

CURRICULUM VITAE

Angela Renee Starkweather, Ph.D., ACNP-BC, CNRN, FAAN

Professor & Director, Center for Advancement in Managing Pain

University of Connecticut School of Nursing

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EDUCATION

Institution	Degree	Major	Date
Washington State University	Postdoc	Oncology Nursing	2006
Loyola University Chicago	PhD	Biobehavioral Nursing	2005
Loyola University Chicago	MSN	Trauma/Critical Care	2000
Seattle Pacific University	BSN	Nursing	1996

LICENSURE

Commonwealth of Virginia, RN #0001210865, Acute Care Nurse Practitioner #0024167918

Acute Care Nurse Practitioner, American Nurses Credentialing Center, 2000-Present

Certified Neuroscience Nurse, American Board of Neuroscience Nurses, 2003-Present

PROFESSIONAL EXPERIENCE

Academic Experience

Institution	Position	Date
School of Nursing University of Connecticut Storrs, CT	Professor Director, Center for Advancement of Managing Pain (CAMP)	2015-Present
School of Nursing Virginia Commonwealth University Richmond, VA	Department Chair Associate Professor (tenured and promoted 2012) AGACNP Coordinator	2013-2015 2012-2015
College of Nursing Washington State University Spokane, WA	Assistant Professor Assistant Professor	2008-2012 2004-2008

Clinical Experience

Institution	Position	Date
Virginia Commonwealth University Chippenham Medical Center	ACNP-VCU Drug/Alcohol Studies ACNP-Emergency Department	2014-2015 2013-2014
LivingWell Health Solutions People's Clinic, Spokane, WA	ACNP ACNP	2010-2012 2004-2008
Holy Family Hospital, Spokane, WA	RN, ICU	2005-2008
Loyola University Medical Center	ACNP-Neurosurgery	2000-2004

Loyola University Medical Center	RN, Trauma-Surgical ICU/ED	1997-2000
Harborview Medical Center	RN, Trauma/Med-Surg	1996-1997
Virginia Mason Medical Center	RN, Neuro/Nephrology	1996-1997

Other Experience

Institution	Position	Date
National Institute of Nursing Research National Institutes of Health Bethesda, MA	Pain Methodologies Boot Camp	2010
Center for Women and Gender Studies College of Nursing University of Washington Seattle, WA	Research Fellow	2006
College of Nursing Oregon Health Sciences University Portland, OR	Summer Statistical Institute Fellow	2006

HONORS/AWARDS

Award/Honor	Date
Outstanding Faculty Mentor Award, Research Scholars Program	2014
Fellow of the American Academy of Nursing	2014
Future of Nursing Leadership Award, Virginia Nurses Association	2011
Distinguished Aging Column of the Year, AASCIN	2009
Outstanding Nurse Researcher, Inland Empire Nurses Association	2008
Outstanding Advanced Practice Nurse, Inland Empire Nurses Association	2008
Distinguished Article and Aging Column of the Year Award, AASCIN	2008
Graduate Teaching Excellence Award, Washington State University	2008
Graduate Mentorship Award, Washington State University	2008
Biological Nursing Research Award, Western Institute of Nursing	2005

PUBLICATIONS

Articles Published in Professional Journals

Note: [R] indicates peer reviewed; [I] indicates invited; [D] indicates data-based; [S] indicates student-mentored

Starkweather, A. R., Lyon, D. E., Kinser, P., Heineman, A., Sturgill, J. L., Deng, X., Siangphoe, U., Elswick, R. K., Greenspan, J., & Dorsey, S. G. (2015). Comparison of low back pain recovery and persistence: A descriptive study of characteristics at pain onset. *Biological Research for Nursing*, (In Press).

Starkweather, A. R., Heineman, A., Storey, S., Rubia, G., Lyon, D., Greenspan, J., & Dorsey, S. G. (2015). Methods to measure peripheral and central sensitization using quantitative sensory testing: A focus on individuals with low back pain. *Applied Nursing Research*, (In Press).

An, K., Jallo, N., Menzies, V., Kinser, P., Robins, J. L., & **Starkweather, A.** (2015). Integrative review of co-occurring symptoms across etiologies of chronic liver disease and implications for symptom management research and practice. *Journal of Nursing Scholarship*, 47(4), 310-317. PMID:26077958

Wright, M. L., & **Starkweather, A. R.** (2015). Antenatal microbiome: Potential contributor to fetal programming and establishment of the microbiome in offspring. *Nursing Research*, 64(4), 306-319. PMID:26035769

Starkweather, A. R., Coyne, P., Lyon, D. E., Elswick, R. K., An, K., Sturgill, J. (2014). Decreased pain intensity, pain sensitivity and differential expression of pain-sensitivity genes following Calmare for persistent low back pain. *Research in Nursing and Health*, 38(1), 29-38. PMID:25572279 [R]

An, K., **Starkweather, A. R.**, Sturgill, J., Kao, H. S. & Salyer, J. (2014). State of the science: salivary biomarker utilization for stress research. *Perspectives in Nursing Science*, 11(2), 87-93.

