Curriculum Vitae

Name:	Stephen P. Bruehl
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Work Email:	stephen.bruehl@Vanderbilt.Edu

Training

1985	B.S. from Belmont University, TN United States
1991	M.A. from University of Kentucky, KY United States
1994	Ph.D. from University of Kentucky, KY United States
1993 - 1994	Internship in Clinical Psychology Pre-Doctoral Internship from University of Mississippi Medical Center, Jackson, MS

Licensure and Certification

2000 - Present	State of Tennessee Licensure as a Psychologist (Health Service provider). of Tennessee United States

Academic Appointments

10/2000 - 06/2005	Assistant Professor, Vanderbilt University (Nashville, Tennessee)
07/2005 - 06/2011	Associate Professor of Anesthesiology, Vanderbilt University (Nashville, Tennessee)
07/2011 - Present	Professor of Anesthesiology, Vanderbilt University (Nashville, Tennessee)

Other Work Experience

1994 - 1996	Assistant Professor, Rush Medical College
1996 - 2000	Assistant Professor, Northwestern University Medical School
2001 - 2005	Assistant Professor, Vanderbilt University School of Medicine
2005 - Present	Associate Professor, Vanderbilt University School of Medicine

Professional Organizations

1997	American Pain Society, Member
1998	International Association for the Study of Pain, Member
2011	Association of University Anesthesiologists

Professional Activities

Extramural

1993 - 1993	Society of Behavioral Medicine, Reviewer for conference proposals
1994 - 1994	International Society for Traumatic Stress, Reviewer for conference proposals
1996 - 1996	Fourth International Congress of Behavioral Medicine, Paper Session CHairperson
1998 - 2001	National Complex Regional Pain Syndrome Research Consortium, Co-Founder and Co-Director
1998 - 1998	Department of Psychology, McGill University, Quebec, Canada, External reviewer on dissertation committee
1998 - 1998	National Institute of Environmental Health Sciences, National Institutes of Health, Bethesda, MD, Study section member
1999 - 1999	Center for Scientific Review, National Institutes of Health, Bethesda, MD, Study section member, FFA for end-of-life issues
1999 - Present	Editorial Board for Clinical Journal of Pain

2001 - 2001	CRPS Advisory Panel on Neuromodulation, Medtronic, Inc, Minneapolis, MN, Member
2001 - 2001	Society of Behavioral Medicine, Reviewer for conference proposals
2001 - 2001	RSD/CRPS Scientific Panel, National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, MD, Invited Panel Member
2002 - 2002	Society of Behavioral Medicine, Reviewer for conference proposals
2002 - 2002	American Psychological Association (Division 38), Reviewer for conference proposals
2003 - Present	Scientific Advisory Committee, Reflex Sympathetic Dystrophy Syndrome Association, Milford CT, Member
2003 - Present	International Association for the Study of Pain Taxonomy Committee, Pain and the Sympathetic Nervous System
2004 - Present	Associate Editor for Journal of Behavioral Medicine
2005 - Present	International Validation project for CRPS Diagnostic Criteria (U.S., Israel, Germany, The Netherlands), Co-Director
2005 - Present	Center for Scientific Review, National Institutes of Health, Bethesda, MD, Ad-hoc study section member
2005 - 2005	International Delphi Project to Determine Diagnostic Criteria for Complex Regional Pain Syndrome, University of Zurich, Switzerland, Invited member
2005 - 2006	Scientific Program Committee for Annual Meetings, American Pain Society, San Antonio, TX
2005 - Present	Ph.D. Dissertation of Ashley Frew, Murdoch University, Perth, Australia, Invited Examiner
2005 - Present	Associate Editor for Pain
2008 - Present	Ph.D. Thesis by Marissa de Mos, Department of Medical Informatics, Epidemiology, and Biostatistics, Erasmus University Medical Center, Rotterdam, The Netherlands, Invited expert reviewer
2008 - Present	"Trauma Related Neuronal Dysfunction", (TREND) Research Consortium, Amsterdam, The Netherlands (PI: Roberto SGM Prez, Ph.D.) Project: Complex Regional Pain Syndrome Type I: Interobserver Reliability Using the Budapest Criteria, Invited member
2009 - 2009	"Complex Regional Pain Syndrome", appearing on the scientific program "Catalyst" on Australian Public Television (ABC TV; Contact: Anja Taylor)
2009 - 2009	Special Emphasis Panel/Scientific Review Group 2010/01 ZDA1 GXM-A (08), National Institute on Drug Abuse, National Institutes of Health, Bethesda, MD, Member
2009 - 2009	German Research Roundation, Deutsche Forschungsgemeinschaft; Equivalent of the National Institites of Health
2009 - 2009	Special Emphasis Panel/Scientific Review Gorup 2009/10 ZRG1 BBBP-J (58) R, Center for Scientific Review, National Institutes of Health, Bethesda, MD, Member

