

Curriculum Vitae

Joyce Ann Smith, PhD, RN, ANP

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Education

2013 PhD, Health Practice Research, University of Rochester, Rochester, NY
2008 MS, nursing (Adult Nurse Practitioner), University of Rochester, Rochester, NY
2005 BS, nursing, Cedar Crest College, Allentown, PA
2000 AAS, digital media, Warren County Community College, Washington, NJ
1988 MS, computer science, Loyola College, Baltimore, MD
1978 BS, biology and psychology, Loyola College, Baltimore, MD

Licenses and Certifications

ANP, New York, expires 9/2023
RN, New York, expires 9/2022

Professional Experience

2013-present Assistant Professor of Clinical Nursing, University of Rochester School of Nursing, Rochester, NY
2006-2013 Senior Information Analyst, University of Rochester School of Nursing, Rochester, NY
2005-2006 Staff nurse, Strong Memorial Hospital, Rochester, NY
1993-2005 Research Associate, University of Medicine and Dentistry of New Jersey, Newark, NJ
1985-1993 Research Associate, University of Maryland at Baltimore, Baltimore, MD
1980-1985 Research Assistant, Kennedy Institute, Baltimore, MD

Research Experience

Senior Information Analyst, "Age-17 Follow-up of Home Visiting Intervention", (50% effort), David L. Olds/Harriet Kitzman, PIs, [NIDA], 2008-2016.
Senior Information Analyst, "Determination of Usual/Customary Rates", (50% effort), Irena Pesis-Katz, PI, [New York State OAG], 2010-2011.
Consultant, "Numerical and Empirical Investigations of Automotive Related Aortic Injury", (20% effort), John H. Siegel, PI, [NHTSA], 2006-2010.
Co-Investigator/Project Coordinator, "Crash Injury Research and Engineering Network (CIREN) – New Jersey Trauma Center", (100% effort), John H. Siegel, PI, [NHTSA], 2000-2005.
Co-Investigator, "A Canine Model of Hypovolemic Oxygen Debt Shock", (50% effort), John H. Siegel, PI, [Somatogen, Inc.], 1993-2000.
Research Associate, "Insulin Resistance in Sepsis", (100% effort), Thomas C. Vary, PI, [NIGMS], 1986-1988.
Research Assistant, "Toxic Interaction of Trace Metals in Children", (100% effort), J. Julian Chisolm, PI, [National Center for Research Resources], 1980-1985.

