

BIOGRAPHICAL SKETCH

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NAME Douglas W. Theriaque	POSITION TITLE Coordinator of Statistical Research, Project Manger, Clinical and Translational Science Institute		
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Eastern Connecticut State Univ., CT Southern Connecticut State Univ., CT	BS MS	1993 1996	Psychology Statistics

A. Positions and Honors.

Positions:

1995-1997 Research Psychologist, Naval Submarine Medical Research Laboratory, Groton, CT.
 1997-2009 Statistical Research Coordinator, Director of Informatics,
 General Clinical Research Center, University of Florida, Gainesville, FL
 2009- Project Manager, Regulatory Knowledge and Research Support
 Clinical and Translational Science Institute, University of Florida, Gainesville, FL

Professional Societies:

1997-2005 GCRC Association of Information Technology Professionals.
 2005- Biomedical Research Informatics Association.

B. Selected peer-reviewed publications (in chronological order).

- 1: Miller JL, Couch J, Schwenk K, Long M, Towler S, Theriaque DW, He G, Liu Y, Driscoll DJ, Leonard CM. Early childhood obesity is associated with compromised cerebellar development. *Dev Neuropsychol.* 2009;34(3):272-83. PubMed PMID:19437203; PubMed Central PMCID: PMC2708100.
- 2: Haller MJ, Stein JM, Shuster JJ, Theriaque D, Samyn MM, Pepine C, Silverstein JH. Pediatric Atorvastatin in Diabetes Trial (PADIT): a pilot study to determine the effect of atorvastatin on arterial stiffness and endothelial function in children with type 1 diabetes mellitus. *J Pediatr Endocrinol Metab.* 2009 Jan;22(1):65-8. PubMed PMID: 19344076.
- 3: Udassi JP, Udassi S, Theriaque DW, Shuster JJ, Zaritsky AL, Haque IU. Effect of alternative chest compression techniques in infant and child on rescuer performance. *Pediatr Crit Care Med.* 2009 May;10(3):328-33. PubMed PMID: 19307812.
- 4: Le LT, Loland VJ, Mariano ER, Gerancher JC, Wadhwa AN, Renehan EM, Sessler DI, Shuster JJ, Theriaque DW, Maldonado RC, Ilfeld BM; PAINfRE Investigators. Effects of local anesthetic concentration and dose on continuous interscalene nerve blocks: a dual-center, randomized, observer-masked, controlled study. *Reg Anesth Pain Med.* 2008 Nov-Dec;33(6):518-25. PubMed PMID: 19258966; PubMed Central PMCID:PMC2711692.
- 5: Lamers Y, Williamson J, Theriaque DW, Shuster JJ, Gilbert LR, Keeling C, Stacpoole PW, Gregory JF 3rd. Production of 1-carbon units from glycine is extensive in healthy men and women. *J Nutr.* 2009 Apr;139(4):666-71. Epub 2009 Feb 25. PubMed PMID: 19244382; PubMed Central PMCID: PMC2666360.
- 6: Bernier AV, Correia CE, Haller MJ, Theriaque DW, Shuster JJ, Weinstein DA. Vascular dysfunction in glycogen storage disease type I. *J Pediatr.* 2009 Apr;154(4):588-91. Epub 2008 Dec 21. PubMed PMID: 19101686.
- 7: Ilfeld BM, Le LT, Ramjohn J, Loland VJ, Wadhwa AN, Gerancher JC, Renehan EM, Sessler DI, Shuster JJ, Theriaque DW, Maldonado RC, Mariano ER, Horlocker TT; PAINfRETM Investigators. The effects of local anesthetic

concentration and dose on continuous infraclavicular nerve blocks: a multicenter, randomized, observer-masked, controlled study. *Anesth Analg*. 2009 Jan;108(1):345-50. PubMed PMID: 19095871.

8: Krueger CA, Gyland EA, Theriaque DW. Neonatal heart rate variability and intraventricular hemorrhage: a case study. *Pediatr Nurs*. 2008 Sep-Oct;34(5):401-4. PubMed PMID: 19051843.

