New England SCI Toolkit

The New England SCI Toolkit (NESCIT) is a collaborative effort between facilities providing spinal cord injury (SCI) rehabilitation in New England. This collaboration ensures patients throughout New England and beyond are receiving the same coordinated standard of care wherever they receive rehabilitation. Further, this Toolkit will aid in building capacity at facilities that may not treat patients with SCI often enough to have developed expertise.

Our objective was to develop a toolkit for SCI education and care designed as an educational tool for use after acute rehabilitation to help improve functional outcomes while decreasing the frequency of complications associated with paralysis for people with SCI.

Facilities participating with NESCIT will contribute to the communication between clinicians to share treatment ideas, problem solve, and discuss program development ideas. We encourage NESCIT Network and others, to share their processes and resources with other facilities to ensure consistency of care.

THIS TOOL DOES NOT PROVIDE MEDICAL ADVICE. It is intended for informational purposes only. It is not a substitute for professional medical advice, diagnosis, or treatment. Never ignore professional medical advice in seeking treatment because of something you have read in the Toolkit. If you think you may have a medical emergency, immediately dial 911.

New England Spinal Cord Injury Toolkit Standards

1. Patient/Family/Caregiver Education

1.1.STANDARD: Individuals, their family members and caregivers taking part in inpatient rehabilitation for spinal cord injury (SCI) will receive appropriate education to maximize functional independence and minimize secondary health conditions. Education will encompass all areas of SCI rehabilitation and will be included in all standards listed.

Minimum Requirements:

- Core educational areas: autonomic dysreflexia, bowel/bladder, SCI anatomy & physiology, skin care, respiratory care, sexuality, medical complications, psychosocial, home modifications, equipment needs, rehabilitation team roles, community reentry (including accessibility), medications, discharge planning, nutrition & lifestyle (exercise), spasticity management and contracture prevention, pain, driving, recreation, community and educational resources, assistive technology, vocational rehabilitation, mobility, self-care, self-advocacy, circulatory (DVT, etc.), heterotopic ossification (HO), health care maintenance (preventative care, follow up with outpatient appointments, etc.)
- Patient and/or caregiver competency established via verbal recall and/or demonstration

- Yes, You Can! A Guide to Self-Care for Persons with Spinal Cord Injury published by the Paralyzed Veterans Association (PVA). The book can be ordered online at http://tinyurl.com/ksa3z5e
- PVA Consumer Guidelines* are available on multiple topics and are free downloads at http://tinyurl.com/mfgnnj2
- PVA Clinical Practice Guidelines* are available on multiple topics and are free downloads at http://tinyurl.com/oxozdtm
- Paralysis Resource Center, Christopher and Dana Reeve Foundation http://www.christopherreeve.org and toll-free 1-800-225-0292. Information is offered in multiple languages
- Connecticut Resource Directory & patient packet by CT Chapter of National Spinal Cord Injury Association at www.sciact.org
- Peer mentor programming offered through National Spinal Cord Injury Association, call 203-284-2910
 in Connecticut or 781-933-8666 in Massachusetts
- Stepping Forward Staying Informed Consumer Education Program and Knowledge in Motion webcasts (available on NERSCIC website) http://tinyurl.com/NERSCICvids
- SCI Guide www.sciguide.org including Top Sites for Newly Injured and Best of the Best sites
- Inpatient and outpatient support groups including family/caregiver support groups
- Patient Education Manual(site-specific to obtain a copy from Gaylord Hospital, contact Diana Pernigotti at <u>DPernigotti@gaylord.org</u> and contact Joanne Morello at <u>Jmorello@northeastrehab.com</u> for a copy from Northeast Rehabilitation)
- National Institute of Health Physical Exam Recommendations http://tinyurl.com/335k9n
- Model Systems Knowledge Translation Center SCI Factsheets (available online from NERSCIC website
 and the MSKTC website as a complete booklet http://tinyurl.com/mrxqju6 or separate topics at
 www.MSKTC.org)

^{*} To access, Adobe must be installed on your device

2. Autonomic Dysreflexia

2.1.STANDARD: All care providers will identify episodes of autonomic dysreflexia (AD) and provide appropriate intervention. Intervention will include identifying and removing noxious stimuli, providing medical care as indicated, and monitoring patient's status.

