



Rick Hansen Institute
Institut Rick Hansen

SCIRE - Spinal Cord Injury Research Evidence

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Lack of knowledge translation

- **In US:**
 - **45% of time, treatments of proven effectiveness not provided**
McGlynn et al. 2003, N Engl J Med
 - **20% of patients get care that is potentially harmful**
Schuster et al. 1998, Milbank Quarterly



SCORE
SPINAL CORD INJURY RESEARCH EVIDENCE



Creation of SCIRE

- Funded by the Rick Hansen Institute, Ontario Neurotrauma Foundation and Canadian Institutes of Health Research
- Led by Dr's Janice Eng & Robert Teasell
- Launched in 2005
- Systematic reviews of published research
- Rates information based on levels of evidence

Levels of evidence

Table 1

Five levels of evidence

Level	Research Design	Description
Level 1	Randomized controlled trial (RCT)	Randomized controlled trial, PEDro score ≥ 6 . Includes within subjects comparison with randomized conditions and cross-over designs
Level 2	RCT	Randomized controlled trial, PEDro score < 6 .
	Prospective controlled trial	Prospective controlled trial (not randomized)
	Cohort	Prospective longitudinal study using at least 2 similar groups with one exposed to a particular condition.
Level 3	Case control	A retrospective study comparing conditions, including historical controls
Level 4	Pre-post	A prospective trial with a baseline measure, intervention, and a post-test using a single group of subjects.
	Post-test	A prospective post-test with two or more groups – intervention, then post-test (no pre-test or baseline measurement) using a single group of subjects.
	Case Series	A retrospective study usually collecting variables from a chart review.
Level 5	Observational	Study using cross-sectional analysis to interpret relations.
	Clinical Consensus	Expert opinion without explicit critical appraisal, or based on physiology, biomechanics or “first principles”
	Case Report	Pre-post or case series involving one subject

Content

- Reviews, evaluates, and translates existing research knowledge into a clear and concise format to inform health professionals and other stakeholders
 - Reviewed over 4,000 articles
 - Rated 1,361 articles
 - 35 chapters of rated evidence accessible on our rehabilitation evidence page
 - 4 chapters of rated evidence accessible on our acute evidence page
 - Over 120 outcome measures useful for SCI practice

Production

- Updated in 2 year cycles
- 75+ writers (interdisciplinary teams of clinicians and researchers) from 6 countries
- 70+ peer-reviewed journal articles

Reach

Visit SCIRE Community
For information written in everyday language

- Home
- About SCIRE
- Evidence
- Outcome Measures
- Videos
- Clinical Resources
- Search

Text resize A A



Number of People Accessing SCIRE Project Continues to Rise

As of March 2018, we now have a total of over 1.1 million hits by over 900,000 users worldwide. [» Read more](#)

907,315 USERS ACCESSED OUR WEBSITE A TOTAL OF **1,162,341** TIMES

Live Feed @SCIREProject

SCIRE Project @SCIREProject
also @SCIREProject AD Chapter Author!
scireproject.com/evidence/rehab... Congrats Dr. K!
@ICORD_SCI @rhinstitute @VCHResearch @UBC_PMR 😊

Autonomic Dysreflexia - Spinal Cord...
What is autonomic dysreflexia, signs and symptoms, common triggers, treatment, scireproject.com

May 23, 2019

SCIRE Project Retweeted

SCIRE Community @SCIRECommunity
#GameOfThrones Bran's #SCI may prevent him from fathering children, but thankfully we don't live in

Challenges/Opportunities

- Written in academic language
- Targets researchers, academics & clinicians
- Little/no input from PLEX

SCIRE Community

- Written in “every-day” language
- Same level of rigour & evidence
- Input from 19 community members, including people living with spinal cord injury, SCI clinicians, and other community stakeholders

- Levels of evidence
 - Strong
 - Moderate
 - Weak
 - Conflicting
 - Expert Opinion

- 42 topics
 - Cannabis
 - Inspiratory muscle training
 - Bowel treatments
- 11 videos
 - Sex after SCI
 - Spasticity
 - Transfers

- Informs current best practice
- Also informs knowledge gaps - areas that need further research
- Translated into multiple languages - French

SCIRE Community content

- Pressure injuries
- <https://scireproject.com/community/topic/pressure-injuries/>

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