9: Shuster JJ, Theriaque DW, Ilfeld BM. Applying Hodges-Lehmann scale parameter estimates to hospital discharge times. *Clin Trials*. 2008;5(6):631-4. PubMed PMID: 19029215.

10: Correia CE, Bhattacharya K, Lee PJ, Shuster JJ, Theriaque DW, Shankar MN, Smit GP, Weinstein DA. Use of modified cornstarch therapy to extend fasting in glycogen storage disease types Ia and Ib. *Am J Clin Nutr*. 2008 Nov;88(5):1272-6. PubMed PMID: 18996862.

11: Ilfeld BM, Ball ST, Gearen PF, Le LT, Mariano ER, Vandenborne K, Duncan PW, Sessler DI, Enneking FK, Shuster JJ, Theriaque DW, Meyer RS. Ambulatory continuous posterior lumbar plexus nerve blocks after hip arthroplasty: a dual-center, randomized, triple-masked, placebo-controlled trial. *Anesthesiology*. 2008 Sep;109(3):491-501. PubMed PMID: 18719448; PubMed Central PMCID: PMC2590635.

12: Bernier AV, Sentner CP, Correia CE, Theriaque DW, Shuster JJ, Smit GP, Weinstein DA. Hyperlipidemia in glycogen storage disease type III: effect of age and metabolic control. *J Inherit Metab Dis*. 2008 Dec;31(6):729-32. Epub 2008 Aug 19. PubMed PMID: 18709545.

13: Ilfeld BM, Loland VJ, Gerancher JC, Wadhwa AN, Renehan EM, Sessler DI, Shuster JJ, Theriaque DW, Maldonado RC, Mariano ER; PAINfRE Investigators. The effects of varying local anesthetic concentration and volume on continuous popliteal sciatic nerve blocks: a dual-center, randomized, controlled study. *Anesth Analg*. 2008 Aug;107(2):701-7. PubMed PMID: 18633055; PubMed Central PMCID: PMC2585804.

14: Haque IU, Udassi JP, Udassi S, Theriaque DW, Shuster JJ, Zaritsky AL. Chest compression quality and rescuer fatigue with increased compression to ventilation ratio during single rescuer pediatric CPR. *Resuscitation*. 2008 Oct;79(1):82-9. Epub 2008 Jul 9. PubMed PMID: 18617314.

15: Roberts I, Stanworth S, Murray NA. Thrombocytopenia in the neonate. *Blood Rev*. 2008 Jul;22(4):173-86. Epub 2008 Apr 22. Review. PubMed PMID: 18433954.

16: Stacpoole PW, Gilbert LR, Neiberger RE, Carney PR, Valenstein E, Theriaque DW, Shuster JJ. Evaluation of long-term treatment of children with congenital lactic acidosis with dichloroacetate. *Pediatrics*. 2008 May;121(5):e1223-8. Epub 2008 Apr 14. PubMed PMID: 18411236.

17: Ilfeld BM, Le LT, Meyer RS, Mariano ER, Vandenborne K, Duncan PW, Sessler DI, Enneking FK, Shuster JJ, Theriaque DW, Berry LF, Spadoni EH, Gearen PF. Ambulatory continuous femoral nerve blocks decrease time to discharge readiness after tricompartment total knee arthroplasty: a randomized, triple-masked, placebo-controlled study. *Anesthesiology*. 2008 Apr;108(4):703-13. PubMed PMID: 18362603; PubMed Central PMCID: PMC2643303.

18: Haller MJ, Stein J, Shuster J, Theriaque D, Silverstein J, Schatz DA, Earing MG, Lerman A, Mahmud FH. Peripheral artery tonometry demonstrates altered endothelial function in children with type 1 diabetes. *Pediatr Diabetes*. 2007 Aug;8(4):193-8. PubMed PMID: 17659060.

19: Ilfeld BM, Vandenborne K, Duncan PW, Sessler DI, Enneking FK, Shuster JJ, Theriaque DW, Chmielewski TL, Spadoni EH, Wright TW. Ambulatory continuous interscalene nerve blocks decrease the time to discharge readiness after total shoulder arthroplasty: a randomized, triple-masked, placebo-controlled study. *Anesthesiology*. 2006 Nov;105(5):999-1007. PubMed PMID: 17065895.