Minimum Requirements:

- Facility has an AD policy and procedure or guideline in place
- All care providers are trained to identify signs and symptoms of AD
- All care providers are trained to follow facility policy and procedure on AD
- All care providers will understand the causes of AD for prevention
- Staff competency conducted for all care providers

Recommended Resources:

- Yes, You Can! A Guide to Self-Care for Persons with Spinal Cord Injury published by the Paralyzed Veterans Association (PVA). The book can be ordered online at http://tinyurl.com/ksa3z5e
- Patient Education Manual (site-specific to obtain a copy from Gaylord Hospital, contact Diana Pernigotti at <u>DPernigotti@gaylord.org</u> and contact Joanne Morello at <u>Jmorello@northeastrehab.com</u> for a copy from Northeast Rehabilitation)
- Specialized courses offered through NESCIT facilities on SCI available to outside caregivers with CEUs. The SCI Specialist course will be offered at Gaylord Hospital in early 2015. Contact Janine Clarkson at <u>Jclarkson@gaylord.org</u> for more information.
- Christopher and Dana Reeve Foundation Paralysis Resource Guide (available in English/Spanish for free) http://tinyurl.com/qzll2gq
- PVA Clinical Practice Guideline Acute Management of Autonomic Dysreflexia* http://tinyurl.com/p36sff6
- General SCI Competency at Northeast Rehabilitation Contact Joanne Morello at Jmorello@northeastrehab.com for more information

2.2 STANDARD: Refer to STANDARD 1: Patient/Family/Caregiver Teaching

- Credit card-style AD education cards for patients from the PVA available to download at http://tinyurl.com/qh6gmoj
- Education cards in Yes, You Can! book The book can be ordered online at http://tinyurl.com/ksa3z5e
- PVA Consumer Guideline Autonomic Dysreflexia: What You Should Know* available for free download at http://tinyurl.com/kfrobkd

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3. Skin Care

3.1 STANDARD: Patients taking part in inpatient rehabilitation will be free from new pressure ulcers throughout their stay. All disciplines involved in patient care will take part in the education and prevention of pressure ulcers.

Minimum Requirements:

- Facility has a skin care policy and procedure or guideline in place
- Staff competency conducted for appropriate providers for prevention and standardized assessment of risk
- All care providers are trained to follow facility policy and procedure/guidelines on skin care
- Site-specific skin management program encompassing assessment, prevention and treatment
- Access to certified wound care specialist (WOCN) (for most up-to-date evidence-based care)
- Process in place for measuring outcomes

Recommended Resources:

- PVA Clinical Practice Guide Pressure Ulcer Prevention and Treatment Following Spinal Cord Injury* available for free download at http://tinyurl.com/m6xubgd
- PVA Consumer Guide Pressure Ulcers: What you Should Know* available for free download at http://tinyurl.com/lqff2kv
- MSKTC SCI Factsheet Skin Care and Pressure Sores in Spinal Cord Injury 6 Part Series available for free at http://tinyurl.com/k9orwb7
- Clinical Practice Guidelines for Prevention and Management of Pressure Ulcers available to purchase at http://tinyurl.com/kaadngs from the Wound Ostomy and Continence Nursing Society at http://www.wocn.org/
- **3.2 STANDARD:** Patients with existing pressure ulcers will receive appropriate treatment to decrease severity of existing ulcers and prevent the development of new ulcers.

