

National Association of State Head Injury Administrators 6/15/2022

EXPLORING THE RESOURCES AND SUPPORTS OF THE NATIONAL PARALYSIS RESOURCE CENTER

The National Paralysis Resource Center website is supported by the Administration for Community Living (ACL), U.S. Department of Health and Human Services (HHS) as part of a financial assistance award totaling \$8,700,000 with 100 percent funding by ACL/HHS. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by ACL/HHS, or the U.S. Government



Our Mission

We are dedicated to curing spinal cord injury by advancing innovative research and improving the quality of life for individuals and families impacted by paralysis.

Today's Care. Tomorrow's Cure.®



Today's Care

We created the National Paralysis Resource Center to help people navigate the chaos of paralysis with reliable information, referral services, and a message of hope."

-- Dana Reeve





Today's Care. Tomorrow's Cure.

Information Specialists

114,000+ families have received one-on-one assistance in 170 languages





Global Leader in Spinal Cord Research

\$140 million has been awarded to researchers around the globe to speed the development of treatments and therapies for spinal cord injury

Quality of Life Grants \$33 million+ awarded to over 3,300 non-profit programs in all 50 states





Pe 17,

Peer & Family Support Program

17,000+ people have received support from 500+ certified peer mentors who are also living with paralysis

Virtual Community

3M+ users visit ChristopherReeve.org and social media channels annually



1st call made when loved one is diagnosed with paralysis



Team Reeve®

\$7 million has been raised from running marathons to hosting local events



Annual summit with a spectrum of care and cure topics designed for the community and professionals





Paralysis Resource Guide

223,000+ copies distributed to the Reeve Foundation's community



"

Once you choose hope, anything's possible.

— CHRISTOPHER REEVE

National Paralysis Resource Center

With partnership from the Administration for Community Living, the National Paralysis Resource Center (NPRC) provides much-needed free educational information, programs, emotional support and individualized assistance to Americans living with paralysis, along with their caregivers, families and medical professionals.





You can ask a question by online form, phone call or email. An Information Specialist will listen to your concerns and will gather pertinent information.

Inquiry Process



The Information Specialist will research based on your concerns, location, available resources, language preference, etc.

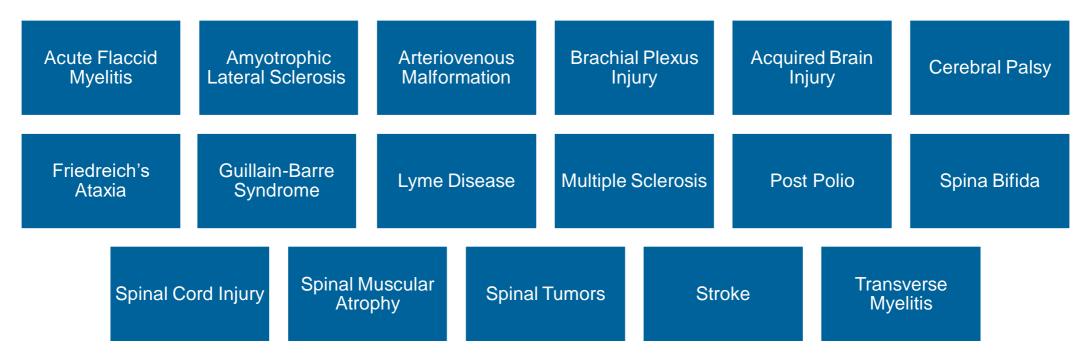


You will receive a <u>customized</u> answer and resources.



Conditions Served by the National Paralysis Resource Center

Information Specialists can assist with paralysis caused by any condition.





On this journey...you will have many questions.

"What should I be looking for in a rehabilitation program?

I am a Veteran, am I eligible for VA services?

"How can I learn more about home modification, now that I will be returning home?

"My family caregiver is burnt out, we both need help....

"My wheelchair is falling apart, and my insurance will not cover a new one. Are there any programs around me to help get it back in working order?"



Information and Referral Services

Information Specialists provide individualized support to people living with paralysis, as well as their family and caregivers.