20: Miller J, Kranzler J, Liu Y, Schmalfuss I, Theriaque DW, Shuster JJ, Hatfield A, Mueller OT, Goldstone AP, Sahoo T, Beaudet AL, Driscoll DJ. Neurocognitive findings in Prader-Willi syndrome and early-onset morbid obesity. *J Pediatr*. 2006 Aug;149(2):192-8. PubMed PMID: 16887432.

21: Stalvey MS, Muller C, Schatz DA, Wasserfall CH, Campbell-Thompson ML, Theriaque DW, Flotte TR, Atkinson MA. Cystic fibrosis transmembrane conductance regulator deficiency exacerbates islet cell dysfunction after beta-cell injury. *Diabetes*. 2006 Jul;55(7):1939-45. PubMed PMID: 16804061.

22: Edwards RK, Ferguson RJ, Reyes L, Brown M, Theriaque DW, Duff P. Assessing the relationship between preterm delivery and various microorganisms recovered from the lower genital tract. *J Matern Fetal Neonatal Med.* 2006 Jun;19(6):357-63. PubMed PMID: 16801313.

23: Berendzen K, Theriaque DW, Shuster J, Stacpoole PW. Therapeutic potential of dichloroacetate for pyruvate dehydrogenase complex deficiency. *Mitochondrion.* 2006 Jun;6(3):126-35. Epub 2006 May 3. PubMed PMID: 16725381.

24: Stacpoole PW, Kerr DS, Barnes C, Bunch ST, Carney PR, Fennell EM, Felitsyn NM, Gilmore RL, Greer M, Henderson GN, Hutson AD, Neiberger RE, O'Brien RG, Perkins LA, Quisling RG, Shroads AL, Shuster JJ, Silverstein JH, Theriaque DW, Valenstein E. Controlled clinical trial of dichloroacetate for treatment of congenital lactic acidosis in children. *Pediatrics.* 2006 May;117(5):1519-31. PubMed PMID: 16651305.

25: Lee PY, Scumpia PO, Byars JA, Kelly KM, Zhuang H, Shuster JS, Theriaque DW, Segal MS, Reeves WH, Brantly ML. Short-term atorvastatin treatment enhances specific antibody production following tetanus toxoid vaccination in healthy volunteers. *Vaccine.* 2006 May 8;24(19):4035-40. Epub 2006 Jan 9. PubMed PMID: 16464519.

26: Elder JH, Shankar M, Shuster J, Theriaque D, Burns S, Sherrill L. The gluten-free, casein-free diet in autism: results of a preliminary double blind clinical trial. *J Autism Dev Disord.* 2006 Apr;36(3):413-20. PubMed PMID:16555138.

27: Stickler DE, Valenstein E, Neiberger RE, Perkins LA, Carney PR, Shuster JJ, Theriaque DW, Stacpoole PW. Peripheral neuropathy in genetic mitochondrial diseases. *Pediatr Neurol.* 2006 Feb;34(2):127-31. PubMed PMID: 16458825.

28: von Castel-Dunwoody KM, Kauwell GP, Shelnutt KP, Vaughn JD, Griffin ER, Maneval DR, Theriaque DW, Bailey LB. Transcobalamin 776C->G polymorphism negatively affects vitamin B-12 metabolism. *Am J Clin Nutr.* 2005 Jun;81(6):1436-41. PubMed PMID: 15941899.

29: Edwards RK, Ferguson RJ, Shuster JJ, Theriaque D, Gentry S, Duff P. Assessment of cervical antibody concentrations fails to enhance the value of cervical length as a predictor of preterm delivery. *Am J Obstet Gynecol.* 2005 Mar;192(3):887-91. PubMed PMID: 15746687.

30: Frölich MA, Price DD, Robinson ME, Shuster JJ, Theriaque DW, Heft MW. The effect of propofol on thermal pain perception. *Anesth Analg.* 2005 Feb;100(2):481-6. PubMed PMID: 15673879.

