

## CHECKLIST to support the multidisciplinary assessment and management of pressure injury for people with SCI

This checklist is intended for use with the **SCI PI Toolkit** found on the Agency for Clinical Innovation website [<u>https://www.aci.health.nsw.gov.au/networks/spinal-cord-injury/resources</u>]. It provides a summary of actions based on best practice guidelines that should be considered in the assessment and management of pressure injuries for people with SCI. Additional information and resources can be found in the toolkit. Not all actions will be applicable to all clients and situations.

Assessment of On	going Pressure Injury Risk	Tool / Resource		
	<ul> <li>Pressure injury risk assessment completed</li> <li>Level of risk identified</li> </ul>	<ul> <li>Waterlow Pressure Ulcer Scale</li> <li>Braden Scale</li> <li>SCI PI Toolkit: PI risk assessment in SCI - Risk stratification</li> </ul>		
Red Flags				
Persistent Autonomic Dysreflexia (AD)	<ul> <li>Screening for persistent AD</li> <li>AD identified and treated</li> </ul>	Autonomic Dysreflexia Treatment Algorithm		
Sepsis	<ul> <li>Screening for sepsis</li> <li>Sepsis identified and treated</li> </ul>	Sepsis Pathway - Clinical Excellence     Commission		
Severe malnutrition	<ul> <li>Screening for severe malnutrition</li> <li>Referral made to dietitian for comprehensive nutritional assessment</li> <li>Relevant investigations completed</li> <li>Referral made to the tertiary Spinal Cord Injury service</li> </ul>	<ul> <li>Malnutrition Screening Tool (MST)</li> <li>Spinal Nutrition Screening Tool (SNST)</li> <li>Mini Nutritional Assessment (MNA)</li> <li>Healthy Eating for Adults Factsheet. ACI 2014</li> </ul>		
Multiple pressure injuries	<ul> <li>Screening for multiple pressure injuries</li> <li>Assessment of each wound completed</li> <li>Relevant investigations completed</li> <li>Referral made to dietitian</li> <li>Referral made to the tertiary Spinal Cord Injury service</li> </ul>			
Deep wound infection	<ul> <li>Screening for deep wound infection and possible presence of biofilm</li> <li>Investigations for osteomyelitis completed</li> <li>Contact with / referral made to the tertiary Spinal Cord Injury service</li> </ul>			
Assessment of Wound and Cause and Contributing Factors				
	<ul> <li>Comprehensive wound assessment completed</li> <li>Cause and contributing factors identified</li> <li>Plan for regular monitoring in place</li> </ul>	SCI PI Toolkit: SAMPLE Wound and Contributing Factors Assessment Form		
Wound assessment	<ul> <li>Location of wound(s) identified</li> <li>Possible cause and contributing factors related to wound location identified with the person</li> </ul>	SCI PI Toolkit: Wound assessment - Location		
	<ul> <li>Stage of wound determined</li> <li>For stage 3, 4, deep tissue and unstageable PIs, a referral has been made to the tertiary Spinal Cord Injury service</li> </ul>	<ul> <li>National Pressure Ulcer Advisory Panel, European Pressure Ulcer Advisory Panel and Pan Pacific Pressure Injury Alliance (2014). Prevention and Treatment of Pressure Ulcers: Clinical Practice Guideline.</li> </ul>		
	<ul> <li>Size of the wound measured and documented</li> <li>The position of the person when wound measurements taken is documented</li> </ul>			
	All other descriptors documented			
	Signs of superficial and deep wound infection identified			
	<ul> <li>Validated tool used to evaluate healing</li> <li>Photograph taken in accordance with guidelines</li> </ul>	<ul> <li>Pressure Ulcer Scale for Healing (PUSH)</li> <li>Bates-Jensen Wound Assessment Tool (BWAT)</li> <li>Photographic Wound Assessment Tool (PWAT)</li> </ul>		
	<ul> <li>Screening for adequate community resources to support wound healing</li> </ul>			