Szabo, C. M., Grap, M. J., Munro, C. L., **Starkweather, A.**, & Merchant, R. E. (2014). The effect of oral care on intracranial pressure in critically ill adults. *Journal of Neuroscience Nursing*, 46(6), 321-329. [R, S] PMID:25285596

Lyon, D., McCain, N., Elswick, R.K., Sturgill, J., Ameringer, S., Jallo, N., Menzies, V., Robins, J., **Starkweather, A.**, Walter, J., & Grap, M. J. (2014). Biobehavioral examination of fatigue across populations: Report from a P30 Center of Excellence. *Nursing Outlook*, 62(5), 322-331. [R] PMID:25218081

Menzies, V., Jallo, N., Kinser, P., Robins, J. W., An, K., Driscoll, C., **Starkweather, A. R.**, Bajaj, J., & Lyon, D. E. (2014). Shared symptoms and putative biological mechanisms in chronic liver disease: Implications for biobehavioral research. *Biological Research for Nursing*, 17(2), 222-229. [R] PMID:25037448

Montpetit, A., Alhaeeri, A., Montpetit, M., Brumelle, J., Filler, K., **Starkweather, A.**, Mohanraj, L., Lyon, D., & Jackson-Cook, C. Telomere length: A review of methods for measurement. *Nursing Research*, 63(4), 289-299. [R, S] PMID: 24977726

Lyon, D. E., **Starkweather, A. R.**, Montpetit, A. J., Menzies, V., & Jallo, N. A biobehavioral perspective on telomere length and the exposome. *Biological Research for Nursing*, 16(4), 448-455. [R] PMID:25199652

Starkweather, A. R., Alhaeeri, A., Montpetit, A., Brumelle, J., Filler, K., Montpetit, M., Mohanraj, L., Lyon, D., & Jackson-Cook, C. (2014). An integrative review of factors associated with telomere length and implications for biobehavioral research. *Nursing Research*, 63(1), 36-50. PMID: 24335912 [R, S]

- Subnis, U. B., **Starkweather, A. R.**, McCain, N. L., & Brown, R. F. (2013). Psychosocial therapies for patients with cancer: A current review of interventions using psychoneuroimmunology based outcome measures. *Integrative Cancer Therapies*, 63(1), 36-50. PMID:24105361 [R, S]
- Lyon, D. E., Elmore, L., Aboalela, N., Merrill-Schools, J., McCain, N., **Starkweather, A. R.**, Elswick, R. K. Jr, & Jackson-Cook, C. (2014). Potential epigenetic mechanism(s) associated with the persistence of psychoneurological symptoms in women receiving chemotherapy for breast cancer: A hypothesis. *Biological Research for Nursing*, 16(2), 160-74. PMID: 23585573 [R, D]
- Starkweather, A. R.** (2013). A power surge for chronic pain – Overview of a unique approach. *Advance for NPs and PAs*, 4(12), 1-5. [R]
- Starkweather, A. R.**, & Pair, V. E. (2013). Decoding the role of epigenetics and genomics in pain management. *Pain Management Nursing*, 14(4), 358-367. PMID: 24315259 [R]
- Starkweather, A. R.**, Lyon, D. E., Montpetit, A., Elswick, R. K. Jr., Conley, Y., & McCain, N. L. (2013). Symptom cluster research in women with breast cancer: A comparison of three subgrouping techniques. *Advances in Breast Cancer Research*, Article 2470038. [R, D]
- Starkweather, A. R.**, Lyon, D. E., Elswick, R. K. Jr., Montpetit, A. J., Conley, Y., & McCain, N. L. (2013). A conceptual model of psychoneurological symptom cluster variation in women with breast cancer: Bringing nursing research to personalized medicine. *Current Pharmacogenomics and Personalized Medicine*, 11(3), 224-230. [R]
- Starkweather, A. R.** (2013). Psychological and biological factors associated with fatigue in patients with persistent radiculopathy. *Pain Management Nursing*, 14(1), 41-49. PMID: 23452526 [R, D]
- Starkweather, A. R.** (2012). Getting straight on low back pain treatment. *American Nurse Today*, 7(10), 1-10. [R]
- Starkweather, A. R.**, Lyon, D. E., & Schubert, C. M. (2012). Pain and inflammation in women with early-stage breast cancer prior to induction of chemotherapy. *Biological Research for Nursing*, 15(2): 234-241. PMID: 22084403 [R, D]
- Starkweather, A. R.** (2011). Caregiver and family functioning of older adults with spinal cord injury: A review of the literature spanning the past decade. *International Journal of Trauma Nursing*, 18(2), 127-138. [R]
- Starkweather, A. R.**, Sherwood, P., Lyon, D. E., McCain, N. L., Bovbjerg, D., & Broaddus, W. C. (2011). A biobehavioral perspective on depressive symptoms in patients with a cerebral astrocytoma. *Journal of Neuroscience Nursing*, 43(1), 17-28. PMID: 21338041 [R]