Research Supervision / Mentorship

2004 - 2006	Indu Taneja, M.D., Postdoctoral Student, M.D. Vanderbilt University School of Medicine, Current Position: Postdoctoal Student, Department of Pharmacology. (Faculty, Research)
2004 - 2006	Laura Diedrich, M.D., Postdoctoral Student, M.D. Department of Anesthesiology, Vanderbilt University School of Medicine. (Faculty, Research)
2005 - 2007	Elizabeth Miller, Undergraduate Belmont University, Current Position: Psychology Student. (Faculty, Research)
2005 - 2008	James Goodlad, Undergraduate Belmont University, Current Position: Undergraduate Psychology Student. (Faculty, Research)
2005 - 2009	Sara Elizabieth Williams, Clinical Psychology, Ph.D. Student, Ph.D. Department of Psychology, Peabody/Vanderbilt University, Current Position: Clinical Psychology Ph.D. (Major Area APaper and Dissertation Committtee Member, Research Mentor. (Faculty, Research)
2006 - 2006	Tricia Ann Lipani, Clinical Psychology Ph.D. Student, Ph.D. Department of Psychology, Peabody/Vanderbilt University (Disseration Committee Member), Current Position: Ph.D. Student, Department of Psychology. (Faculty, Research)
2006 - 2008	Lynette Marie Dufton, Clinical Psychology Ph.D. Student, Ph.D. Peabody/Vanderbilt University (Major Area Paper Committee Member and Dissertation Committee Member), Current Position: Ph.D Student Department of Psychology. (Faculty, Research)

2006 - 2008	Julia Anderson, M.D., Clinical Fellow, M.D. Current Position: Clinical Fellow, Pediatric Gastroenterology (Research Preceptor). (Faculty, Research)
2006 - 2009	Martina Puzanovova, M.D., Research Fellow, M.D. Vanderbilt University, Current Position: Research Fellow in Adolescent Medicine, Masters of Public Health Student (Member of Research Memtor Committee). (Faculty, Research)
2006 - 2011	Elizabeth Stringer, Ph.D. student, Ph.D. Vanderbilt University School of Medicine, Current Position: Ph.D. Student in Neuroscience. (Faculty, Research)
2007 - Present	Rajnish Gupta, M.D., M.D. Vanderbilt University School of Medicine, Current Position: Assistant Professor of Anesthesiology and Associate Director of Acute Pain Service (Research Mentor). (Faculty, Research)
2007 - 2010	Phillip Quartana, Postdoctoral Fellow Johns-Hopkins University School of Medicine (Research Mentor), formerly Clinical Psychology Ph.D. Student, Department of Psychology, Rosalind Franklin University of Medicine and Science, Chicago, IL, Current Position: Postdoctoral Fellow, Department of Psychiatry and Behavioral Sciences,. (Faculty, Research)
2008 - Present	Patrick Henson, M.D., M.D. Vanderbilt University School of Medicine, Current Position: Assistant Professor of Anesthesiology. (Faculty, Research)
2009 - 2010	Puneet Mishra, Medical Student, Vanderbilt University School of Medicine, Current Position: Medical Student (Research Project Mentor). (Faculty, Research)
2009 - 2011	Christine Dengler-Crish, Ph.D., Ph.D. Vanderbilt University Medical Center, Current Position: Postdoctoral Research Fellow in Adolescent Medicine (Research Mentor). (Faculty, Research)

