

CURRICULUM VITAE
JASON T. MACHAN, SCM, PHD

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EDUCATION

Undergraduate
 1995 Kent State University, Psychology, B.A.

Other Advanced Degrees
 1998 Brown University, Psychology Sc.M.
 2002 Brown University, Psychology Ph.D.

HOSPITAL APPOINTMENTS

2004-2006 Research Biostatistician, Rhode Island Hospital
 2006-2011 Research Associate, Rhode Island Hospital
 2011-present Research Scientist, Rhode Island Hospital
 2012 Reviewer, Lifespan Developmental Seed Grant
 2013-present Director, Biostatistics Core, Lifespan Group of Hospitals
 Providence, Rhode Island

ACADEMIC APPOINTMENTS

1999-2002 Masters Biostatistician, Dept. of Psychiatry and Human Behavior
 Brown University
 2009-2014 Assistant Professor of Othopaedics (Research) and Assistant
 Professor of Surgery (Research), The Warren Alpert Medical
 School of Brown University
 2010-present Adjunct Assistant Professor with Graduate Faculty Status,
 Department of Psychology, University of Rhode Island
 2011-present Director, Biostatistics Externship with University of Rhode Island

2014-present Associate Professor of Othopaedics (Research) and Associate Professor of Surgery (Research), The Warren Alpert Medical School of Brown University

OTHER APPOINTMENTS

2002-2004 Senior Analyst, M. J. Datacorp, Collaborated extensively with investigators in the Department of Emergency Medicine, Brown University

APPOINTMENTS IN PEER-REVIEW JOURNALS

2008-2012 Consulting Editor, *Laboratory Primate Newsletter*

2010-present *ad hoc* Reviewer, *Academic Emergency Medicine*

2010-present *ad hoc* Reviewer, *Journal of Healthcare Engineering*

2011-present *ad hoc* Reviewer, *American Journal of Sports Medicine*

2011-present *ad hoc* Reviewer, *Clinical Orthopaedics and Related Research*

2011-present Full Editorial Board Member, *Journal of Pediatric Urology*

2011-present Full Editorial Board Member, *Journal of Applied Biomechanics*

2013-present *ad hoc* Reviewer, *Sports Health: A Multidisciplinary Approach*

2013-present Full Editorial Board Member, *Fertility and Sterility*

2013-present Editorial Board Member, *Alzheimer's & Dementia (pending)*

2013-present *ad hoc* reviewer, *Journal of the American Academy of Orthopaedic Surgeons*

2014 Invited Reviewer, *The Joint Commission Journal on Quality and Patient Safety*

MEMBERSHIP IN SOCIETIES

2001 Society for Mathematical Psychologists

2004-present American Statistical Association (ASA) - World's largest association of statisticians with members 18,000 from 90 countries.

- 2012-present - Teaching Statistics in the Health Sciences Section
Notable activity: assisting in the creation of the "TSHS Resource Portal" to gather and organize online resources for teaching applied statistics to health sciences
- 2013-present - Statistical Consulting Section
Notable activity: invited by chair of Committee on Applied Statistics to write a "Master's Notebook" for the ASA membership magazine (AMSTATNEWS)

UNIVERSITY COMMITTEES

- 2010- present Brown University Campus Life Advisory Board
- 2013 – present CTSA/CTR Workgroups
 Biomedical Informatics
 Clinical and Translational Resources and Services

OTHER COMMITTEES

- 2011-2012 "New Investigator Award" Judging Committee, Lifespan Hospital Research Celebration
- 2013- present Epic Clinical Research Steering Committee
- 2014 – present Lifespan Simulation Advisory Committee

PUBLICATIONS

Web of Knowledge (as of 2014-07-02)

<i>Timed Cited:</i>	1370
<i>without self-citing:</i>	1346
<i>Citing Articles:</i>	1290
<i>without self-citing:</i>	1270
<i>Average Citations per Item:</i>	9.72
<i>h-index:</i>	20

Google Scholar (as of 2014-07-02)

	<u>All</u>	<u>Since 2009</u>
<i>Citations:</i>	2432	2030
<i>h-index:</i>	26	25
<i>i10-index:</i>	57	55

ResearchGate (as of 2014-07-02)

<i>TOTAL Impact:</i>	407.70
<i>RG Score:</i>	44.31 (97.5th percentile)

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Bruce, S.E., **Machan, J.T.**, Dyck, I., Keller, M.B. (2001). Infrequency of “pure” GAD: impact of psychiatric comorbidity on clinical course. *Depression and Anxiety*, *14*, 219-225. PubMed PMID: 11754129.
2. Zlotnick, C., Bruce, S.E., Weisberg, R.B., Shea, M.T., **Machan, J.**, & Keller, M.B. (2003). Social and health functioning in female primary care patients with PTSD with and without comorbid substance abuse. *Comprehensive Psychiatry*, *44*, 177-183. PubMed PMID: 12764704.
3. Rodriguez, B.F., Weisberg, R.B., Pagano, M.E., **Machan, J.T.**, Culpepper, L. & Keller, M.B. (2003). Mental health treatment received by primary care patients with PTSD. *Journal of Clinical Psychiatry*, *64(10)*, 1230-1236. PubMed PMID:14658973.
4. Bruce, S.E., Weisberg, R.B., Dolan, R.T., **Machan, J.T.**, Kessler, R.C., Manchester, G., Culpepper, L., & Keller, M.B. (2001). Trauma and posttraumatic stress disorder in primary care patients. *Primary Care Companion of the Journal of Clinical Psychiatry*, *3*, 211-217. PMID: PMC181217
5. Weisberg, R.B., **Machan, J.T.**, Dyck, I.R., & Keller, M.B. (2002). Do panic symptoms during periods of remission predict relapse of panic disorder? *Journal of Nervous and Mental Disease*, *190*, 190-197. PubMed PMID: 11923654.
6. Weisberg, R.B., Bruce, S.,E., **Machan, J.**, Dolan, R.T., Culpepper, L., & Keller, M.B. (2002). Non-psychiatric illness in primary care patients with trauma histories and posttraumatic stress disorder. *Psychiatric Services*, *53*, 848-854. PubMed PMID: 12096168.
7. Bruce, S.E., Vasile, R.G., Goisman, R.M., Salzman, C., Spencer, M., **Machan J.T.**, Keller, M.B. (2003). Are benzodiazepines still the medication of choice for patients with panic disorder with or without agoraphobia? *American Journal of Psychiatry*, *160*, 1432-1438. PubMed PMID: 12900305.
8. Rodriguez, B.F., Weisberg, R.B., Pagano, M.E., **Machan, J.T.**, Culpepper, L. & Keller, M.B. (2004). Frequency and patterns of psychiatric comorbidity in a sample of primary care patients with anxiety disorders. *Comprehensive Psychiatry*, *45(2)*, 129-137. PubMed PMID: 14999664.
9. Becker, B.M., Helfrich, S., Baker, E., Lovgren, K., Minugh, P.A., **Machan, J.T.** (2005). Ultrasound with Topical Anesthetic Rapidly Decreases Pain of Intravenous Cannulation. *Academic Emergency Medicine*, *12(4)*, 289-295. PubMed PMID: 15805318.
10. Rayner, J., Trespalacios, F., **Machan, J.**, Potluri, V., Brown, G., Quattrucci, L.M., and Jay G.D. (2006). Continuous Noninvasive Measurement of Pulsus Paradoxus

Complements Medical Decision Making in Assessment of Acute Asthma Severity. *CHEST*, 130, 754-765. PubMed PMID: 16963672.

