

Samuel A McLean, MD, MPH**1) Personal Information**

Name: Samuel A McLean, MD, MPH
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2) Education

<u>Hospital/Institution and Location</u>	<u>Degree/Program</u>	<u>Year</u>	<u>Degree/Focus</u>
Boston Medical Center Boston University, Boston, MA	Residency	2001	Emergency Medicine
Massachusetts General Hospital Harvard University, Boston, MA	Residency	1998	Internal Medicine
University of Michigan Ann Arbor, MI	MD	1995	Medicine
University of Michigan Ann Arbor, MI	MPH	1995	Epidemiology
Dartmouth College Hanover, NH	BA	1990	Comparative Religion/Philosophy (summa cum laude)
Sexton High School Lansing, MI	Diploma	1986	Valedictorian

Board Certification:

American Board of Emergency Medicine 2012-2022 (most recent renewal)
 American Board of Internal Medicine 1998-2008 (no attempt to renew)

State Licensure:

North Carolina 2007-01889 (current)
 Michigan 4301077320 (expired)
 Massachusetts 154989 (expired)

3) Professional Experience -- Employment History

2014- Associate Professor with permanent tenure, Department of Anesthesiology, University of North Carolina at Chapel Hill, Chapel Hill, NC, with joint appointments in Department of Emergency Medicine and Department of Psychiatry, University of North Carolina, Chapel Hill, NC (Additional appointment in Psychiatry)

2013- Associate Professor, with permanent tenure, Department of Anesthesiology, University of North Carolina at Chapel Hill, Chapel Hill, NC, with joint appointment in Department of Emergency Medicine, University of North Carolina, Chapel Hill, NC

2009 - Vice Chair, Research, Department of Anesthesiology, University of North Carolina at Chapel Hill, Chapel Hill, NC.

- 2008 - Director, TRYUMPH Research Program (Trauma recovery: Understanding Mechanisms & Promoting Healing), Chapel Hill, NC
- 2009 - 2013 Assistant Professor, Department of Anesthesiology, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2008-2009 Assistant Professor, Center for Pain Research and Innovation, School of Dentistry, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2008 - 2013 Clinical Assistant Professor, Department of Emergency Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC.
- 2006-2007 Director, TRYUMPH Research Program, Department of Emergency Medicine, University of Michigan, Ann Arbor, MI
- 2006-2007 Assistant Professor, Department of Psychiatry, University of Michigan, Ann Arbor, MI
- 2006-2007 Assistant Professor, Department of Emergency Medicine, Univ. of Michigan, Ann Arbor, MI
- 2001-2006 Lecturer, Department of Emergency Medicine, University of Michigan, Ann Arbor, MI
- 1998-2001 Teaching Fellow, Department of Emergency Medicine, Boston University School of Medicine, Boston, MA
- 1995-1998 Clinical Fellow, Department of Medicine, Harvard Medical School, Cambridge, MA

Society Memberships:

- 2010 – Present American Society of Anesthesiologists
- 2010 – Present American Burn Association
- 2007 – Present Society of Biological Psychiatry
- 2003 – Present American Pain Society
- 2003 – Present International Association for the Study of Pain
- 1998 – Present Society of Academic Emergency Medicine
- 1998 – Present American College of Emergency Physicians (Fellow)

4) Honors and Awards

- 2016 University of North Carolina School of Medicine Medical Student Research Mentor of the Year.
- 2015 Dr. Judith Tintinalli Distinguished Lecturer, University of North Carolina at Chapel Hill
- 2006 Golden Apple Teaching award nominee, UM/SJMH Residency Program
- 2005 Golden Apple Teaching award nominee, UM/SJMH Residency Program
- 2003 American Pain Society Emergency Medicine Pain Scholar
- 2002 University of Michigan Department of EM Top 5 Teaching Faculty to Medical Students Award
- 2001 Frommer Award for resident academic achievement, Boston Medical Center, Boston, MA.
- 2000 Research Award, Resident Division, New England SAEM Conference, Worcester, MA.

5) Bibliography

Textbook Chapters

1. **McLean SA.** Neurobiologic mechanisms of whiplash. In. Troels S. Jensen, Dennis Turk, and Helge Kasch (ed): Whiplash injury: Perspectives on the development of chronic pain. Philadelphia: IASP press 2016, 155-169.
2. Bortsov AV, Millikan RC, Belfer I, Boortz-Marx RL, Arora H, **McLean SA** Genetic polymorphisms in mu-opioid receptor gene and breast cancer survival. In. Marie-Odile Parat (ed): Morphine and Metastases. New York: Springer 2013, 95-112.
3. **McLean SA.** The potential role of stress systems in WAD pathogenesis. In. Sterling M, Kenardy J (eds): Whiplash: evidence base for clinical practice. Sydney. Elsevier 2011, 93-96.
4. Simmons S, **McLean SA.** Chronic pain and addiction. In. Newton CR, Khare RK (eds): Emergency Medicine Quick Glance, McGraw-Hill Publishers 2006, 701-703.
5. **McLean SA,** Clauw DJ, Williams DA. The role of trauma (whiplash, repetitive strain injury) in chronic neuromuscular pain. In. Wallace DJ, Clauw DJ (eds): Textbook of Fibromyalgia and Other Non-Neuropathic Pain Syndromes. Philadelphia. Lippincott 2005, 267-280.
6. Rothenhaus TC, **McLean SA.** Acute Renal Failure: Oliguria and Azotemia. In. Harwood-Nuss AL, Linden CH, Luten RC, et al. (eds): The Clinical Practice of Emergency Medicine, Third Edition. J.B. Lippincott 2001, 863-867.

Refereed Articles

Original Research

1. Beaudoin FL, Gutman R, Merchant RC, Melissa CA, Swor RA, Jones JS, Lee DC, Peak DA, Domeier RM, Rathlev NK, **McLean SA.** Persistent pain after motor vehicle collision: Comparative effectiveness of opioids versus non-steroidal anti-inflammatory drugs prescribed from the emergency department- A propensity matched analysis. *Pain.* Accepted Oct 2016.
2. Linnstaedt SD, Walker MG, Riker KD, Nyland JE, Hu JM, Rossi C, Swor RA, Jones JS, Diatchenko L, Bortsov AV, Peak DA, **McLean SA.** Genetic variant rs3750625 in the 3'UTR of ADRA2A affects stress dependent acute pain severity after trauma and alters a microRNA-34a regulatory site. *Pain.* Accepted September 2016.
3. Mauck MC, Smith J, Liu AY, Jones SW, Shupp JW, Villard MA, Williams F, Hwang J, Karlinski R, Smith DJ, Cairns BA, Kessler RC, **McLean SA.** Chronic pain and itch are common, morbid sequelae among individuals who receive tissue autograft after major thermal burn injury. Accepted 2016 *Clin J Pain.*
4. Linnstaedt SD, Hu JunMei, Liu AY, Soward AC, Bollen KA, Wang HE, Hendry PL, Zimny E, Lewandowski C, Velilla MA, Damiron K, Pearson C, Domeier R, Kaushik S, Feldman J, Rosenberg M, Jones J, Swor R, Rathlev N, **McLean SA.** Methodology of the AA CRASH Prospective Observational Study Evaluating the Incidence and Pathogenesis of Chronic Pain and Adverse Psychological Outcomes in African Americans following Motor Vehicle Collision. *BMJ Open.* Accepted August 2016.
5. Linnstaedt SD, Riker KD, Walker MG, Nyland JE, Zimny E, Lewandowski C, Hendry PL, Damiron K, Pearson C, Velilla MA, Jones J, Swor RA, Domeier R, **McLean SA.** microRNA-320a predicts chronic axial and widespread pain development following motor vehicle collision in a stress-dependent manner. *JOSPT. In Press* July 2016.

6. Xie H, Liberzon I, Cotton AS, Elhai JD, Wall JT, Tamburrino MB, Brickman KR, Ferguson EJ, **McLean SA**, Wang X. Preliminary Study of Acute Changes in Emotion Processing in Trauma Survivors with PTSD Symptoms. *Accepted PLOS ONE*.
7. Wang X, Xie H, Cotton AS, Brickman KR, Lewis TL, Wall JT, Tamburrino MB, Bauer WR, Law K, **McLean SA**, Liberzon I. Early changes in emotion processing after mild traumatic brain injury following motor vehicle collision. *Accepted Journal of Neurotrauma* 05/03/2016.
8. Platts-Mills TF, Nicholson RJ, Richmond NL, Patel KV, Simonsick EM, Domeier RM, Swor RA, Hendry PL, Peak DA, Rathlev NK, Jones JS, Lee DC, Weaver MA, Keefe FJ, **McLean SA**. Restricted Activity and Persistent Pain following Motor Vehicle Collision among Older Adults: a Multicenter Prospective Cohort Study. *Accepted BMC Geriatrics* 4/11/16.
9. Meloto CB, Bortsov AV, Bair E, Helgeson ES, Ostrom C, Smith SB, Dubner R, Slade GD, Fillingim RB, Greenspan JD, Ohrbach R, Maixner W, **McLean SA**, Luda Diatchenko, MD. Modification of COMT-dependent pain sensitivity by psychological stress and sex. *Accepted PAIN* 11/20/15.
10. Linnstaedt SD, Walker MG, Parker JS, Yeh E, Sons RL, Zimny E, Lewandowski C, Hendry PL, Damiron K, Pearson C, Velilla MA, O'Neil BJ, Jones JS, Swor RA, Domeier R, Hammond S, **McLean SA**. microRNA circulating in the early aftermath of motor vehicle collision predict persistent pain development and suggest a role for microRNA in sex-specific pain differences. *Mol Pain*. 2015;11:66. PMID: 26498117
11. Hu J, Bortsov AV, Ballina LE, Orrey DC, Swor RA, Peak D, Jones J, Rathlev N, Lee DC, Domeier R, Hendry P, **McLean SA**. Chronic widespread pain after motor vehicle collision typically occurs via immediate development and non-recovery: results of an emergency department-based cohort study. *Accepted for publication* 10/8/15 *Pain*.
12. Linnstaedt SD, Bortsov AV, Soward AC, Swor R, Peak D, Jones J, Rathlev N, Lee DC, Domeier R, Hendry P, **McLean SA**. CRHBP polymorphisms predict chronic pain development following motor vehicle collision. *Accepted for publication* 9/25/15 *Pain*. PMID:26447706
13. Nyland JE, **McLean SA**, Loyd DL. Prior stress exposure increases pain behaviors in a rat model of full thickness thermal injury. *Accepted for publication* 9/9/15 *BURNS*. PMID: 26432505
14. Walton DM, Elliott J, Lee J, Loh E, MacDermid J, Schabrun S, Siqueira WL, Corneil BD, Birmingham T, Brown A, Cooper L, Dickey JP, Dixon SJ, Fraser D, Gati J, Gloor G, Good G, Holdsworth D, **McLean SA**, Millard W, Miller J, Sadi J, Seguin C, Seminowicz DA, Shoemaker JK, Siegmund G, Vertseege T, Wideman TH. Research priorities in the field of post-traumatic pain and disability: results of an interdisciplinary consensus-generating workshop. *Accepted for publication* 8/2015 *Pain Research & Management*
15. Auvergne L, Bortsov AV, Ulirsch JC, Peak DA, Jones JS, Swor RA, Domeier RM, Lee DC, Rathlev NK, Hendry PL, **McLean SA**. Association of epidemiologic factors and genetic variants influencing HPA axis function with "Post-Concussive Symptoms" after minor motor vehicle collision. *Accepted* 8/15 *Psychosomatic Medicine*.
16. Platts-Mills TF, Flannigan SA, Bortsov AV, Smith S, Domeier RM, Swor RA, Hendry PL, Peak DA, Rathlev NK, Jones JS, Lee DC, Keefe FJ, Sloane PD, **McLean SA**. Persistent pain among older adults discharged home from the emergency department after motor vehicle crash: a prospective study. *Ann Emerg Med*. 2015. PMID:26092559
17. Linnstaedt SD, Hu J, Bortsov AV, Soward AC, Swor RA, Jones JS, Lee DC, Peak DA, Domeier RM, Rathlev NK, Hendry PL, **McLean SA**. μ -Opioid Receptor Gene A118G variants and persistent pain symptoms among men and women experiencing motor vehicle collision. *J Pain* 6(7):637-44, 2015. PMID: 25842347