SCI-specific and other medical	SCI-specific and other medical conditions identified, assessed and investigated including:	The ACI SCI Pain Navigator
conditions contributing to PI and healing	<ul> <li>Level and extent of SCI</li> <li>impairment</li> <li>Previous Pressure Injury</li> <li>Time since injury</li> <li>Acute illness</li> <li>Ageing</li> <li>Autonomic Dysreflexia</li> <li>Bladder and bowel dysfunction</li> <li>Cognitive Impairment</li> <li>Smoking</li> <li>Leg fracture</li> <li>Pain</li> <li>Poor Nutrition</li> <li>Psychological / Mental</li> <li>Health Disorder</li> <li>Respiratory complications</li> <li>Shoulder / upper limb pain</li> <li>and injury</li> <li>Spasticity and contracture</li> <li>Smoking</li> </ul>	
Nutrition	<ul> <li>Nutritional screen completed</li> <li>Comprehensive nutritional assessment completed:</li> <li>Anthropometric measures</li> <li>Clinical signs and symptoms</li> <li>Physical examination</li> <li>Dietary intake</li> <li>Biochemistry</li> <li>Estimated nutrition requirements</li> </ul>	<ul> <li>Malnutrition Screening Tool (MST)</li> <li>Spinal Nutrition Screening Tool (SNST)</li> <li>Mini Nutritional Assessment (MNA)</li> <li>Healthy Eating for Adults Factsheet. ACI 2014</li> </ul>
Mechanical factors	<ul> <li>Pressure, friction and shear forces across a 24-hour period identified</li> <li>Early referral made to occupational therapist (OT)</li> <li>Comprehensive 24-hour assessment completed by OT including:</li> <li>Mobility and weight shifting</li> <li>Personal care</li> <li>Positioning and mobility in bed</li> <li>Support surfaces</li> <li>Transfers</li> <li>Activity</li> <li>Early referral made for seating assessment</li> <li>Referral made to physiotherapist for further assessment as indicated</li> </ul>	<ul> <li>The Pressure Management Assessment Tool (PMAT) designed by Jennifer Birt</li> <li>ACI (2014) Occupational Therapy Interventions for Adults with Spinal Cord Injury</li> <li>Houghton PE, Campbell KE and CPG Panel (2013). Canadian Best Practice Guidelines for the Prevention and Management of Pressure Ulcers in People with Spinal Cord Injury. A resource handbook for Clinicians.</li> </ul>
Psychological disorders	<ul> <li>Screening for depression</li> <li>Screening for substance use</li> <li>Screening for other psychological and mental health disorder</li> </ul>	Brief Psychosocial Clinical Assessment Tool
Psychosocial and lifestyle factors	<ul> <li>Screening for factors</li> <li>Identified:</li> <li>including:</li> <li>Lifestyle priorities</li> <li>Limited social support or</li> <li>Competing interests, roles and living alone</li> <li>Inadequate personal care</li> <li>Inadequate personal care</li> <li>Coping and problem solving and/or domestic assistance</li> <li>Strategies</li> <li>Caregiver fatigue</li> <li>Financial concerns (Including access to quality equipment, repairs, provision of services)</li> <li>Unsustainable work or family commitments</li> <li>Referral made to social worker and/or psychologist for comprehensive assessment</li> </ul>	<ul> <li>ACI SSCIS Emotional wellbeing toolkit: a clinician's guide to working with spinal cord injury</li> <li>Chapter 2: Human Factors in Houghton PE, Campbell KE and CPG Panel (2013). Canadian Best Practice Guidelines for the Prevention and Management of Pressure Ulcers in People with Spinal Cord Injury. A resource handbook for Clinicians.</li> <li>The ACI SCI Pain Navigator</li> </ul>
Psychosocial impact of PI	A strategy in place to regularly assess the psychosocial impact of a pressure injury	
Self management skills	<ul> <li>Self management support needs addressed</li> <li>Level of self-management determined</li> </ul>	<ul> <li>Skin Management Needs Assessment Checklist</li> <li>Flinders Model of Chronic Condition Self Management</li> <li>Principle 1: Self Management p.27 The SSCIS Model of Care for Prevention and Integrated Management of Pressure Injuries in People with Spinal Cord Injury and Spina Bifida</li> </ul>