11. Gholam, P.M., Flancbaum, L., **Machan, J.T.**, Charney, D.A., Kotler, D.P. (2007). Non Alcoholic Fatty Liver Disease in severely obese subjects. *American Journal of Gastroenterology*, 102(2), 399-408. PubMed PMID: 17311652.
12. Bluman, E.M., Coulie, P.G., Xiaojuan, S., **Machan, J.**, Lin., C., Meitner, P.A., Block, J.A., Terek, R.M. (2007). Lysis of human chondrosarcoma cells by cytolytic T lymphocytes recognizing a MAGE-A3 antigen presented by HLA-A1 molecules. *Journal of Orthopaedic Research*, 25(5), 678-684. PubMed PMID: 17290408.
13. Linakis, J.G., Mello, M.J., **Machan, J.**, Amanulla, S., Palmisciano, L.M. (2007). Emergency Department Visits for Pediatric Trampoline-related Injuries: An Update. *Academic Emergency Medicine*, 14(6), 539-544. PubMed PMID: 17449791.
14. Wing, R.R., Tate, D.F., Gorin, A.A., Raynor, H.A., Fava, J.L., **Machan, J.** (2007). STOP Regain: Are there negative effects of daily weighing? *Journal of Consulting and Clinical Psychology*, 75(4), 652-656. PubMed PMID: 17663619.
15. Gordon, L.B., McCarten, K.M., Giobbie-Hurder, A., **Machan, J.T.**, Campbell, S.E., Berns, S.D., and Kieren, M. (2007). Disease Progression in Hutchinson-Gilford Progeria Syndrome: Impact on Growth and Development. *Pediatrics*, 120(4), 824-833. PubMed PMID:17908770.
16. Charpentier, K.P., Cheah, Y.L., **Machan, J.T.**, Miner, T., Morrissey, P., Monaco, T. (2008) Intention to Treat Survival Following Liver Transplantation for Hepatocellular Carcinoma Within a Donor Service Area. *The Official Journal of the International Hepato Pancreato Biliary Association*, 10(6): 412–415. PMCID: PMC2597314
17. Kwara, A., Harold, J.S., **Machan, J.T.**, Carter, E.J. (2008) Factors Associated with Failure to Complete Isoniazid Treatment for Latent Tuberculosis Infection in Rhode Island. *Chest*, 133, 862-868. Epub 2007 Dec 10. PubMed PMID: 18071014.
18. LaFrance, W. C. Jr., Rusch, M.D., **Machan, J.T.** (2008) What is “Treatment As Usual” for Nonepileptic Seizures? *Epilepsy & Behavior*, 12(3), 388-394 . PubMed PMID: 18282812.
19. Jacobson, S. J., Dwyer, P.C., **Machan, J.T.**, Carskadon, M.A. (2008) Quantitative Analysis of Rest-Activity Patters in Elderly Postoperative Patients with Delirium: Support for a Theory of Pathologic Wakefulness. *Journal of Clinical Sleep Medicine*, 4(2), 137-142. PMCID: PMC2335393
20. Elsaid, K., Fleming, B.C., Oksendahl, H., Fadale, P.D., Hulstyn, M.J., Shavloy, R.M., **Machan, J.T.**, Jay, G.D. (2007). Decreased Lubricin Concentrations and Markers of

Joint Inflammation in Synovial Fluids from Patients with Anterior Cruciate Ligament Injury. *Arthritis and Rheumatism*, 58(6), 1707-1715. PMID: PMC2789974

21. Farrah J. Wolf, ScB, David J. Grand, MD, **Jason T. Machan, PhD**, Thomas A. DiPetrillo, MD, William W. Mayo-Smith, MD, and Damian E. Dupuy, MD (2008) Microwave Ablation of Lung Malignancies: Effectiveness, CT Findings, and Safety in 50 Patients. *Radiology*, 247, 871-879.
22. Yuan, Z., Liu X., Wong, S., **Machan, J.T.**, Chung M.A. (2009) MUC1 Knockdown with RNA Interference Inhibits Pancreatic Cancer Growth. *The Journal of Surgical Research*, 157: e39-e46. doi:10.1016/j.jss.2008.09.005. PubMed PMID: 19482310.
23. Glasser L., **Machan, J.T.** (2009) The Clinical Reliability of Automated Cerebrospinal Fluid Cell Counts on the Beckman-Coulter LH750 and Iris iQ200. *American Journal for Clinical Pathology*, 131(1):58-63. PubMed PMID: 19095566.
24. Daiello, L.A., Ott, B.R., Lapane, K.L., Reinert, S.E., **Machan, J.T.**, Dore, D.D, (2009) Does Discontinuation of Cholinesterase Inhibitors Exacerbate Behavioral Symptoms in Nursing Home Patients with Dementia? *The American Journal of Pharmacotherapy*, 7(2):74-83. PubMed PMID: 19447360.
25. Harel, Z., Riggs, S., Vaz, R., Flanigan, P., Harel, D., **Machan, J.T.** (2009) Bone Accretion in Adolescents Using the Combined Estrogen & Progestin Transdermal Contraceptive Method Ortho Evra®: A Pilot Study. *The Journal of Pediatric and Adolescent Gynecology*, 23: 23-31. PubMed PMID: 19647454
26. Tan TW, Garcia-Toca M, Marcaccio EJ Jr, Carney WI Jr, **Machan JT**, Slaiby JM. Predictors of shunt during carotid endarterectomy with routine electroencephalography monitoring. *J Vasc Surg*. 2009 Jun;49(6):1374-8. PubMed PMID: 19497494.
27. Moore DC, Ehrlich MG, McAllister SC, **Machan JT**, Hart CE, Voigt C, Lesieur-Brooks AM, Weber EW. Recombinant human platelet-derived growth factor-BB augmentation of new-bone formation in a rat model of distraction osteogenesis. *J Bone Joint Surg Am*. 2009 Aug;91(8):1973-84. PubMed PMID: 19651957.
28. Ng, T., Ryder, B.A., **Machan, J.T.**, Cioffi, W.G. (2009) Decreasing the incidence of prolonged air leak after right upper lobectomy with the anterior fissureless technique. *The Journal of Thoracic and Cardiovascular Surgery* 139(4):1007-11. Epub 2009 Aug 15. PubMed PMID: 19683728.
29. Elsaid K.A., **Machan J.T.**, Waller K., Fleming B.C., Jay G.D. (2009) The Impact of Anterior Cruciate Ligament Injury on Lubricin Metabolism and The Effect of Inhibiting TNF-alpha on Chondroprotection in An Animal Model. *Arthritis and Rheumatism*, 60 (10): 2997-3006. PubMed PMID: 19790069; PubMed Central PMCID: PMC2800051.
30. Chun TH, Amanullah S, Karishma-Bahl D, **Machan JT**, Andrada ER, Lewander WJ. Comparison of methohexital and pentobarbital as sedative agents for pediatric

emergency department patients for computed tomography. *Pediatr Emerg Care*. 2009 Oct;25(10):648-50. PubMed PMID: 21465691.