18. Halawa OI, Al-Diri I, **McLean SA**, Darnall BD. When I'm in pain, I feel god is testing me: differences in Middle Eastern and US cancer pain experiences. *J Pal Med* 2015 epub ahead of print.
19. Pereira GF, **McLean SA**, Tkacik TJ, Swor RA, Jones JS, Lee DC, Peak DA, Domeier RM, Rathlev NK, Hendry PL, Platts-Mills TF. Pain, distress, and anticipated recovery for older versus younger emergency department patients after motor vehicle collision. *BMC Emergency Medicine*. 2014;14:25. PMID: 25547869
20. Buchbinder M, Wilbur R, Zuskov D, **McLean SA**, Sleath BL. Teachable moments and missed opportunities for smoking cessation counseling in a hospital emergency department: a mixed-methods study of patient-provider communication. *BMC Health Services Research*. 2014;14:651. PMID: 25526749
21. Musey PI, Linnstaedt SD, Platts-Mills TF, Miner JR, Bortsov AV, Safdar B, Bijur P, Rosenau A, Tsze DS, Chang AK, Dorai S, Engel K, Feldman JA, Fusaro AM, Lee DC, Rosenberg M, Keefe FJ, Peak DA, Nam CS, Patel R, Fillingim RB, **McLean SA**. Gender Differences in Acute and Chronic Pain in the Emergency Department: Results of the 2014 Society for academic emergency medicine consensus conference pain section. *Acad Emerg Med*. 21(12):1421-30, 2014. PMID: 25422152
22. Qadri YJ, Bortsov AV, Orrey DC, Swor RA, Peak DA, Jones JS, Rathlev NK, Lee DC, Domeier RM, Hendry PL, **McLean SA**. Genetic polymorphisms in the dopamine receptor 2 predict acute pain severity after motor vehicle collision. *Clin J Pain*. 2014 Nov 3. PMID: 25370144
23. Buchbinder M, Wilbur R, **McLean SA**, Sleath BL. "Is there any way I can get something for my pain?" Patient strategies for requesting analgesics. *Patient Educ Couns*. 2015;98:137-43. PMID: 25468395
24. Hunold KM, Sochor MR, **McLean SA**, Mosteller KB, Fernandez AR, Platts-Mills TF. Ambulance transport rates after motor vehicle collision for older vs. younger adults: a population-based study. *Accid Anal Prev*. 2014;73:373-9. PMID: 25310339
25. Kessler RC, Rose S, Koenen KC, Karam EG, Stang PD, Stein DJ, Heeringa SG, Hill ED, Liberzon I, McLaughlin KA, **McLean SA**, Pennell BE, Petukhova M, Rosellini AJ, Ruscio AM, Shahly V, Shalev AY, Silove D, van Ommeren M, Zaslavsky AM, Angermeyer MC, Bromet EJ, Caldas de Almeida JM, de Girolamo G, de Jonge P, Demyttenaere K, Florescu SE, Gureje O, Haro JM, Hinkov H, Kawakami N, Kovess-Masfety V, Lee S, Medina-Mora ME, Murphy SD, Navarro-Mateu F, Piazza M, Posada-Villa J, Scott K, Torres Y, Viana MC. How well can post-traumatic stress disorder be predicted from pre-trauma risk factors? An exploratory study in the WHO World Mental Health Surveys. *World Psychiatry*. 2014;13:265-74. PMID: 25273300
26. Wang X, Xie H, Cotton AS, Tamburrino MB, Brickman KR, Lewis TL, **McLean SA**, Liberzon I. Early cortical thickness changes after mild traumatic brain injury following motor vehicle collision. *J Neurotrauma*. 2015;32(7):455-63. PMID: 25118568
27. Ulirsch JC, Weaver MA, Bortsov A, Soward AC, Swor RA, Peak DA, Jones JS, Rathlev NK, Lee DC, Domeier RM, Hendry PL, **McLean SA**. No man is an island: living in a disadvantaged neighborhood influences chronic pain development after motor vehicle collision, and this effect is moderated by common genetic variation influencing HPA axis function. *Pain*. 155(10):2116-23, 2014. PMID: 25107859
28. Orrey DC, Halawa OI, Bortsov AB, Shupp JW, Jones SW, Haith LR, Hoskins JM, Jordan MH, Bangdiwala S, Roane BM, Platts-Mills TF, Holmes JH, Hwang J, Cairns BA, **McLean SA**. Results of a pilot multi-centered genotype-based randomized placebo-controlled trial of propranolol to reduce pain after major thermal burn injury. *Clin J Pain*. 31(1):21-9, 2015. PMID: 25084070
29. Lewis GC, Platts-Mills TF, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domeier R, Hendry P, **McLean SA**. Incidence and predictors of acute psychological distress and dissociation after motor vehicle collision: a cross-sectional study. *J Trauma Dissociation*. 15(5):527-47, 2014. PMID: 24983475

30. Bortsov AV, Platts-Mills TF, Peak DA, Jones JS, Swor RA, Domeier RM, Lee DC, Rathlev NK, Hendry PL, Fillingim RB, **McLean SA**. Effect of pain location and duration on life function in the year after motor vehicle collision. *Pain* 155(9):1836-45, 2014. PMID: 24972071
31. **McLean SA**, Ulirsch JC, Slade GD, Soward AC, Swor RA, Peak DA, Jones JS, Rathlev NK, Lee DC, Domeier RM, Hendry PL, Bortsov AV, Bair E. incidence and predictors of neck and widespread pain after motor vehicle collision among US litigants and non-litigants. *Pain* 155(2), 309-321, 2014. PMID: 24145211
32. Lubomirsky B, Wang X, Hong X, Smirnoff JB, Biehn TJ, Contractor AA, Elhai JD, Sutu C, Brickman KR, Liberzon I, **McLean SA**, Tamburrino, MB. Preliminary study on the relationship between visitation in the emergency department and posttraumatic mental health. *Soc Work Ment Health*, 12:69-80, 2014.
33. Ulirsch JC, Ballina LE, Soward AC, Rossi C, Hauda WE, Holbrook D, Wheeler R, Foley KA, Batts J, Collette R, Goodman E, **McLean SA**. Pain and somatic symptoms are sequelae of sexual assault: results of a prospective longitudinal study. *Eur J Pain*. 18(4):559-66, 2014. PMID: 24019249
34. Bortsov AV, Diatchenko L, **McLean SA**. Complex multilocus effects of catechol-O-methyltransferase haplotypes predict pain and pain interference 6 weeks after motor vehicle collision. *Neuromolecular Med*. 16(1):83-93. 2014. PMID: 23963787
35. Bortsov AV, Smith JE, Diatchenko L, Soward AC, Ulirsch JC, Rossi C, Swor RA, Hauda WE, Peak DA, Jones JS, Holbrook D, Rathlev NK, Foley KA, Lee DC, Collette R, Domeier RM, Hendry PL, **McLean SA**. Polymorphisms in the glucocorticoid receptor co-chaperone FKBP5 predict persistent musculoskeletal pain after traumatic stress exposure. *Pain* 154(8): 1419-1426, 2013. PMID: 23707272
36. Platts-Mills TF, Hunold KM, Weaver MA, Dickey RM, Fernandez AR, Fillingim RB, Cairns CB, **McLean SA**. Pain treatment for older adults during prehospital emergency care: variations by patient gender and pain severity. *J Pain*. 14(9):966-74, 2013. PMID: 23726936
37. Isaacs CG, Kistler C, Hunold KM, Pereira GF, Buchbinder M, Weaver MA, **McLean SA**, Platts-Mills TF. shared decision-making in the selection of outpatient analgesics for older individuals in the emergency department. *J Am Geriatr Society* 61(5):793-798, 2013. PMID: 23590177
38. Hunold KM, Esserman DA, Isaacs CG, Dickey RM, Pereira GF, Fillingim RB, Sloane PD, **McLean SA**, Platts-Mills TF. Side effects from oral opioids in older adults during the first week of treatment for acute musculoskeletal pain. *Acad Emerg Med* 20(9):872-879, 2013. PMID: 24033733
39. Lee DC, Peak DA, Jones JS, Domeier RM, Hendry PL, Rathlev NK, Swor RA, **McLean SA**. Variations in institutional review board reviews of a multi-center, Emergency Department (ED)-based genetic research protocol. *Am J Emerg Med* 31(6): 967-969, 2013. PMID: 23623236
40. Halpern CT, Tucker CM, Bengtson A, Kupper LL, **McLean SA**, Martin SL. Somatic symptoms among US adolescent females: associations with sexual and physical violence exposure. *Matern Child Health* 17(10):1951-1960, 2013. PMID: 23340952
41. Bortsov AV, Platts-Mills TF, Peak DA, Jones JS, Swor RA, Domeier RM, Lee DC, Rathlev NK, Hendry PL, Fillingim RB, **McLean SA**. Pain distribution and predictors of widespread pain in the immediate aftermath of motor vehicle collision. *Eur J Pain* 17(8): 1243-1251, 2013. PMID: 23335385
42. Ballina LE, Ulirsch JC, Soward AC, Rossi C, Rotolo S, Linnstaedt SD, Heafner T, Foley KA, Batts J, Collette R, Holbrook D, Zelman S, **McLean SA**. μ -Opioid Receptor Gene A118G Polymorphism Predicts pain recovery after sexual assault. *J Pain* 14(2):165-71, 2013. PMID: 23260451
43. Lee YM, Platts-Mills TF, MacWilliams JB, Sochor MR, Jones JS, Domeier RM, Schneider LW, **McLean SA**. Descriptions of motor vehicle collisions by participants in emergency department-based studies: are they accurate? *West J Emerg Med*. 13(4): 329-334, 2012. PMID: 22942933

44. **McLean SA**, Soward AC, Ballina LE, Rossi C, Rotolo S, Wheeler R, Foley KA, Batts J, Casto T, Collette R, Holbrook D, Goodman E, Rauch SA, Liberzon I. Acute severe pain is a common consequence of sexual assault. *J Pain* 13(8):436-41, 2012. PMID: 22698980
45. Platts-Mills T, Hunold K, Esserman D, Sloane P, **McLean SA**. Motor vehicle collision-related emergency department visits by older adults in the United States. *Acad Emerg Med* 19(7):821-7, 2012. PMID: 22724382
46. Platts-Mills TF, Hunold K, Ballina L, Bortsov AV, Peak DA, Jones JS, Swor RA, Lee DC, Domeier RM, Hendry PL, Rathlev NK, **McLean SA**. More educated emergency department patients are less likely to receive opioids for acute pain. *Pain* 153(5):941-2, 2012. PMID: 22386895
47. Bortsov AV, Millikan RC, Belfer I, Boortz-Marx RL, Arora H, **McLean SA**. μ -Opioid receptor gene A118G polymorphism predicts survival in patients with breast cancer. *Anesthesiology* 116(4):896-902, 2012. PMID: 22433205
48. Platts-Mills TF, Lee YM, Swor RA, Zaleski EZ, Clauw DJ, **McLean SA**. Pain and interference of pain with function and mood in older adults involved in a motor vehicle collision: a pilot study. *Exp Aging Res* 38(3):330-43, 2012. PMID: 22540386
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51. Orrey DC, Bortsov AV, Hoskins JM, Shupp JW, Jones SW, Cicuto BJ, Hwang J, Jordan MH, Holmes JH, Haith LR, Roane BM, Diatchenko L, Cairns BA, **McLean SA**. Catechol-O-methyltransferase genotype predicts pain severity in hospitalized burn patients. *J Burn Care Res* 33(4):518-23, 2012. PMID: 22210062
52. Sterling M, **McLean SA**, Sullivan MJ, Elliott J, Butenhuis J, Kamper SJ. Potential processes involved in the initiation and maintenance of Whiplash Associated Disorders (WAD). *Spine* 36:S322-9, 2011. PMID: 22101752
53. **McLean SA**. The potential contribution of stress system responses to the transition to chronic whiplash-associated disorders. *Spine* 36:S226-32, 2011. PMID: 22020617
54. Platts-Mills TF, Ballina L, Bortsov AV, Soward A, Swor RA, Jones JS, Lee DC, Peak DA, Domeier RM, Rathlev NK, Hendry PL, **McLean SA**. Using emergency department-based inception cohorts to determine genetic characteristics associated with long term patient outcomes: methodology of the CRASH Study. *BMC Emerg Med* 11:14, 2011. PMID: 21943293
55. Curatolo M, Bogduk N, Ivancic PC, **McLean SA**, Siegmund GP, Winkelstein E. The role of tissue damage in whiplash associated disorders. *Spine* 36: S309-15, 2011. PMID: 22020601
56. **McLean SA**, Diatchenko L, Lee YM, Swor RA, Domeier RM, Jones JS, Jones CW, Reed C, Harris RE, Maixner W, Clauw DJ, Liberzon I. Catechol O-methyltransferase haplotype predicts immediate musculoskeletal neck pain and psychological symptoms after minor motor vehicle collision. *J Pain* 12(1):101-7, 2011. PMID: 20688576
57. Platts-Mills TF, Leacock B, Cabanas J, Shofer FS, **McLean SA**. Emergency medical services use in the elderly: analysis of a statewide database. *Prehosp Emerg Care* 14(3):329-33, 2010. PMID: 20507220