Minimum Requirements:

- Facility follows professional standards of care for treatment of existing ulcers, such as Clinical Practice Guidelines for Prevention and Management of Pressure Ulcers per WOCN Society
- Staff competency conducted for appropriate providers for standardized assessment regarding identification and treatment of pressure ulcers
- see 3.1
- 3.3 STANDARD: Refer to STANDARD 1: Patient/Family/Caregiver Education

Recommended Resources (in addition to Standard 1 resources):

 Online lecture from Lauren Harney, RN, BSN, CWON "The Skin You're In: An Overview of Maintaining Skin Integrity for Individuals with Spinal Cord Injury" available to view at http://tinyurl.com/ku45awt

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4. Bladder Management

4.1 STANDARD: Upon admission, each patient will have an assessment of bladder function. A bladder management program will be initiated and followed for all patients taking part in rehabilitation in order to resume regular and complete emptying of the bladder for urinary system health.

Minimum Requirements:

- Facility has a bladder management policy and procedure/guidelines in place
- All appropriate care providers are trained to follow facility policy and procedure/guidelines on bladder management
- All pertinent care providers are trained in appropriate technique and use of adaptive equipment for bladder emptying
- Site-specific bladder management program in place encompassing assessment, intervention and ongoing management
- Staff competency conducted for all direct care providers
- Access to urologic assessment and monitoring as needed

Recommended Resources:

- PVA Consumer Guide Bladder Management Following Spinal Cord Injury: What You Should Know* available for free download http://tinyurl.com/n67wb8b
- PVA Clinical Practice Guideline Bladder Management for Adults with Spinal Cord Injury* available for free download http://tinyurl.com/mgldjg3
- University of Alabama SCI InfoSheets: Bladder Care and Management http://tinyurl.com/kbw43ws
- **4.2 STANDARD**: Staff members will be able to identify urinary complications and provide appropriate intervention.

Minimum Requirements:

- All appropriate care providers are trained to identify signs and symptoms of urinary complications
- Access to ongoing urologic assessment and monitoring to diagnose and develop treatment plans for urinary complications
- Facility has a process in place for measuring and managing outcomes

- Institute for Healthcare Improvement: How-to Guide: Prevent Catheter-Associated Urinary Tract Infection* available for free download at http://tinyurl.com/lwkunaq
- PVA Consumer Guide Bladder Management Following Spinal Cord Injury: What You Should Know* available for free download http://tinyurl.com/n67wb8b
- PVA Clinical Practice Guideline Bladder Management for Adults with Spinal Cord Injury* available for free download http://tinyurl.com/mqldjq3
- University of Alabama SCI InfoSheets: Bladder Care and Management http://tinyurl.com/kbw43ws

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4.3 STANDARD: Individuals, their family members and caregivers taking part in inpatient rehabilitation for SCI will receive appropriate education in bladder management techniques to maximize functional independence and minimize secondary health conditions.

Minimum Requirements:

- Family/caregiver/patient training on bladder management techniques and use of adaptive equipment during inpatient rehabilitation
- Family/caregiver/patient training on identification of signs and/or symptoms of urinary complications and possible interventions, including seeking medical attention
- Family/caregiver/patient competency established via verbal recall and/or demonstration

- Institute for Healthcare Improvement: How-to Guide: Prevent Catheter-Associated Urinary Tract Infection* http://tinyurl.com/lwkunaq
- PVA Consumer Guide Bladder Management Following Spinal Cord Injury: What You Should Know* available for free download http://tinyurl.com/n67wb8b
- PVA Clinical Practice Guideline Bladder Management for Adults with Spinal Cord Injury* available for free download http://tinyurl.com/mqldjq3
- University of Alabama SCI InfoSheets: Bladder Care and Management http://tinyurl.com/kbw43ws

5. Bowel Management

5.1 STANDARD: Each patient will have an assessment of bowel function. A bowel program will be initiated and followed for all patients in order to strive for regular and complete emptying of bowels.