31. Napoli AM, Milzman DP, Damergis JA, **Machan J**. Physiologic affects of altitude on recreational climbers. *Am J Emergency Med*. 2009 Nov;27(9):1081-4. PubMed PMID:19931754.
32. Silverberg GD, Miller MC, Messier AA, Majmudar S, **Machan JT**, Donahue JE, Stopa EG, Johanson CE. Amyloid deposition and influx transporter expression at the blood-brain barrier increase in normal aging. *J Neuropathol Exp Neurol*. 2010 Jan;69(1):98-108. PubMed PMID: 20010299.
33. Fleming, BC, Oksendahl, HL, Portnoy, R, Fadale, PD, Hulstyn, MJ, Bowers, ME, **Machan, JT**, Tung, GA. (2010). Delayed Gadolinium Enhanced MR Imaging of Cartilage (dGEMRIC) Following ACL Injury. *Osteoarthritis and Cartilage* 2010 May;18(5):662-7. Epub 2010 Feb 11. PubMed PMID: 20188685; PubMed Central PMCID: PMC2862790.
34. Silverberg GD, Miller MC, **Machan JT**, Johanson CE, Caralopoulos IN, Pascale CL, Heile A, Klinge PM. Amyloid and Tau accumulate in the brains of aged hydrocephalic rats. *Brain Res*. 2010 Mar 4;1317:286-96. Epub 2010 Jan 4. PubMed PMID: 20045398.
35. Napoli, A. M., **Machan, J.T.**, Forcada, A., Corl, K., Gardiner, F. (2010) Tissue Oxygenation Does Not Predict Central Venous Oxygenation In Emergency Department Patients with Severe Sepsis and Septic Shock. *Academic Emergency Medicine* 17(4):349-52. PubMed PMID: 20370772.
36. Napoli, AM, **Machan, JT**. Corl, K. , Forcada, A, (2010) The use of impedance cardiography in predicting mortality in emergency department patients with severe sepsis and septic shock *Academic Emergency Medicine* 17(4): 452-455 DOI: 10.1111/j.1553-2712.2010.00705.x PubMed PMID: 20370786.
37. Woodfield C.A., Grand, D.J., Pezzullo, J.A., **Machan, J.T.**, Tung, G.A. (2010). Diffusion-weighted MR Imaging in Prostate Cancer: Comparison of Tumor Apparent Diffusion Coefficients with Gleason Score and Percent Tumor on Core Biopsy. *American Journal of Roentgenology* 194(4):W316-22. PubMed PMID: 20308476.
38. Song Gao J, Zhang Y, Li M, Tucker LD, **Machan JT**, Quesenberry P, Rigoutsos I, Ramratnam B. Atypical transcription of microRNA gene fragments. *Nucleic Acids Res*. 2010 May;38(9):2775-87. Epub 2010 Jan 21. PubMed PMID: 20097657; PubMed Central PMCID: PMC2875006.
39. Bowers ME, Tung GT, Oksendahl HL, Hulstyn MJ, Fadale PD, **Machan JT**, Fleming, BC (2009) Quantitative Magnetic Resonance Imaging Detects Changes in Meniscal Volume in Vivo After Partial Meniscectomy *The American Journal of Sports Medicine*

2010 Aug;38(8):1631-7. Epub 2010 May 4. PubMed PMID: 20442327; PubMed Central PMCID: PMC2914165.

40. Harrington, DT, Phillips B, **Machan, JT**, Zacharias, N, Velmehos, GC, Rosenblatt, MS, Winston, E, Patterson, L, Desjardins, S, Winchell, R, Brotman, S, Churyla, A, Shulz, JT, Maung, AA, and Davis, KA (2010) Factors associated with survival following blunt chest trauma in older patients. *Archives of Surgery* 145(5):432-7. PubMed PMID: 20479340.
41. Napoli, AM, **Machan, JT** (2010). Computed tomography coronary angiogram as a gatekeeper to conventional angiography. *American Journal of Cardiology* 105 (11): 1648 PMID:20494682
42. Wei L, Fleming BC, Sun X, Teeple E, Wu W, Jay GD, Elsaid KA, Luo J, **Machan JT**, Chen Q. Comparison of differential biomarkers of osteoarthritis with and without posttraumatic injury in the Hartley guinea pig model. *J Orthop Res.* 2010 Jul;28(7):900-6. PubMed PMID: 20108346; PubMed Central PMCID: PMC2875364.
43. Beland, MD, Walle, NL, **Machan, JT**, Cronan, JJ (2009) Renal cortical thickness measured on ultrasound: Is it better than renal length as an indicator of renal function in chronic kidney disease? *American Journal of Radiology Am J Roentgenol.* 2010 Aug;195(2):W146-9. PubMed PMID: 20651174.
44. Mastrangelo, AN, Haus, BM, Vavken, P, Palmer, MP, **Machan, JT**, Murray, MM (2010). Immature animals have higher cellular density in the healing anterior cruciate ligament than adolescent or adult animals. *Journal of Orthopaedic Research* 2010 Aug;28(8):1100-6. PubMed PMID: 20127960; PubMed Central PMCID: PMC2892020.
45. Boxerman JL, Rogg JM, Donahue JE, **Machan JT**, Goldman MA, Doberstein CE. (2010). Preoperative MRI evaluation of pituitary macroadenoma: imaging features predictive of successful transsphenoidal surgery. *AJR Am J Roentgenol* 2010 Sep;195(3):720-8. PMID: 20729452
46. Schaefer ME, **Machan JT**, Kawatu, D, Langton CR,, Markowitz J, Crandall W, Mack DR, Evans JS, Pfefferkorn MD, Griffiths AM, Otley AR, Bousvaros A, Kugathasan S, Rosh JR, Keljo DJ, Carvalho RS, Tomer G, Mamula P, Kay MH, Kerzner B, Oliva-Hemker M, Kappelman MD, Saeed SA, Hyams JS, LeLeiko NS. Factors that Determine Risk for Surgery in Pediatric Patients with Crohn's Disease. *Clin. Gastro and Hepatology* 2010 Sep;8(9):789-94. Epub 2010 May 31. PubMed PMID: 20566311
47. LaFrance WC Jr, Keitner GI, Papandonatos GD, Blum AS, **Machan JT**, Ryan CE, Miller IW (2010). Pilot pharmacologic randomized controlled trial for psychogenic nonepileptic seizures. *Neurology.* 2010 Sep 28;75(13):1166-73 PMID: 20739647 ; PubMed Central PMCID: PMC3013487.