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59. **McLean SA**, Kirsch N, Tan-Schriner C, Sen A, Frederiksen S, Harris R, Maixner W, Maio RF. Health status, not head injury, predicts concussion symptoms after minor injury. *Am J Emerg Med* 27(2): 182-190, 2009. PMID: 19371526
60. Harris RE, Sundgren PC, Pang Y, Hsu M, Petrou M, Kim S, **McLean SA**, Gracely RH, Clauw DJ. Dynamic levels of glutamate within the insula are associated with improvements in multiple pain domains in fibromyalgia. *Arthritis Rheum* 58(3):903-907, 2008. PMID: 18311814
61. Harris RE, Clauw DJ, Scott DJ, **McLean SA**, Gracely RH, Zubieta JK. Decreased central mu-opioid receptor availability in fibromyalgia. *J Neurosci* 12: 10000-6, 2007. PMID: 17855614
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67. **McLean SA**, Williams DA, Harris RE, Groner KH, Ambrose K, Lyden A, Gracely RH, Crofford LJ, Geisser ME, Sen A, Biswas P, Clauw DJ. Momentary relationship between cortisol secretion and symptoms in patients with fibromyalgia. *Arthritis Rheum* 52(11):3660-9, 2005. PMID: 16258904
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72. **McLean SA**, Clauw DJ. Predicting chronic symptoms after an acute "stressor" – lessons learned from 3 medical conditions. *Med Hypotheses* 63:653-658, 2004. PMID: 15325010

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76. **McLean SA**, Maio RF, Spaite DW, Garrison HG. Emergency medical services outcomes research: evaluating the effectiveness of prehospital care. *Prehosp Emerg Care* 6(2):S52-56, 2002. PMID: 11962585
77. Dart RG, **McLean SA**, Dart L. Isolated fluid in the cul de sac: how well does it predict ectopic pregnancy? *Am J Emerg Med* 20:1-4, 2002. PMID: 11781902
78. **McLean SA**, Feldman JA. The impact of changes in HCFA documentation requirements on academic emergency medicine practice: results of a physician survey. *Acad Emerg Med*; 8:880-885, 2001. PMID: 11535480
79. **McLean SA**, Paul ID, Spector PS. Lidocaine-induced conduction disturbance in patients with systemic hyperkalemia. *Ann Emerg Med* 36:615-618, 2000. PMID: 11097702

Invited peer reviewed editorials

80. **McLean SA**. The Scientific Journey to Predicting and Preventing Post-Operative Pain: Recalling Dr. Wall's stories along the way. *Anesthesiology* 119(6):1244-6, 2013. PMID: 24343282

Letters to the Editor

81. **McLean SA**, Ulirsch JC, Bortsov AV. Response to letter the editor regarding: Incidence and Predictors of Neck and Widespread Pain after Motor Vehicle Collision among US Litigants and Non-Litigants. *Pain* 155(7):1416-8, 2014.
82. **McLean SA**, Platts-Mills TF, Hunold KM. Response to: Who receives opioids for acute pain in emergency departments? Considering evidence, patient and provider preferences. *Pain*. 153(11):2300-1 2012. PMID: 22947223
83. **McLean SA**, Gracely RH. Letter to the Editor regarding: Blumstein HA, Moore D. Visual analog pain scores do not define desire for analgesia in patients with acute pain. *Acad Emerg Med*. 10:211-4, 2003.

Manuscripts in Submission or preparation

1. Feinberg RK, Hu J, Weaver MA, Fillingim RB, Swor RA, Peak DA, Jones JS, Rathlev NK, Lee DC, Domeier RM, Hendry PL, Liberzon I, **McLean SA**. Stress-Related Psychological Symptoms Contribute to Axial Pain Persistence after Motor Vehicle Collision: Path Analysis Results from A Prospective Longitudinal Study. *Re-submitted PAIN*
2. Post-Traumatic Stress Disorder among Older Adults Experiencing Motor Vehicle Collision: a Multicenter Prospective Cohort Study. Platts-Mills TF, Nebolisa BC, Flannigan SA, Richmond NL, Domeier RM, Swor RA, Hendry PL, Peak DA, Rathlev NK, Jones JS, Lee DC, McLean SA. *Submitted*
3. Roger EI, Rothbaum BO, Beaudoin FL, Hudak L, McLean SA, Ressler KJ, Michopoulos V. Nausea in the Peritraumatic Period is Associated with Increased PTSD Symptom Development: A Prospective Emergency Department Observational Study. *In submission*.

4. Jones CW, *others*, **McLean SA**. Epidemiology of Intravenous Fluid Use for the Treatment of Headache in the Emergency Department: Findings from the National Hospital Ambulatory Medical Care Survey. *In submission*.
5. The ACTION-American Pain Society-American Academy of Pain Medicine Pain Taxonomy (AAAPT): An Evidence-Based and Multidimensional Approach to Classifying Acute Pain Conditions. Part of consensus guideline development/authorship group. *In preparation*

Published Abstracts

1. Villard MA, Mauck M, Liu AY, Jones S, Hwang J, Williams F, Shupp J, Karlinski R, Smith D, Doshi N, Jallah D, Cairns B, **McLean SA**. PTSD influences pain and itch symptoms overtime following MThBI. Presented at the Annual Meeting of the American Pain Society, Austin, TX, 2016.
2. Mauck MC, Villard MA, Liu AY, Jones S, Hwang J, Williams F, Shupp J, Karlinski R, Smith D, Bien M, Jia E, Cairns B, Ji RR, **McLean SA**. Association between pain and itch symptom severity after major thermal burn injury increases over time. Presented at the Annual Meeting of the American Pain Society, Austin, TX, 2016.
3. Keku A, Battles S, Liu A, Soward A, D'Anza T, Bell K, Galloway L, Nouhan P, Groat J, Gieger-Sedgwick A, Ho J, Jarvis K, **McLean SA**. Design, Implementation, and Initial Results from the Women's Health Study. Presented at the Annual Meeting of the American Pain Society, Austin, TX, 2016.
4. Liu AY, Wang H, Velilla M, Pearson C, Lewandowski C, Hendry PL, Damiron K, Domeier RM, Kaushik S, Feldman JA, Jones JS, **McLean SA**. Previous burden of adverse life events is associated with increased acute pain in African Americans experiencing motor vehicle collision. Presented at the Annual Meeting of the American Pain Society, Austin, TX, 2016.
5. Linnstaedt SD, Wu A, Zimny E, Lewandowski C, Hendry PL, Damiron K, Pearson C, Velilla MA, Jones J, Swor R, Domeier R, **McLean SA**. Sex-dependent expression of microRNA-19b predicts chronic widespread pain and posttraumatic stress disorder development following trauma exposure. Presented at the Annual Meeting of the American Pain Society, Austin, TX, 2016.
6. Wang X, Xie H, Brickman KR, Bazerbashi MF, Tamburrino MB, **McLean SA**, Liberzon I. Early changes in cortical emotion processing circuits after mild traumatic brain injury following motor vehicle collision. Presented at the 2016 Military Health System Research Symposium.
7. Nicholson RJ, Hunold KM, Weaver MA, Lytle LA, Keefe FJ, **McLean SA**, Platts-Mills TF. Effect of Reduced Physical Activity on the Development of Persistent Pain After Motor Vehicle Collision in Older Adults: a Propensity Score-Matched Analysis. Presented at the Annual Meeting of the Society of Academic Emergency Medicine, 2015.
8. Flannigan SA, Bortsov AV, Swor RA, Jones JS, Lee DC, Peak DA, Domeier RM, Rathlev NK, Hendry PL, **McLean SA**, Platts-Mills TF. Derivation of a Simple Clinical Prediction Instrument to Identify Older Adults at Increased Risk of Persistent Pain after Motor Vehicle Collision. Presented at the Annual Meeting of the Society for Academic Emergency Medicine, 2015.
9. Linnstaedt SD, Yeh E, Walker MG, Sons RL, Zimny E, Lewandowski C, Hendry PL, Damiron K, Pearson C, Velilla MA, Jones J, Swor R, Domeier R, **McLean SA**. MicroRNA in whole blood as predictors of severe axial pain development following motor vehicle collision trauma. Presented at the Annual Meeting of the American Society for Anesthesiology, San Diego, CA, Oct 2015.

10. Linnstaedt SD, Riker KD, Nyland JE, Zimny E, Lewandowski C, Hendry PL, Damiron K, Pearson C, Velilla MA, Jones J, Swor R, Domeier R, **McLean SA**. microRNA 320a is a potential mediator of chronic widespread hyperalgesia development after stress exposure. *J Pain* 4(16), S40(#239) Presented at the Annual Meeting of the American Pain Society, Palm Springs, CA, May 2015.
11. Nyland JE, **McLean SA**, Averitt DL. Combined serotonin and norepinephrine reuptake inhibition reduces the effects of stress on post-injury pain behaviors in a rat model of burn injury. *J Pain* 16(4):S66 Presented at the Annual Meeting of the American Pain Society, Palm Springs, CA, May 2015.
12. Liu AY, Hu J, Platts-Mills TF, Lateef B, Qadri YJ, Wang HE, Velilla MA, Pearson C, Zimny E, Lewandowski C, Hendry PL, Damiron K, Domeier RM, Kaushik S, Feldman JA, Jones JS, Villard MA, **McLean SA**. Education status is not associated with opioid medication receipt among African American emergency department patients with acute pain. *J Pain* 16(4):S32, (#224) Presented at the Annual Meeting of the American Pain Society, Palm Springs, CA, May 2015.
13. Villard MA, Beaudoin FL, Hu J, Orrey D, Peak DA, Jones JS, Swor RA, Domeier RM, Lee DC, Rathlev NK, Hendry PL, **McLean SA**. Few individuals at high risk of persistent musculoskeletal pain after motor vehicle collision receive early psychological or physiotherapy intervention. *J Pain*, 16(4):S33, (#230) Presented at the Annual Meeting of the American Pain Society, Palm Springs, CA, May 2015.
14. Mauck MC, Liu AY, Bortsov AV, Jones S, Hwang J, Williams FN, Shupp JW, Karlinski T, Smith DJ, Krishnan A, Wesp B, Gellatly M, Cairns B, **McLean SA**. Predictors of pain severity after major thermal burn injury vary according to phase of burn wound healing. 16(4), (#229). *J Pain*, Presented at the Annual Meeting of the American Pain Society, Palm Springs, CA, May 2015.
15. Lateef B, Liu AY, Hu J, MO Martel, RR Edwards, Swor RA, Peak DA, Jones JS, Rathlev NK, Lee DC, Domeier RM, Hendry PL, **McLean SA**. Pain Catastrophizing as a Predictor of Opioid Administration in Patients Presenting to the Emergency Department (ED) After Motor Vehicle Collision (MVC) 1(1), 14 Presented at the Annual Meeting of the American Pain Society, Palm Springs, CA, May 2015.
16. Bortsov AV, Velilla MA, Damiron K, Pearson C Jones JS, Hendry PL, Kurz MC, **McLean SA**. Vitamin D deficiency is associated with worse overall pain outcomes over time among African Americans experiencing motor vehicle collision. *J Pain*,16(4):S41,(#260) Presented at the Annual Meeting of the American Pain Society, Palm Springs, CA, May 2015.
17. Beaudoin FL, Gutman R, Peak DA, Jones JS, Swor RA, Domeier RM, Lee DC, Rathlev NK, Hendry PL, **McLean SA**. Treatment effects of opioids versus NSAIDs prescribed from the emergency department following motor vehicle crash: the impact on pain outcomes at 6 weeks. *J Pain* , 16(4):S79,(#412) Presented at the Annual Meeting of the American Pain Society, Palm Springs, CA, May 2015.
18. Hu J, Bollen KA, Lane ST, Bortsov AV, Peak DA, Jones JS, Swor RA, Domeier RM, Lee DC, Rathlev NK, Hendry PL, **McLean SA**. Evaluation of the influence of stress-induced pain vulnerability and sociodemographic characteristics on acute pain after a motor vehicle collision using structural equation modeling. 4(16), S1 Presented at American Pain Society Meeting ,Palm Springs,CA,2015
19. Hu J, Kessler RC Bortsov AV, Battles SR*, Peak DA, Jones JS, Swor RA, Domeier RM, Lee DC, Rathlev NK, Hendry PL, **McLean SA**. Evaluating musculoskeletal pain pathogenesis in the aftermath of motor vehicle collision in a multi-dimensional context. *Presented at American Pain Society Meeting, Tampa, FL, 2014*
20. Duval ER, Wang X, Cotton AS, Xie H, Ramanujam V, Ho S, Brickman KR, Tamburrino MB, **McLean SA**, Liberzon I. Neural Mechanisms underlying Emotion Modulation during Recovery from Acute Stress [abstract]. *Neuropsychopharmacology*, 39, S1, (M218), 2014. Presented at the American College of Neuropsychopharmacology annual meeting, Phoenix, AZ.