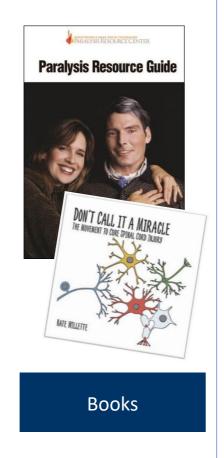
Online: ChristopherReeve.org/ask

Call: 1-800-539-7309

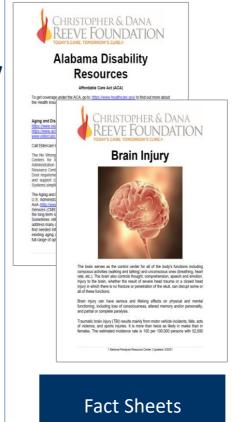
Email: InfoSpecialist@ChristopherReeve.org



Free Materials & Resources

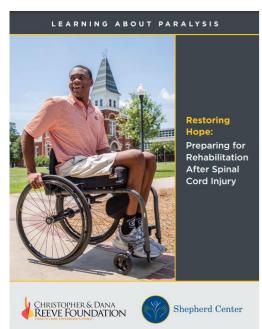


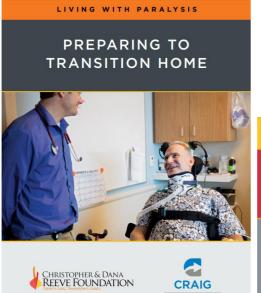






Publications







LIVING WITH PARALYSIS

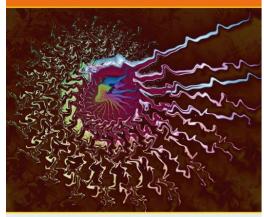
Our publications are pertinent to a wide variety of disabilities.



Publications

LIVING WITH PARALYSIS

Managing Spasticity













Sexuality & Reproductive Health After Paralysis





Our publications are pertinent to a wide variety of disabilities.



Military & Veterans Program Mission Statement

The Military & Veterans Program (MVP) extends expertise in spinal cord injury and paralysis to include resources and community connections for service men and women, as well as veterans living with paralysis, whether through combat-related, service-related, or non-service-related events.



Information for Newly Injured

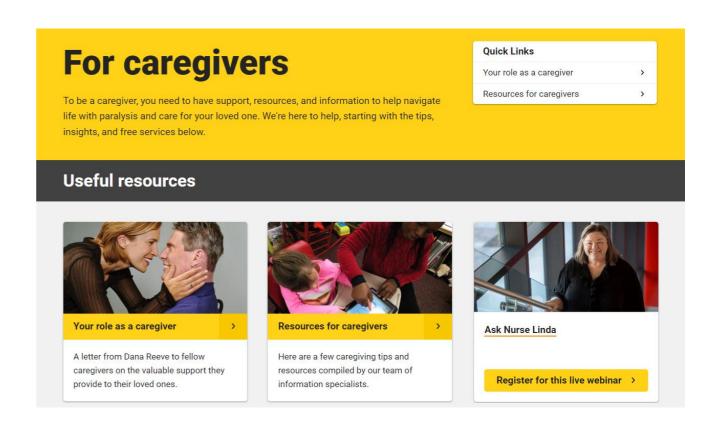
- Newly Injured Packet
- Rehabilitation Info & Referral
- Next Steps
- Funding/Insurance



Resources for Caregivers

Reeve Foundation website

- Special section for caregivers
 - Information on the caregiver role
 - Specific caregiver resources
 - Caregiving tip sheet compiled by the IS team
 - Webcast from Nurse Linda
- Blogs by caregivers, including current mentors (in Blog section of the website)
- Can find more caregiver content on the Reeve Foundation's YouTube channel



Peer & Family Support Program

The Peer & Family Support Program is a national peer to peer mentoring program that provides support and information on local and national resources to people living with paralysis as well as their family members and caregivers.



Other Reeve Foundation Programs

Research

The Reeve Foundation has awarded over \$140 million to support a pipeline of innovative research that will rapidly transform quality of life for families impacted by paralysis.