48. Heffernan DS, Thakkar RK, Monaghan SF, Ravindran R, Adams CA Jr, Kozloff MS, Gregg SC, Connolly MD, **Machan JT**, Cioffi WG. Normal presenting vital signs are unreliable in geriatric blunt trauma victims. *J Trauma*. 2010 Oct;69(4):813-20. PubMed PMID: 20938267.
49. Napoli, AM, **Machan, JT.**, Forcada, A, Corl, K. (2010) Noninvasive Assessment of Cardiac Output is Associated with In-Hospital Mortality in Emergency Department Patients with Severe Sepsis and Septic Shock Undergoing Early Goal Directed Therapy. *Academic Emergency Medicine* 17(4): 349-352 DOI: 10.1111/j.1553-2712.2010.00741.x
50. Silverberg GD, Messier AA, Miller MC, **Machan JT**, Majmudar SS, Stopa EG, Donahue JE, Johanson CE. Amyloid efflux transporter expression at the blood-brain barrier declines in normal aging. *J Neuropathol Exp Neurol*. 2010 Oct;69(10):1034-43. PubMed PMID: 20838242.
51. Sharkey KM, **Machan JT**, Tosi C, Roye GD, Harrington D, Millman RP. Predicting obstructive sleep apnea among women candidates for bariatric surgery. *J Womens Health (Larchmt)*. 2010 Oct;19(10):1833-41. PubMed PMID: 20815738.
52. Olive M, Harten I, Mitchell R, Beers J, Djabali K, Cao K, Erdos MR, Blair C, Funke B, Smoot L, Gerhard-Herman M, **Machan JT**, Kutys R, Virmani R, Collins FS, Wight TN, Nabel EG, Gordon LB (2010). Cardiovascular Pathology in Hutchinson-Gilford Progeria: Correlation With the Vascular Pathology of Aging. *Arterioscler Thromb Vasc Biol*. 2010 Aug 26. PMID: 20798379; PubMed Central PMCID: PMC2965471.
53. Howley I, Lartey M, Machan JT, Talbot EA, Obo-Akwa A, Flanigan TP, Kwara A. Highly active antiretroviral therapy and employment status in accra, ghana. *Ghana Med J*. 2010 Dec;44(4):144-9. PubMed PMID: 21416048; PubMed Central PMCID: PMC3052831.
54. Mermel LA, **Machan JT**, Parenteau S. Seasonality of MRSA infections. *PLoS One*. 2011 Mar 23;6(3):e17925. PubMed PMID: 21468350; PubMed Central PMCID: PMC3065770.
55. Beland MD, Mayo-Smith WW, Grand DJ, **Machan JT**, Monchik JM. Dynamic MDCT for localization of occult parathyroid adenomas in 26 patients with primary hyperparathyroidism. *AJR Am J Roentgenol*. 2011 Jan;196(1):61-5. PubMed PMID: 21178047.
56. Chan PA, Mermel LA, Andrea SB, McCulloh R, Mills JP, Echenique I, Leveen E, Rybak N, Cunha C, **Machan JT**, Healey TT, Chapin KC. Distinguishing Characteristics between Pandemic 2009-2010 Influenza A (H1N1) and Other Viruses in Patients Hospitalized with Respiratory Illness. *PLoS One*. 2011;6(9):e24734. Epub 2011 Sep 16. PubMed PMID: 21949746; PubMed Central PMCID: PMC3174965.

57. DelSignore AG, **Machan J**, Spiegel JH. Claim of Validity of Print Advertisements Found in Otolaryngology Journals. *The Laryngoscope* 2011 Jan. 119(S3):S221-S211.
58. Deren ME, **Machan JT**, Digiovanni CW, Ehrlich MG, Gillerman RG. Prewarming Operating Rooms for Prevention of Intraoperative Hypothermia During Total Knee and Hip Arthroplasties. *J Arthroplasty*. 2011 Feb 11. [Epub ahead of print] PubMed PMID: 21316914.
59. Heffernan DS, Vera RM, Monaghan SF, Thakkar RK, Kozloff MS, Connolly MD, Gregg SC, **Machan JT**, Harrington DT, Adams CA Jr, Cioffi WG. Impact of socioethnic factors on outcomes following traumatic brain injury. *J Trauma*. 2011 Mar;70(3):527-34. PubMed PMID: 21610339.
60. Kassakian SZ, Mermel LA, Jefferson JA, Parenteau SL, **Machan JT**. Impact of chlorhexidine bathing on hospital-acquired infections among general medical patients. *Infect Control Hosp Epidemiol*. 2011 Mar;32(3):238-43. PubMed PMID: 21460508.
61. Duron VP, Rutigliano S, **Machan JT**, Dupuy DE, Mazzaglia PJ. Computed tomographic diagnosis of pneumatosis intestinalis: clinical measures predictive of the need for surgical intervention. *Arch Surg*. 2011 May;146(5):506-10. PubMed PMID: 21576602.
62. Wolf FJ, Dupuy DE, **Machan JT**, Mayo-Smith WW. Adrenal neoplasms: Effectiveness and safety of CT-guided ablation of 23 tumors in 22 patients. *Eur J Radiol*. 2011 May 31. [Epub ahead of print] PubMed PMID: 21636231.
63. Stone AC, **Machan JT**, Mazer J, Casserly B, Klinger JR. Echocardiographic evidence of pulmonary hypertension is associated with increased 1-year mortality in patients admitted with chronic obstructive pulmonary disease. *Lung*. 2011 Jun;189(3):207-12. Epub 2011 May 10. PubMed PMID: 21556789.
64. Grand DJ, Beland MD, **Machan JT**, Mayo-Smith WW. Detection of Crohn's disease: Comparison of CT and MR enterography without anti-peristaltic agents performed on the same day. *Eur J Radiol*. 2011 Jun 4. [Epub ahead of print] PubMed PMID: 21645982.
65. Brown A, **Machan JT**, Hayes L, Zervas M. Molecular organization and timing of Wnt1 expression define cohorts of midbrain dopamine neuron progenitors in vivo. *J Comp Neurol*. 2011 Oct 15;519(15):2978-3000. doi: 10.1002/cne.22710. PubMed PMID: 21713770.
66. Monaghan SF, Heffernan DS, Thakkar RK, Reinert SE, **Machan JT**, Connolly MD, Gregg SC, Kozloff MS, Adams CA Jr, Cioffi WG. The development of a urinary tract infection is associated with increased mortality in trauma patients. *J Trauma*. 2011 Dec;71(6):1569-74. PubMed PMID: 21768897.