- Lyon, D. E., Walter, J. M., **Starkweather, A. R.**, Schubert, C. M., & McCain, N. L. (2011). Tryptophan degradation in women with breast cancer. *BMC Research Notes*, 4, 156. PMID: 21615916 [R, D]
- Arango-Lasprilla, J. C., Ketchum, J. M., **Starkweather, A. R.**, Nicholls, E., & Wilk, A. R. (2011). Factors predicting depression among persons with spinal cord injury 1 to 5 years post injury. *Neurorehabilitation*, 29(1), 9-21. PMID: 21876291 [R, D]
- Starkweather, A. R.** (2010). Gate control in neuropathic pain: Using anticonvulsants to optimize pain relief. *Advance for Nurse Practitioners*, 9(1), 1-9. [R]
- Starkweather, A. R.** (2010). Improving patient-centered medical-surgical nursing practice with quality of life assessment. *Medical-Surgical Nursing*, 19(4):224-232. PMID: 20860248
- Starkweather, A. R.** (2010). Increased interleukin-6 activity in women with painful chemotherapy-induced peripheral neuropathy after breast cancer treatment. *Nursing Research & Practice*, Article ID 281531. PMID: 21994811 [R, D]
- Starkweather, A. R.** & Kardong-Edgren, S. (2008). Diffusion of innovation: Embedding simulation in nursing curricula. *International Journal of Nursing Education and Scholarship*, 5(1), Article 13. PMID: 18384271 [R]
- Kardong-Edgren, S., **Starkweather, A. R.**, & Ward, L. D. (2008). The integration of simulation into a clinical foundations of nursing course: Student and faculty perspectives. *International Journal of Nursing Education and Scholarship*, 5(1): Article 26. PMID: 18673294 [R, D, S]
- Starkweather, A. R.**, Witek-Janusek, L., Nockels, R. P., & Mathews, H. L. (2007). The multiple benefits of minimally-invasive surgery: Results comparing TLIF and PLF. *Journal of Neuroscience Nursing*, 40(1), 33-40. PMID: 18330408 [R, D]
- Starkweather, A. R.** (2007). Chronic pain after spinal cord injury: An overview of treatment options. *SCI Nursing*, 24(3): 18-25. [R]
- Starkweather, A. R.**, Witek-Janusek, L., Nockels, R. P., & Mathews, H. L. (2006). Immune function, pain and psychological distress in patients undergoing spinal surgery. *Spine*, 31(18): 341-346. PMID: 16915080 [R, D]
- Starkweather, A. R.** (2006). Posterior lumbar interbody fusion: An old concept with new techniques. *Journal of Neuroscience Nursing*, 38(1), 13-20. PMID: 16568809 [R]
- Starkweather, A. R.** (2006). Evaluation and management of low back pain: An algorithmic approach, Part 2. *American Journal of Nurse Practitioners*, 10(6), 10-25. [R]
- Starkweather, A. R.** (2006). Evaluation and management of low back pain: An algorithmic approach, Part 1. *American Journal of Nurse Practitioners*, 10 (5), 9-16. [R]

Starkweather, A. R. (2006). Radiculopathy, myelopathy, peripheral neuropathy: Can you detect the difference? *SCI Nursing*, 24, 11-16. [R]

Starkweather, A. R. (2006). The effects of exercise on psychological stress and IL-6 levels among older adults. *Biological Research for Nursing*, 8(3), 186-194. PMID: 17172317 [R, D]

Starkweather, A. R., Witek-Janusek, L., Nockels, R. P., & Mathews, H. L. (2006). The impact of psychological and immune factors in sciatic pain: A randomized controlled trial among herniated disc patients. *SCI Nursing*, 24, 20-26. [R, D]

Starkweather, A. R., Witek-Janusek, L., & Mathews, H. L. (2005). Applying the psychoneuroimmunology framework to nursing research. *Journal of Neuroscience Nursing*, 37, 56-61. PMID: 15794445

Starkweather, A. R., Witek-Janusek, L., & Mathews, H. L. (2005). Neural-immune interactions: Implications for pain management in patients with low-back pain and sciatica. *Biological Research for Nursing*, 6, 196-206. PMID: 15583360 [R]

Starkweather, A. (2005). Biological Nursing Research Award Paper: The lumbar surgery experience: A psychoneuroimmunology perspective. *Western Institute of Nursing Assembly Proceedings*, 38, 67-76. [R, D]

Books Authored, Coauthored or Edited

Starkweather, A. R. (2005). The effect of anti-depressant therapy on psychological stress and cytokines among herniated disc patients: Implications for quality of life. Proquest Dissertations and Theses, 246 pages [Dissertation].

Book Chapters

Starkweather, A. R. (2015). Disorders of circulation within the CNS (Chapter 17). In M. Sorenson, S. Frazier, & L Quinn (Eds.), *Pathophysiology: A case-based approach*. New York: Pearson.

Starkweather, A. R. (2015). Emergency room and telephonic communication (Chapter 6). In C. Dahlin, P. Coyne & B. Ferrell (Eds.), *Textbook of advanced practice palliative nursing*. London: Oxford University Press.