Quality Of Life Grants Program

Awards financial support to nonprofit organizations that mirror the Reeve Foundation's mission.

Advocacy and Education

Advocacy for changes that make a real difference in the lives of people with paralysis, as well as their families and caregivers



So many of our dreams at first seem impossible, then they seem improbable and then, when we summon the will, they soon become inevitable."

Christopher Reeve



Questions



For Additional Information:

Bernadette Mauro

Director, Information and Resource Services

(410) 530-0148 BMauro@ChristopherReeve.org

Paralysis Resource Guide (book): www.ChristopherReeve.org/Guide

Fact Sheets: www.ChristopherReeve.org/factsheets

Wallet Cards: www.ChristopherReeve.org/cards

Patient Education Booklets:

https://www.christopherreeve.org/living-with-paralysis/free-resources-and-downloads/education-booklets





Spinal Cord Injury Model Systems: Overview

Yuying Chen, MD, PhD NASHIA Webinar, June 15, 2022







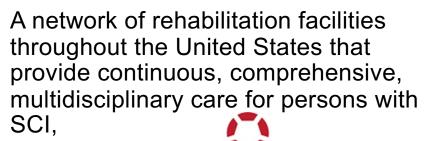




Spinal Cord Injury Model System

What is SCIMS?





designated by





- Traumatic Brain Injury Model System
- Burn Model System (since 1994)
- One Data and Statistical Center for each of the 3 Model Systems
- One Model Systems Knowledge Translation Center for all 3 systems





National Institute on Disability, Independent Living,

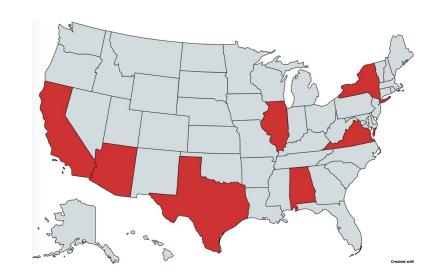
and Rehabilitation Research

SCIMS Centers

1970: First SCIMS Center in Phoenix, AZ







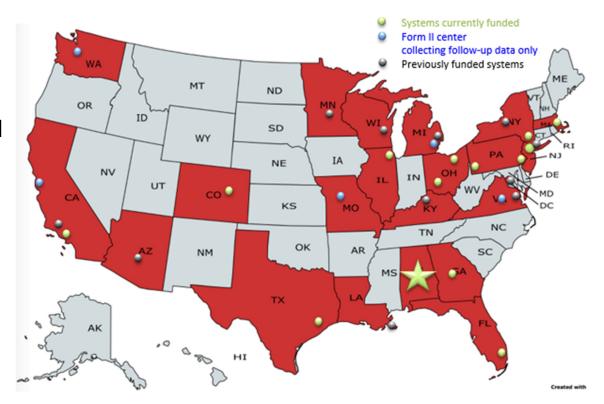


SCIMS Database 1972-2021

- 29 SCIMS centers
- 21 States + DC
- 50,026 people with SCI enrolled
- 127,991 follow-up records (up to 45 years)



National SCI Statistical Center at UAB





SCIMS Centers 2021–2026 2022 (n=14)

SCI Centers 2021-2022	TBI 2017-2022	Burn 2017-2022
California, Santa Clara Valley MC	F2	
California, Rancho Los Amigos NRC		
Colorado, Craig Hospital	V	
District of Columbia, MedStar NRH		
Florida, University of Miami		
Georgia, Shepherd Center		
Illinois, Shirley Ryan AbilityLab		

Note. F2 = Form II follow-up data collection only



SCIMS Centers 2021–2026 2022 (n=14)

SCI Centers 2021-2022	TBI 2017-2022	Burn 2017-2022
Minnesota, University of Minnesota	(Mayo)	
New Jersey, Kessler Foundation	V (& JRI)	
New York, Icahn SOM at Mount Sinai	V (& NYU)	
Ohio, Case Western Reserve University	(OSU)	
Pennsylvania, University of Pittsburgh	F2	
Texas, Baylor Scott & White Institute	V	(UT Southwestern)
Virginia, Virginia Commonwealth University	V	