21. Feinberg RK, Weaver MA, Liberzon I, Swor RA, Peak DA, Jones JS, Rathlev NK, Lee DC, Domeier RM, Hendry PL, **McLean SA**. Stress-Related Psychological Symptoms Contribute to Neck Pain Persistence after Motor Vehicle Collision: Path Analysis Results from A Prospective Longitudinal Study [abstract]. *J Pain*, 15 (4), S35, (#239). Presented at American Pain Society Meeting, Tampa, FL, 2014. Awarded second place for best meeting abstract in psychosocial domain.
22. Bermudez AL, Hu J, Bortsov AV, Soward AC, Swor RA, Peak DA, Jones JS, Rathlev NK, Lee DC, Domeier RM, Hendry PL, Linnstaedt SD, **McLean SA**. Obesity increases the risk of persistent moderate or severe neck pain 6 months after motor vehicle collision [abstract]. *J Pain*, 15 (4), S35, (#235). Presented at the Annual Meeting of the American Pain Society, Tampa, FL, May 2014.
23. Nichols J, Hu J, Soward AC, Swor RA, Peak DA, Jones JS, Rathlev NK, Lee DC, Domeier RM, Hendry PL, Liberzon I, **McLean SA**. Not so great expectations: characteristics associated with negative expectations of physical and emotional recovery in the hours after motor vehicle collision [abstract]. *J Pain*, 15 (4), S35, (#238). Presented at the Annual Meeting of the American Pain Society, Tampa, FL, May 2014.
24. Hu J, Bortsov AV, Soward AC, Swor RA, Peak DA, Jones JS, Rathlev NK, Lee DC, Domeier RM, Hendry PL, Platts-Mills TF, Linnstaedt SD, **McLean SA**. Most widespread pain present 1 year after motor vehicle collision (MVC) begins in the early aftermath of the MVC: results of a multicenter prospective cohort study [abstract]. *J Pain*, 15 (4), @35, (#237). Presented at the Annual Meeting of the American Pain Society, Tampa, FL, May 2014.
25. Bortsov AV, Miller WC, Soward AC, Swor RA, Peak DA, Jones JS, Rathlev NK, Lee DC, Domeier RM, Hendry PL, **McLean SA**. Derivation of an emergency department-based clinical prediction tool to identify individuals at increased risk of chronic musculoskeletal pain development after motor vehicle collision [abstract]. *J Pain*, 15 (4), S12 (#145). Presented at the Annual Meeting of the American Pain Society, Tampa, FL, May 2014.
26. Liu AY, Bermudez AL, Hu J, Jones S, Hwang J, Smith JE, Ballina LE, Patel A, Tran T, Karlinski T, Smith DJ, Cairns B, **McLean SA**. African Americans Are at Increased Risk of Developing Chronic Pain and Itch at the Site of Tissue Autograft Following Major Thermal Burn Injury [abstract]. *J Pain*, 15 (4), S35 (#236). Presented at the Annual Meeting of the American Pain Society, Tampa, FL, May 2014.
27. Bortsov AV, Swift-Scanlan T, Diatchenko L, Swor RA, Peak DA, Jones JS, Rathlev NK, Lee DC, Domeier RM, Hendry PL, **McLean SA**. Variable DNA methylation in genes involved in immune response is a potential predictor of chronic widespread pain after motor vehicle collision [abstract]. *J Pain*, 15 (4), S34, (#268). Presented at the Annual Meeting of the American Pain Society, Tampa, FL, May 2014. *Selected as Top 1% of abstracts by American Pain Society Pain Genetics Committee*
28. Linnstaedt SD, Walker MG, Parker JS, Sons RL, Velilla MA, Pearson C, O'Neil BJ, Zimny E, Lewandowski C, Damiron K, Hendry PL, Barnes S, Rosenberg M, Hammond SM, **McLean SA**. Circulating microRNA evaluated in the early aftermath of motor vehicle collision predict widespread pain development in African Americans and provide potential pathogenic insights: results of a preliminary analysis [abstract]. *J Pain*, 15 (4), S43, (#269). Presented at the Annual Meeting of the American Pain Society, Tampa, FL, May 2014. *Selected as best meeting abstract by American Pain Society Pain Genetics Committee*.
29. Linnstaedt SD, Walker MG, Bortsov AV, Swor RA, Jones JS, Lee DC, Peak DA, Domeier RM, Rathlev NK, **McLean SA**. The ADRA2A genetic variant rs3750635 influences extent and severity of acute pain after motor vehicle collision and may do so by regulating microRNA function [abstract]. *J Pain*, 15 (4), S44, (#272). Presented at the Annual Meeting of the American Pain Society, Tampa, FL, May 2014.

30. Platts-Mills TF, Pereira G, Isenberg E, Weaver M, Swor RA, Jones JS, Lee DC, Peak DA, Domeier RM, Rathlev NK, Hendry PL, **McLean SA**. Older adults with persistent musculoskeletal pain after motor vehicle collision are at increased risk of functional decline: a prospective longitudinal study [abstract]. *J Pain*, 15 (4), S31, (#223). Presented at the Annual Meeting of the American Pain Society, Tampa, FL, May 2014.
31. Xie H, Wall J, Liberzon I, Tamburrino M, Cotton A, Custer A, **McLean SA**, Brickman K, Bauer W, Wang X. Subacute cortical thickness changes after mild traumatic brain injury [abstract]. *Biological Psychiatry* 75 (9), S102 (#321). Selected for presentation at the Annual Meeting of the Society of Biological Psychiatry, New York, NY, May 2014.
32. Wang X, Duval ER, Cotton AS, Ho S, Brickman KR, Tamburrino MB, **McLean SA**, Bauer WR, Liberzon I. Medial prefrontal cortex involvement in emotional threat processing following motor vehicle collision. Presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA, November 2013. Abstract retrieved from 2013 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2013. Online.
33. Auvergne L, Ulirsch JC, Bortsov A, Peak DA, Jones JS, Swor RA, Domeier RM, Lee DC, Rathlev NK, **McLean SA**. Gene Variants Influencing the Stress Response, Not Head Injury, Predict Post-Concussive Symptom Severity After MVC. Presented at the 2013 American Society of Anesthesiologists meeting, October 12-16, 2013, San Francisco, CA. Abstract retrieved from Abstracts in American Society of Anesthesiology database (A1251).
34. Bortsov AV, Linnstaedt SD, Swor RA, Peak DA, Rathlev NK, Lee DC, Domeier RM, Hendry PL, Jones JS, **McLean SA**. Genetic variants affecting CRH-binding protein predict pain persistence after trauma exposure. Presented at the 2013 American Society of Anesthesiologists meeting, October 12-16, 2013, San Francisco, CA. Abstract retrieved from Abstracts in American Society of Anesthesiology database (BO S09). *Selected as a conference "top abstract"*
35. Bortsov A, Diatchenko L, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domeier R, Hendry P, **McLean SA**. COMT haplotypes predict pain intensity and interference 6 weeks after motor vehicle collision [abstract]. *J Pain*, 14 (4), S42, (#267). Presented at the Annual Meeting of the American Pain Society, New Orleans, LA, May 2013.
36. Ballina L, Ulirsch J, Nielsen C, Adasme RA, Thom N, Pauley C, Jones S, Hwang J, Cairns B, **McLean SA**. Pain catastrophizing influences pain and itch symptoms within 24 hours of skin autograph [abstract]. *J Pain*, 14 (4), S95, (#479). Presented at the Annual Meeting of the American Pain Society, New Orleans, LA, May 2013.
37. Adasme RA, Platts-Mills TF, Fillingim R, Swor R, Jones J, Lee D, Peak D, Domeier R, Rathlev N, Hendry P, **McLean SA**. Fear of movement in the early aftermath of a motor vehicle collision is an independent predictor of pain interference at six weeks [abstract]. *J Pain*, 14 (4), S15, (#157). Presented at the Annual Meeting of the American Pain Society, New Orleans, LA, May 2013.
38. Murray CT, Ulirsch J, Soward A, Rossi C, Rotolo S, Wheeler R, Foley K, Batts J, Collette R, Holbrook D, Goodman E, Csontos E, **McLean SA**. Most sexual assault survivors with new moderate or severe pain do not receive medical care in the initial six weeks after sexual assault [abstract]. *J Pain*, 14 (4), S32, (#227). Presented at the Annual Meeting of the American Pain Society, New Orleans, LA, May 2013.
39. Ulirsch J, Bortsov A, Soward A, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domeier R, Hendry P, **McLean SA**. No man is an island: living in a more disadvantaged neighborhood increases the likelihood of developing persistent moderate or severe neck pain 6 weeks after motor vehicle collision [abstract]. *J Pain*, 14 (4), S101, (#502). Presented at the Annual Meeting of the American Pain Society, New Orleans, LA, May 2013. *Also presented as oral presentation at Society of Academic Emergency Medicine annual meeting, Atlanta, GA, May 2013. *Selected as top abstract ("Gallery of Excellence") - top 12% of abstracts.*

40. Soward A, Ulirsch J, Bair E, Slade G, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domeier R, Hendry P, **McLean SA**. Risk factors for persistent pain after motor vehicle collision differ between litigants and non-litigants [abstract]. *J Pain*, 14 (4), S29, (#214). Presented at the Annual Meeting of the American Pain Society, New Orleans, LA, May 2013.
41. Verma N, Platts-Mills TF, Hunold K, Swor R, Peak D, Lee D, Jones J, Rathlev N, Domeier R, Hendry P, **McLean SA**. Initial neuropathic pain symptoms predict musculoskeletal pain severity six weeks after MVC [abstract]. *J Pain*, 14 (4), S19, (#172). Presented at the Annual Meeting of the American Pain Society, New Orleans, LA, May 2013.
42. Linnstaedt S, Bortsov A, Swor R, Jones J, Lee D, Peak D, Domeier R, Rathlev N, Hendry P, **McLean SA**. Among women with substantial peritraumatic distress after minor motor vehicle collision (MVC), the presence of one or more G alleles at OPRM1 A118G is protective against developing persistent moderate or severe pain [abstract]. *J Pain*, 14 (4), S42, (#266). Presented at the Annual Meeting of the American Pain Society, New Orleans, LA, May 2013.
43. Orrey DC, Ulirsch J, Linnstaedt S, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domeier R, Hendry P, **McLean SA**. Interactions between gender and other risk factors are associated with persistent neck pain after motor vehicle collision [abstract]. *J Pain*, 14 (4), S17, (#166). Presented at the Annual Meeting of the American Pain Society, New Orleans, LA, May 2013.
44. Platts-Mills TF, Matthews S, Pereira G, Fillingim R, Swor R, Jones J, Lee D, Peak D, Domeier R, Rathlev N, Hendry P, **McLean SA**. Age-related differences in recovery from pain due to motor vehicle collision: a prospective longitudinal study [abstract]. *J Pain*, 14 (4), S13, (#149). Presented at the Annual Meeting of the American Pain Society, New Orleans, LA, May 2013.
45. Qadri YJ, Bortsov AV, Swor RA, Peak DA, Jones JS, Rathlev NK, Lee DC, Domeier RM, Hendry PL, **McLean SA**. Genetic polymorphisms in the Dopamine Receptor D2 are associated with acute pain severity after motor vehicle collision. Presented at the 2012 Annual Meeting of the American Society of Anesthesiologists. Abstract retrieved from the Abstracts in American Society of Anesthesiology database (BOC10). ***Selected for oral presentation in the "Best of Abstracts: Clinical Science" session.*
46. Cotton AS, Tamburrino MB, Wang X, Morgan RSD, Sripada R, Biehn TL, Chen JZ, Brickman KR, **McLean SA**, Dzurik AD, Ding Y, Dennis MJ, Liberzon I. Default mode network functional connectivity from the initial days to weeks after a motor vehicle collision. Presented at the Annual Meeting for the Society for Neuroscience, New Orleans, LA, October 2012. Abstract retrieved from 2012 Neuroscience Meeting Planner, Presentation Detail.
47. Xie H, Liberzon I, Wang X, Wall JT, **McLean SA**, Brickman KR, Elhai JD, Dennis MJ, Bauer WR, Kane J, Tamburrino MB. Rapid cortical structural changes over initial weeks after trauma. Presented at the Annual Meeting for the Society for Neuroscience, New Orleans, LA, October 2012. Abstract retrieved from 2012 Neuroscience Meeting Planner, Presentation Detail.
48. Smith JE, Ulirsch J, Bortsov A, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domeier R, Hendry P, Diatchenko, **McLean SA**. FKBP5 Variants Predict Neck Pain Persistence Six Weeks After Motor Vehicle Collision. Presented at the International Association of the Study of Pain's Bi-Annual World Congress on Pain, Milan, Italy, August 2012. Selected for oral presentation. Abstract retrieved from Abstracts in American Society of Anesthesiology database (A008).
49. Goetzinger A, Orrey D, Lee Y, Platts-Mills T, Bortsov, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domeier R, Hendry P, Liberzon I, **McLean SA**. Persistent Neck Pain is Associated with Increased Risk of significant PTSD and Depressive Symptoms and Greater Health Service Utilization 6 Weeks after Motor Vehicle Collision. Presented at the International Association of the Study of Pain's Bi-Annual World Congress on Pain, Milan, Italy, August 2012.