Publications

Articles

- Pesis-Katz, I., Smith, J.A., DeVoe, J., Norsen, L., and Singh, R. Reducing cardiovascular disease risk for employees through participation in a wellness program. *Population Health Management* <https://doi.org/10.1089/pop.2019.0106> (2020).
- Kitzman, H., Olds, D.L., Knudtson, M.D., Cole, R., Anson, E., Smith, J.A., *et al.* Prenatal/infancy nurse home visiting and 18-Year outcomes of a randomized trial. *Pediatrics*, 144(6): e20183876. DOI: 10.1542/peds.2018-3876 (2019).
- Xue, Y., Smith, J.A., and Spetz, J. Distribution of primary care nurse practitioners and physicians in low-income and rural areas, 2010-2016. *JAMA*, 321(1):102-105. <https://doi.org/10.1001/jama.2018.17944> (2019).
- Holland, M.L., Groth, S.W., Smith, J.A., Meng, Y., and Kitman, H. Low birthweight in second children after nurse home visiting. *Journal of Perinatology*. <https://doi.org/10.1038/s41372-018-0222-8> (2018).
- Xue, Y., Brewer, C., Greener, E., Spetz, J., Smith, J.A., and Kannan, V. Federally qualified health centers reduce the primary care provider gap in health professional shortage counties. *Nursing Outlook*, 66:263-272. <https://doi.org/10.1016/j.outlook.2018.02.003> (2018).
- Xue, Y., Kannan, V., Greener, E., Smith, J.A., Brasch, J., Johnson, B.A., and Spetz, J. Full scope-of-practice regulation is associated with higher supply of nurse practitioners in rural and primary care health professional shortage counties. *Journal of Nursing Regulation*, 8(4): 5-13. DOI:10.1016/S2155-8256(17)30176-X (2018).
- Meng, Y., Groth, S.W., Stewart, P., and Smith, J.A. An exploration of the determinants of gestational weight gain in African American women; Genetic factors and energy expenditure. *Biological Research for Nursing*, 20(2):118-125. doi:10.1177/1099800417743326. (2017).
- Groth, S.W., Holland, M.L., Smith, J.A., Meng, Y., and Kitman, H. Effect of gestational weight gain and prepregnancy body mass index in adolescent mothers on weight and body mass index of adolescent offspring. *Journal of Adolescent Health*, 61: 626-633. <http://dx.doi.org/10.1016/j.jadohealth.2017.05.005>. (2017).
- Smith, J.A., Fuino, R.L., Pesis-Katz, I., Cai, X., Powers, B., Frazer, M., and Markman, J.D. Opioid prescribing in chronic low back pain patients with depression: A cross-sectional study of a national sample from the United States. *Pain Reports*, PR9 00 (2017) e606. <http://dx.doi.org/10.1097/PR9.0000000000000606> (2017).
- Enoch, M.-A., Kitman, H., Smith, J.A., Anson, E., Hodgkinson, C.A., Goldman, D., and Olds, D.L. A prospective cohort study of influences on internalizing and externalizing behaviors across childhood. *Journal of the American Academy of Child and Adolescent Psychiatry*, 55(5):376-382 (2016).
- Lowey, S.E., Smith, J.A., Xue, Y., and Powers, B.A. Opioid use in the last year of life among Medicare beneficiaries with advanced illnesses: A retrospective cohort study. *Journal of Hospice and Palliative Nursing*, 17(3): 242-248 (2015).
- Olds, D.L., Kitman, H., Knudtson, M.D., Anson, E., Smith, J.A., and Cole, R. Reduced maternal and child mortality following home visiting by nurses: Results of a two-decade follow-up of a randomized controlled trial. *JAMA Pediatrics*, 168(9): 800-806 (2014).
- Herendeen, P.A., Blevins, R., Anson, E., and Smith, J. Barriers to and consequences of mandated reporting of child abuse by nurse practitioners. *Journal of Pediatric Healthcare*, 28(1):e1-e7 (2014).
- Xue, Y., Smith, J., Freund, D.A., and Aiken, L.H. Supplemental nurses are just as educated, slightly less experienced, and more diverse compared to permanent nurses. *Health Affairs*, 31(11): 2510-2517 (2012).

- Smith, J.A., Wilde, M., & Brasch, J. Internet recruitment and retention for a 6 months' longitudinal study. *Journal of Nursing Scholarship*, 44(2): 165-170 (2012).
- Belwadi, A., Siegel, J.H., Singh, A., Smith, J.A., Yang, K.H., & King, A.I. Finite element aortic injury reconstruction of near side lateral impacts using real world crash data. *Journal of Biomechanical Engineering*, 134(1):011006 (2012).
- Siegel, J.H., Belwadi, A., Smith, J.A., Shah, C., & Yang, K. Analysis of the mechanism of lateral impact aortic isthmus disruption in real-life motor vehicle crashes using a computer-based finite element numeric model with simulation of prevention strategies. *Journal of Trauma-Injury Infection & Critical Care*, 68(6): 1375-1395 (2010).
- Wilde, M.H., Brasch, J., Getliffe, K., Brown, K.A., McMahon, J.M., Smith, J.A., Anson, E.A., Tang, W., & Tu, X. Study on the use of long-term urinary catheters in community-dwelling individuals. *Journal of Wound, Ostomy and Continence Nursing*, 37:301-310 (2010).
- Siegel, J.H., Yang, K.H., Smith, J.A., Siddiqi, S.Q., Shah, C., Maddali, M., and Hardy, W. Computer simulation and validation of the Archimedes lever hypothesis as a mechanism for aortic isthmus disruption in a case of lateral impact motor vehicle crash: a Crash Injury Research Engineering Network (CIREN) study. *Journal of Trauma-Injury Infection & Critical Care*, 60(5):1072-1082 (2006).
- Smith, J.A., Siegel, J.H., and Siddiqi, S.Q. Spine and spinal cord injury in motor vehicle crashes: A function of change in velocity and energy dissipation on impact with respect to the direction of crash. *Journal of Trauma-Injury Infection & Critical Care*, 59(1):117-131 (2005).
- Siegel, J.H., Smith, J.A., and Siddiqi, S.Q. Change in velocity and energy dissipation on impact in motor vehicle crashes as a function of the direction of crash: Key Factors in the production of thoracic aortic injuries, their pattern of associated injuries and patient survival. *Journal of Trauma-Injury Infection & Critical Care*, 57(4):760-778 (2004).
- Siegel, J.H., Fabian, M., Smith, J.A., Kingston, E.P., Steele, K.A., and Wells, M.R. Oxygen debt criteria quantify the effectiveness of early partial resuscitation after hypovolemic hemorrhagic shock. *Journal of Trauma-Injury Infection & Critical Care*. 54(5):862-880 (2003).
- Siegel, J.H., Smith, J.A., Tenenbaum, N., McCammon, L., Siddiqi, S., Presswalla, B., Pierre-Louis, P., Williams, A.W., Zaretski, L.L., Hutchins, K.D., Perez, L., Shaikh, J., and Natarajan, G. Deceleration energy and change in velocity on impact: Key factors in fatal versus potentially survivable motor vehicle crash (MVC) aortic injuries (AI): The role of associated injuries as determinants of outcome. *Annual Proceedings/Association for the Advancement of Automotive Medicine*. 46:315-338 (2002).
- Siegel, J.H., Fabian, M., Smith, J.A., and Costantino, D. The use of recombinant hemoglobin solution in reversing lethal hemorrhagic hypovolemic oxygen debt shock. *Journal of Trauma* 42(2):199-212 (1997).
- Vary, T.C., Siegel, J.H., Tall, B.D., Morris, J.G., and Smith, J.A. Inhibition of skeletal muscle protein synthesis in septic intra-abdominal abscess. *Journal of Trauma* 28(7):981-988 (1988).