Starkweather, A. R. (2015). Pain (Chapter 28). In J. Giddens (Ed.), *Concepts for nursing practice*, 2nd ed. New York: Elsevier.

Starkweather, A. R. (2015). Pain (Chapter 51). In T. M. Capriotti & J. Frizzell (Eds.), *Human Pathophysiology: Introductory concepts and clinical perspectives*. Philadelphia: F. A. Davis.

- Starkweather, A. R.** (2015). Disorders of the musculoskeletal system (Chapter 36). In T. M. Capriotti & J. Frizzell (Eds.), *Human Pathophysiology: Introductory concepts and clinical perspectives*. Philadelphia: F. A. Davis.
- Starkweather, A. R.** (2014). Dementia (Ch. 7), In T. W. Barkley (Ed.), *Practice considerations for acute care nurse practitioners*, 3rd ed. West Hollywood, CA: Barkley and Associates.
- Starkweather, A. R.** (2014). Ectopic pregnancy and sexually transmitted infections (Ch. 69), In T. W. Barkley (Ed.), *Practice considerations for acute care nurse practitioners*, 3rd ed. West Hollywood, CA: Barkley and Associates.
- Starkweather, A. R.** (2013). Musculoskeletal disorders (Chapter 32). In S. M. Nettina (Ed.), *Lippincott Manual of Nursing Practice* (10th ed.). New York: Lippincott.
- Starkweather, A. R.** (2013). Neurological disorders (Chapter 15). In S. M. Nettina (Ed.), *Lippincott Manual of Nursing Practice* (10th ed.). New York: Lippincott.
- Starkweather, A. R.** (2008). Structure and function of the nervous system (Chapter 43). In L. E. Copstead & J. L. Banasik (Eds.), *Pathophysiology* (4th ed.). St. Louis, MI: Elsevier.
- Starkweather, A. R.** (2008). Neural-immune interactions: Implications for pain management in patients with low-back pain and sciatica. In M. D. Bindler, N. Hirokawa, U. Windhorst, & M. C. Hirst (Eds.), *Encyclopedia of Neuroscience & Neuroimmunology*. Heidelberg, Germany: Springer.
- Starkweather, A. R.** (2006). Neurological disease (Section 2, Chapter 4). In *End of Life: A Nurse's Guide to Compassionate Care*. New York: Lippincott, Williams & Wilkins.
- Starkweather, A. R.** (2003). A pattern for a nursing quilt. In C. Smelzer & F. Vlasses (Eds.) *Ordinary People, Extraordinary Lives: The Story of Nurses*. Indianapolis, IN: Sigma Theta Tau International.

Abstracts Published in Peer Reviewed Journals

- Lyon, D. E., **Starkweather, A. R.**, Jackson-Cook, C. (2012). Acquired chromosomal changes in lymphocytes are associated with cognitive dysfunction (CD) prior to chemotherapy in women with breast cancer (BC). *Council for the Advancement of Nursing Science*, Washington D. C.
- Starkweather, A. R.** (2012). The power of glia: Depressive symptoms and biomarkers of glial activation in patients with a primary malignant brain tumor. *Council for the Advancement of Nursing Science*, Washington D. C.
- Starkweather, A. R.** (2008). Is interleukin-6 trans-signaling associated with neuropathic pain? *Council for the Advancement of Nursing Science*, Washington D.C. *Abstract of Distinction

Starkweather, A. R. (2007). IL-6 trans-signaling in chronic neuropathic pain. *Pain Practitioner*, 7, 84.

RESEARCH

Funded Research

2013-2016: Principal Investigator, Pain Sensitivity in Low Back Pain. Funded by the National Institute of Nursing Research 1R01NR013932-01. Total costs: \$1,370,000. Project dates: 9/13-9/16.

2013-2014: Principal Investigator, Pain Sensitivity in Normal Health Controls. Funded by the VCU School of Nursing Internal Funds. Total costs: \$8000. Project dates: 9/13-12/14.

2012-2013: Principal Investigator, Pilot Randomized Trial of Calmare Therapy or Sham Treatment for Persistent Nonspecific Low Back Pain, Funded by the Virginia Commonwealth University School of Nursing Center for Biobehavioral Clinical Research. Total costs: \$10,000. Project dates: 3/13-7/13.

2011-2014: Project Co-director, Neurocognitive Impairment in Women with Early Stage Breast Cancer, funded by the National Institute of Nursing Research P30 NR011403 [M. J. Grap, Principal Investigator]. Total costs: \$2,600,000. Project dates: 5/11-5/2014.

2010-2015: Co-Investigator, Epigenetics and Psychoneurological Symptoms in Women with Breast Cancer, funded by the National Institute of Nursing Research R01NR012667 [D. E. Lyon & C. Jackson-Cook, Principal Investigators]. Total costs: \$3,400,000. Project dates: 9/10-9/15.

2010-2012: Principal Investigator, Glial Activation and Symptom Clusters in Brain Tumor Patients, funded by the Oncology Nursing Foundation/American Brain Tumor Association. Total costs: \$10,000. Project dates: 9/10-9/12.