50. Halawa O, Al-Diri I, Dunlap R, Bernard S, Boortz-Marx R, **McLean SA**, Darnall BD. When I'm in pain, I feel God is testing me. Religiosity and Pain Experiences in Kuwaiti vs. American Patients with Lung Cancer. Presented at the International Association of the Study of Pain's Bi-Annual World Congress on Pain, Milan, Italy, August 2012.
51. Lewis GC, Platts-Mills TF, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domeier R, Hendry P, **McLean SA**. Incidence and predictors of psychological distress after motor vehicle collision [abstract]. Academic Emergency Medicine, 19, S142, (#262). Presented at the Society for Academic Emergency Medicine Annual Conference, Chicago, IL 2012 ***Selected for oral presentation in special "Future Stars of Emergency Medicine" session.*
52. Goetzinger A, Orrey D, Lee Y, Platts-Mills T, Bortsov A, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domieir R, Hendry P, Liberzon I, **McLean SA**. Peritraumatic Psychological Distress and Mild Traumatic Brain Injury Symptoms (MTBI) are Associated in the Early Aftermath of Trauma [abstract]. Biological Psychiatry, 71 (8S), 75S, (#242). Presented at the Annual Meeting of the Society of Biological Psychiatry, Philadelphia, PA, May 2012. ***Scored in the top 1% of all abstracts submitted to conference and received a Top Poster Finalist award.*
53. Smith J, Bortsov A, Ulirsch J, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domieir R, Hendry P, Liberzon I, **McLean SA**. FKBP5 Polymorphism Predicts Peritraumatic Dissociation after Motor Vehicle Collision [abstract]. Biological Psychiatry, 71 (8S), 75S, (# 243). Presented at the Annual Meeting of the Society of Biological Psychiatry, Philadelphia, PA, May 2012. ***Scored in the top 1% of all abstracts submitted to conference and received a Top Poster Finalist award.*
54. Bortsov A, Soward A, Diatchenko L, Ulirsch J, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domieir R, Hendry P, Liberzon I, **McLean SA**. Tryptophan Hydroxylase 2 Synonymous Polymorphism rs7305115 is Associated with Acute Psychological Response after Motor Vehicle Collision [abstract]. Biological Psychiatry, 71 (8S), 149S, (#474). Presented the Annual Meeting of the Society of Biological Psychiatry, Philadelphia, PA, May 2012.
55. Ulirsch J, Bortsov A, Smith J, Diatchenko L, Bortsov A, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domieir R, Hendry P, Liberzon I, **McLean SA**. ADRA2A Variants Predict Peritraumatic Dissociation After Motor Vehicle Collision [abstract]. Biological Psychiatry, 71 (8S), 148S, (#473). Presented at the Annual Meeting of the Society of Biological Psychiatry, Philadelphia, PA, May 2012.
56. Ballina L, Diatchenko L, Ulirsch J, Bortsov A, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domieir R, Hendry P, Liberzon I, **McLean SA**. Sexually Dimorphic Influence of COMT on Distress in the Immediate Aftermath of Trauma [abstract]. Biological Psychiatry, 71 (8S), 148S, (#472) Presented at the Annual Meeting of the Society of Biological Psychiatry, Philadelphia, PA, May 2012.
57. Platts-Mills T, Ballina L, Diatchenko L, Bortsov A, Swor R, Peak D, Jones J, Rathlev N, Lee D, Domieir R, Hendry P, Liberzon I, **McLean SA**. Influence of COMT HPS Haplotype on Peritraumatic Distress Severity among Women Experiencing Motor Vehicle Collision: Report of an Age x Gene Interaction [abstract]. Biological Psychiatry, 71 (8S), 147S, (#470). Presented at the Annual Meeting of the Society of Biological Psychiatry, Philadelphia, PA, May 2012.
58. Orrey D, Bortsov A, Shupp J, Jones S, Hwang J, Jordan M, Holmes J, Haith L, Cairns B, Liberzon I, **McLean SA**. Individuals with Elevated PTSD Symptoms Experience Increased Itch Symptom Morbidity after Major Burn Injury [abstract]. Biological Psychiatry, 71 (8S), 242S-243S, (#772). Presented at the Annual Meeting of the Society of Biological Psychiatry, Philadelphia, PA, May 2012.

59. Orrey D, Bortsov A, Liberzon I, Shupp JW, Jones S, Hwang J, Jordan MH, Holmes J, Haith L, Cairns B, **McLean SA**. Failure of propranolol to decrease anxiety and PTSD symptoms in a genotype-based RCT of patients with major thermal burn injury [abstract]. *Biological Psychiatry*, 71 (8S), 56S, (#184). Presented at the Annual Meeting of the Society of Biological Psychiatry, Philadelphia, PA, May 2012.
60. Soward A, Ulirsch J, Liberzon I, Rossi C, Rotolo S, Wheeler R, Batts J, Casto T, Collette R, Holbrook D, Goodman E, Csontos E, Rausch SAM, Diatchenko L, **McLean SA**. Catechol O-Methyltransferase Haplotype Predicts Posttraumatic Stress Disorder Symptom Severity Six Weeks after Sexual Assault [abstract]. *Biological Psychiatry*, 71 (8S), 147S, (#471). Presented at the Annual Meeting of the Society of Biological Psychiatry, Philadelphia, PA, May 2012 and at the Annual Meeting of the Society of Academic Emergency Medicine, Chicago, IL, May 2012.
61. Orrey DC, Zhao S, Bair E, Bortsov AV, Shupp JW, Jones SW, Hwang J, Jordan MH, Holmes JH, Haith LR, Cairns BA, **McLean SA**. Smokers Experience Increased Pain and Itch After Major Burn Injury [abstract]. *Journal of Burn Care and Research*, 33 (2) (Supplement 1), S156, (#194). Presented at the annual meeting of the American Burn Association, Seattle, WA, 2012.
62. Bortsov AV, Millikan R, Diatchenko L, Belfer I, Boortz-Marx, Arora H, **McLean SA**. μ -Opioid Receptor Gene Polymorphism A118G is Associated with Breast Cancer Survival [abstract]. *Anesthesiology*, 116 (4), 896, (J505). Presented at the Annual Meeting of the American Society of Anesthesiologists, Chicago, IL, 2011. ***Selected for oral presentation at special 2011 Journal Symposium, with invitation to submit to Anesthesiology journal.*
63. Tomecka M, Orrey D, Bortsov A, Shupp J, Jordan M, Jones S, Holmes J, Haith L, Cairns B, **McLean SA**. Itch Symptoms are Strongly Associated with Pain Symptoms in Patients with Major Thermal Burn Injury. Presented at the Annual Meeting of the American Society of Anesthesiologists, Chicago, IL, 2011. Abstract retrieved from Abstracts in American Society of Anesthesiology database (A1377).
64. Orrey DC, Shupp J, Jones SW, Cicuto B, Jordan M, Holmes J, Haith L, Cairns B, **McLean SA**. Results of a Pilot Multi-centered RCT of Propranolol to Decrease Pain in Admitted Burn Patients. Presented at the Annual Meeting of the American Society of Anesthesiologists, Chicago, IL, 2011. Abstract retrieved from Abstracts in American Society of Anesthesiology database (A1379).
65. Platts-Mills T, Brown D, Bortsov A, **McLean SA**. Oligoanalgesia in Elderly Adults Presenting to US Emergency Departments [abstract]. *J Pain*, 12 (4), P25, (197). Presented at the Annual Meeting of the American Pain Society, Austin, TX, 2011 as well as at the Annual Meeting of the Society of Academic Emergency Medicine, Boston, MA, 2011.
66. Whittington K, Bortsov A, Soward AC, Jones J, Peak D, Swor R, Lee D, Rathlev N, Domeier R, Hendry P, Maixner W, Slade G, **McLean SA**. A pain in the neck? Which regions of body pain are most associated with pain interference and other health outcomes 6 weeks after motor vehicle collision [abstract]. *J Pain*, 12 (4), P11, (141). Presented at the Annual Meeting of the APS, Austin, TX, 2011, and the Annual Meeting of the Society of Academic Emergency Medicine, Boston, MA, 2011.
67. Soward AC, Whittington K, Rossi C, Rotolo S, Wheeler R, Foley K, Batts J, Casto T, Collette R, Holbrook D, Goodman E, Harney K, Csontos E, Rauch SAM, Liberzon I, **McLean SA**. Moderate or severe pain is common six weeks after sexual assault [abstract]. *The J Pain*, 12 (4), P26, (200). Presented at the Annual Meeting of the American Pain Society, Austin, TX, 2011 and the Annual Meeting of the SAEM, Boston, MA, 2011.
68. Bortsov A, Whittington K, Lee Y, Soward AC, Jones J, Peak D, Swor R, Lee D, Rathlev N, Domeier R, **McLean SA**. Individual vulnerability factors, but not collision-related factors, are associated with extent of moderate or severe pain symptoms in the immediate aftermath of motor vehicle collision [abstract]. *The J Pain*, 12 (4), P10, (139). Presented at the Annual Meeting of the American Pain Society, Austin, TX, 2011.

69. Westphal W, Soward AC, Rossi C, Rotolo S, Heafner T, Foley K, Batts J, Casto T, Collette R, Holbrook D, Goodman E, Harney K, Csontos E, Rauch SAM, Liberzon I, **McLean SA**. Severe pain is common but rarely treated in the immediate aftermath of sexual assault [abstract]. The *J Pain*, 12 (4), P44, (275). Presented at the Annual Meeting of the American Pain Society, Austin, TX, 2011.
70. Lee Y, Orrey D, Bortsov A, Whittington K, Jones J, Peak D, Swor R, Lee D, Rathlev N, Domeier R, Maixner W, Slade G, Fillingim R, **McLean SA**. Shared Vulnerability to pain and post-concussive syndrome in the early aftermath of motor vehicle collision [abstract]. The *J Pain*, 12 (4), P9, (134). Presented at the Annual Meeting of the American Pain Society, Austin, TX, 2011.
71. Edwards L, Mitchell P, Jones J, Hendry P, Peak D, Swor R, Lee D, Rathlev N, Domeier R, Bortsov A, Platts-Mills T, Fillingim R, **McLean SA**. Increased catastrophizing and reduced recovery expectations in the early aftermath of motor vehicle collision among African Americans vs. European Americans [abstract]. The *J Pain*, 12 (4), P83, (431). Presented at the Annual Meeting of the American Pain Society, Austin, TX, 2011.
72. Orrey D, Shupp J, Hoskins J, Platts-Mills T, Bortsov A, Bangdiwala S, Haith L, Diatchenko L, Holmes J, Jordan M, Cairns B, **McLean SA**. Pilot multicenter, genotype-based, randomized, double-blind, placebo-controlled trial of propranolol to reduce initial pain symptoms in patients with major burn injury [abstract]. The *J Pain*, 12 (4), P46, (281). Presented for Presentation at the Annual Meeting of the American Pain Society, Austin, TX, 2011.
73. Ballina L, Platts-Mills T, Jones J, Peak D, Swor R, Soward AC, Whittington K, Lee D, Rathlev N, Domeier R, Orrey D, Liberzon I, **McLean SA**. Receipt of mental health care services in the initial weeks after motor vehicle collision is rare among patients with persistent neck pain and substantial co-morbid PTSD symptoms [abstract]. The *J Pain*, 12 (4), P1, (101). Presented at the Annual Meeting of the American Pain Society, Austin, TX, 2011.
74. **McLean SA**, Soward AC, Rotolo S, Rossi C, Whittington K, Rauch SAM, Jackson C, Zelman S, Foley K, Batts J, Liberzon I. New moderate or severe pain is common after sexual assault [abstract]. *Biological Psychiatry*, 69, 150S, (503). Presented at the Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, 2011.
75. Orrey DC, Shupp J, Hoskins JM, Platts-Mills TF, Bortsov AV, Bangdiwala SI, Jones SW, Cicuto BJ, Haith LR, Diatchenko L, Holmes JH, Jordan MH, Cairns BA, **McLean SA**. Feasibility and Acceptability of a Genotype-Specific Randomized Controlled Trial (RCT) of Pain Treatment in a Research Network Burn Center Population [abstract]. *Journal of Burn Care and Research*, 33 (2), S144, (188). Presented at the Annual Meeting of the American Burn Association in Chicago, IL, 2011.
76. Solano NE, Halawa O, Heilbron N, Ricketts KJ, Nonoy NP, McGee JP, Miller NR, Salo-Coombs VH, **McLean SA**. Substantial postoperative pain variation among children undergoing laparoscopic appendectomy. Abstract retrieved from Abstracts in American Society of Anesthesiology database (A742). Presented at the Annual Meeting of the American Society of Anesthesiologists, San Diego, CA, 2010.
77. Miller NR, Halawa O, Heilbron N, Ricketts KJ, Nonoy NP, McGee JP, Solano NE, Salo-Coombs VH, **McLean SA**. Common clinical characteristics do not predict substantial pain after appendectomy in children. Abstract retrieved from Abstracts in American Society of Anesthesiology database (A740). Presented at the Annual Meeting of the American Society of Anesthesiologists, San Diego, CA, 2010.
78. Halawa O, Roane BM, Orrey D, Whittington K, Soward AC, Jones S, Cairns B, **McLean SA**. Feasibility and acceptability of a genotype-specific RCT of pain treatment in a burn population. Abstract retrieved from Abstracts in American Society of Anesthesiology database (A1427). Presented at the Annual Meeting of the American Society of Anesthesiologists, San Diego, CA, 2010.