67. Harten IA, Zahr RS, Lemire JM, **Machan JT**, Moses MA, Doiron RJ, Curatolo AS, Rothman FG, Wight TN, Toole BP, Gordon LB. Age-dependent loss of MMP-3 in Hutchinson-Gilford progeria syndrome. *J Gerontol A Biol Sci Med Sci*. 2011 Nov;66(11):1201-7. Epub 2011 Aug 17. PubMed PMID: 21852285; PubMed Central PMCID: PMC3193525.
68. Napoli AM, **Machan JT**, Corl K, Forcada A. Interrater reliability and parallel forms reliability of two noninvasive hemodynamic monitoring devices in clinically stable emergency department patients. *Eur J Emerg Med*. 2011 Oct 15. [Epub ahead of print] PMID: 22008590
69. Chai PR, Bastan W, **Machan J**, Hack JB, Babu KM. Levamisole Exposure and Hematologic Indices in Cocaine Users. *Academic Emergency Medicine*, 18(11): 1141-1147. 10.1111/j.1553-2712.2011.01202.x
70. Napoli AM, Fast LD, Gardiner F, Nevola M, **Machan, JT**. Increased Granzyme Levels in Cytotoxic T Lymphocytes are Associated with Disease Severity in Emergency Department Patients with Severe Sepsis. *Shock* 15 November 2011 [Epub ahead of print] doi: 10.1097/SHK.0b013e31823fca44
71. Zafar AM, Harris TJ, Murphy TP, **Machan JT**. Patients' perspective about risks and benefits of treatment for peripheral arterial disease. *J Vasc Interv Radiol*. 2011 Dec;22(12):1657-61. PubMed PMID: 22115578.
72. Liu L, Papa EF, Dooner MS, **Machan JT**, Johnson KW, Goldberg LR, Quesenberry PJ, Colvin GA. Homing and long-term engraftment of long- and short-term renewal hematopoietic stem cells. *PLoS One*. 2012;7(2):e31300. Epub 2012 Feb 9. PubMed PMID: 22347459.
73. Vavken P, Fleming BC, Mastrangelo AN, **Machan JT**, Murray MM. Biomechanical Outcomes After Bioenhanced Anterior Cruciate Ligament Repair and Anterior Cruciate Ligament Reconstruction Are Equal in a Porcine Model. *Arthroscopy*. 2012 Jan 19. [Epub ahead of print] PubMed PMID: 22261137.
74. Heffernan DS, Monaghan SF, Thakkar RK, **Machan JT**, Cioffi WG, Ayala A. Failure to normalize lymphopenia following trauma is associated with increased mortality, independent of the leukocytosis pattern. *Crit Care*. 2012 Jan 20;16(1):R12. [Epub ahead of print] PubMed PMID: 22264310.
75. Boxerman JL, Prah DE, Paulson ES, **Machan JT**, Bedekar D, Schmainda KM. The Role of Preload and Leakage Correction in Gadolinium-Based Cerebral Blood Volume Estimation Determined by Comparison with MION as a Criterion Standard. *AJNR Am J Neuroradiol*. 2012 Feb 9. [Epub ahead of print] PubMed PMID: 22322605.
76. Ng T, Ryder BA, Chern H, Sellke FW, **Machan JT**, Harrington DT, Cioffi WG. Leukocyte-depleted blood transfusion is associated with decreased survival in resected

- early-stage lung cancer. *J Thorac Cardiovasc Surg.* 2012 Feb 9. [Epub ahead of print] PubMed PMID: 22325327.
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 83. Crisco JJ, Wilcox, BJ, **Machan JT**, McAllister TW, Duhaime AC, Duma SM, Rowson S, Beckwith JG, Chi JJ, Greenwald RM. Magnitude of head impact exposures in individual collegiate football players. *J of Applied Biomechanics* 2012 May 28(2):174-83.
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DOI:10.1016/j.jbiomech.2012.09.034
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95. Patrick Vavken, Benedikt Proffen, Chris Peterson, Braden C Fleming, **Jason T Machan**, Martha M Murray. Effects of Suture Choice on Biomechanics and Physal Status After Bioenhanced Anterior Cruciate Ligament Repair in Skeletally Immature Patients: A Large-Animal Study. *Arthroscopy The Journal of Arthroscopic and Related Surgery* (impact factor: 3.02). 11/2012; DOI:10.1016/j.arthro.2012.07.006
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Targeted Disruption of the Gene for Natriuretic Peptide Receptor-A. *Journal of Applied Physiology* 2012 Nov.; DOI10.1152/jappphysiol.01249.2011

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99. Alexander ES, Hankins CA, **Machan JT**, Healey TT, Dupuy DE. Rib fractures after percutaneous radiofrequency and microwave ablation of lung tumors: incidence and relevance. *Radiology*. 2013 Mar;266(3):971-8. doi: 10.1148/radiol.12120933. Epub 2013 Jan 11.
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106. Rakan S Al-Rasheed, Jeffrey Devine, Jennifer A Dunbar-Viveiros, Mark S Jones, Max Dannecker, **Jason T Machan**, Gregory D Jay, Leo Kobayashi. Simulation Intervention With Manikin-Based Objective Metrics Improves CPR Instructor Chest Compression Performance Skills Without Improvement in Chest Compression Assessment Skills. *Simulation in healthcare: journal of the Society for Simulation in Healthcare* 07/2013; DOI:10.1097/SIH.0b013e31828e716d
107. Bryan Vopat, David Paller, **Jason T Machan**, Anthony Avery, Patrick Kane, Melissa Christino, Paul Fadale. Effectiveness of Low-Profile Supplemental Fixation in Anterior Cruciate Ligament Reconstructions With Decreased Bone Mineral Density. *Arthroscopy The Journal of Arthroscopic and Related Surgery* (impact factor: 3.02). 07/2013; DOI:10.1016/j.arthro.2013.05.019
108. Sandra M Linde, James M Badger, **Jason T Machan**, Jennifer Beaudry, Amy Brucker, Kristen Martin, Nancy B Opaluch-Bushy, and Ruth D Navedo Roy. Reevaluation of the critical-care pain observation tool in intubated adults after cardiac surgery. *American Journal of Critical Care* 2013; 22: 491-497 doiL10.4037/ajcc2013700
109. Julie H Song, David J Grand, Michael D Beland, Kevin J Chang, **Jason T Machan**, William W Mayo-Smith. Morphologic Features of 211 Adrenal Masses at Initial Contrast-Enhanced CT: Can We Differentiate Benign From Malignant Lesions Using Imaging Features Alone? *American Journal of Roentgenology* (Impact Factor: 2.9). 12/2013; 201(6):1248-1253. DOI:10.2214/AJR.12.10302
110. Alison M Biercevicz, Martha M Murray, Edward G Walsh, Danny L Miranda, **Jason T Machan**, Braden C Fleming. T2 * MR relaxometry and ligament volume are associated with the structural properties of the healing ACL. *Journal of Orthopaedic Research* (Impact Factor: 2.88). 12/2013; DOI:10.1002/jor.22563
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112. Suzanne Elizabeth McLaughlin, **Jason Machan**, Phillip Fournier, Tamara Chang, Katelyn Even, Matthew Sadof. Transition of adolescents with chronic health conditions to adult primary care: Factors associated with physician acceptance. *Journal of pediatric rehabilitation medicine* 01/2014; 7(1):63-70. DOI:10.3233/PRM-140275