Book Chapters

- Siegel, J.H. and Smith, J.A. "Coklu Travma (Multiple Trauma in the Motor Vehicle Era)" IN: Temel Cerrahi, Sayek, ed., *Gunrd Tip Kitabevleri Ltd* (2013), pp. 383-406 [Turkish].
- Siegel, J.H., Fabian, M., Smith, J.A., and Costantino, D. "Human Recombinant Hemoglobin as a Safe and Effective Mode of Volume Replacement in a Canine Model of Hemorrhagic Hypovolemic Oxygen Debt Shock." IN: *Red Blood Cell Substitutes*, Rudolph, Rabinovici and Feuerstein, eds. Marcel Dekker (1997) pp. 119-164.

Research Presentations (Refereed)

- Pesis-Katz, I., Singh, R., Smith, J., DeVoe, J., and Norsen, L. "Reducing cardiovascular disease risk for employees through a comprehensive wellness program." Poster presentation at APHA Annual Meeting, Philadelphia, PA (November 2019).
- Holland, M.L., Groth, S.W., Smith, J.A., Meng, Y., and Kitzman, H. "Second child birthweight: How home visiting dose and first child birthweight interact." Podium presentation (MLH) at the Collaborative Science of Home Visiting Meeting. Washington, DC. (January 2019).
- Meng, Y., Groth, S.W., Smith, J.A., and Kitzman, H. "What genes are involved in the brain food reward circuitry: Findings from a large candidate gene analysis." Poster presentation (June 2018)
- Hauenstein, E., Chen, D-G., and Smith, J.A. "Childhood Adversity, Inflammation, and Illness in Mid-Life Adults". Podium presentation (EH) at the Eastern Nursing Research Society 27th Annual Scientific Sessions, Washington, DC (April 2015).
- Smith, J.A., Pesis-Katz, I., Cai, X., Powers, B.A., and Markman, J. "The Impact of Smoking on the Probability and Amount of Opioids Prescribed for Low Back Pain" Poster presentation at the Eastern Nursing Research Society 26th Annual Scientific Sessions, Philadelphia, PA (April 2014).
- Pesis-Katz, I., Smith, J.A., and Norsen, L. "What Can Predict Enrollment in Health Promoting Activities of Complex Condition Management?" Podium presentation (IPK) at the Eastern Nursing Research Society 26th Annual Scientific Sessions, Philadelphia, PA (April 2014).
- Lowey, S.E., Xue, Y., Smith, J.A., and Powers, B.A. "Differences in Healthcare Utilization and Opioid Use in the Last Year of Life Among Medicare Beneficiaries with Advanced Illnesses." Podium presentation (SEL) at Eastern Nursing Research Society 25th Annual Scientific Sessions, Boston, MA (April 2013).
- Lowey, S.E., Smith, J.A., Xue, Y., and Powers, B.A. "Opioid Use During the Last Year of Life Among Older Adults with Advanced Illnesses." Poster presentation at Gerontological Society of America 65th Annual Scientific Meeting, San Diego, CA (November 2012).
- Pesis-Katz, I., Smith, J.A., Cai, X., and Tuttle, J. "Nurse Practitioners' Independent Billing and Economic Implications for the Healthcare System." Podium presentation (IPK) at APHA 140th Annual Meeting, San Francisco, CA (October 2012).
- Pesis-Katz, I., Smith, J.A., Cai, X., and Tuttle, J. "Potential Healthcare System Cost-Savings Through Independent Billing by Nurse Practitioners." Poster presentation at Academy Health Annual Research Meeting, Orlando, FL (June 2012).
- Pesis-Katz, I., Glance, L., Cai, X., Smith, J.A., and Mukamel, D. "Premium Pay for Premium Quality?: Examining the Association Between Quality of Care Information in the NYS Cardiac Surgery Reports and Negotiated Prices with Insurance Plans." Podium presentation at IHEA 8th Global Congress, Toronto, Canada (2011).
- Smith, J.A. "A Revision of the Family Role Rewards Scale." Poster presentation at Collier Research Day, Department of Psychiatry, University of Rochester, Rochester, NY (2009).
- Smith, J.A., Siegel, J.H., and Siddiqi, S.Q. "Spine and Spinal Cord Injury in Motor Vehicle Crashes: A Function of Change in Velocity and Energy Dissipation on Impact with Respect to the Direction of Crash." Poster presentation at Safety 2004, Vienna, Austria (2004).

