

The **Rick Hansen SCI Registry** (RHSCIR) was established in 2004 and has evolved over this time to the two latest versions (2.1 and 3.0).

Launched as a single site at Vancouver General Hospital, RHSCIR has since grown to include 30 major trauma and rehabilitation centres across Canada. It is the largest database that tracks the experiences of people living with SCI in Canada from the moment they sustain their injury and throughout their lifetime.

RHSCIR data collection includes the following categories:

Demographics – age, sex, city, province and country of residence

Socio-demographics – societal characteristics including occupation, education, household income, relationship status, living setting, height, and weight

Medical history – prior and current (post-injury) health status, including alcohol use, drug use, and other medical conditions

Injury details – cause of SCI, date and time of injury

Diagnosis – specific information describing the location of the SCI and any other secondary injuries or complications, including diagnosis code and location

Neurology – information describing the level and severity of SCI sustained, including motor and sensory scores, neurological level of injury, and ASIA Impairment Scale (AIS)

Admission/discharge – admission and discharge information outlining the movement of the individual through each care centre, including facility name, date of admission, admission category, and date of discharge

Procedures – details outlining the primary operative procedure to stabilize the spinal column, including operative date, type of approach, type of implant used, neural elements decompressed and intraoperative adverse events

Interventions – information detailing specific elements of care provided, including ventilation and rehabilitation therapies

Outcomes – information detailing specific measurements of physical functioning secondary to SCI, including quality of life, respiratory function, bowel and bladder management, pain description and management, spasticity, pressure injuries, and other secondary complications

Please see the subsequent tabs for more detail and to select the data elements you wish to request:

Version 2.1: Reflects data collected from 2014-2020 (and previous versions have been migrated to this version)

Version 3.0: reflects data collected from 2020 onwards (phased rollout across the country starting in Spring 2020)

Note that if sensitive data are requested, alternative data will be provided
(for example, Age at Injury instead of Date of Birth)

Highlight cells below to indicate if you are requesting
a data element and at which timepoints

	Minimal	Expanded				Initial RHSCIR	Non-participating Hospital	Emergency Care Only	Acute Care	Rehab Care	Final RHSCIR	Community Follow-Up++
Demographic Data / Injury Detail / Medical History												
Consent status and details	X	X	X			X	X	X				
Date of Birth	X	X				X	X					
Sex	X	X				X	X					
Race		X	X									
Weight		X	X						X	X		
Height		X	X									
Relationship status		X	X									
Education level		X	X									
Military service		X	X									
Living setting / living with / homecare services		X	X						X	X		
Employed occupation / unemployed / retired		X	X								X	
Household income / n/o people in household		X	X								X	
Injury date / time	X	X	X			X	X					
Mechanism of injury (including further details)	X	X	X									
Energy related to mechanism of injury	X	X	X									
Geographic region of injury	X	X	X									
Military service accident injury	X	X	X									
Work related injury	X	X	X									
Spinal column injury	X	X	X									
Interventional clinical study/trial participant and SCI clinical trial name	X	X				X	X					
Bony diagnosis	X	X	X									
Prior health conditions	X	X	X									
Associated injuries	X	X	X									
Glasgow coma scale	X	X	X									
End of study reason (died and date of death and principal cause of death, lost to follow up and date of lost to follow up, study completed)	X	X	X			X	X	X	X	X	X	
Drug, smoking and alcohol use		X	X						X	X		
Compensation / insurance type		X							X	X		
Visit details												
Direct or indirect admission to initial RHSCIR facility	X	X	X									
Emergency Health Services arrival at injury scene (date/time)	X	X	X									
Facility name	X	X		X	X	X	X					
Level of care	X	X		X	X	X	X					
Facility arrival date	X	X		X	X	X	X					
Facility arrival time	X	X		X	X	X						
Date / time of admission to acute care unit (if LOC=Emergency and Acute)	X	X		X		X						
Special care unit admission (type, admission date, discharge date)	X	X				X						
Date / time transferred to rehab unit (if LOC=Acute and Rehab)	X	X		X								
Rehab referral/consult details	X	X				X						
Facility discharge date	X	X		X	X	X	X					

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	Minimal	Expanded				Initial RHSCIR	Non-participating Hospital	Emergency Care Only	Acute Care	Rehab Care	Final RHSCIR	Community Follow-Up++
Facility discharge time (if LOC=Emergency)	X	X		X	X							
Discharge destination	X	X					X	X				
Interventions												
Spine surgery performed (Y/N)	X	X	X	X	X	X						
Spine surgery details (start/stop date/time, surgeon, approach, location and description of type of surgery)	X	X					X					
Estimated blood loss	X	X						X				
ASA classification	X	X						X				
Decompression of Neural Elements (date/time, time from SCI to decompression)	X	X						X				
Intraoperative monitoring	X	X						X				
Intraoperative imaging	X	X						X				
Navigation	X	X						X				
ETT > 24 hours	X	X		X	X	X						
Tracheostomy (date)	X	X	X	X	X	X	X	X	X			
Methylprednisolone / Corticosteroids	X	X		X	X	X						
Skeletal traction	X	X		X	X	X						
Attempted reduction details	X	X		X	X	X						
Inpatient and outpatient services set up and details of which service	X	X					X	X	X			
Ventilatory assistance details		X								X		
Nutrition Tube Feeds	X	X								X		
Bladder management (main and supplementary methods)		X								X		
Assistive equipment / orthosis type	X	X					X	X	X			
Complications												
Intraoperative adverse events and grade	X	X					X					
Delirium details	X	X					X	X				
UTI details	X	X					X	X				
Pain: documented pain, documented neuropathic pain	X	X						X				
Pain: management	X	X						X	X	X		
Pain: self-report questions		X								X	X	
Pulmonary complications and conditions and treatment	X	X					X	X				
Lung Volume Recruitment and/or cough assistance	X	X								X		
Respiratory: Spirometry (date, test position, Forced Vital Capacity, Forced Expiratory Volume in One Second, Vital Capacity, Peak Expiratory Flow, Maximum Inspiratory Pressure, Maximum Expiratory Pressure), Overnight Oximetry and Peak Cough Flow details	X	X					X	X				
Pressure injuries (including risk assessment details, pre-albumin level, documentation of interventions, location, staging and status of pressure injuries at admission, during stay and at discharge)	X	X					X	X				
Penn Spasticity questionnaire		X								X		

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a data element and at which timepoints

	Minimal	Expanded	Initial RHSCIR	Non-participating Hospital	Emergency Care Only	Acute Care	Rehab Care	Final RHSCIR	Community Follow-Up++
Contact Information									
City		X	X					X	X
Province		X	X					X	X
Forward sortation area (first three digits of residential postal code)		X	X					X	X
Country		X	X					X	X
Data linkages (please request full data linkage element lists from RHSCIR Data Steward)									
Trauma (including ISS and Abbreviated Injury Scores, Method of Transport, Blood Alcohol levels etc.)	X	X	X						
DAD (including transfer and admission details, ALC days, Resource Intensity Weights etc.)	X	X			X				
NRS (including referral and admission details, comorbid conditions, service details and FIM)	X	X				X			

++ Community follow-up questionnaires are collected at 1, 2, 5 and every subsequent 5 years post injury.