Minimum Requirements:

- Facility has bowel management policy and procedures/guidelines in place
- All appropriate care providers trained to follow policy and procedure/guidelines on bowel management
- All pertinent care providers are trained in appropriate technique and use of adaptive equipment for bowel emptying
- Site-specific bowel management program in place encompassing assessment, intervention, and ongoing management
- Access to bowel management assessment and monitoring as needed

Recommended Resources:

- PVA Consumer Guide Neurogenic Bowel: What You Should Know* available for free download http://tinyurl.com/n3gfaxl
- PVA Clinical Practice Guideline Neurogenic Bowel Management in Adults with Spinal Cord Injury* available for free download http://tinyurl.com/kzkbfwe
- University of Alabama InfoSheets Bowel Management after Spinal Cord Injury http://tinyurl.com/kbw43ws
- Spinal Cord Injury Rehabilitation Evidence (SCIRE) Project factsheet http://tinyurl.com/nypud95
 Canadian sourced
- **5.2 STANDARD:** Staff members will be able to identify complications of ineffective bowel management and provide appropriate intervention.

Minimum Requirements:

- All appropriate care providers trained to identify signs and symptoms of bowel dysfunction
- Ongoing bowel monitoring and assessment to diagnose and develop treatment plans for bowel complications
- Process in place for measuring outcomes

- One page information sheet plus extra notes for each individual patient being discharged from acute rehabilitation with specific comments regarding their bowel program
- PVA Consumer Guide Neurogenic Bowel: What You Should Know* available for free download http://tinyurl.com/n3qfaxl
- PVA Clinical Practice Guideline Neurogenic Bowel Management in Adults with Spinal Cord Injury* available for free download http://tinyurl.com/kzkbfwe
- University of Alabama InfoSheets: Bowel Management after Spinal Cord Injury http://tinyurl.com/kbw43ws
- Spinal Cord Injury Rehabilitation Evidence (SCIRE) Project factsheet http://tinyurl.com/nypud95
 Canadian sourced

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- Spaulding-Harvard Model System patient education bowel PowerPoint presentation Bowel and Bladder Management http://tinyurl.com/mve9nwv
- **5.3 STANDARD:** Individuals, family members and caregivers taking part in inpatient rehabilitation for SCI will receive appropriate education in bowel management techniques to maximize functional independence and minimize secondary health conditions.

Minimum Requirements:

• Patient and/or caregiver competency established via verbal recall and/or demonstration

Recommended Resources:

 PVA Clinical Practice Guideline Neurogenic Bowel Management in Adults with Spinal Cord Injury* available for free download http://tinyurl.com/kzkbfwe specifically pp. 29-31

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6. Sexual Health and Fertility

6.1 STANDARD: Individuals and their appropriate family member(s) or partner(s) will be offered age specific education and counseling regarding medical and psychosocial issues related to sexual health and function after an SCI.

Minimum Requirements:

- Facility has a process to assess/educate re: sexual health in SCI- "Who says what when?"
- Maintain an open discussion and provide access to education about sex in both formal and informal settings throughout the treatment continuum
- Care providers may offer referral to the appropriate rehabilitation professional in collaboration with the medical provider

Recommended Resources:

These sites may contain health- or medical-related materials that are sexually explicit. If you find these materials offensive, you may not want to use them. The site and the content are provided on an "as is" basis.

- PVA Consumer Guide Sexuality and Reproductive Health for Adults with Spinal Cord Injury: What You Should Know* available for free download http://tinyurl.com/kfnvtby
- PVA Clinical Practice Guideline Sexuality and Reproductive Health in Adults with Spinal Cord Injury* available for free download http://tinyurl.com/mnmwhfv
- Christopher and Dana Reeve Foundation Paralysis Resource Guide pp. 188-197 http://tinyurl.com/m5w3yo3

Additional Resources:

- Dr. Stan Ducharme <u>www.stanleyducharme.com</u>
- Mitchell S. Tepper, PhD, MPH http://mitchelltepper.com
- **6.2 STANDARD:** Care providers will be able to identify common physical and emotional challenges related to sexual functioning and provide appropriate intervention, resources, and/or referrals.