Siegel, J.H., Fabian, M., and Smith, J.A. "Use of recombinant hemoglobin solution in resuscitation from hemorrhagic hypovolemic oxygen debt shock." Poster presentation at Fourth International Congress on the Immune Consequences of Trauma, Shock and Sepsis, Orlando, FL (1997).

Smith, J.A., Siegel, J.H., Jawor, D., and Malcolm, D. "TNF enhances the skeletal muscle metabolic response to systemic inflammation." Poster presentation at Thirteenth Annual Conference on Shock Durango, CO (1990).

Honors and Awards

Sigma Theta Tau Service Award (2013).

Supporting Providers in Comparative Effectiveness (SPICE) Fellowship (2011).

Rochester Academy of Medicine Community and Preventive Medicine Award in Honor of Dr. Robert L. Berg for original paper entitled "Lead Poisoning in Children: Still an Issue?" (2009)

Academic Service

Spring 2009. Teaching Assistant for SAS laboratory component of NUR 545, under Dr. Ying Xue

Spring 2011. Teaching Assistant for SAS laboratory component of NUR 545, under Dr. Ying Xue

Spring 2012. Teaching Assistant for SAS laboratory component of NUR 545, under Dr. Ying Xue

Spring 2013. Teaching Assistant for SAS laboratory component of NUR 545, under Dr. Ying Xue

Fall 2013. Teaching Assistant for NLX 466, under Dr. Irena Pesis-Katz

Spring 2014. Co-Instructor, SAS laboratory component of NUR 545, with Dr. Ying Xue

Spring 2014. Teaching Assistant for NLX 471, under Dr. Irena Pesis-Katz

Spring 2014. Master's Thesis Reader for Mindy Hoftender (Warner School of Education)

Fall 2014-Spring 2018. Elected member of School of Nursing Research Council

Spring 2015. Co-Instructor, SAS laboratory component of NUR 545, with Dr. Ying Xue

Summer 2016. Co-Instructor, NLX 471, with Dr. Irena Pesis-Katz

Summer 2017. Co-Instructor, NLX 471, with Dr. Irena Pesis-Katz

Summer 2017. Master's Thesis Reader for Bria Seals (Warner School of Education)

Summer 2018. Co-Instructor, NLX 471, with Dr. Irena Pesis-Katz

Spring 2019. Co-Instructor, SAS laboratory component of NUR 545, with Dr. Ying Xue

Summer 2019. Co-Instructor, NLX 471, with Dr. Irena Pesis-Katz

Summer 2020. Co-Instructor, NLX 471, with Dr. Irena Pesis-Katz

Summer 2021. Co-Instructor, NLX 471, with Dr. Irena Boyce (Pesis-Katz)

Community Service

Spring 2013. Rochester Area United Way Day of Caring at VOA Children's Center

Spring 2014. Rochester Area United Way Day of Caring at Mercy Prayer Center

Spring 2015. Rochester Area United Way Day of Caring at Mercy Prayer Center

Spring 2017. Rochester Area United Way Day of Caring at Episcopal Senior Life

Membership

Sigma Theta Tau, International Nursing Honor Society.

Eastern Nursing Research Society (ENRS).

American Public Health Association (APHA).

Beta Beta Beta, International Biological Sciences Honor Society.

Mensa, International High IQ Society.