79. Lee DC, **McLean SA**, Barton E, Hahn SJ. Variations in local institutional Review Boards (IRB) responses to a standard, multi-center, emergency department-based genetic research project. *Acad Emerg Med*. 2010;17(5):S(1)S140-141 (410).
80. Halawa OI, **McLean SA**, Lee YM, Platts-mills TF, Zaleski E, Withrow A, Clauw DJ, Liberzon I. Elevated Cortisol Levels after Motor Vehicle Collision Predict Post Traumatic Stress Disorder and Depressive Symptoms at 1 Month. *Biological Psychiatry*, 67, 1S-271S, 213S, (744).
81. Roane BM, Orrey D, Soward AC, Swor RA, Liberzon I, Clauw DJ, **McLean SA**. Pain and psychological symptom differences in African Americans and European Americans experiencing motor vehicle collision [abstract]. *The J Pain*, 11 (4), S1-S104, S5, (119).
82. Orrey D, Soward A, Rotolo S, Rossi C, Roane BM, Csontos E, Casto T, Rauch SAM, Liberzon I, **McLean SA**. Psychological characteristics associated with pain severity in the early aftermath of sexual assault [abstract]. *The J Pain*, 11 (4), S1-S104, S12, (121).
83. Soward AC, Orrey DC, Rotolo S, Rossi C, Roane BM, Csontos E, Casto T, Wheeler B, Rauch S, Slade G, **McLean SA**. Incidence and distribution of pain symptoms after sexual assault [abstract]. *The J Pain*, 11 (4), S1-S104, S6, (145).
84. Swor RA, Lee YM, **McLean SA**. Spinal board immobilization may be associated with persistent pain after Motor Vehicle Crash. National Association of EMS Physicians, Phoenix, AZ 2010. NAEMSP Annual Meeting Abstract database, (62).
85. Tchivileva IE, Lim PF, Kasravi P, Gibson D, Smith S, Maixner W, **McLean SA**. Propranolol in TMJD Treatment [abstract]. *J Pain*, 10 (4), S1-S120, S41, (263).
86. **McLean SA**, Diatchenko L, Reed C, Jones CW, Zaleski E, Mistry Y, Swor R, Sochor MR, Liberzon I, Clauw D, Maixner W. Catechol O-Methyltransferase (COMT) met/met genotype influences cortisol response and pain symptoms after minor motor vehicle collision (MVC) [abstract]. *The J Pain*, 9 (4), P8, (128).
87. Tchivileva IE, Lim PF, Kasravi P, Maixner W, **McLean SA**. Effect of propranolol on TMD patients: preliminary finding [abstract]. *The J Pain*, 9 (4), P46, (282).
88. Clauw DJ, Belfer I, Max M, Williams DA, Gracely RH, **McLean SA**, Harris RE, Neely A, Bair E, Diatchenko L, Maixner, W. Increased Frequency of the Minor Allele for beta-3 Adrenergic Receptors in Individuals with Fibromyalgia and Related Syndromes. Presented at the American College of Rheumatology Annual Meeting, Boston, MA, 2007. Abstract retrieved from abstracts in 2007 annual scientific meeting database (103).
89. Robinson D, **McLean SA**, Swor R, Zaleski EM, Mistry Y, Schon S, Sochor MR, Newton, CRH, Liberzon I, Clauw DJ. Characteristics associated with neck pain persistence versus recovery after minor motor vehicle collision. Presented at the American College of Rheumatology Annual Meeting, Boston, MA, 2007. Abstract retrieved from abstracts in 2007 annual scientific meeting database (117).
90. Schon S, **McLean SA**, Mistry Y, Zaleski EM, Swor R, Robinson D, Sochor MR, Newton CRH, Liberzon I, Clauw DJ. Predictors of persistent moderate or severe neck and/or back pain 1 and 6 months after minor motor vehicle collision. Presented at the American College of Rheumatology Annual Meeting, Boston, MA, 2007. Abstract retrieved from abstracts in 2007 annual scientific meeting database (116).
91. Harris RE, Williams DA, **McLean SA**, Sen A, Hufford M, Gendreau RM, Gracely RH, Clauw DJ. Characterization and Consequences of Pain Variability in Individuals with Fibromyalgia. Presented at the American College of Rheumatology Annual Meeting, Arthritis and Rheumatism; 2005. (abstract supplement), 52, 9, S77, (#112).

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93. **McLean SA**, Myria P, Bradley F, Ambrose K, Fan X, Mayo-Bond LA, Leone V, Williams DA, Gracely RH, Sundgren PC, Clauw DJ. Relationship Between Two D-CSI MR Spectroscopy Findings and Clinical Characteristics in Fibromyalgia. Presented at the American College of Rheumatology Annual Meeting, Arthritis and Rheumatism; 2005. (abstract supplement), 52, 9, S519, (#1372).
94. **McLean SA**, Patel R, Williams DA, Clauw DJ, Gracely RH. Pain processing differences in women with fibromyalgia with and without a self-reported history of physical or sexual abuse. *IASP Press [abstracts]*, 1254-P124, (449). Presented at the International Association for the Study of Pain meeting, Sydney, Australia, 2005. Pain 2005.
95. **McLean SA**, Blow FC, Walton MA, Barry KL, Maio RF, Knutzen SR. At risk drinking among injured older adults presenting to the emergency department. Presented at the Society of Academic Emergency Medicine Annual Meeting, Boston, MA, 2003. *Acad Emerg Med*, 10: 536, 2003. (336).
96. **McLean SA**, Domeier RM, DeVore HK, Maio RF, Frederiksen SM. The feasibility of pain measurement in the prehospital setting. Presented at the Society of Academic Emergency Medicine Annual Meeting, Boston, MA, 2003. *Acad Emerg Med*, 10: 474-475, 2003. (153).
97. Chang J, Doyle CJ, Domeier RM, Sobanski C, **McLean SA**, Maio RF, Frederiksen SM. The Practice of pain medication administration following EMS protocol change. Presented at the Society of Academic Emergency Medicine Annual Meeting, Boston, MA, 2003. *Acad Emerg Med*, 10: 444, 2003. (064).
98. Dart RG, **McLean SA**, Dart L. Isolated fluid in the cul de sac: how well does it predict ectopic pregnancy? *JAMA* 2003; 289:1905 Abstract from our previously published article was featured in *JAMA* in section highlighting publications of note from other journals
99. **McLean SA**, Gregor MA, Walton MA, Barry KL, Blow FC, Maio RF, Knutzen SR. The prevalence of at risk drinking among patients presenting to the emergency department. *Acad Emerg Med*, 2002; 9(5): 470, (302). Presented at the Society of Academic Emergency Medicine Annual Meeting, St. Louis, MO, 2002.
100. Kelley SA, **McLean SA**, Maio RF, Cunningham R, Hill EM: The ED-TISS: A Therapeutic Intervention Scoring System for Patients with Minor Injury [abstract]. *Acad Emerg Med* 2002; 9(5): 418, (164). Presented at the Society of Academic Emergency Medicine Annual Meeting, St. Louis, MO, 2002.
101. **McLean SA**, Feldman JA. The impact of changes in HCFA documentation requirements on academic emergency medicine practice: results of a physician survey [abstract]. *Ann Emerg Med* 2000; 36: S29-S30, (110). Presented at the American College of Emergency Physicians Annual Scientific Assembly, Philadelphia, PA, 2000.
102. Dart RG, **McLean SA**, Dart L: Isolated fluid in the cul-de-sac: how well does it predict ectopic pregnancy? [abstract] *Acad Emerg Med* 2000; 7(5): 448, (066). Presented at the Society of Academic Emergency Medicine Annual Meeting, San Francisco, CA, 2000.
103. Dart RG, **McLean SA**, Dart L. Predicting ectopic pregnancy in patients without chorionic villi after a dilatation and curettage procedure [abstract]. *Acad Emerg Med* 2000; 7(5):447, (064). Presented at the Society of Academic Emergency Medicine Annual Meeting, San Francisco, CA, 2000.

Abstracts Accepted

1. Villard MA, Mauck M, Liu AY, Jones S, Hwang J, Williams F, Shupp J, Karlinski R, Smith D, Doshi N, Jallah D, Cairns B, **McLean SA**. PTSD influences pain and itch symptoms overtime following MThBI. Accepted American Pain Society meeting 2016.
2. Mauck MC, Villard MA, Liu AY, Jones S, Hwang J, Williams F, Shupp J, Karlinski R, Smith D, Bien M, Jia E, Cairns B, Ji RR, **McLean SA**. Association between pain and itch symptom severity after major thermal burn injury increases over time.
3. Keku A, Battles S, Liu A, Soward A, D'Anza T, Bell K, Galloway L, Nouhan P, Groat J, Gieger-Sedgwick A, Ho J, Jarvis K, **McLean SA**. Design, Implementation, and Initial Results from the Women's Health Study.
4. Liu AY, Wang H, Velilla M, Pearson C, Lewandowski C, Hendry PL, Damiron K, Domeier RM, Kaushik S, Feldman JA, Jones JS, **McLean SA**. Previous burden of adverse life events is associated with increased acute pain in African Americans experiencing motor vehicle collision.
5. Linnstaedt SD, Wu A, Zimny E, Lewandowski C, Hendry PL, Damiron K, Pearson C, Velilla MA, Jones J, Swor R, Domeier R, **McLean SA**. Sex-dependent expression of microRNA-19b predicts chronic widespread pain and posttraumatic stress disorder development following trauma exposure.

Abstracts in Submission

1. Lane ST, Bollen KA, **McLean SA**. Challenges and strategies for estimating second-order latent curve models. Submitted to the International Meeting of the Psychometric Society.

Media Coverage of Research

Live Interviews

- 2013 Invited guest on NPR program, “The State of Things”, which is broadcast statewide in North Carolina. The average live audience for the program is ~ 100,000. *Twenty minute interview on program titled “New Discoveries In Chronic Pain Research”*. Podcast available at <http://wunc.org/post/new-discoveries-chronic-pain-research>.

TV News

- 2015 ABC affiliate Channel 8 KTUL, Tulsa OK, local news story “Sexual Assault Study”, aired 7/10/15 with related online publication: <http://www.ktul.com/story/29524090/sexual-assault-study>.

Print/Web

- 2016 The Scientist magazine article published February 10, 2016 “Blocking a Stress-Related Gene Relieves Chronic Pain”, article was regarding a publication building on our previous work, and I was interviewed.
- 2015 EurekAlert! Global Source for Science News article published November 24, 2015, Gene variants involved in stress responses affect 'post-concussive' symptoms”.
- 2015 Becker's Hospital Review selected our research to highlight in selecting UNC as one of “100 Great Hospitals in America 2015”. Online article published April 16, 2015.
- 2014 Reuters Health article published September 5, 2014, “Stress might influence development of chronic pain”.
- 2014 BodyinMind.org Research into Brain and Mind in Chronic Pain Website article published September 9, 2014, “No man is an island”.

- 2014 [Medpage Today](#) article published online May 5, 2014, "Treat Car Crash Pain Early On, Lest It Linger".
- 2014 [Medpage Today](#) article published online May 5, 2014, "BMI Predicts Neck Pain After Car Crash".
- 2014 [US News and World Report](#) article published online January 25, 2014, "Most Crash Victims Don't Plan to Sue: Study".
- 2014 [Science Daily](#) article published online January 17, 2014, "Chronic neck pain common among car crash victims, but most don't sue."
- 2013 [Physician's Briefing](#) online article published May 23, 2013, "More than half of female sexual assault survivors have severe pain at initial exam and one week later; few receive pain meds."
- 2013 [Medscape Emergency Medicine](#) online article published May 13, 2013, "Persistent Pain After Sexual Assault Often Untreated".
- 2013 [American Pain Society](#) weekly electronic news brief ("Smartbrief") sent to all American Pain Society members. Featured news story for week of May 8, 2013.
- 2013 [American News Report](#) online article published May 7, 2013, "Chronic Pain Linked to Stress".
- 2013 [Futurity Online](#) article published May 3, 2013, "Chronic Pain After Trauma Could Be Genetic".
- 2012 [HealthDay Online](#) article published Oct. 16, 2012, "Pain Level After Car Crash Could Depend on Your Genes, Studies Say"
- 2012 [ABC News Online](#) article published March 21, 2012, "Opioids May Play Role in Cancer Growth".
- 2011 [New York Times](#) article published November 21, 2011, "Disparities: In the E.R., the Elderly Get Less Pain Relief".
- 2011 [Anesthesiology News Front Page](#) article published in December 2011 issue, "Opioid Gene Variants Linked To Cancer Survival in Women".
- 2006 [UPI](#) interview in article published May 8, 2006, "Emergency rooms flunk pain tests".