Note. F2 = Form II follow-up data collection only



Form II Centers 2021–2026 2022 (n=5)

SCI F2 Centers 2021-2022	TBI 2017-2022	Burn 2017-2022
Alabama, UAB	V	
Missouri, University of Missouri		
Pennsylvania, Thomas Jefferson University	(Moss)	
Virginia, UVA and Woodrow Wilson Rehab		
Washington, University of Washington	V	V

Note. F2 = Form II follow-up data collection only



Purpose of SCIMS Database

Demonstration

Originally, store information on patients with SCI treated at SCIMS centers across the country to demonstrate the efficacy of a comprehensive multidisciplinary care system



Research and Knowledge Translation

Trends over time since 1970s

- Who (get SCI), How, What
- Uses: Prevention, health care needs projection, etc.

Longitudinal course living with SCI

- Physical & psychosocial well-being, life expectancy, costs of care
- Uses: Knowledge building to improve care & services, set rehabilitation standards, inform policy and best practices, etc.

Infrastructure for collaborative research



SCIMS Database Structure

Acute Care Rehabilitation Community Living

Form I or Registry Form II Follow-up data Initial hospital care data obtained currently in post-Registry (vs Form I): People residing outside catchment area are enrolled in the Registry, injury years 1, 5, and less detailed data collection than Form I. and every 5 years thereafter no longitudinal follow-up data are collected for Registry cases



Fact Sheets, Data Sheets, Reports



Traumatic Spinal Cord Injury Facts and Figures at a Glance



2022 SCI Data Sheet

The Spinal Cord Injury Model Systems was created in 1970 as a prospective longitudina multicenter study on demographics and the use of services by people with traumatic spinal cord injury in the United States.



Recent Trends in Causes of Spinal Cord Injury



2021 SCI Data Sheet

NSCISC National Spinal Cord Injury Statistical Center

This data sheet is a quick reference on demographic ar condition statuses for 35,675 persons with SCI. Data were collected through 2021 by federally funded SCI Model Systems and five Form II

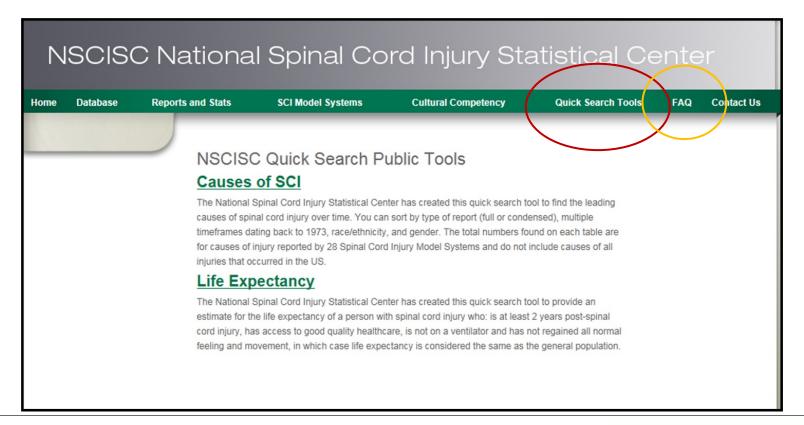
Vehicular accidents accounted for 2,956 (38.09%) of spinal cord injuries and ranks 1st in causes of spinal cord injury. **Spinal Cord Injury Model Systems**