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114. Fleming BC, Proffen BL, Vavken P, Shalvoy MR, **Machan JT**, Murray MA: Increased Platelet Concentration does not Improve Functional Graft Healing in Bio-Enhanced ACL Reconstruction. *Knee Surgery Sports Traumatology Arthroscopy* (Impact Factor: 2.68). 03/2014; DOI: 10.1007/s00167-014-2932-6
115. Russell M Church, Miles C Miller, David Freestone, Catharine Chiu, Doreen P Osgood, **Jason T Machan**, Arthur A Messier, Conrad E Johanson, Gerald D Silverberg. Amyloid-Beta Accumulation, Neurogenesis, Behavior, and the Age of Rats. *Behavioral neuroscience* 05/2014; DOI:10.1037/a0036433
116. Erika Constantine, Daniel S Tsze, **Jason T Machan**, Craig P Ebersson, James G Linakis, Dale W Steele. Evaluating the Hematoma Block as an Adjunct to Procedural Sedation for Closed Reduction of Distal Forearm Fractures. *Pediatric emergency care* 06/2014; DOI: 10.1097/PEC.0000000000000164
117. Michelle L Mellion, Elizabeth Silbermann, James M Gilchrist, **Jason T Machan**, Lorenzo Leggio, Suzanne de la Monte. Small-Fiber Degeneration in Alcohol-Related Peripheral Neuropathy. *Alcoholism Clinical and Experimental Research* (Impact Factor: 3.42). 06/2014; DOI: 10.1111/acer.12470
118. W. Curt LaFrance Jr, Grayson L. Baird, John J. Barry, Andrew S. Blum, Anne Frank Webb, Gabor I. Keitner, **Jason T. Machan**, Ivan Miller, Jerzy P. Szaflarski. Multicenter Pilot Treatment Trial for Psychogenic Nonepileptic Seizures: A Randomized Clinical Trial. *JAMA Psychiatry* (Impact Factor: 12.01). 07/2014; DOI: 10.1001/jamapsychiatry.2014.817
119. Bethany J Wilcox, **Jason T Machan**, Jonathan G Beckwith, Richard M Greenwald, Emily Burmeister, Joseph J Crisco. Head-Impact Mechanisms in Men's and Women's Collegiate Ice Hockey. *Journal of athletic training* 08/2014; DOI: 10.4085/1062-6050-49.3.19
120. Michael D Beland, Sanford F Brown, **Jason T Machan**, Ross J Taliano, Kittichai Promrat, John J Cronan. A pilot study estimating liver fibrosis with ultrasound shear-wave elastography: does the cause of liver disease or location of measurement affect performance? *AJR. American journal of roentgenology* 09/2014; 203(3):W267-73. DOI: 10.2214/AJR.13.11718

ACKNOWLEDGEMENTS

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2. Constantine, E., Steele, D.W., Ebersson, C., Boutis, K., Amanullah, S., and Linakis, J.G. (2007). The Use of Local Anesthetic Techniques for Closed Forearm Fracture Reduction in Children: A Survey of Academic Pediatric Emergency Departments. *Pediatric Emergency Care*, 23(4), 209-211.
3. Simone, C.J., Dupuy, D.E., DiPetrillo, T.A., Safran, H.P., Grieco, C.A., Ng, T., Mayo-Smith, W.W. (2007). Pulmonary Radiofrequency Ablation: Long-term Safety and Efficacy in 153 Patients. *Radiology*, 243, 268-275.

OTHER NON-PEER REVIEWED PUBLICATIONS

1. Minugh, P.A., Lomuto, N., Kellerman, B., **Machan, J.** (2002). Alabama Student Survey of Risk and Protective Factors. *Alabama Department of Mental Health and Mental Retardation. Published by the Substance Abuse Services Division, ADMH-MR, Montgomery, Alabama.*
2. Lomutto, N., Minugh, P.A., Bogie, D. W., **Machan, J.**, Kellerman, B., Lang, A., Oliveri, L. (2003). Alabama Indicators of Prevention Need: State and County Profiles. *Prepared for the Alabama Department of Mental Health and Mental Retardation Substance Abuse Services Division. Funded by: Substance Abuse and Mental Health Services Administration (SAMHSA) Center for Substance Abuse Prevention (CSAP)*
3. Lomuto, N., Minugh, P.A., Kellerman, B., **Machan, J.** (2004). Community Resource Assessment Demand and Needs Assessment Studies: Alcohol and Other Drugs Final Report. *Prepared for the Alabama Department of Mental Health and Mental Retardation Substance Abuse Services Division. Funded by: Substance Abuse and Mental Health Services Administration (SAMHSA) Center for Substance Abuse Prevention (CSAP)*

ABSTRACTS

1. Metzger, M.M., **Machan, J.T.**, Riccio, D.C. *Evidence for the Forgetting of Stimulus Attributes from a Latent Inhibition Paradigm.* Poster presented at the 68th annual meeting of the Midwestern Psychological Association, Chicago, IL, May 1996.
2. Saba, K.D., **Machan, J.T.**, Riccio, D.C. *Assessment of the Functional Equivalence between two CTA-Producing Agents using a US Preexposure Paradigm.* Poster presented at the 68th annual meeting of the Midwestern Psychological Association, Chicago, IL, May 1996.
3. Land, C.L., Harrod, S.B., **Machan, J.T.**, Riccio, D.C. *Forgetting of Stimulus Attributes with a Delay Between the Conditioned and Unconditioned Stimuli in a Conditioned*

- Taste Aversion Paradigm*. Paper presented at the 69th annual meeting of the Midwestern Psychological Association, Chicago, IL, May 1997.
4. Metzger, M.M., **Machan, J.T.**, Riccio, D.C. *The forgetting of Stimulus Attributes for Contextual Stimuli in the CTA Paradigm*. Poster presented at the 69th annual meeting of the Midwestern Psychological Association, Chicago, IL, May 1997.
 5. **Machan, J.T.**, Church, R.M. *The Effect of Number and Order of Elements on Serial Pattern Learning of Temporal Intervals*. Paper presented at the 69th annual meeting of the Eastern Psychological Association, Boston, MA, February 1998.
 6. **Machan, J.T.**, Church, R.M. *Sensitivity to Changes in Serial Patterns of Temporal Intervals*. Poster presented at the 70th annual meeting of the Eastern Psychological Association, Providence, RI, April 1999.
 7. **Machan, J.T.**, Church, R.M. (2001, July). *A model of serial pattern learning of successive temporal intervals*. Poster presented at the 34th annual meeting of the Society for Mathematical Psychologists, Providence, RI.
 8. Ayotte, S.L., Weisberg, R.B., **Machan, J.T.**, Culpepper, L., & Keller, M.B. (2000, November). *Quality of family relationships in primary care patients with anxiety disorders*. Poster presented at the meeting of the Association for Advancement of Behavior Therapy, New Orleans, LA.
 9. Bruce, S.E., Weisberg, R.B., Dolan, R.T., & **Machan, J.T.**, Kessler, R.C., Culpepper, L., Keller, M.B. (2000, November). *Assessment of trauma and PTSD within a primary care population*. Poster presented at the meeting of the Association for Advancement of Behavior Therapy, New Orleans, LA.
 10. Esler, J.L., Bruce, S.E., **Machan, J.T.**, & Weisberg, R.B., Culpepper, L., Keller, M.B. (2000, November). *Panic disorder in general medical facilities: Findings from the primary care anxiety project (PCAP)*. Poster presented at the meeting of the Association for Advancement of Behavior Therapy, New Orleans, LA.
 11. Weisberg, R.B., **Machan, J.**, Culpepper, L., & Keller, M.B. (2000, November). *Functioning and well-being in primary care patients with panic disorder*. Poster presented at the meeting of the Association for Advancement of Behavior Therapy, New Orleans, LA.
 12. Weisberg, R.B., **Machan, J.**, Culpepper, L., & Keller, M.B. (2001, November). *Do panic symptoms during remission predict panic disorder relapse?* Poster presented at the meeting of the Association for Advancement of Behavior Therapy, Philadelphia, PA.
 13. Maki, K. M., Weisberg, R. B., **Machan, J. T.**, & Keller, M. B. (2002, March). *Treatments received for Social Anxiety Disorder in a primary care setting*.