6) Teaching Activities

Course Directorships

- 2010 - Director, Anesthesiology 403 Research Elective. Fourth year medical students selecting this rotation learn the basics of patient screening, informed consent, and the conduct of patient baseline and follow-up interviews for randomized controlled trials. These skills are learned by working with a team of full-time research assistants, study coordinators, and nurses in the UNC Department of Anesthesiology Research Division. Students also take part in our weekly research group meetings, and give a presentation at the end of their month on a translational research topic of interest. I see the students on a day to day basis during their month, and meet with them several times during the month to help the student select and prepare their presentation and discuss their topic of interest. (24 students since 2010.)

Monthly Teaching Activities

- 2013 - Anesthesiology Clinical Research Interest Group. Organize and lead monthly research meetings where Anesthesiology faculty and residents seek feedback on formulating project hypotheses and specific aims and/or on troubleshooting ongoing quality improvement or research projects.

Weekly Teaching Activities

2010 - Director, TRYUMPH Research Program Weekly Lecture Series. Faculty, fellows, residents, staff, medical students doing 403 elective or volunteering in the research program, undergraduate work study students, and undergraduate students volunteering in the research program participate in this weekly lecture series. Presentations include topical reviews, descriptions/discussions of emerging concepts or recently published articles, discussions and critiques of articles and analyses in development, and lectures by local or external invited scientists.

Mentees (see bibliography for publications with mentees):

A substantial portion of my time since 2009 has been spent on individual mentoring. A list of mentees since 2009 (excluding Anesthesiology 403 students) is provided below.

Faculty Mentees since 2009

Paul Musey, M.D.	Mentor to Dr. Musey on the development of his career development award application.
Francesca Beaudoin, M.D.	Mentor on Dr. Francesca Beaudoin's Brown University K12 HS022998 (Lau, Trikalinos), and on the thesis committee member for Dr. Beaudoin's PhD in Epidemiology.
Tim Platts-Mills, M.D.	Primary mentor on Dr. Platts-Mills' K23 funded 2013, " <i>Persistent pain and associated physical function decline among elderly individuals experiencing motor vehicle collision</i> "(received a perfect score (10) at NIH study section).
Tim Platts-Mills, M.D.	Primary mentor on Dr Platts-Mills' funded KL2 (2010-2012), " <i>Predictors of persistent pain among individuals greater than 65 experiencing minor motor vehicle collision</i> ".
Mara Buckbinder, Ph.D.	Mentor on Dr. Buckbinder's funded KL2 (2012-2014), " <i>Patient-Provider Communication about Pain and Analgesics in the ED</i> ".
Andrey Bortsov, MD, PhD	Primary mentor for Dr. Bortsov's academic activities. Dr. Bortsov is a molecular epidemiologist with an interest in the pathogenesis of post-traumatic sequelae, and has won several recent awards for his work.
Sarah Linnstaedt, PhD	Primary mentor for Dr. Linnstaedt's academic activities. Dr. Linnstaedt is a miRNA biologist with an interest in the pathogenesis of post-traumatic sequelae. She recently received a 2014 <i>Future Leaders in Pain Research grant</i> , this award is given by the American Pain Society to two junior faculty in the US whose work is believed to have the greatest potential to advance the pain field.
LeKisha Edwards, PhD	Mentor on Dr. Edwards' two year diversity supplement 2010-2012, which provided her with 75% protected time.
Jennifer Naylor, PhD	Advisor on Dr. Naylor's funded VA merit award 2012-2016, <i>Neurosteroids as Novel Therapeutic Agents for Chronic Pain in OEF/OIF Veterans</i> .
Anesthesiology Faculty	Frequent mentorship for UNC Department of Anesthesiology faculty regarding design and conduct of their faculty research and QI projects.

Resident Mentees since 2009

Bilal Lateef	Primary mentor on research project resulting in abstract submission for 2014 American Pain Society conference, manuscript in development.
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Goonjan Shah	Primary mentor on research project resulting in poster presentation at 2014 <i>American Society of Anesthesiologists</i> annual meeting. Related manuscript in progress.
Muhammad Qadri	Primary mentor on research project resulting in oral presentation selected as "Best of Abstracts: Clinical Science" at 2012 <i>American Society of Anesthesiologists</i> annual meeting. Subsequent manuscript publication.
Gemma Lewis	Primary mentor on research project resulting in oral presentation in "Future Stars of Emergency Medicine" session at 2012 Society for Academic Emergency Medicine conference. Project also received UNC Emergency Medicine Residency award for "Most outstanding senior resident research project", subsequent manuscript publication.
Maggie Tomecka	Primary mentor 2010-2011 on independent research project leading to abstract and manuscript publication.
John Narron	Primary mentor 2009-2010 on independent research project leading to abstract and manuscript publications.
<i>Medical Student Mentees</i>	
Lori Jones	Primary Mentor 2015 Carolina Medical Student Research Program Grant, <i>Intensity and Severity of Acute Pain in African Americans experiencing Motor Vehicle Collision</i> .
Lauriane Auvergne	Primary Mentor on project, <i>Development of Postconcussive Symptoms after Motor Vehicle Collision</i> . Project proposal won the 2013 <i>Scott Neil Schwirck Fellowship</i> , awarded to one UNC medical student annually who submits an outstanding research proposal. Manuscript resulting from this award won the 2014 <i>Deborah C. Leary Award</i> . The Leary Award is presented to a fourth-year medical student whose research paper is judged by a faculty committee to be the best paper submitted.
Jacob Wang	Primary Mentor 2012-2013, MPH Master's Thesis, <i>Variation in acute pain outcomes after video-assisted thoracoscopic surgery</i> .
Nisha Verma	Primary Mentor 2012 Carolina Medical Student Research Program Grant, <i>The Association between Initial Neuropathic Pain Symptoms and Development of Chronic Pain and Chronic Itch in Hospitalized Burn Patients</i> . Subsequent poster presentation at the national meeting of the <i>American Pain Society</i> .
Collyn Murray	Primary Mentor 2012 Carolina Medical Student Research Program Grant, <i>Sexual Assault Survivor Experiences with Sexual Assault Nurse Examiner (SANE) Care and Health Services Utilization in the Weeks after Sexual Assault</i> . Subsequent poster presentation at national meeting of the <i>American Pain Society</i> .
Jennifer Smith	Primary Mentor, Doris Duke Fellowship Year 2011-2012. Ms. Smith managed study coordination for the BURN Experiences Trial, and presented abstract FKBP5 Polymorphism Predicts Peritraumatic Dissociation after Motor Vehicle Collision. Presented at the Annual Meeting of the Society of Biological Psychiatry, May 2012. <i>**Scored in the top 1% of all abstracts submitted to conference and received a Top Poster Finalist award.</i>
Omar Halawa	Primary Mentor, Doris Duke Fellowship Year 2009-2010. Mr. Halawa coordinated the BURN HELP Trial. Publications shown in bibliography section.

Post Baccalaureate Mentees

Adeola Keku	Primary mentor for Ms. Keku. Obtained an NIH Diversity Supplement 2015-2016 to help Ms. Keku advance her career goals.
Marie Ashley J. Villard	Primary mentor for Ms. Villard. Obtained an NIH Diversity Supplement 2014-2015 to help Ms. Villard advance her career goals. Ms. Villard authored several abstracts for the <i>American Pain Society</i> annual meeting, and gained acceptance to the Medical College of Wisconsin Medical School.
Rose Feinberg, MPH	Primary mentor on research project resulting in second place award for “best psychosocial abstract” at 2014 annual meeting of American Pain Society. (Ms. Feinberg was a UNC MPH student at the time.)
Ana Bermudez	Primary Mentor for Ms. Bermudez. Obtained an NIH Diversity Supplement 2014-2015 to help Ms. Bermudez advance her career goals. Ms. Bermudez authored several abstracts for the <i>American Pain Society</i> annual meeting, and gained acceptance to UNC Medical School.
Ryan Adasme	Primary mentor for Mr. Adasme. Obtained an NIH Diversity Supplement 2012-2013 to help Mr. Adasme advance his career goals. Mr. Adasme presented several abstracts at the <i>American Pain Society</i> and other meetings, and gained acceptance to the UNC Occupational Therapy Program.
Jacob Ulirsch	Primary academic mentor 2011-2013 while Mr. Ulirsch worked as a staff member in my research program. Multiple abstract and manuscript publications. Subsequently hired into a lab program at the Broad Institute of MIT and Harvard, Boston, MA.
Lauren Ballina	Primary academic mentor 2010-2013 while Ms. Ballina worked as a staff member in my research program. Multiple abstract and manuscript publications. Subsequent acceptance into graduate school.
Danielle Orrey	Primary academic mentor while working as staff member in my research program 2009-2012. Subsequent acceptance to UNC Medical School.
Brandon Roane	Primary academic mentor while working as a staff member in my research program 2009-2010. Multiple abstract and manuscript publications, subsequent admission into UNC SOM.

Undergraduate Mentees

Claire Pauley	Primary Mentor for Ms. Pauley’s 2014 Summer Undergraduate Research Fellowship (SURF), <i>Ethnic differences of PTSD symptoms development after a major thermal burn injury</i> .
Young Min Lee	Primary academic mentor 2009-2012 while Mr. Lee was an undergraduate working as a staff member in the research program. Multiple abstracts and papers, now attending Vanderbilt University School of Medicine.
Caitlin Wright	Primary Mentor for Ms. Wright’s 2009 Summer Undergraduate Research Fellowship (SURF), <i>Association between Neuropeptide Y Polymorphism and Minor Motor Vehicle Sequelae</i> . Subsequent admission to University of Washington master's degree program in genetic counseling.

Individual Lectures

Recurring course lectures

- 2010- One or two lectures annually to UNC Department of Anesthesiology Pain Fellows and Faculty on a topic of interest related to pain pathophysiology or research.
- 2012, 2014 Lecture to UNC Department of Emergency Medicine Residents regarding pain pathophysiology and the optimal management of pain conditions in the emergency department.
- 2015- UNC Gillings School of Public Health, Department of Maternal and Child Health Section 1, Course 890 *Gender-Based Violence*, “Mechanisms of Pain and Somatic Symptom Development among Sexual Assault Survivors”, September 16, 2015, October 12, 2016.

Local invited lectures (last 2 years only)

- 2015 UNC T32 Trauma Program Research Conference, *Understanding the biology of pain to improve recovery after trauma exposure*, May 7, 2015.
- 2015 Judith Tintinalli Distinguished Lecturer in Research, 11th Annual University of North Carolina Department of Emergency Medicine Research Day, April 8th, 2015.
- 2014 “The Development of Chronic Pain after Non-Operative Trauma/Stress Exposure.” Pain, Addiction and the Law: A regional CME conference sponsored by the Duke and UNC Departments of Anesthesiology. Chapel Hill, North Carolina, May 2-4, 2014.

Regional invited lectures (last 2 years only)

- 2015 “Neurobiological Stress Systems Impact the Transition from Acute to Chronic Pain: What is the Evidence and What Can We Do About It?” The 28th Annual Carolina Refresher Course, Kiawah Island, SC, June 27, 2015.
- 2015 “Discovery Followed by Dismay: Why Are Most Major Research Studies Failing to Replicate?” The 28th Annual Carolina Refresher Course, Kiawah Island, SC, June 27, 2015.

National invited lecture

- 2016 The AURORA Study: understanding biological mechanisms of stress-related disorders, One Mind for Brain Research, Napa Valley, CA, 9/29/16.
- 2016 Symposium speaker, Stress-Induced Persistent Pain: Mechanistic Insights from Humans and Animals” Thursday, Annual Meeting of the American Pain Society, Austin, TX, 5/12/2016.
- 2015 Duke University Department of Emergency Medicine Grand Rounds, May 28, 2015, Durham, NC.
- 2015 Brown University Department of Emergency Medicine Grand Rounds, Providence, Rhode Island, February 11, 2015.
- 2014 Indiana University Department of Emergency Medicine Grand Rounds, Indianapolis, IN, September 18, 2014.
- 2014 Harvard Medical School Annual Emergency Medicine CME Course Emergency Medicine into the 21st Century: “Tips to Minimizing Pain in Your ED”, Boston, MA, September 13, 2014.
- 2014 University of Florida Department of Emergency Medicine Grand Rounds, Jacksonville, FL, June 19, 2014.
- 2014 Saint Joseph Mercy Hospital Department of Emergency Medicine, Ann Arbor, MI, January 23, 2014.

- 2013 University of Cincinnati Department of Emergency Medicine Grand Rounds, Cincinnati, Ohio, August 28, 2013.
- 2013 Harvard Affiliated Emergency Medicine Residency Program Grand Rounds, Massachusetts General Hospital, Boston, MA, November 19, 2013.
- 2012 United States Army Institute for Surgical Research Grand Rounds, Fort Sam Houston, TX, November 28, 2012.
- 2012 Boston University Department of Emergency Medicine Grand Rounds, Boston Medical Center, Boston, MA, September 17, 2012.
- 2011 Northwestern University Feinberg School of Medicine, Chicago, IL January 21, 2011.