Grants and Funding

R01-DA039522 Hobfoll/Burns (PI) 08/15 - 05/20
NIH/NIDA
Development of co-morbid PTSD and chronic pain among inner-city women
Role: Co-Investigator
Total Cost: $2,000,000.00

R01-NS038145 1999 - 2004
NIH/NINDS
Pain regulatory system dysfunction in chronic pain
Role: Principal Investigator
Total Cost: $600,000.00

R01-NS046694 2004 - 2009
NIH/NINDS
Pain regulatory dysfunction in chronic pain
Role: Principal Investigator
Total Cost: $900,000.00

Grant number unavailable 2005 - 2006
Reflex Sympathetic Dystrophy Syndrome Association :::
Validation of new CRPS/RSD diagnostic criteria
Role: Co-Principal Investigator
Total Cost: $50,000.00

R01-MH071260 2005 - 2009
NIH/NIMH
Anger expression, endogenous opioids, and acute pain
Role: Co-Principal Investigator
Total Cost: $600,000.00

R01-NS050578 2006 - 2010
NIH/NINDS
Anger expression, opioid dysfunction, and chronic pain
Role: Principal Investigator

Total Cost: $900,000.00

Grant number unavailable 2007 - 2008
VA
Pain in primary care at the Veterans Health Administration: exploratory study of the implementation of pain as the Fifth Vital Sign
Role: Co-Investigator
Total Cost: $50,000.00

R01-HD232264 2007 - 2012
NIH/NICHD
Developmental outcomes of pediatric chronic abdominal pain
Role: Co-Investigator
Total Cost: $1,400,000.00

R01-DA031726 Bruehl/Burns (PI) 09/2011 - 05/2016
NIH/NIDA
Predictors of opioid analgesic responses and common endogenous opioid mechanisms
Role: Co-Principal Investigator
Total Cost: $2,867,023.00

R01-HD076983 Walker (PI) 05/2014 - 03/2019
NIH/NICHD
Predicting treatment response in pediatric functional abdominal pain
Role: Co-Investigator
Total Cost: $1,500,000.00

R21-AG045735 Monroe/Cowan (PI) 07/2014 - 06/2016
NIH/NIA
Age-related differences in psychophysical and neurobiological response to pain
Role: Co-Investigator
Total Cost: $350,000.00

1R01-DA037891 Bruehl/Burns (PI) 04/2015 - 03/2019
NIH/NIDA
Reduced opioid analgesic requirements via improved endogenous opioid function
Role: Co-Principal Investigator
Total Cost: $2,653,126.00

MR130082 Van de Ven (PI) 01/2016 - 01/2019
DoD
VIPER II: Chronic Pain after Amputation
Role: Co-Investigator
Total Cost: $1,000,000.00

Grant number unavailable Bruehl (PI) 07/2016 - 06/2017
Reflex Sympathetic Dystrophy Syndrome Association
An exploratory study of genetic, epigenetic, proteomic, metabolomic, and gene expression-related factors in CRPS
Role: Principal Investigator
Total Cost: $56,812.00

Honors / Awards

N/A

2007	Pittinger Award for Excellence in Basic and Clinical Science Related to Anesthesiology, Department of Anesthesiology, Vanderbilt University School of Medicine.