2010-2012: Principal Investigator, Depressive Symptoms and Cytokines in Patients with a Primary Malignant Brain Tumor, funded by the American Nurses Foundation. Total costs: \$10,000. Project dates 9/10-8/12.

2007-2008: Principal Investigator, IL-6 Trans-signaling in Chemotherapy-induced Peripheral Neuropathy, funded by the Oncology Nursing Foundation. Total costs: \$20,000. Project dates 6/07-6/08.

2007-2008: Principal Investigator, Implementing Simulation in Undergraduate Nursing Education, funded by Washington State University Undergraduate Teaching and Learning Initiative. Total costs: \$20,000. Project dates 5/07-5/08.

2006-2007: Principal Investigator, IL-6 and IL-6 Receptor Levels in Chronic Neurogenic Pain,

funded by Washington State University Spokane Seed Grant. Total costs: \$10,000.
Project dates: 9/06-9/07.

2005-2006: Principal Investigator, The Effects of Exercise on Psychological Stress and Cytokines Among Geriatric Men and Women, funded by the Washington State University Hansen Grant. Total costs: \$2500. Project dates: 8/05-8/06.

2003-2004: Principal Investigator, The Effects of Anti-depressant Therapy on Psychological Stress and Cytokines Among Lumbar Herniated Disc Patients, funded by the American Association of Spinal Cord Injury Nurses, Neuroscience Nursing Foundation, Illinios Emergency Nurses Association, and Sigma Theta Tau Delta Chi. Total costs: \$25,000. Project dates: 1/03-8/04.

PRESENTATIONS

Selected International and National Presentations

- October 2015: Brown, R.F., Subnis, U.B., Wilson-Genderson, M., McCain, N.L., & Starkweather, A. R. A randomized trial of online expressive writing for stress management in post-radiation cancer survivors using psychoneuroimmunology based outcome measures. 13th Annual International Conference on Communication in Health Care, New Orleans, Louisiana.
- November 2014: *Genetic Variants, Depression and Anxiety in Individuals with Breast and Brain Cancer, Research Oncology: The Science of Symptoms*, World Congress on Nursing and Genomics, International Society for Nurses in Genetics, Scottsdale, Arizona
- September 2014: *Symposium: Complex Analyses for Complex Diseases and Populations: From Bench to Bedside and Back, Identifying the Biological Fingerprint of Symptom Clusters: Exemplars Using Inflammatory Biomarkers; Psychometric Evaluation of the PROMIS Fatigue-Short Form across Diverse Populations; Does Acupuncture Treatment Attenuate Impact of Stress in the Hemodynamic Responses and Pro-inflammatory Cytokine Production?*; 2014 State of the Science Congress on Nursing Research, Council for the Advancement of Nursing Science, Washington, DC
- May 2014: *Symptom Cluster Research: Promoting Personalized Symptom Management Strategies*, National Advisory Council for Nursing Research, National Institutes of Health, Bethesda, Maryland
- March 2014: *Depressive Symptoms and Tumor-Promoting Factors in Patients with a Cerebral Astrocytoma*, American Association of Neuroscience Nurses, Anaheim, California
- February 2014: *Scrambler Therapy for Low Back Pain: Results of a Double-Blinded Randomized Controlled Pilot Study*, Southern Nursing Research Society, San

Antonio, Texas
Epigenetics and the Exposome: Biobehavioral Research Interest Group,
Southern Nursing Research Society, San Antonio, Texas

September 2012: *The Power of Glia: Depressive Symptoms and Biomarkers of Glial Activation in Patients with a Primary Malignant Brain Tumor,* Council for the Advancement of Nursing Science, Washington D. C.

February 2012: *Depressive Symptoms and Cytokines and Patients with a Primary Brain Tumor,* Southern Nursing Research Society, New Orleans, Louisiana.

September 2010: *Pain and Inflammation in Women with Breast Cancer,* Council for the Advancement of Nursing Science, Washington D. C.

April 2010: *American Board of Neuroscience Nurses Role Delineation Study Results,* American Association of Neuroscience Nurses, Baltimore, Maryland.

February 2010: *Neuroscience Nursing Specialization and Certification,* American Board of Nursing Specialties Research Symposium, Baltimore, Maryland.

May 2009: *Neuroinflammation and Chronic Pain,* World Federation of Neuroscience Nurses, Toronto, Canada.

October 2008: *Is Interleukin-6 Trans-signaling Associated with Neuropathic Pain?,* Council for the Advancement of Nursing Science, Washington D.C.

August 2007: *Pain Syndromes in Spinal Cord Injury,* American Association of Spinal Cord Injury Nurses, Las Vegas, Nevada.

April 2007: *Neurological Exam – Let's Review,* American Association of Neuroscience Nurses, Orlando, Florida.

August 2006: *The Effects of Psychological Stress on Perioperative Immunity,* American Association of Spinal Cord Injury Nurses, Orlando, Florida.

April 2006: *The Effects of Exercise on Psychological Stress and IL-6 in Older Adults,* Western Institute of Nursing, Podium, Portland, Oregon.

