/MPH.0000000000000131. PubMed PMID: 24608079; PubMed Central PMCID: PMC4120865.

Shuster JJ, Neu J. A Pocock approach to sequential meta-analysis of clinical trials. *Res Synth Methods*. 2013 Sep;4(3). doi: 10.1002/jrsm.1088. PubMed PMID: 24348752; PubMed Central PMCID: PMC3856440.

Borst SE, Yarrow JF, Conover CF, Nseyo U, Meuleman JR, Lipinska JA, Braith RW, Beck DT, Martin JS, Morrow M, Roessner S, Beggs LA, McCoy SC, Cannady DF 2nd, Shuster JJ. Musculoskeletal and prostate effects of combined testosterone and finasteride administration in older hypogonadal men: a randomized, controlled trial. *Am J Physiol Endocrinol Metab*. 2014 Feb 15;306(4):E433-42. doi: 10.1152/ajpendo.00592.2013. Epub 2013 Dec 10. PubMed PMID: 24326421; PubMed Central PMCID: PMC4073894.

Dunbar EM, Coats BS, Shroads AL, Langae T, Lew A, Forder JR, Shuster JJ, Wagner DA, Stacpoole PW. Phase 1 trial of dichloroacetate (DCA) in adults with recurrent malignant brain tumors. *Invest New Drugs*. 2014 Jun;32(3):452-64. doi: 10.1007/s10637-013-0047-4. Epub 2013 Dec 3. PubMed PMID: 24297161.

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24119049; PubMed Central PMCID: PMC3945059.

Murgas Torrazza R, Li N, Young C, Kobeissy F, Chow M, Chen S, Mai V, Sharma R, Hudak M, Shuster J, Neu J. Pilot study using proteomics to identify predictive biomarkers of necrotizing enterocolitis from buccal swabs in very low birth weight infants. *Neonatology*. 2013;104(3):234-42. doi: 10.1159/000353721. Epub 2013 Sep 12. PubMed PMID: 24030199; PubMed Central PMCID: PMC3881535.

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Esquivel-Upshaw JF, Clark AE, Shuster JJ, Anusavice KJ. Randomized clinical trial of implant-supported ceramic-ceramic and metal-ceramic fixed dental prostheses: preliminary results. *J Prosthodont*. 2014 Feb;23(2):73-82. doi: 10.1111/jopr.12066. Epub 2013 Jun 12. PubMed PMID: 23758092; PubMed Central PMCID: PMC4096960.

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Prabhakaran S, Shuster J, Chesrown S, Hendeles L. Response to albuterol MDI delivered through an anti-static chamber during nocturnal bronchospasm. *Respir Care*. 2012 Aug;57(8):1291-6. doi: 10.4187/respcare.01572. Epub 2012 Feb 17. PubMed PMID: 22348270; PubMed Central PMCID: PMC3806197.

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