Publications

Peer Reviewed Publications

Research Articles

1. McCubbin, JA, Wilson, JF, **Bruehl, S**, Brady, M, Clark, K, Kort, E. Gender effects on blood pressures obtained during an on-campus screening. Psychosom Med 1991; 53(1) PMID: 2011652.
2. **Bruehl, S**, Carlson, CR. Predisposing psychological factors in the development of reflex sympathetic dystrophy. A review of the empirical evidence. Clin J Pain 1992; 8(4) PMID: 1493340.
3. **Bruehl, S**, Carlson, CR, McCubbin, JA. The relationship between pain sensitivity and blood pressure in normotensives. Pain 1992; 48(3) PMID: 1594268.
4. **Bruehl, S**, Carlson, CR, McCubbin, JA. Two brief interventions for acute pain. Pain 1993; 54(1) PMID: 8378100.
5. Ibarra, P, **Bruehl, SP**, McCubbin, JA, Carlson, CR, Wilson, JF, Norton, JA, Montgomery, TB. An unusual reaction to opioid blockade with naltrexone in a case of post-traumatic stress disorder. J Trauma Stress 1994; 7(2) PMID: 8012749.
6. McCubbin, JA, **Bruehl, S**. Do endogenous opioids mediate the relationship between blood pressure and pain sensitivity in normotensives. Pain 1994; 57(1) PMID: 8065798.
7. **Bruehl, S**, McCubbin, JA, Wilson, JF, Montgomery, T, Ibarra, P, Carlson, CR. Coping styles, opioid blockade, and cardiovascular response to stress. J Behav Med 1994; 17(1) PMID: 8201610.
8. Andrykowski, MA, **Bruehl, S**, Brady, MJ, Henslee-Downey, PJ. Physical and psychosocial status of adults one-year after bone marrow transplantation: a prospective study. Bone Marrow Transplant 1995; 15(6) PMID: 7581078.
9. **Bruehl, S**, Lubenow, TR, Nath, H, Ivankovich, O. Validation of thermography in the diagnosis of reflex sympathetic dystrophy. Clin J Pain 1996; 12(4) PMID: 8969877.
10. Barkin, RL, Lubenow, TR, **Bruehl, S**, Husfeldt, B, Ivankovich, O, Barkin, SJ. Management of chronic pain. Part I. Dis Mon 1996; 42(7) PMID: 8706590.
11. **Bruehl, S**, McCubbin, JA, Carlson, CR, Wilson, JF, Norton, JA, Colclough, G, Brady, MJ, Sherman, JJ. The psychobiology of hostility: possible endogenous opioid mechanisms. Int J Behav Med 1996; 3(2) PMID: 16250761.
12. Barkin, RL, Lubenow, TR, **Bruehl, S**, Husfeldt, B, Ivankovich, O, Barkin, SJ. Management of chronic pain. Part II. Dis Mon 1996; 42(8) PMID: 8757198.
13. **Bruehl, S**, Carlson, CR, Wilson, JF, Norton, JA, Colclough, G, Brady, MJ, Sherman, JJ, McCubbin, JA. Psychological coping with acute pain: an examination of the role of endogenous opioid mechanisms. J Behav Med 1996; 19(2) PMID: 9132506.
14. **Bruehl, S**, Husfeldt, B, Lubenow, TR, Nath, H, Ivankovich, AD. Psychological differences between reflex sympathetic dystrophy and non-RSD chronic pain patients. Pain 1996; 67(1) PMID: 8895237.
15. McCubbin, JA, Wilson, JF, **Bruehl, S**, Ibarra, P, Carlson, CR, Norton, JA, Colclough, GW. Relaxation training and opioid inhibition of blood pressure response to stress. J Consult Clin Psychol 1996; 64(3) PMID: 8698954.
16. Harden, R.N., **Bruehl, S**., Siegler, J., & Cole, P.A. Pain, psychological status, and functional recovery in chronic pain patients on daily opioids: A case comparison. Journal of Back and Musculoskeletal Rehabilitation 1997; 9.
17. Phillips, ME, **Bruehl, S**, Harden, RN. Work-related post-traumatic stress disorder: use of exposure therapy in work-simulation activities. Am J Occup Ther 1997; 51(8) PMID: 9279441.
18. **Bruehl, S**., Lofland, K.R., Sherman, J.J., & Carlson, C.R. The Variable Responding Scale for detection of response bias on the Multidimensional Pain Inventory. Psychological Assessment 1998; 10.
19. McCubbin, JA, **Bruehl, S**, Wilson, JF, Sherman, JJ, Norton, JA, Colclough, G. Endogenous opioids inhibit ambulatory blood pressure during naturally occurring stress. Psychosom Med 1998; 60(2) PMID: 9560874.
20. **Bruehl, S**, Burns, JW, McCubbin, JA. Altered cardiovascular/pain regulatory relationships in chronic pain. Int J Behav Med 1998; 5(1) PMID: 16250716.
21. Galer, BS, **Bruehl, S**, Harden, RN. IASP diagnostic criteria for complex regional pain syndrome: a preliminary empirical validation study. International Association for the Study of Pain. Clin J Pain 1998; 14(1) PMID: 9535313.

