

## BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.  
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME <b>James S. Krause, Ph.D.</b>	POSITION TITLE <b>Associate Dean, College of Health Professions</b>		
eRA COMMONS USER NAME <b>KRAUSEJ</b>			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Minnesota, Minneapolis, MN	BA	1980	Psychology
University of Minnesota, Minneapolis, MN	PhD	1990	Psychology

### A. Personal Statement.

Motivated by my own spinal cord injury (SCI) over 40 years ago at age 16 (C4), I committed my adult life to understanding the long-term consequences of neurologic injury on health, quality of life, employment, and longevity. Our research team has received several research grants for which I am Principal Investigator (PI), including several longitudinal studies. Our research has had the dual focus of aging, health, and long-term outcomes, entitled the Longevity after Injury Project ([www.longevityafterinjury.com](http://www.longevityafterinjury.com)); with a more recent second arm of research on successful employment after disability. I have served as PI on a 6-year study of changes in health and quality of life among underserved populations, a 10-year study of transition from injury onset to community, a 15-year study of secondary health conditions, and a 40-year study of the natural course of SCI. In 2011, I was honored to receive the National Medtronic Courage Award for outstanding contributions to the health, welfare, and rehabilitation of people with disabilities, which previously was awarded to several highly recognizable individuals including Sen. Bob Dole, Sen. Max Cleland, former Attorney General Janet Reno, actor and activist Christopher Reeve, physicist Stephen Hawking, and famed violinist Itzhak Pearlman. Awards such as this reflect the collective efforts of a great research team, key collaborating institutions, and the contributions of over 5000 research participants.

### B. Positions and Honors.

#### Positions and Employment

2002-present	<b>Faculty</b> , Medical University of South Carolina, Charleston, SC, Rank: <i>Professor</i> (2005-present), <i>Associate Dean for Research</i> (2003-present)
2002-present	<b>Scientific Director</b> , South Carolina SCI Research Fund, Charleston, SC
2003-present	<b>Associate Dean for Research</b> , Medical University of South Carolina, Charleston, SC
2004-present	<b>Director</b> , Center for Rehabilitation Research in Neurological Conditions, Medical University of South Carolina, Charleston, SC
2008-present	<b>Director</b> , Center on Health Outcomes Research and Capacity Building for Underserved Populations with SCI and TBI
2009-present	<b>Director</b> , Rehabilitation Research and Training Center on Secondary Conditions in Individuals with SCI, Charleston, SC
Present	<b>Senior Research Scientist</b> , Shepherd Center, Atlanta, GA
1990-2002	<b>Behavioral Scientist</b> , Shepherd Center, Atlanta, GA
1989-1993	<b>Staff Psychologist</b> , Shepherd Spinal Center, Atlanta, GA

## Recent Honors (last five calendar years)

- 2015 **Academy of Spinal Cord Injury Professionals, Essie Morgan Lectureship**, September 7, 2015. The Essie Morgan Lecture is an invited lectureship awarded to persons who have made significant contributions to the advancement of social services for persons with spinal cord injury.
- 2013 **American Spinal Injury Association (ASIA) Anniversary Award**, May 6, 2013. Awarded in recognition of Dr. Krause's work as Editor-in-Chief of Topics in Spinal Cord Injury Rehabilitation, the official journal of ASIA.
- 2012 **NARRTC Distinguished Service Award, National Association of Rehabilitation Research and Training Centers**, (previous awardees include Sen. Thomas Harkin and Sen. Robert Dole).
- 2011 **Medtronic National Courage Award** (previous awardees include Sen. Robert Dole, Sen. Max Cleland, Secretary of State Janet Reno, physicist Stephen Hawking, activist Christopher Reeve), Courage Center
- 2011 **NARRTC Research Award**, outstanding published paper by a NIDRR grantee in 2010, second time receiving award
- 2010 **ARCA Research Award**, 1<sup>st</sup> place for excellence in publishing in vocational rehabilitation in 2009, American Rehabilitation Counseling Association (also received in 1993)
- 2009 **Apple Award** for excellence in publishing in spinal cord injury rehabilitation research, American Spinal Injury Association
- 2008 **Hall of Fame** for Research in Quality of Life, National Spinal Cord Injury Association
- 2008 **NARRTC Research Award** (first ever awarded), outstanding published paper by a NIDRR grantee in 2007
- 2008 **Patricia McCollom Memorial Research Award** (first ever awarded), career contribution, Foundation for Life Care Planning Research