2020 Annual Report – Complete Public Version





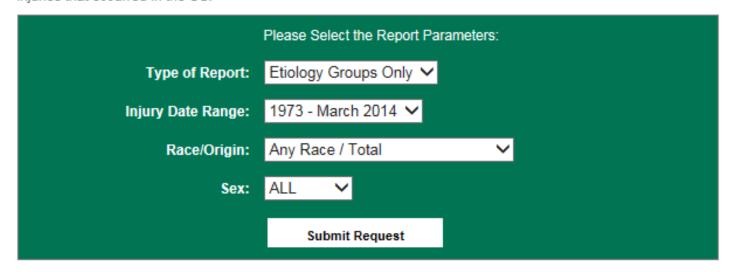
Public Tools





Leading Causes of Spinal Cord Injury

The National Spinal Cord Injury Statistical Center has created this quick search tool to find the leading causes of spinal cord injury over time. You can sort by type of report (full or condensed), multiple timeframes dating back to 1973, race/ethnicity, and gender. The total numbers found on each table are for causes of injury reported by 28 Spinal Cord Injury Model Systems and do not include causes of all injuries that occurred in the US.



Group Etiology Categories Include:

'Vehicular Accidents': auto accidents in jeeps, trucks, dune buggies, and buses; Motorcycle accidents in 2-wheeled, motorized vehicles including mopeds and motorized dirt bikes; Boats; Fixed-wing aircraft;

Life Expectancy Calculator

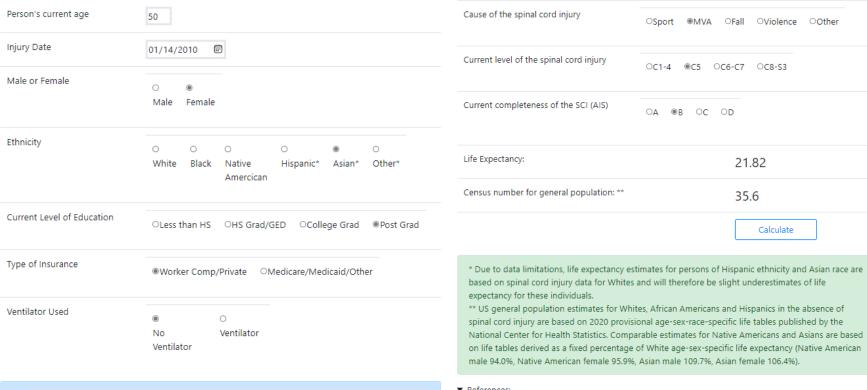
Life expectancy estimates are based on the actual long-term survival experiences of persons treated at any current or previously funded model spinal cord injury care system or any of the three Shriners Hospital spinal cord injury units (Philadelphia, Chicago and Sacramento) with follow-up through January 2022. A person-year data set was created in which each year of follow-up for each person was treated as a separate observation. Logistic regression was then used to determine the impact of each risk factor on the likelihood of dying each year. A life table is then constructed using standard statistical procedures based on the annual age-specific probabilities of dying and the selected combination of risk factors, and the life expectancy is derived from that life table. A more complete description of the statistical methods used for this life expectancy calculator can be found in the following reference: Strauss D, Shavelle R, DeVivo MJ, Day S. An analytic method for longitudinal mortality studies. J Insur Med 2000;32:217-225.

These estimates should be interpreted cautiously. Life expectancy reflects the average experience of a group of similar individuals. Some individuals will not survive as long while others will survive longer. These estimates are based solely on the chosen factors below. Many other factors can also influence life expectancy and may need to be considered on a case by case basis.

US Provisional General Population Life Table - 2020







Please answer the next questions based on the cause of injury, current neurologic level of injury and degree of completeness of the injury [American Spinal Injury Association Impairment Scale (AIS)]. Determination of the level and AIS grade should be based on the Motor Exam Guide and

▼ References:

1. DeVivo MJ, Stover SL. Long-term survival and causes of death. In: Stover SL, DeLisa JA, Whiteneck GG, editors, Spinal cord injury: clinical outcomes from the Model Systems, Gaithersburg (MD): Aspen, 1995, pp 289-316.