22. **Bruehl, S**, McCubbin, JA, Harden, RN. Theoretical review: altered pain regulatory systems in chronic pain. Neurosci Biobehav Rev 1999; 23(6) PMID: 10541062.

23. Harden, RN, **Bruehl, S**, Galer, BS, Saltz, S, Bertram, M, Backonja, M, Gayles, R, Rudin, N, Bhugra, MK, Stanton-Hicks, M. Complex regional pain syndrome: are the IASP diagnostic criteria valid and sufficiently comprehensive. Pain 1999; 83(2) PMID: 10534592.

24. **Bruehl, S**, Lofland, KR, Semenchuk, EM, Rokicki, LA, Penzien, DB. Use of cluster analysis to validate IHS diagnostic criteria for migraine and tension-type headache. Headache 1999; 39(3) PMID: 15613212.

25. **Bruehl, S**, Harden, RN, Galer, BS, Saltz, S, Bertram, M, Backonja, M, Gayles, R, Rudin, N, Bhugra, MK, Stanton-Hicks, M. External validation of IASP diagnostic criteria for Complex Regional Pain Syndrome and proposed research diagnostic criteria. International Association for the Study of Pain. Pain 1999; 81(1-2) PMID: 10353502.

26. Harden, RN, **Bruehl, SP**, Gass, S, Niemiec, C, Barbick, B. Signs and symptoms of the myofascial pain syndrome: a national survey of pain management providers. Clin J Pain 2000; 16(1) PMID: 10741820.

27. Deisinger, JA, Cassisi, JE, Lofland, KR, Cole, P, **Bruehl, S**. An examination of the psychometric structure of the Multidimensional Pain Inventory. J Clin Psychol 2001; 57(6) PMID: 11344464.

28. Harden, RN, **Bruehl, S**. Conducting clinical trials to establish drug efficacy in chronic pain. Am J Phys Med Rehabil 2001; 80(7) PMID: 11421526.

29. Burns, JW, Kubilus, A, **Bruehl, S**, Harden, RN. A fourth empirically derived cluster of chronic pain patients based on the multidimensional pain inventory: evidence for repression within the dysfunctional group. J Consult Clin Psychol 2001; 69(4) PMID: 11550732.

30. Rokicki, LA, Semenchuk, EM, **Bruehl, S**, Lofland, KR, Houle, TT. An examination of the validity of the IHS classification system for migraine and tension-type headache in the college student population. Headache 2001; 39(10) PMID: 11279948.

31. Stanton-Hicks, MD, Burton, AW, **Bruehl, SP**, Carr, DB, Harden, RN, Hassenbusch, SJ, Lubenow, TR, Oakley, JC, Racz, GB, Raj, PP, Rauck, RL, Rezai, AR. An updated interdisciplinary clinical pathway for CRPS: report of an expert panel. Pain Pract 2002; 2(1) PMID: 17134466.

32. **Bruehl, S**, Harden, RN, Galer, BS, Saltz, S, Backonja, M, Stanton-Hicks, M. Complex regional pain syndrome: are there distinct subtypes and sequential stages of the syndrome. Pain 2002; 95(1-2) PMID: 11790474.

33. **Bruehl, S**, Burns, JW, Chung, OY, Ward, P, Johnson, B. Anger and pain sensitivity in chronic low back pain patients and pain-free controls: the role of endogenous opioids. Pain 2002; 99(1-2) PMID: 12237200.

34. **Bruehl, S**, Chung, OY, Ward, P, Johnson, B, McCubbin, JA. The relationship between resting blood pressure and acute pain sensitivity in healthy normotensives and chronic back pain sufferers: the effects of opioid blockade. Pain 2002; 100(1-2) PMID: 12435472.