Poster presented at the annual meeting of the Anxiety Disorders Association of America, Austin, TX.

14. Rodriguez, B. F., Weisberg, R. B., **Machan, J. T.**, Culpepper, L., & Keller, M. B. (2002, March). *Comorbidity in anxiety disorder patients seen in general medical practices*. Poster presented at the annual meeting of the Anxiety Disorders Association of America, Austin, TX.
15. Rodriguez, B. F., Weisberg, R. B., **Machan, J. T.**, Culpepper, L., & Keller, M. B. (2002, August). *Mental health treatment received by primary care patients with PTSD*. Poster presented at the annual meeting of the American Psychological Association, Chicago, IL.
16. Rodriguez, B. F., Weisberg, R. B., **Machan, J. T.**, Culpepper, L., & Keller, M. B. (2002, November). *Frequency and patterns of psychiatric comorbidity in primary care patients with anxiety disorders*. Paper presented at the annual meeting of the North American Primary Care Research Group, New Orleans, LA.
17. Rodriguez, B.F., Weisberg, R.B., Bruce, S.E., **Machan, J.T.**, Culpepper, L., & Keller, M.B. (2002, November). Characteristics and predictors of service utilization in primary care patients with anxiety disorders. In H. Hazlett-Stevens (Chair) *Medical comorbidity in the anxiety disorders: Recent research and new theoretical developments*. Paper presented at the annual meeting of the Association for Advancement of Behavior Therapy, Reno, Nevada.
18. Rodriguez, B.F., Weisberg, R.B., **Machan, J.T.**, Culpepper, L., & Keller, M.B. (2003, March). *Mental health treatment received by primary care patients with PTSD*. Paper presented at the annual meeting of the Anxiety Disorders Association of America, Toronto, Canada.
19. Mello, M. J., Nirenberg T.D., Longabaugh, R., Woolard, R.F., Minugh, P.A., Becker, B., Carty, K., Gogineni, A., Clifford, P.R., Baird, J., Lee, C., and **Machan, J.** (2004). Brief Motivational Interventions with Motor Vehicle Crash Patients. *Academic Emergency Medicine*, 11(5), 543.
20. Harel Z., Riggs, S., Vaz, R., Flanagan, P., Harel, D., and **Machan, J.** (2009, April). *Effect of the combined estrogen & progestin transdermal contraceptive method Ortho Evra® on body composition of adolescent girls*. Poster **approved for presentation** at the Annual Clinical Meeting of the North American Society for Pediatric and Adolescent Gynecology (NASPAG)
21. Mikaelian, B.J., Kiehl, E.L., Atalay, M.K., Ellison, K.E., Lorvidhaya, P., Kirk, M.M., **Machan, J.T.**, Alfred E. Buxton (2009, March). *Myocardial Infarct and Peri-infarct Zone Volumes Determined by Magnetic Resonance Imaging Do Not Predict Inducible Ventricular Tachycardia*. Poster **approved for presentation** at the American College of Cardiology 58th Annual Scientific Session, Orlando, FL.

22. Harel Z, Riggs S, Vaz R, Flanagan P, Harel D, **Machan J**. Effect of the combined estrogen & progestin transdermal contraceptive method Ortho Evra[®] on body composition of adolescent girls. North American Society for Pediatric and Adolescent Gynecology Annual Meeting, 2009. *Journal of Pediatric and Adolescent Gynecology* 22:e49-e50, 2009
23. Harel Z, Riggs S, Vaz R, Flanagan P, Harel D, **Machan J**. Bone accretion in adolescents using the combined estrogen and progestin transdermal contraceptive Ortho Evra. Pediatric Academic Societies Annual Meeting, 2009, E-PAS2009:2809.86

INVITED PAPERS

1. **Machan, JT**. I'm a Scientist. Master's Notebook column. AMSTATNEWS. 2014 (pending)

INVITED PRESENTATIONS

- | | |
|---------------|---|
| April 2005 | Grand Rounds Presentation to the Department of Medicine
Division of Endocrinology, Rhode Island Hospital
Title: "Research Design" |
| April 2005 | Grand Rounds Presentation to the Department of Medicine
Division of Hematology/Oncology, Rhode Island Hospital
Title: "Revisiting the Fundamentals of Research Design" |
| July 2005 | Department of Medicine Division of Gastroenterology (<i>Three lecture series</i>), Rhode Island Hospital

Title 1: "Revisiting the Fundamentals of Research Design – Measurement"

Title 2: "Revisiting the Fundamentals of Research Design – Design and Statistics"

Title 3: "Event History Analysis" |
| April 2006 | National Institutes of Health: National Human Genome Research Institute. Collaborative meeting of Francis Collins group, The Progeria Foundation, Johnson & Johnson Pharmaceutical Research & Development, L.L.C., and representatives from the National Cancer Institute, and National Heart, Lung, and Blood Institute to discuss ZARNESTRA (Tipifarnib, R115777) treatment for Progeria.
Assigned Topic Presentation Title: "Weight Gain as a Proposed Primary Parameter" |
| November 2007 | Presentation to the Brown University COBRE for Osteoarthritis |

	Title: “z-t-p- α - β -n”.
July 2007	Presentation to the Department of Diagnostic Imaging, Rhode Island Hospital Title: “Revisiting the Fundamentals of Research Design – Measurement and Statistics.”
January 2010	Society of Clinical Research Associates (SoCRA), Boston Chapter Title: “Revisiting the Fundamentals of the Scientific Method, Measurement, & Statistics”
Sept.-Nov. 2011	Presentations to Rhode Island Hospital Cardiovascular Research Center, Basic Methodology in Cardiovascular and Pulmonary Research Seminar Title 1 ” Revisiting the Fundamentals of Research Design – Measurement & Statistics” Title 2 “Statistical Power Analysis” Title 3 “Statistical Analysis of RT-PCR: some tweaks”
March 2012	Hematology Oncology Fellowship Research Curriculum, The Warren Alpert School of Medicine, Brown University Title: “Revisiting the Fundamentals of the Scientific Method, Measurement, & Statistics”
January 2014	Center for Computational and Molecular Biology, Brown University Title: A New Model for Collaboration Between Hospital and Campus

COMPLETED SUPPORT

1. U19AI070202 (Bharat Ramratnam)
siRNA Microbicides
09/30/2006-08/31/2010, 5%
National Institutes of Health
Role: Biostatistician
The goal is the preclinical development of siRNA as a vaginal microbicide
2. (McGregor)
Gender Discrepancies in Time-to-ECG: Does Sex Matter?
10/01/2009-05/31/2010, 2.5%
Lifespan Junior Faculty Research Development Grant
Role: Biostatistical Consultant
To determine what factors predict the amount of time between ED presentation and first ECG, particularly regarding gender differentials.