De-Identified Data from the SCIMS National Database, collected before October 1 2016, are freely available for download

NSCISC Data Request Form

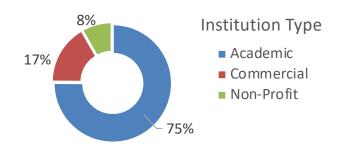
Email*	
First Name*	
Last Name*	
Institution*	ex: Institution
Institution Type*	O Non-Profit Organization
	 Commercial Organization
mondation type	Acedemic
	O less than 5
Number of years in scientific research	O 5 - 10
	○10+
Study name*	
Describe this request	A brief overview of you
	research needs

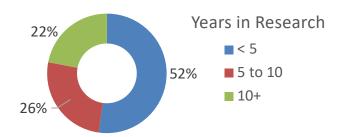
Register

Cancel

Public Data Download

- 220 requests, Dec 2018 Jan 2022 (TBI = 94 and Burn = 47)
- Research: Neuro/Motor recovery, Technology use, Quality of life, Cluster analysis, Exploratory, Prediction models, Value based care solutions
- Education: Teaching SCI, Student capstone project, Statistics lecture
- Others: Comparable data,
 Commercial viability of a new drug





86.2% US

13.8% Other –Brazil, Canada, China,
Czech, Finland, Germany, India, Iran, Israel,
Japan, Malaysia, Mexico, Romania, UK



NSCISC Website (www.uab.edu/nscisc)

This website is still under development. If you have any questions please contact nscisc@uab.edu Updates are coming soon!

WELCOME

NSCISC

The National Spinal Cord Injury Statistical Center (NSCISC), located at the University of Alabama at Birmingham (UAB) Department of Physical Medicine and Rehabilitation, supports and directs the collection, management and analysis of the National SCIMS Database.





SCIMS Research Activity Areas

Contributions to the National SCI Database

- Enrollment of new inpatients (Form I)
- Follow-up of discharged patients (Form II)

Site-specific research projects

Research carried out within each center

Module projects

Collaborative research involving several SCIMS centers



Highly Productive

Numerous presentations, articles, and book chapters

Journal special issues in 1999, 2004, 2011, 2016, and 2022

Life expectancy estimates for about 25 court cases each year



ELSEVIER

Archives of Physical Medicine and Rehabilitation

IN THIS ISSUE:

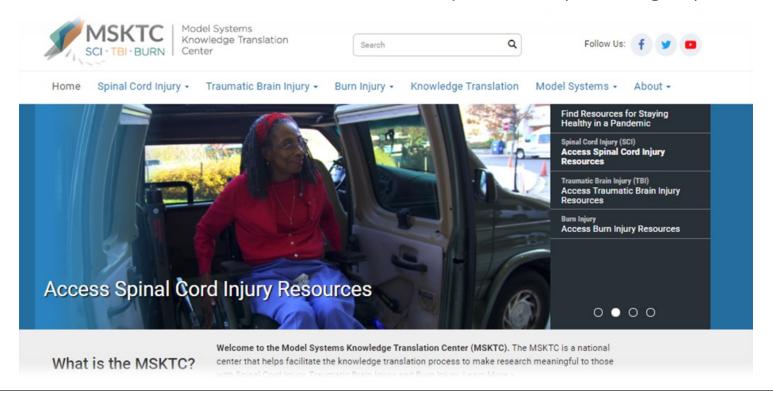
Spinal Cord Injury Model System (SCIMS) Focus Issue: Changing Demographics of Acute SCI-Older Age and More Falls Chen et al Longer Time Before Starting Rehabilitation Predicts Worse Functional Outcomes Post-SCI Herzer et al Cause-Specific Mortality Post-SCI Varies by Injury Severity, Socioeconomic, and Health Factors Krause et al New Methods to Predict the Variable Life Satisfaction After SCI Pretz et al Wheelchair Breakdowns-Prevalence, Repairs, and Related Consequences Toro et al Current SCI Databases—Assets and Limitations Charlifue et al





SCIMS Contributions to SCI Community Education

Collaboration with MSKTC to develop materials (msktc.org/sci)





ALL TOPICS































ALL TOPICS



Personal Care Attendants



Pregnancy and SCI



Respiratory Health and SCI























Factsheets



Slideshows



Hot Topics



Quick Reviews



Videos













Acknowledgements







Spinal Cord Injury Model System

Questions?

Contact Yuying Chen

nscisc@uab.edu yychen@uab.edu