35. Harden, RN, **Bruehl, S**, Stanos, S, Brander, V, Chung, OY, Saltz, S, Adams, A, Stulberg, SD. Prospective examination of pain-related and psychological predictors of CRPS-like phenomena following total knee arthroplasty: a preliminary study. Pain 2003; 106(3) PMID: 14659522.

36. Brander, VA, Stulberg, SD, Adams, AD, Harden, RN, **Bruehl, S**, Stanos, SP, Houle, T. Predicting total knee replacement pain: a prospective, observational study. Clin Orthop Relat Res 2003; (416) PMID: 14646737.

37. Burns, JW, Kubilus, A, **Bruehl, S**, Harden, RN, Lofland, K. Do changes in cognitive factors influence outcome following multidisciplinary treatment for chronic pain? A cross-lagged panel analysis. J Consult Clin Psychol 2003; 71(1) PMID: 12602428.

38. Yung Chung, O, **Bruehl, SP**. Complex Regional Pain Syndrome. Curr Treat Options Neurol 2003; 5(6) PMID: 14516527.

39. **Bruehl, S**, Chung, OY, Burns, JW, Biridepalli, S. The association between anger expression and chronic pain intensity: evidence for partial mediation by endogenous opioid dysfunction. Pain 2003; 106(3) PMID: 14659514.

40. Burns, JW, Glenn, B, **Bruehl, S**, Harden, RN, Lofland, K. Cognitive factors influence outcome following multidisciplinary chronic pain treatment: a replication and extension of a cross-lagged panel analysis. Behav Res Ther 2003; 41(10) PMID: 12971938.

41. **Bruehl, S**, Chung, OY, Burns, JW. Differential effects of expressive anger regulation on chronic pain intensity in CRPS and non-CRPS limb pain patients. Pain 2003; 104(3) PMID: 12927637.

42. Burns, JW, Kubilus, A, **Bruehl, S**. Emotion induction moderates effects of anger management style on acute pain sensitivity. Pain 2003; 106(1-2) PMID: 14581117.

43. Burns, JW, **Bruehl, S**, Caceres, C. Anger management style, blood pressure reactivity, and acute pain sensitivity: evidence for "Trait x Situation" models. Ann Behav Med 2004; 27(3) PMID: 15184095.

44. Taneja, I, **Bruehl, S**, Robertson, D. Effect of modafinil on acute pain: a randomized double-blind crossover study. J Clin Pharmacol 2004; 44(12) PMID: 15545315.

45. Harden, RN, Rudin, NJ, **Bruehl, S**, Kee, W, Parikh, DK, Kooch, J, Duc, T, Gracely, RH. Increased systemic catecholamines in complex regional pain syndrome and relationship to psychological factors: a pilot study. Anesth Analg 2004; 99(5) PMID: 15502052.

46. **Bruehl, S**, Chung, OY. Interactions between the cardiovascular and pain regulatory systems: an updated review of mechanisms and possible alterations in chronic pain. Neurosci Biobehav Rev 2004; 28(4) PMID: 15341037.

47. Beltrutti, D, Lamberto, A, Barolat, G, **Bruehl, SP**, Doleys, D, Krames, E, Meglio, M, North, R, Olson, K, Reig, E, Simpson, B, Turk, D, Aronoff, G, Melzack, R. The psychological assessment of candidates for spinal cord stimulation for chronic pain management. Pain Pract 2004; 4(3) PMID: 17173602.

48. **Bruehl, S**, Chung, OY, Ward, P, Johnson, B. Endogenous opioids and chronic pain intensity: interactions with level of disability. Clin J Pain 2004; 20(5) PMID: 15322434.

49. Burns, JW, **Bruehl, S**. Anger management style, opioid analgesic use, and chronic pain severity: a test of the opioid-deficit hypothesis. J Behav Med 2005; 28(6) PMID: 16320097.

50. **Bruehl, S**, France, CR, France, J, Harju, A, al''Absi, M. How accurate are parental chronic pain histories provided by offspring. Pain 2005; 115(3) PMID: 15911166.

51. Burton, AW, **Bruehl, S**, Harden, RN. Current diagnosis and therapy of complex regional pain syndrome: refining diagnostic criteria and therapeutic options. Expert Rev Neurother 2005; 5(5) PMID: 16162088.