July 2005: *Utilizing the Psychoneuroimmunology Framework Among Pain Populations,* Sigma Theta Tau International, Podium, Honolulu, Hawaii.

May 2005: *The Effects of Psychological Stress and Cytokines on Perceived Pain Among Lumbar Spondylosis Patients: Implications for Quality of Life,* World Federation of Neuroscience Nurses, Barcelona, Spain.

March 2005: *The Lumbar Surgery Experience: A Psychoneuroimmunology Perspective.*

Western Institute of Nursing, Phoenix Arizona.

Selected Regional Presentations

- April 2013: *Preceptor Roundtable: Enhancing Effectiveness to Improve Outcomes*, Virginia Council of Nurse Practitioners, Williamsburg, Virginia.
- April 2012: *Removing Fear and Frustration from Chronic Pain Management*, Virginia Council of Nurse Practitioners Annual Conference, Hot Springs, Virginia.
- July 2011: *Quality of Care Provided by Nurse Practitioners: Research Spanning the Past 40 Years*. Virginia Department of Health Professionals, Richmond, VA.
- May 2009: *Biological Interactions Involved in Depressive Symptoms and Disease Progression in Patients with a Primary Malignant Brain Tumor*, Microbiology Interest Group, Virginia Commonwealth University Massey Cancer Center, Richmond, Virginia.
- January 2007: *Strategies for Healthy Living*, Spokane Regional Retirement Center, Spokane, Washington.
- October 2006: *Evidence-based Nursing Practice*, Washington State University College of Nursing, Spokane, Washington.
- May 2005: *NCLEX Review Medical-surgical Nursing*, Washington State University College of Nursing, Spokane, Washington.

Selected Workshop Presentations

- April 2013: *Evaluating and Implementing Master's Essentials in the Curriculum*, National Organization of Nurse Practitioner Faculties, Pittsburgh, Pennsylvania.

Selected Poster Presentations

- September 2012: Lyon, D. E., McCain, N.L., Elmore, L., Elswick, R.K, **Starkweather, A. R.**, Jackson-Cook, C. Acquired chromosomal changes in lymphocytes are associated with cognitive dysfunction (CD) prior to chemotherapy in women with breast cancer (BC). Council for the Advancement of Nursing Science, Washington D. C.
- April 2011: Wilk, A. R., Ketchum, J. M., Arango-Lasprilla, J. C., Nicholls, E., & **Starkweather, A.** *Major depressive disorder 1 to 5 years post spinal cord injury*. VCU Graduate Research Symposium, Richmond, VA.

- February 2011: Lyon, D.E., Jackson-Cook, C., McCain, N.L., Elmore, L., Elswick, R.K., & **Starkweather, A.** *Case Study of Acquired Epigenetic Modifications (DNA Methylation), Proinflammatory Cytokines, and Psychoneurologic Symptoms (Depression, Fatigue and Pain) in Two Women Treated with Chemotherapy for Breast Cancer Compared with Age-Matched Controls*, 11th National Conference on Cancer Nursing Research, Los Angeles, CA.
- September 2010: Chuang, P., Fisher, A., Kuo, C. J., **Starkweather, A. R.**, & Sherwood, P. *Immune Function Related to Tumor Characteristics*, Council for the Advancement of Nursing Science, Washington D. C.
- May 2009: *Fractal Video Therapy-Induced Stress Reduction and Mood Enhancement in Patients with Spinal Cord Injury*, World Federation of Neuroscience Nurses, Toronto, Canada.
- June 2007: *IL-6 Trans-signaling in Chronic Neuropathic Pain*, World Institute of Pain, Hungary.
- May 2006: *Nurse Driven Standards of Unit Specific Knowledge*, National Teaching Institute, American Association of Critical-Care Nurses, Orlando, FL.

PROFESSIONAL SERVICE

Service on Expert Committee or Panel

- 2015-Present American Nurses Academy Genetic Expert Panel, Co-Chair
- 2015-Present National Institute of Nursing Research Genomics Workgroup
- 2014-Present American Association of Neuroscience Nursing Clinical Practice Guidelines Standing Expert Panel Member
- 2008-2012 American Association of Neuroscience Nursing Clinical Practice Guidelines Expert Panel; Chair, *Thoracolumbar Spine Surgery: A Guide to Preoperative and Postoperative Patient Care*. (2012). Glenview, IL: AANN.