31: Vaughn JD, Bailey LB, Shelnutt KP, Dunwoody KM, Maneval DR, Davis SR, Quinlivan EP, Gregory JF 3rd, Theriaque DW, Kauwell GP. Methionine synthase reductase 66A->G polymorphism is associated with increased plasma homocysteine concentration when combined with the homozygous methylenetetrahydrofolate reductase 677C->T variant. *J Nutr.* 2004 Nov;134(11):2985-90. PubMed PMID: 15514263.

32: Firpi RJ, Abdelmalek MF, Soldevila-Pico C, Cabrera R, Shuster JJ, Theriaque D, Reed AI, Hemming AW, Liu C, Crawford JM, Nelson DR. One-year protocol liver biopsy can stratify fibrosis progression in liver transplant recipients with recurrent hepatitis C infection. *Liver Transpl.* 2004 Oct;10(10):1240-7. PubMed PMID: 15376304.

33: Shelnutt KP, Kauwell GP, Gregory JF 3rd, Maneval DR, Quinlivan EP, Theriaque DW, Henderson GN, Bailey LB. Methylenetetrahydrofolate reductase 677C-->T polymorphism affects DNA methylation in response to controlled folate intake in young women. *J Nutr Biochem.* 2004 Sep;15(9):554-60. PubMed PMID: 15350988.

34: Bray CL, Cahill KS, Oshier JT, Peden CS, Theriaque DW, Flotte TR, Stacpoole PW. Methylphenidate does not improve cognitive function in healthy sleep-deprived young adults. *J Investig Med.* 2004 Apr;52(3):192-201. PubMed PMID: 15222409.

35: Duncan GE, Perkins LA, Theriaque DW, Neiberger RE, Stacpoole PW. Dichloroacetate therapy attenuates the blood lactate response to submaximal exercise in patients with defects in mitochondrial energy metabolism. *J Clin Endocrinol Metab.* 2004 Apr;89(4):1733-8. PubMed PMID: 15070938.