52. **Bruehl, S**, Chung, OY, Jirjis, JN, Biridepalli, S. Prevalence of clinical hypertension in patients with chronic pain compared to nonpain general medical patients. Clin J Pain 2005; 21(2) PMID: 15722808.

53. Burns, JW, Glenn, B, Lofland, K, **Bruehl, S**, Harden, RN. Stages of change in readiness to adopt a self-management approach to chronic pain: the moderating role of early-treatment stage progression in predicting outcome. Pain 2005; 115(3) PMID: 15911159.

54. **Bruehl, S**, Chung, OY, Burns, JW. Anger expression and pain: an overview of findings and possible mechanisms. J Behav Med 2006; 29(6) PMID: 16807797.

55. **Bruehl, S**, Chung, OY. Parental history of chronic pain may be associated with impairments in endogenous opioid analgesic systems. Pain 2006; 124(3) PMID: 16725261.

56. Burns, JW, **Bruehl, S**, Quartana, PJ. Anger management style and hostility among patients with chronic pain: effects on symptom-specific physiological reactivity during anger- and sadness-recall interviews. Psychosom Med 2006; 68(5) PMID: 17012534.

57. Harden, RN, **Bruehl, SP**. Diagnosis of complex regional pain syndrome: signs, symptoms, and new empirically derived diagnostic criteria. Clin J Pain 2006; 22(5) PMID: 16772794.

58. **Bruehl, S**, Chung, OY, Donahue, BS, Burns, JW. Anger regulation style, postoperative pain, and relationship to the A118G mu opioid receptor gene polymorphism: a preliminary study. J Behav Med 2006; 29(2) PMID: 16400534.

59. **Bruehl, S**. Comprehensive pain programs: a treatment approach worth validating. J Pain 2006; 7(11) PMID: 17074617.

60. **Bruehl, S**, Chung, OY. Psychological and behavioral aspects of complex regional pain syndrome management. Clin J Pain 2006; 22(5) PMID: 16772797.

61. **Bruehl, S**, Chung, OY, Burns, JW. Trait anger and blood pressure recovery following acute pain: evidence for opioid-mediated effects. Int J Behav Med 2006; 13(2) PMID: 16712431.

62. Burns, JW, Quartana, PJ, **Bruehl, S**. Anger management style moderates effects of emotion suppression during initial stress on pain and cardiovascular responses during subsequent pain-induction. Ann Behav Med 2007; 34(2) PMID: 17927554.

63. **Bruehl, S**, Chung, OY. How common is complex regional pain syndrome-Type I. Pain 2007; 129(1-2) PMID: 17379409.

64. Harden, RN, **Bruehl, S**, Stanton-Hicks, M, Wilson, PR. Proposed new diagnostic criteria for complex regional pain syndrome. Pain Med 2007; 8(4) PMID: 17610454.

65. **Bruehl, S**, Chung, OY, Burns, JW, Diedrich, L. Trait anger expressiveness and pain-induced beta-endorphin release: support for the opioid dysfunction hypothesis. Pain 2007; 130(3) PMID: 17197088 PMCID: 2680320.

66. **Bruehl, S**, al''Absi, M, France, CR, France, J, Harju, A, Burns, JW, Chung, OY. Anger management style and endogenous opioid function: is gender a moderator. J Behav Med 2007; 30(3) PMID: 17410417.

67. **Bruehl, S**, Chung, OY, Burns, JW. The mu opioid receptor A118G gene polymorphism moderates effects of trait anger-out on acute pain sensitivity. Pain 2008; 139(2) PMID: 18579306 PMCID: 2614266.

68. Chung, OY, **Bruehl, S**, Diedrich, L, Diedrich, A, Chont, M, Robertson, D. Baroreflex sensitivity associated hypoalgesia in healthy states is altered by chronic pain. Pain 2008; 138(1) PMID: 18164819.

69. Chung, OY, **Bruehl, S**, Diedrich, L, Diedrich, A. The impact of blood pressure and baroreflex sensitivity on wind-up. Anesth Analg 2008; 107(3) PMID: 18713923.