## **C. Selected peer-reviewed publications (in chronological order).**

(Publications selected from 168 peer-reviewed publications, 108 first-author)

1. Krause, J. S. (2010). Risk for subsequent injuries after spinal cord injury: A 10-year longitudinal study. *Archives of Physical Medicine and Rehabilitation*, 91(11), 1741-1746. PMC3181076
2. Krause, J. S., Saunders, L. L., & DeVivo, M. (2011). Income and risk of mortality after spinal cord injury. *Archives of Physical Medicine and Rehabilitation*, 92, 339-345. PMC3181072
3. Krause, J.S., & Saunders, L.L. (2011). Health, secondary conditions, and life expectancy after spinal cord injury. *Archives of Physical Medicine and Rehabilitation*, 92, 1770-1775. PMC3385509
4. Krause, J.S., & Bozard, J.L. (2012). Natural course of life changes after spinal cord injury: A 35-year longitudinal study. *Spinal Cord*, 50, 227-231. PMID: 21946444
5. Saunders, L.L., Krause, J.S., & Acuna, J. (2012). Association of race, socioeconomic status, and health care access with pressure ulcers after spinal cord injury. *Archives of Physical Medicine and Rehabilitation*, 93(6), 972-977. PMC3361526
6. Krause, J.S., Saunders, L.L., & Zhai, Y. (2012). Stability of predictors of mortality after spinal cord injury. *Spinal Cord*, 50(4), 281-284. PMC3321101
7. Krause, J.S., & Saunders, L.L. (2012). Socioeconomic and behavioral risk factors for mortality: Do risk factors observed after spinal cord injury parallel those from the general USA population?. *Spinal Cord*, 50, 609-613. PMC3376668
8. Cao, Y., Krause, J.S., & DiPrrio, N.D. (2013). Risk factors for mortality after spinal cord injury in the USA. *Spinal Cord*, 51, 413-418. PMID: 23380680
9. Saunders, L.L., Gregory-Bass, R., & Krause, J.S. (2013). Gender, race, pain, and subjective well-being of adults with spinal cord injury. *Journal of Health Care for the Poor and Underserved*, 24(3), 1257-1265. PMID: 23974396
10. Cao, Y., Selsassie, A., & Krause, J.S. (2013). Risk of death after hospital discharge with traumatic spinal cord injury: A population-based analysis, 1998-2009. *Archives of Physical Medicine and Rehabilitation*, 94, 1054-1061. PMID: 23391523

11. Krause, J.S., Cao, Y., & Bozard, J.L. (2013). Changes in hospitalization, physician visits, and self-reported fitness after spinal cord injury: A cross sequential analysis of age, years since injury, and age at injury onset. *Archives of Physical Medicine and Rehabilitation*, 94(1), 32-37. PMID: 22922329
12. Krause, J.S., Dismuke, C.E., Acuna, J., Sligh-Conway, C., Washington, K., & Reed, K.S. (2014). Race-ethnicity and poverty after spinal cord injury. *Spinal Cord*, 52(2), 133-138. PMC3946286
13. Saunders, L.L., DiPiro, N., Krause, J.S., Brotherton, S., & Kraft, S. (2013). Risk of fall related injuries among ambulatory participants with spinal cord injury. *Topics in Spinal Cord Injury Rehabilitation*, 19(4), 259-266. PMC3816720
14. Saunders, L.L., Krause, J.S., Carpenter, M., Saladin, M. (2014). Risk behaviors related to cigarette smoking among persons with spinal cord injury. *Nicotine and Tobacco Research*, 16, 224-230. PMID: 24169812
15. DiPiro, N.D., Krause, J.S., Saunders, L.L., Brotherton, S., & Kraft, S. (2014). Pain and fatigue as mediators of the relationship between mobility aid usage and depressive symptomatology in ambulatory individuals with spinal cord injury. *Spinal Cord*, 52(4), 316-321. PMID: 24418957
16. Saunders, L. L. & Krause, J. S. (2015). Injuries and falls in an aging cohort with spinal cord injury: SCI aging study. *Topics in Spinal Cord Injury Rehabilitation*, 21(3), 201-207.
17. Meade, M., Reed, K. S., & Krause, J. S. (in press). The impact of health behaviors and health management on employment after SCI- Part 1: Physical health and functioning. *Topics in Spinal Cord Injury Rehabilitation*.