- 36: Fuehrlein BS, Rutenberg MS, Silver JN, Warren MW, Theriaque DW, Duncan GE, Stacpoole PW, Brantly ML. Differential metabolic effects of saturated versus polyunsaturated fats in ketogenic diets. *J Clin Endocrinol Metab.* 2004 Apr;89(4):1641-5. PubMed PMID: 15070924.
- 37: Shelnutt KP, Kauwell GP, Chapman CM, Gregory JF 3rd, Maneval DR, Browdy AA, Theriaque DW, Bailey LB. Folate status response to controlled folate intake is affected by the methylenetetrahydrofolate reductase 677C-->T polymorphism in young women. *J Nutr.* 2003 Dec;133(12):4107-11. PubMed PMID: 14652356.
- 38: Wolfe JM, Bailey LB, Herrlinger-Garcia K, Theriaque DW, Gregory JF 3rd, Kauwell GP. Folate catabolite excretion is responsive to changes in dietary folate intake in elderly women. *Am J Clin Nutr.* 2003 Apr;77(4):919-23. PubMed PMID: 12663292.
- 39: Duncan GE, Perri MG, Theriaque DW, Hutson AD, Eckel RH, Stacpoole PW. Exercise training, without weight loss, increases insulin sensitivity and postheparin plasma lipase activity in previously sedentary adults. *Diabetes Care.* 2003 Mar;26(3):557-62. PubMed PMID: 12610001.
- 40: Wagner MH, Bowser EK, Sherman JM, Francisco MP, Theriaque D, Novak DA. Comparison of steatocrit and fat absorption in persons with cystic fibrosis. *J Pediatr Gastroenterol Nutr.* 2002 Aug;35(2):202-5. PubMed PMID: 12187298.
- 41: Edstrom CS, McBride J, Theriaque D, Kao KJ, Christensen RD. Obtaining blood samples for anti-factor Xa quantification through umbilical artery catheters. *J Perinatol.* 2002 Sep;22(6):475-7. PubMed PMID: 12168126.
- 42: Francisco MP, Wagner MH, Sherman JM, Theriaque D, Bowser E, Novak DA. Ranitidine and omeprazole as adjuvant therapy to pancrelipase to improve fat absorption in patients with cystic fibrosis. *J Pediatr Gastroenterol Nutr.* 2002 Jul;35(1):79-83. PubMed PMID: 12142815.
- 43: Chevuru SC, Sola MC, Theriaque DW, Hutson AD, Leung WC, Perez JA, Nelson RM, Kays DW, Christensen RD; Florida Collaborative Neonatology Research Group. Multicenter analysis of platelet transfusion usage among neonates on extracorporeal membrane oxygenation. *Pediatrics.* 2002 Jun;109(6):e89. PubMed PMID: 12042583.
- 44: Sullivan SE, Staba SL, Gersting JA, Hutson AD, Theriaque D, Christensen RD, Calhoun DA. Circulating concentrations of chemokines in cord blood, neonates, and adults. *Pediatr Res.* 2002 May;51(5):653-7. PubMed PMID: 11978892.
- 45: Garcia MG, Duenas E, Sola MC, Hutson AD, Theriaque D, Christensen RD. Epidemiologic and outcome studies of patients who received platelet transfusions in the neonatal intensive care unit. *J Perinatol.* 2001 Oct-Nov;21(7):415-20. PubMed PMID: 11894507.
- 46: Neiberger RE, George JC, Perkins LA, Theriaque DW, Hutson AD, Stacpoole PW. Renal manifestations of congenital lactic acidosis. *Am J Kidney Dis.* 2002 Jan;39(1):12-23. PubMed PMID: 11774096.
- 47: Lossie AC, Whitney MM, Amidon D, Dong HJ, Chen P, Theriaque D, Hutson A, Nicholls RD, Zori RT, Williams CA, Driscoll DJ. Distinct phenotypes distinguish the molecular classes of Angelman syndrome. *J Med Genet.* 2001 Dec;38(12):834-45. PubMed PMID: 11748306; PubMed Central PMCID: PMC1734773.
- 48: Maria BL, Bozorgmanesh A, Kimmel KN, Theriaque D, Quisling RG. Quantitative assessment of brainstem development in Joubert syndrome and Dandy-Walker syndrome. *J Child Neurol.* 2001 Oct;16(10):751-8. PubMed PMID: 11669349.
- 49: Del Vecchio A, Sola MC, Theriaque DW, Hutson AD, Kao KJ, Wright D, Garcia MG, Pollock BH, Christensen RD. Platelet transfusions in the neonatal intensive care unit: factors predicting which patients will require multiple transfusions. *Transfusion.* 2001 Jun;41(6):803-8. PubMed PMID: 11399824.
- 50: Stacpoole PW, Fisher WR, Flotte TR, Geiser EA, Theriaque DW, Hutson AD. Teaching hypothesis-oriented thinking to medical students: the University of Florida's clinical investigation program. *Acad Med.* 2001 Mar;76(3):287-92. PubMed PMID: 11242585.

Program Director/Principal Investigator (Last, First, Middle):

51: Fishbein L, O'Brien P, Hutson A, Theriaque D, Stacpoole PW, Flotte T. Pharmacokinetics and pharmacodynamic effects of nicotine nasal spray devices on cardiovascular and pulmonary function. *J Investig Med*. 2000 Nov;48(6):435-40. PubMed PMID: 11094866.

52: Kauwell GP, Wilsky CE, Cerda JJ, Herrlinger-Garcia K, Hutson AD, Theriaque DW, Boddie A, Rampersaud GC, Bailey LB. Methylene tetrahydrofolate reductase mutation (677C-->T) negatively influences plasma homocysteine response to marginal folate intake in elderly women. *Metabolism*. 2000 Nov;49(11):1440-3. PubMed PMID: 11092508.

53: Kauwell GP, Lippert BL, Wilsky CE, Herrlinger-Garcia K, Hutson AD, Theriaque DW, Rampersaud GC, Cerda JJ, Bailey LB. Folate status of elderly women following moderate folate depletion responds only to a higher folate intake. *J Nutr*. 2000 Jun;130(6):1584-90. PubMed PMID: 10827214.

C. Research Support.

Title: General Research Clinical Center

NIH: M01RR00082

12/01/06 through 11/30/11 = Directs \$16,910,923,

total budget \$18,323,344

PI=Michael Good, M.D.

FTE Assigned=100%