3. 5R01CA123544 (Jack Wands)
Biomarker for HC
8/17/2007 – 5/31/2012, .36 calendar months
\$148,278
National Institutes of Health
Role: Biostatistician
The goal is to validate aspartyl (asparaginy) p-hydroxylase (HAAH) as a biomarker for early diagnosis of hepatocellular carcinoma.
4. 1R01-AR056834 (Fleming, Murray)
Biologically enhanced healing of autograft ACL reconstruction
04/01/2009 – 01/31/2013, .60 calendar months
\$252,695
National Institutes of Health/NIAMS
Role: Biostatistician
To determine the effect of platelet concentration in a platelet-collagen scaffold on the healing response of the porcine ACL autograft.
5. R01 AR056834-01S1 (Fleming, Murray)
Biologically Enhanced Healing of Autograft ACL Reconstruction (Supplement)
09/01/2009-08/31/2011(NCE) 1.2 calendar months
\$1,368,978
National Institutes of Health
Role: Biostatistician
To determine the effect of platelet concentration in a platelet-collagen scaffold on the healing response of the porcine ACL autograft.
6. 1 R01 CA163370 (Mihaylov)
Improving Cancer Treatment Planning By DMH-Based Inverse Optimization
07/09/2012 – 04/30/2013 0.36 calendar months
\$207,500
NCI
Role: Biostatistician
The aim is to develop a different optimization method for treatment planning in radiotherapy inverse optimization.

CURRENT SUPPORT

ACTIVE

1. 2P20-GM104937 (Chen)
COBRE for Skeletal Health and Repair
09/01/2007-07/31/2017, .90 calendar months
\$262,730

National Institutes of Health

Role: Biostatistician

The goal is developing repair strategies for cartilage and joint health based on translational research

2. 2R01-AR054099 (Murray)
The Effect of Age on Functional ACL Healing.
06/01/2010 – 05/31/2014, 0.6 calendar months
\$194,849
National Institutes of Health/NIAMS
Role: Co-Investigator
Optimizing the healing of adolescent ACL tissue so to match that seen in immature animals and to define the effect of delay on the efficacy of a surgical ACL repair.
3. 1R01AA017895-01A2 (Mello)
ReDIAL: A Telephone Brief Intervention for Injured Emergency Department Patients
01/01/2010-12/31/2014, 0.24 calendar months
\$461,563
National Institutes of Health/RPIA
Role: Biostatistician
To test a brief intervention with telephone follow-up in reducing alcohol-related injuries.
4. 1 P20 RR025179-01 (Quesenberry)
Stem Cell Biology: New Directions in Clinical and Basic Research COBRE
09/30/2009 - 6/30/2014, 0.6 calendar months
\$446,778
National Institutes of Health/NCRR
Role: Biostatistician
The major goal of the project is to develop junior investigators in Rhode Island. This supports core laboratories, seminar speakers, and the work of junior investigators who have not previously been funded.
5. 5R01AR059185 (Crisco)
Thumb CMC Biomechanics and Early OA Progression
07/15/2011 – 04/30/2016, 0.24 calendar months
\$504,957
NIAMS
Role: Biostatistician
The goal is to generate foundational data on thumb CMC biomechanics to determine if CMC joint laxity is associated with OA progression.
6. 1 R21 HD071582 (Crisco)
Motion-Specific Toy Controllers for Upper Extremity Rehabilitation in Children
07/01/2012 – 06/30/2014, 1.2 calendar months
\$150,000

NICHD

Role: Biostatistician

The goal of this project is to develop a cellular-based, quantitative injury criterion for TBI through the integration of sports-related head impact data, finite element modeling and measurements of impact loads and injury progression on neurons *in-vitro*.

7. 1R21MH096828 (Freeman)
CBT for Pediatric OCD: Effective therapist behaviors and community training pilot
06/06/2012 – 05/31/2014, 0.24 calendar months
\$141,364
NIMH
Role: Biostatistician
The goal is gaining greater understanding of the mediators of CBT for Pediatric OCD with the intent of developing a training program for community clinicians to be piloted
8. 1R01HD078515-01A1 (Bourjeily, PI)
Placental role in mediating adverse outcomes in obstructive sleep apnea
Role: Biostatistician
07/01/14-06/30/19 0.60 calendar
\$486,679
NIH/NICHD
9. TBD (Freeman & Benito, PIs) 6/1/2014-5/31/2017 0.12 calendar
\$209,438
NIMH
CBT for Pediatric OCD: Effective Therapist Behaviors and Community Training Pilot
The goal of this project is the development and early testing of generalized strategies for managing the fidelity of the delivery of exposure in community based treatments.

PENDING SUPPORT AS PRINCIPLE INVESTIGATOR

10. P20 resubmission (Quesenberry)
Stem Cell Biology: New Directions in Clinical and basic Research
Role: Principle Investigator, Biostatistics Core
7/1/2014 - 6/30/2019, 1.2 calendar months per year
\$733,709
National Institutes of Health/NCRR
The major goal of the project is to develop junior investigators in Rhode Island. This supports core laboratories, seminar speakers, and the work of junior investigators who have not previously been funded.

NON-SUPPORTED ROLES

1. CMMT: 0211-11 (Ramsey)
Smoking Cessation among Diabetic Patients

2012-present

Role: Data Safety and Monitoring Board (DSMB) member

TEACHING ROLES

2004-present	Regular duties for one-on-one training and consulting for hospital and campus-based researchers spanning any department with formal relationships with Lifespan. Training and consulting includes formalization of scientific theory, deduction of hypotheses, study design, instrument selection and assessment, study maintenance, data analysis and interpretation, visualization and write-up.
2006 –present	Annual Lectures for House Staff as part of Department of Medicine’s Fellow’s Shared Curriculum.
2007- present	Annual Lecture to Brown University Department of Orthopaedics COBRE and Orthopaedic Research Meeting
2011-present	Mentor to Biostatistics Externs selected from graduate students in the Department of Psychology at University of Rhode Island
2011-present	Bi-weekly advisory meetings with Extern as part of the Biostatistics Externship with University of Rhode Island
2012-present	Dissertation Committee, Grayson L. Baird, University of Rhode Island Department of Psychology