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Spinal Cord Injury Functional Index (SCI-FI)

Availability:	Copyright protected Kessler Foundation, David Tulsky, and Boston University. However, measure available free of charge at (Assessment Center Link). Users must sign an agreement promising not to modify the scale without permission.
Classification:	**Exploratory**: Spinal Cord Injury (SCI); not recommended for youth < 18
Short Description of Instrument:	**Construct Measured:** Physical Function **Generic vs. disease specific:** Disease specific **Means of administration:** Questionnaire via computer adaptive testing **Intended respondent:** Participant/Subject (Patient Reported Outcome) **Item number:** 275 items in total bank. Exact number of items will vary per participant based on responses. **Subscales, names of subscales** (number of items per subscale)**:** Five subscales; basic mobility (54), self-care (90), fine motor function (36), ambulation (39), wheelchair mobility (56) **Short Form** **Item number:** 61 **Subscales, names of subscales** (number of items per subscale): basic mobility (11), self care (11), fine motor (9), ambulation (11), wheelchair mobility (20)
Comments/Special instructions:	**Background:** The SCI-FI is a computer adaptive test, the administration involves being able to access internet. If internet access is not available or CAT is not desirable, short forms are available. The SCI-FI was developed using a participant-centered approach in which many items were written based on comments and feedback from individuals with SCI. Computer adaptive testing allows tailored item selection based on previous responses. **SCI-Pediatric specific:** To date the SCI-FI has only been evaluated in adults. A current ongoing study is evaluating the ability to link the Pediatric SCI CAT with the SCI-FI CAT for use in the pediatric population.
Rationale/ Justification:	**Strengths/Weaknesses:** The SCI-FI may be used for all levels and severities of injury, but may be less appropriate for acute and early Phase trials/interventions. Has undergone some validation testing, no reliability testing. Has not been used in SCI trials to date.
References:	**Development and Evaluation:** Fyffe, D., Kalpakjian, C.Z., Slavin, M., Kisala, P., Ni P., Kirshblum, S.C., Tulsky, D., & Jette, A.M. (2016). Clinical interpretation of the Spinal Cord Injury Functional Index (SCI-FI). J Spinal Cord Med. doi:http://dx.doi.org/10.1080/10790268.2015.1133483. Heinemann, A.W., Dijkers, M.P., Ni, P., Tulsky, D.S., Jette, A. (2014) Measurement

properties of the Spinal Cord Injury-Functional Index (SCI-FI) short forms. Arch Phys Med Rehabil. 95(7):1289–1297.e5.

Jette, A.M., Slavin, M.D., Ni, P., Kisala, P.A., Tulsky, D.S., Heinemann, A.W. . . . & Williams, S. (2015) Development and initial evaluation of the SCI-FI/AT. J Spinal Cord Med. 38(3):409–418.

Jette, A.M., Tulsky, D.S., Ni, P., Kisala, P.A., Slavin, M.D., Dijkers, M.P. . . & Fyffe D. (2012). Development and initial evaluation of the spinal cord injury-functional index. Arch Phys Med Rehabil. 93(10):1733–1750.

Tulsky, D.S., Jette, A.M., Kisala, P.A., Kalpakjian, C., Dijkers, M.P., Whiteneck. G . . . . & Zanca, J. (2012). Spinal cord injury-functional index: item banks to measure physical functioning in individuals with spinal cord injury. Arch Phys Med Rehabil. 93(10):1722–1732.

SCI-Pediatric specific:

Calhoun, C.L., Haley, S.M., Riley, A., Vogel, L.C., McDonald, C.M. & Mulcahey, M.J. (2009) Development of items designed to evaluate activity performance and participation in children and adolescents with spinal cord injury. Int J Pediatr. 854904.

Jette, A.M., Tulsky, D.S., Ni, P., Kisala, P.A., Slavin, M.D., Dijkers, M.P. . . . & Fyffe D. (2012) Development and initial evaluation of the spinal cord injury-functional index. Arch Phys Med Rehabil. 93(10):1733–1750.