Mound	Wound cleansing regime and dressing selected based on outcome of	Consortium of Spinal Cord Medicine Table:
Wound management	<ul> <li>Wound cleansing regime and dressing selected based on outcome of comprehensive wound assessment, bacterial bioburden and the goals of the person with the pressure injury</li> <li>Sharp debridement done, when indicated</li> <li>Plan for ongoing wound assessment in place</li> </ul>	Consortium of spinal Cord Medicine Table: Type of dressings
SCI-specific and other medical	<ul> <li>SCI-specific and other medical conditions addressed</li> <li>Referral made to medical specialist when indicated</li> </ul>	
conditions Nutrition	Nutrition optimised and malnutrition addressed including:	Healthy Eating for Adults Factsheet. ACI
Nutrition	<ul> <li>Early nutritional support</li> <li>Strategies to facilitate access to nutritional supplements</li> <li>Calculation of SCI-specific calorie, protein and fluid intake</li> <li>Consideration of Arginine, supplements and enteral feeding in accordance with precautions and contraindication</li> </ul>	2014
Mechanical factors over the 24 hour period	<ul> <li>Strategy in place to offload / remove pressure from the wound</li> <li>Bed positioning plan to offload the wound and protect other at-risk areas devised</li> <li>Mattress upgrade considered</li> <li>Priority equipment to support optimal pressure management in place</li> <li>Monitoring for complications of bed rest</li> <li>Gradual return to sitting plan implemented when appropriate</li> <li>Wheelchair positioning and support surfaces optimised through early seating assessment</li> <li>Pressure redistribution strategies are effective</li> <li>All other support surfaces optimised</li> </ul>	<ul> <li>Daily Skin Check Guide</li> <li>Bed Rest Factsheet</li> <li>SOS Clinical Considerations for Bed Rest</li> <li>SCI PI Toolkit: SAMPLE Positioning Plan</li> <li>SCI PI Toolkit: AMPLE Gradual Return to Sitting Plan</li> <li>Module 8: Spinal Seating Professional Development Program. Agency for Clinical Innovation and NSW State Spinal Cord Injury Service 2017.</li> <li>Occupational Therapy Interventions for Adults with Spinal Cord Injury</li> <li>Queensland Spinal Outreach Team (SPOT): Information and assessment tool to guide pressure redistribution mattresses (PRM) selection.</li> </ul>
Psychosocial and lifestyle factors/ Impact of a PI	<ul> <li>Essential practical, social and psychological supports</li> <li>Possible barriers to successful wound healing identified and managed</li> </ul>	<ul> <li>ACI SSCIS Guide for Health Professionals on the Psychosocial Care of Adults with Spinal Cord Injury</li> <li>ACI SSCIS Emotional Wellbeing Toolkit: A Clinicians Guide to working with Spinal Cord Injury</li> <li>Lifestyle Redesign® for Pressure Ulcer Prevention in Spinal Cord Injury project. University of Southern California (USC) and Rancho Los Amigos National Rehabilitation Center (RLANRC)</li> </ul>
Self Management	<ul> <li>Resources supporting self management provided</li> <li>Development of a personal action plan facilitated</li> <li>Strategy to support the person to make changes to minimise ongoing PI risks</li> <li>Referral for case management considered</li> </ul>	<ul> <li>SCI PI Toolkit – Consumer Resources</li> <li>E.g. SCI-U for Healthy Living</li> </ul>
Surgical Options	<ul> <li>Referral made to the tertiary SCI service</li> <li>The person is able to demonstrate post-operative requirements (e.g. bed rest, bed positioning) and has addressed the PI cause and contributing factors</li> <li>Prior to admission, equipment, care and other management strategies are in place for discharge</li> </ul>	SCI PI Toolkit: SAMPLE Wound and Contributing Factors Assessment Form
Maintenance and non- healable	<ul> <li>Referral made to the tertiary SCI service</li> <li>Maintenance wound management plan in place</li> <li>Monitor for red flags and subtle signs of deterioration</li> </ul>	
wounds		

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Referral				
	Referrals made to:         Nurse Practitioner/ Clinical Nurse Consultant/ Specialist in local health district         SCI-specific services         E.g. Spinal Outreach Service (SOS), Rural Coordinator Spinal Outreach Service, Assistive Technology and Seating, Prince of Wales Spinal Seating Clinic, Hunter SCI Service, Paraquad NSW.         Tertiary SCI services (NSW):         Royal North Shore Hospital Spinal Plastics Service         Prince of Wales Spinal Pressure Care Clinic         Paediatric Rehabilitation Service (for children with SCI or SB < 18 years of age)         Spina Bifida Adult Resource Team (SBART) (> 18 years of age).	<ul> <li>NSW SSCIS Pathway for Management of PI in SCI</li> <li>ACI SCI Referral Directory</li> <li>Paediatric Rehabilitation Service</li> <li>Spina Bifida Adult Resource Team (SBART)</li> <li>Royal North Shore Hospital Spinal Plastics Service</li> <li>Prince of Wales Spinal Pressure Care Clinic</li> </ul>		
Key Actions				
<ul> <li>Priority referral made to multidisciplinary team including community nurse (and clinical nurse consultant/ specialist / practitioner) and general practitioner</li> <li>Assessment and individualised management plan made in collaboration with the person and communicated to carers, care providers and the multidisciplinary team with consent from the person</li> <li>Strategy in place for regular reassessment and evaluation of management plan to prevent chronic wounds and complications of bed rest</li> </ul>				