70. **Bruehl, S**, Burns, JW, Chung, OY, Quartana, P. Anger management style and emotional reactivity to noxious stimuli among chronic pain patients and healthy controls: the role of endogenous opioids. Health Psychol 2008; 27(2) PMID: 18377139.

71. **Bruehl, S**, Chung, OY, Diedrich, L, Diedrich, A, Robertson, D. The relationship between resting blood pressure and acute pain sensitivity: effects of chronic pain and alpha-2 adrenergic blockade. J Behav Med 2008; 31(1) PMID: 17940860.

72. Burns, JW, Holly, A, Quartana, P, Wolff, B, Gray, E, **Bruehl, S**. Trait anger management style moderates effects of actual ("state") anger regulation on symptom-specific reactivity and recovery among chronic low back pain patients. Psychosom Med 2008; 70(8) PMID: 18725429.

73. Burns, JW, Quartana, PJ, **Bruehl, S**. Anger inhibition and pain: conceptualizations, evidence and new directions. J Behav Med 2008; 31(3) PMID: 18498056.

74. Wolff, B, Burns, JW, Quartana, PJ, Lofland, K, **Bruehl, S**, Chung, OY. Pain catastrophizing, physiological indexes, and chronic pain severity: tests of mediation and moderation models. J Behav Med 2008; 31(2) PMID: 18158618.

75. Anderson, JL, Acra, S, **Bruehl, S**, Walker, LS. Relation between clinical symptoms and experimental visceral hypersensitivity in pediatric patients with functional abdominal pain. J Pediatr Gastroenterol Nutr 2008; 47(3) PMID: 18728527.

76. Burns, JW, Quartana, PJ, **Bruehl, S**. Anger Management Style Moderates Effects of Attention Strategy During Acute Pain Induction on Physiological Responses to Subsequent Mental Stress and Recovery: A Comparison of Chronic Pain Patients and Healthy Nonpatients. Psychosom Med 2009; PMID: 19251875.

77. **Bruehl S**, Burns JW, Chung OY, Chont M. Pain-related effects of trait anger expression: neural substrates and the role of endogenous opioid mechanisms. Neuroscience and biobehavioral reviews 2009 Mar;33(3):475-491. PMID: 19146872 PMCID: PMC2756489.

78. **Bruehl S**. Complex regional pain syndrome: outcomes and subtypes. The Clinical journal of pain 2009 Sep;25(7):598-9. PMID: 19692801.

79. Williams SE, Smith CA, **Bruehl SP**, Gigante J, Walker LS. Medical evaluation of children with chronic abdominal pain: impact of diagnosis, physician practice orientation, and maternal trait anxiety on mothers' responses to the evaluation. Pain 2009 Dec;146(3):283-292. PMID: 19767148 PMCID: PMC2783280.

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Non-Peer Reviewed Publications

Research Articles

1. Logan DE, Williams SE, Carullo VP, Claar RL, **Bruehl S**, Berde CB. Children and adolescents with complex regional pain syndrome: more psychologically distressed than other children in pain?. Pain research & management : the journal of the Canadian Pain Society = journal de la societe canadienne pour le traitement de la douleur 18(2):87-93. PMID: 23662291.
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Presentations

Other

1. Third International Conference on Mechanisms and Treatment of Neuropathic Pain; 2000 Jun; Complex Regional Pain Syndrome.
2. International Association for the Study of Pain Research Symposium 2000; 2000 Oct; Do Psychological Factors Play a Role in the Onset and Maintenance of CRPS?.
3. International Association for the Study of Pain Research Symposium 2000; 2000 Oct; An Empirical Approach to Modifying IASP Diagnostic Criteria for CRPS.
4. Annual Meetings of the American Academy of Physical Medicine and Rehabilitation; 2000 Nov; Complex Regional Pain Syndrome.
5. Expert Panel, Medtronic Corporation; 2001 Aug; Patient Selection for Neuromodulation.
6. National Institutes of Health Workshop; 2001 Dec; Behavioral Studies of RSD.
7. Annual Meetings of the American Pain Society; 2002 Mar; Psychological and Behavioral Aspects of CRPS Management.