Minimum Requirements:

- Care providers will offer general information and resources on the impact of SCI on sexual functioning, as well as safety considerations e.g., autonomic dysreflexia
- Provide individualized recommendations and/or referral for diagnosis and treatment of sexual health challenges/dysfunction in SCI

Recommended Resources:

- PVA Consumer Guide Sexuality and Reproductive Health for Adults with Spinal Cord Injury: What You Should Know* available for free download http://tinyurl.com/kfnvtby
- PVA Clinical Practice Guideline Sexuality and Reproductive Health in Adults with Spinal Cord Injury* available for free download http://tinyurl.com/mnmwhfv
- Christopher and Dana Reeve Foundation Paralysis Resource Guide pp. 188-197 http://tinyurl.com/mt68yr5

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- University of Alabama InfoSheets:
 - Sexual Function for Men with SCI http://tinyurl.com/cbg92ot
 - Sexuality for Women with Spinal Cord Injury http://tinyurl.com/l28pouk

Additional Resources:

- Dr. Stan Ducharme www.stanleyducharme.com
- Mitchell S. Tepper, PhD, MPH http://mitchelltepper.com

6.3 STANDARD: Individuals and their appropriate family members or partner will be offered information and resources to help educate them on fertility options.

Minimum Requirements:

- Appropriate care providers will provide general information and resources re: reproductive health and fertility
- Provide medical referrals to people interested in further options

- PVA Consumer Guide Sexuality and Reproductive Health for Adults with Spinal Cord Injury: What You Should Know* available for free download http://tinyurl.com/kfnvtby
- PVA Clinical Practice Guideline Sexuality and Reproductive Health in Adults with Spinal Cord Injury* available for free download http://tinyurl.com/mnmwhfv
- Christopher and Dana Reeve Foundation Paralysis Resource Guide pp. 188-197 http://tinyurl.com/mt68yr5
- Miami Project- Male Fertility Following Spinal Cord Injury: A Guide For Patients http://tinyurl.com/l7p8zwj

7. Spasticity

7.1 STANDARD Staff members will identify spasticity and provide intervention as appropriate. Intervention will include identifying and addressing potential triggers, providing medical and therapeutic care as needed and monitoring patient's status.

Minimum Requirements:

- Facility has a process to educate staff members re: the identification, evaluation and management of spasticity using an inter-disciplinary approach
- Staff competency conducted for all care providers
- Maintain an open discussion and provide access to education about spasticity in both formal and informal settings throughout the treatment continuum
- Care providers may offer referral to the appropriate rehabilitation professional in collaboration with the medical provider

Recommended Resources:

- Christopher and Dana Reeve Foundation Paralysis Resource Guide http://tinyurl.com/m5w3yo3
- MSKTC SCI Factsheet Spasticity and Spinal Cord Injury http://tinyurl.com/lsqbezc
- FacingDisability.com http://tinyurl.com/mxc3azy
- eLearn A web-based teaching and educational resource http://tinyurl.com/kv8qu4b
- **7.2 STANDARD** Patient/Family/Caregivers Teaching: Individuals, their family members, and caregivers will receive appropriate spasticity education to maximize functional independence and minimize secondary health conditions

Minimum Requirements

- Care providers trained to educate patient, family members and caregivers re: spasticity
- Ongoing spasticity education

- Christopher and Dana Reeve Foundation Managing Spasticity http://tinyurl.com/mjd6p76
- Northwest Regional SCI Model System Consumer Information Factsheet-Spasticity and SCI http://tinyurl.com/kwgrymc
- Online lecture from Marika Hess, M.D. from the VA Get a Jump on Spasticity http://tinyurl.com/lu9opf6
- Spasticity and Movement Disorder Checklist http://tinyurl.com/khtgbqb
- Daily Diary http://tinyurl.com/n5hvzpb

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