Consultations

- 2012-Present Lippincott, Williams and Wilkins, Expert Consultant for Neuroscience Content (provided neuroscience nursing content for 13 evidence-based learning modules)
- 2009-2010 Advanced Practice Nursing Educational Taskforce, Chicago, Illinois
- 2007-Present Assessment Technologies Incorporated, Expert Consultant for Fundamentals of Nursing Practice (provided content for 14 evidence-based nursing modules)

Editor/Editorial Board of Professional Journal

- 2012-Present BMC Research Reviews
- 2008-Present Editorial Board, Spinal Cord Injury Medicine
- 2005-2007 Editorial Board, Spinal Cord Injury Nursing

Grant Reviewer

- 2014-Present National Institutes of Health Scientific Review Panel MESH (Biological Mechanisms of Emotion, Stress, and Health)
- 2014- Present American Nurses Foundation, Nursing Research Grants Program
- 2013- Present Center for Clinical and Translational Research, Pilot Study Grant Reviewer
- 2008- Present Neuroscience Nursing Foundation, Grant Reviewer

Manuscript Reviewer for Journals or Textbooks

2010-Present BMC Research Notes, Associate Editor and Reviewer
2009-Present Biological Research for Nursing, Research in Nursing and Health, International Journal of Nursing Education and Scholarship, Manuscript Reviewer
2009-2010 *Pathophysiology: Biological and Behavioral Perspectives* (Copstead & Banasik)
2009-2010 *Monitoring Technologies in Critically Ill Neuroscience Patients* (Littlejohns & Bader)

Officer/Board Member of National and/or International Organization

2006-2009 American Board of Neuroscience Nursing; President 2008-2009

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Pain Society, 2011-Present
 American Pain Society Ethics Committee 2012-Present
Sigma Theta Tau International, 1999-Present
 Sigma Theta Tau Gamma Omega Chapter Leadership Succession Chair 2012-Present
 Sigma Theta Tau Gamma Omega Chapter President 2009-2011
 Sigma Theta Tau Gamma Omega Chapter Governance Chair 2008-2009
National Organization of Nurse Practitioner Faculties, 2011-Present
 Acute Care Nurse Practitioner Special Interest Group, 2012-Present
Southern Nursing Research Society, 2011-Present
National League for Nursing, 2009-Present
Virginia Council of Nurse Practitioners, 2008-Present
 VCNP Richmond Region President 2012-2013; President-Elect 2011-2012
Council for the Advancement of Nursing Science, 2006-Present
Academy of Spinal Cord Injury Professionals, 2004-Present
World Federation of Neuroscience Nurses, 2000-Present
American Association of Neuroscience Nurses, 2000-Present

UNIVERSITY SERVICE

Committee	Participation	Date
<u>Virginia Commonwealth University</u>		
CCTR Endowment Research Fund	Member	2013-2015
University Grievance Panel	Member	2013-2014
University Council (Alternate)	Member	2012-2013
Assessment Quality Review Committee	Member	2012-2013
University Graduate Council	Member	2011-2014
Programs and Courses	Chair	2013-2014
Programs and Courses	Member	2011-2013
Year of the Environment Committee	Member	2009-2010
Sustainability Committee	Member	2009-2010

Virginia Commonwealth University Health Systems

Massey Cancer Center PRMS Cancer Prevention and Control (CPC) Subcommittee

	Member	2011-Present
Acute Pain Management Committee	Member	2009-Present
Chronic Pain Management Committee	Member	2009-Present
Council of Advanced Practice Nurses	Member	2009-Present

Virginia Commonwealth University School of Nursing

Clinical Education Committee	Member	2012-Present
Teaching Effectiveness & Evaluation Taskforce	Member	2010-2011
Policy Handbook Taskforce	Member	2010-2011
Master’s Program Committee	Chair	2012-2013
	Member,	2009-2011
Steering Committee	Member	2009-2014
Nominations Committee	Chair	2010-2011
	Member	2009-2010

Washington State University College of Nursing

DNP Planning Committee	Member	2006-2008
Ph.D. Oversight Committee	Member	2006-2008
Graduate Program Committee	Chair	2006-2008
	Member	2005-2007
Nominating Committee	Chair	2006-2007
Social Committee	Chair	2005-2006

TEACHING RESPONSIBILITIES

Semester Program	Course	Credits	Number of students	Number of lectures	Number of laboratory/ clinical contact hours	Evaluation (on 5pt scale)
Spring 2015 PhD	NURS 720 Foundations of Biobehavioral Nursing Research	3	15	15	-	4.9
	NURS	2	1	-	-	-
Fall 2014 PhD	NURS 797	2	2	-	-	-
Summer PhD	NURS 796 Directed Research	2	1	-	-	-
Spring 2014	NURS 663 Adult-Gerontology	3	34	15	-	4.7

MS	Acute Care					
PhD	NURS 797	3	1	-	-	-
Fall 2013	MPC Chair	-	-	-	-	-
Summer 2013 PhD	NURS 796 Directed Research Study	2 semester/ 3 quarter	2 students	-	0	-
Spring 2013 PhD	NURS 720 Foundations of Biobehavioral Clinical Research	3 semester/ 4.5 quarter	12 students	15	0	4.6
	NURS 796 Directed Research Study	2 semester/ 3 quarter	2 students	-	0	-
Fall 2012 MS PhD	NURS 679 Adv Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	8 students	4	135 hours	4.6
	NURS 796 Directed Research Study	2 semester/ 3 quarter	2 students	-	0	-
Summer 2012 MS PhD	NURS 679 Adv Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	8 students	4	135 hours	5.0
	NURS 796 Directed Research Study	2 semester/ 3 quarter	2 students	-	0	-
Spring 2012 BS MS	NURS 366 Pathopharmacology	3 semester/ 4.5 quarter	100 students	3	0	4.6
	NURS 663 Common Problems in Adult Acute Care	3 semester/ 4.5 quarter	30 students	15	0	4.4
	NURS 679 Adv Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	8 students	4	135 hours	5.0
PhD	NURS 721 Biobehavioral Methods	3 semester/ 4.5 quarter	3 students	2	0	4.5
Fall 2011 MS	NURS 661 Common Problems in Primary Care	4 sem/6 quar	33	15	0	4.3
	NURS 678 Adult Acute Clinical Practicum	3-6 sem/ 4.5-9 quar	5 students	4	135-270 hours	4.72