International invited lectures

- 2015 Invited Symposium Speaker, *Using genetic and molecular biological approaches to evaluate whiplash-associated disorder as a stress-related illness*, 9th Congress of the European Pain Federation, Vienna, Austria, September 4, 2015.
- 2015 Invited Speaker, McGill University School of Medicine, *Pathogenesis of pain and psychological sequelae after trauma exposure*. June 4, 2015.
- 2015 Keynote speaker, Conference on Transition from Acute to Chronic Pain, University of Western Ontario, London, Ontario, March 25-26, 2015.
- 2014 Keynote lecture, Dutch International Congress on Insurance Medicine, Almere, Netherlands, November 6, 2014.
- 2014 Keynote Speaker, International Association for the Study of Pain 12th Research Symposium, Aarhus, Denmark, March 22, 2014.
- 2012 Symposium Speaker, 14th World Congress on Pain, International Association for the Study of Pain, Milan, Italy, August 29, 2012.
- 2011 International Symposia on Whiplash, Brisbane, Australia, (International Symposia of 20 thought leaders sponsored by Australian Center of National Research on Disability and Rehabilitation), multiple presentations, February, 2011.
- 2010 Symposium Speaker, British Pain Society Annual Meeting, London, England.

Clinical Emergency Medicine Teaching

2008- 3-4 emergency department shifts per month in UNC emergency department, providing patient care and supervising residents and medical students. Aggregate review ratings are provided in below table (above mean in all areas except one, where at the mean). Complete listing of qualitative comments provided by residents is also provided below.

Aggregate resident reviews (Each question on 1-5 rating scale.)	All Faculty Mean (SD)	McLean Mean (SD)
Responsive to patients & families' questions, concerns and needs	4.50 (.64)	4.54 (.51)
Supervision and leadership	4.46 (.70)	4.46 (.65)
Fund of knowledge	4.56 (.60)	4.69 (.47)
Supervision for level of training	4.48 (.65)	4.50 (.58)
Respect for residents, staff, consultants and patients	4.51 (.68)	4.54 (.51)
Availability	4.49 (.67)	4.54 (.58)
Resource utilization	4.51 (.64)	4.62 (.50)
Patient presentation	4.51 (.64)	4.65 (.49)
Evidence based medicine and problem-solving	4.50 (.64)	4.62 (.50)
Overall	4.51 (.65)	4.62 (.50)

Complete listing of resident qualitative comments 07/01/2010 to 10/08/2014
Hilarious. Great teacher. Cares for residents.
Wish I worked with him more often--very interested in teaching and easy to learn from.
Limited exposure but great experience working with him.
Excellent teacher and very fun to work with.
Great attending to work with! Too bad we can't work with him more!!
Very enjoyable to work with and very engaged in the patient care.

7) Grants

Current

1. TITLE: Longitudinal Assessment of Posttraumatic Syndromes (The AURORA Study)
Grant Type (or Number): U01MH110925
Grant Amount: \$21,009,788
Funding Agencies: NIMH
Grant Period: 2016-2020
Grant Status: PENDING
Organizing PI: Samuel McLean (35% Effort)
2. TITLE: Influence of PTSD Symptoms on Chronic Pain Development after Sexual Assault
Grant Type (or Number): R01AR064700
Grant Amount: \$3,666,880
Funding Agencies: NIAMS, NINDS, OD, NINR, NIMH, NICHD
Grant Period: 2014-2019
Grant Status: AWARDED
Principal Investigator: Samuel McLean (20% Effort)

3. TITLE: Applying the Biopsychosocial Model to Post-MVC Pain Development in African Americans
 Grant Type (or Number): R01AR060852
 Grant Amount: \$3,515,869
 Funding Agency: NIAMS
 Grant Period: 2011-2016
 Grant Status: AWARDED
 Principal Investigator: Samuel McLean (20% Effort)

4. TITLE: Supplement to R01AR064700
 Grant Type (or Number): Family-run Foundation
 Grant Amount: \$170,301
 Funding Agency: Mayday
 Grant Period: 2014-2017
 Grant Status: AWARDED
 Principal Investigators: Samuel McLean and Sarah Linnstaedt

5. TITLE: Diversity Supplement to R01AR060852
 Grant Type (or Number): 3R01AR060852-04S1
 Grant Amount: \$59,903
 Funding Agency: NIAMS
 Grant Period: 2016-2017
 Grant Status: AWARDED
 Principal Investigator: Samuel McLean (0% Effort)
 Funded individual: Byron Maltez

6. TITLE: Pain Management using Mobile Technology in Veterans with PTSD and TBI
 Grant Type (or Number): R34 AT008399
 Funding Agency: NCCAM
 Grant Period: 2014-2017
 Grant Status: AWARDED
 Principal Investigator: Eric Elbogen (McLean Co-I)

7. TITLE: Development and Validation of a Screening Protocol to Identify Elder Abuse in United States
 Emergency Departments
 Grant Type (or Number): 2015-IJ-CX-0022
 Funding Agency: National Institute of Justice
 Grant Period: 09/01/16-08/31/18
 Grant Status: AWARDED
 Principal Investigator: Platts-Mills (McLean Co-I)

Completed

1. TITLE: Phase IIB Randomized Controlled Trial to Prevent Chronic Pain after MVC
 Grant Type (or Number): Family-run Foundation
 Grant Amount: \$241,753
 Funding Agency: Mayday
 Grant Period: 2010-2015
 Grant Status: AWARDED
 Principal Investigator: Samuel McLean (0% Effort)

2. TITLE: Diversity Supplement to R01AR060852
Grant Type (or Number): 3R01AR060852-04S1
Grant Amount: \$57,893
Funding Agency: NIAMS
Grant Period: 2013-2014
Grant Status: AWARDED
Principal Investigator: Samuel McLean (0% Effort)
Funded individual: Adeola Keku
3. TITLE: Diversity Supplement to R01AR060852
Grant Type (or Number): 3R01AR060852-04S1
Grant Amount: \$61,472
Funding Agency: NIAMS
Grant Period: 2013-2014
Grant Status: AWARDED
Principal Investigator: Samuel McLean (0% Effort)
Funded individual: Marie Ashley J. Villard
4. TITLE: Diversity Supplement to R01AR060852
Grant Type (or Number): AR060852-03S1
Grant Amount: \$54,410
Funding Agency: NIAMS
Grant Period: 2013-2014
Grant Status: AWARDED
Principal Investigator: Samuel McLean (0% Effort)
Funded individual: Ana Bermudez
5. TITLE: Genetic predictors of acute and chronic musculoskeletal pain after minor MVC
Grant Type (or Number): R01AR056328
Grant Amount: \$2,551,312
Funding Agency: NIAMS
Grant Period: 2008-2013
Grant Status: AWARDED
Principal Investigator: Samuel McLean (20% Effort)
6. TITLE: Diversity Supplement to R01AR060852
Grant Type (or Number): R01AR060852 - 01A1W1
Grant Amount: \$54,410
Funding Agency: NIAMS
Grant Period: 2012-2013
Grant Status: AWARDED
Principal Investigator: Samuel McLean (0% Effort)
Funded individual: Ryan Adasme
7. TITLE: Diversity Supplement to R01AR056328
Grant Type (or Number): R01AR056328
Grant Amount: \$212,657
Funding Agency: NIAMS
Grant Period: 2010-2012
Grant Status: AWARDED
Principal Investigator: Samuel McLean (0% Effort)
Funded individual: LeKisha Edwards

8. TITLE: Women's Health Study
Grant Type (or Number): UNC Intramural
Grant Amount: \$50,000
Funding Agency: NC TraCs
Grant Period: 2009-2010
Grant Status: AWARDED
Principal Investigator: Samuel McLean (0%)
9. TITLE: CTRC: The BURN HELP Trial
Grant Type (or Number): 09-0681
Grant Amount: \$10,000 annual support
Funding Agency: UNC CTRC
Grant Period: 2009-2010
Grant Status: AWARDED
Principal Investigator: Samuel McLean (0% Effort)
10. TITLE: Development of Chronic Pain After Motor Vehicle Trauma
Grant Type (or Number): K23 KAR050410A
Grant Amount: \$593,750
Funding Agency: NIH
Grant Period: 2006-2009
Grant Status: AWARDED
Principal Investigator: Samuel McLean (75% Effort)
11. TITLE: Development of Chronic Pain After Motor Vehicle Trauma
Grant Type (or Number): University of Michigan GCRC Intramural
Grant Amount: \$19,996
Funding Agency: University of Michigan GCRC
Grant Period: 2005-2007
Grant Status: AWARDED
Principal Investigator: Samuel McLean (75% Effort)
12. TITLE: Development of Chronic Pain After Motor Vehicle Trauma
Grant Type (or Number): K12 RR017607-01
Grant Amount: \$100,000
Funding Agency: University of Michigan K12 Program
Grant Period: 2005-2006
Grant Status: AWARDED
Principal Investigator: David Schteingart
Role: K12 recipient (75% Effort)
11. TITLE: Occupational Injuries: Workplace Events & Outcomes
Grant Type (or Number): T42/CCT510428-08
Grant Amount: \$18,730 direct costs
Funding Agency: NIOSH
Grant Period: 2002
Grant Status: AWARDED
Principal Investigator: Samuel McLean

8) Professional Service

Committees

NIH Study Sections (National Committees)

- 2016 Invited participant, Developing the Framework for a Comprehensive and Evidence-Based ACTION-APS-AAPM Pain Taxonomy for Acute Pain, Washington, DC, April 27-29, 2016.
- 2016 Temporary Committee Member, National Institute of Health CSR Study Section: Behavioral Medicine Interventions and Outcomes (BMIO), San Deigo, CA, February 1-2, 2016.
- 2014 Temporary Committee Member, National Institute of Complementary and Alternative Medicine, ZAT1 PK(29) NCCAM P01 Centers review panel, "Centers of Excellence for Research on CAM", first stage reviewer, February 2014.
- 2013 Ad Hoc Reviewer, National Institute of Health CSR Study Section: Neurological, Aging and Musculoskeletal Epidemiology (NAME), (Phone in reviewer for February 2013 meeting).
- 2013 Temporary Committee Member, National Institute of Complementary and Alternative Medicine, ZAT1 SM28, "Centers of Excellence for Research on CAM", January 16-18, 2013.
- 2011 Temporary Committee Member, National Institute of Health CSR Study Section: Neurological, Aging and Musculoskeletal Epidemiology (NAME), Santa Monica, CA, June 2-3, 2011.
- 2007 Ad Hoc Reviewer, National Institute of Health CSR Study Section: Psychosocial Risk and Disease Prevention (Phone in reviewer).
- 2006 Ad Hoc Reviewer, National Institute of Health CSR Study Section: Psychosocial Risk and Disease Prevention (Phone in reviewer).

Local Committees

- 2016 Search committee member, University of North Carolina Office of Sponsored Research Director of Research
- 2015- University of North Carolina Office of Sponsored Research Faculty Advisory Committee. This faculty committee advises the University Office of Sponsored Research on methods to improve research oversight and management at the University of North Carolina.
- 2014 Ad hoc grant reviewer, Gillings Innovation Labs Grant, UNC School of Public Health.
- 2013- Resident QI mentorship committee. Provide ongoing mentorship for 10-12 teams of UNC residents who conduct a year-long quality improvement project each year.
- 2012- IT committee, UNC Department of Anesthesiology. This committee assists with IT-related planning and strategy in the department.
- 2011- Faculty Recruitment Committee, UNC Department of Anesthesiology
- 2009- Chair, UNC Department of Anesthesiology Research Financial Allocations Committee. This committee reviews grant proposals, provides suggestions, and approves departmental research funds for research projects performed by department faculty.
- 2009- Academic Performance Review Committee, UNC Department of Anesthesiology. This committee provides an annual evaluation of academic performance of department faculty.
- 2009- Executive Leadership Committee, UNC Department of Anesthesiology
- 2011-12 Chair, IT Manager Search Committee, UNC Department of Anesthesiology

- 2010 Chair, Department Epidemiologist Search Committee, UNC Department of Anesthesiology
- 2010 Chair, Department Psychologist Search Committee, UNC Department of Anesthesiology

Other contributions to specialty

- 2014 Organized and Conducted Pain component of Society for Academic Emergency Medicine Annual Consensus Conference, *Gender-Specific Research in Emergency Care: Investigate, Understand, and Translate How Gender Affects Patient Outcomes*, May 13, 2014, Dallas, TX.

Journal Reviewer (last 2 years only)

Pain, Pain Medicine, The Journal of Pain, The Clinical Journal of Pain, Biological Psychiatry

Industry and Consultant Positions

- 2008-2009 Chief Medical Officer, Algynomics, Inc. (concurrent with academic appointment)
- 2007-2009 Consultant, Algynomics, Inc. (concurrent with academic appointment)

Quality Improvement

- 2015 Yellow Belt certification
- 2015 Blue Belt certification