## D. Research Support

### Ongoing Research Support

H133N110005 Krause (investigator-subcontract) 10/1/11 - 9/30/16

Dept of Education/NIDRR

Collaborative Research Project with the Southeastern Regional SCI Model System at Shepherd Center  
A Longitudinal Study of Gainful Employment 10 years after SCI Onset: Comparisons of Those Who Do and Do Not Return to the Pre-injury Employer

The purpose of this study is to conduct a 10-year longitudinal follow-up to identify predictors of post-injury employment, while developing distinct models for return to the pre-injury employer and obtaining new employment after SCI onset.

Role: Principal Investigator

H133A120122 Krause (PI) 10/1/12 – 9/30/17

Dept of Education/NIDRR

Successful Employment and Quality of Work Life after Severe Disability due to SCI

The purpose of this study is to assess employment outcomes across the work life cycle among persons with SCI and investigate factors related to successful employment.

Role: Principal Investigator

H133B130011 Krause (investigator-subcontract) 10/1/13 – 9/30/18

Dept of Education/NIDRR

Rehabilitation Research and Training Center on Employment of Individuals with Physical Disabilities  
Study 2: Successful employment and quality work life after severe disability: Comparison of predictive models with multiple sclerosis and spinal cord injury

Role: Principal Investigator of Study 2

H133G140048 Krause (PI) 10/1/14 – 9/30/17

Dept of Education/NIDRR

Risk of Early Mortality after Spinal Cord Injury

The purpose of the study is to identify risk and protective factors for all-cause mortality and specific cause of mortality after spinal cord injury.

Role: Principal Investigator

## **Completed Research Support**

1R01NS48117 Krause (PI) 01/01/06 – 12/31/12

NIH/NINDS

Risk for Adverse Outcomes after SCI: A Longitudinal Study.

The purpose of this study is to identify risk and protective factors for three types of health outcomes after SCI by testing two empirical models for risk of adverse outcomes.

Role: Principal Investigator

H133A080064 Krause (PI) 10/01/08 – 9/30/13

Dept of Education/NIDRR

Center on Health Outcomes Research and Capacity Building for Underserved Populations with SCI and TBI

This project builds the capacity of institutions addressing the needs of underserved populations by: (a) conducting two studies to generate new knowledge on the health of three underserved racial-ethnic groups with traumatic neurologic injuries; (b) providing capacity building through collaboration with two HBCU, specialized instruction of undergraduate and graduate students, and widespread training to institutions and organizations representing underserved populations; and (c) providing technical assistance to a wide array of target audiences to enhance the capacity to meet the needs of underserved populations.

Role: Principal Investigator/Center Director

H133G090059 Krause (PI) 10/1/2009 – 9/30/13

Dept of Education/NIDRR

Ambulation and Secondary Complications: Participants with Chronic Spinal Cord Injury

The purpose of this study is to identify variations in ambulation after SCI based on utilization of assistive devices, reliance on people for assistance, functionality (distances, primary mode of locomotion), and association with secondary conditions.

Role: Principal Investigator

H133G110157 Krause (PI) 10/1/11 – 9/30/14

Dept of Education/NIDRR

Participation, Subjective Well Being, Health, and Spinal Cord Injury: A 40-Year Longitudinal Study

The purpose of this study is to identify changes in participation, health, and subjective well-being as people age with SCI by performing the eighth stage of data collection in a longitudinal study spanning 4 decades.

H133B090005 Krause (PI) 10/1/09 – 9/30/15

Dept of Education/NIDRR

Rehabilitation Research and Training Center on Secondary Conditions in Individuals with Spinal Cord Injury

The purpose of this study is to increase our knowledge and ability to predict and prevent secondary health conditions, identifying the role of access to healthcare and using laboratory assessments of cardiovascular disease risk factors. This, coupled with education and training, dissemination, and technical assistance will directly result in a network of well-informed professionals to apply their skills to diminish the likelihood of secondary conditions and increase longevity after SCI.

Role: Principal Investigator/Center Director