	NURS 679 Adv Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	6 students	4	135 hours	4.72
Summer 2011 MS	NURS 678 Adult Acute Clinical Practicum	3-7 sem/ 4.5-10.5 quar	7 students	4	135-315 hours	4.89
	NURS 679 Adv Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	1 student	4	135 hours	5
Spring 2011 MS	NURS 663 Common Problems in Adult Acute Care	3 semester/ 4.5 quarter	33 students	15	0	(4-point scale) 3.5
	NURS 679 Adv Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	8 students	4	135 hours	4.0
Fall 2010 MS	NURS 678 Adult Acute Clinical Practicum	3-6 sem/ 4.5-9 quar	6 students	4	135-270 hours	3.8
	NURS 679 Adv Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	2 students	4	135 hours	3.9
Summer 2010 MS	NURS 678 Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	8 students	4	135-270 hours	3.6
	NURS 679 Adv Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	1 student	4	135 hours	4.0
Spring 2010 MS	NURS 663 Common Problems in Adult Acute Care	3 semester/ 4.5 quarter	35 students	15	0	3.6
Fall 2009 MS	NURS 592 Directed Study in Nursing	3 semester/ 4.5 quarter	1 student	4	0	3.7
MS	NURS 678 Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	7 students	4	135-270 hours	3.9
MS	NURS 679 Adv Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	1 student	4	135 hours	4.0
Summer 2009	NURS 678 Adult Acute Clinical	3 semester/ 4.5 quarter	8 students	4	135-270 hours	3.8

MS	Practicum					
Spring 2009 MS	NURS 663 Common Problems in Adult Acute Care	3 semester/ 4.5 quarter	40 students	2	0	3.2
MS	NURS 679 Advanced Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	8 students	4	135 hours	3.7
Fall 2008 MS	NURS 678 Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	6 students	4	135 hours	3.5
MS	NURS 679 Advanced Adult Acute Clinical Practicum	3 semester/ 4.5 quarter	2 students	4	135 hours	3.7
Summer 2008 PhD	N576 Acute Biobehavioral Research Outcomes	3 semester/ 4.5 quarter	9 students	12	0	4.0
MSN	N567 Primary Care of Adults and Elders with Practicum	3 semester/ 4.5 quarter	48 students	12	135 hours	3.8
Spring 2008 BSN	N315 Nursing Practice: Health and Illness	4 semester/ 6 quarter	10 students	15	12/week (168 hours)	4.0
MSN	N562 Advanced Health Assessment	4 semester/ 6 quarter	30 students	2	8 hours	3.9
Fall 2007 MSN PhD	N563 Advanced Pharmacology	3 semester/ 4.5 quarter	48 students	2	8 hours	3.9
	N588 Research Inquiry: Quantitative Methods	3 semester/ 4.5 quarter	7 students	12	0	4.0
Summer 2007 PhD	N535 Epistemology	3 semester/ 4.5 quarter	9 students	12	0	3.8
MSN	N567 Primary Care of Adults and Elders with Practicum	3 semester/ 4.5 quarter	48 students	12	135 hours	3.2
Spring 2007 BSN	N315 Nursing Practice: Health and Illness	4 semester/ 6 quarter	10 students	15	12/week (168 hours)	4.0
MSN	N562 Advanced Health Assessment	4 semester/ 6 quarter	30 students	2	8 hours	3.9

Fall 2006 BSN	N315 Nursing Practice: Health and Illness	4 semester/ 6 quarter	10 students	15	12/week (168 hours)	3.8
MSN	N563 Advanced Pharmacology	3 semester/ 4.5 quarter	45 students	2	8 hours	3.7
Spring 2006 BSN	N315 Nursing Practice: Health and Illness	4 semester/ 6 quarter	10 students	15	12/week (168 hours)	3.8
MSN	N562 Advanced Health Assessment	4 semester/ 6 quarter	30 students	2	8 hours	3.5
Fall 2005 BSN	N315 Nursing Practice: Health and Illness	4 semester/ 6 quarter	10 students	15	12/week (168 hours)	3.6
MSN	N563 Advanced Pharmacology	3 semester/ 4.5 quarter	45 students	2	8 hours	3.8
Spring 2005 BSN	N315 Nursing Practice: Health and Illness	4 semester/ 6 quarter	10 students	15	12/week (168 hours)	3.4
Fall 2004 BSN	N315 Nursing Practice: Health and Illness	4 semester/ 6 quarter	10 students	15	12/week (168 hours)	3.0