

Standards of Physiotherapy and Occupational Therapy Practice in the Management of Burn Injured Adults and Children 2017

Revised by the Burn Therapy Standards Working Group 2017

Endorsed by the BBA Burn Therapists' Interest Group, the British Burn Association and the Four Burn Operational Delivery Networks.



Northern Burn Care Network



London and South East of England Burn Network

Midland Burn
Operational Delivery Network







Foreword

This document is a revision of the published 'Standards of Physiotherapy and Occupational Therapy Practice in the Management of Burn Injured Adults and Children', 2005 (1), which itself was a development from the original document 'Standards of Physiotherapy and Occupational Therapy Practice for the Management of People following Burn Injury', 2000 (2).

It is imperative this document is used in conjunction with relevant documentation produced by the professional bodies, The Chartered Society of Physiotherapy and The College of Occupational Therapy (3,4,5,6) and also the National Burn Care Standards, 2013 (referred to subsequently as NBCS) (7). Several references are made to these documents throughout these standards. It is noted that all Physiotherapists and Occupational Therapists must adhere, in full, to their professional codes of practice. In addition, relevant guidelines and standards produced by other clinical interest groups should also be considered where appropriate.



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How to use this document

This document is organised into sections relating to different elements of Burn Therapy. This document contains both **standards** of burn therapy and **guidance on specific considerations** for clinical decision making. The **standards** are the expected baseline threshold that should be met for Physiotherapy and Occupational Therapy management. The standards can be used for audit.

Following the standards, each section contains an algorithm, to direct professional clinical decision making. The algorithm and accompanying table of specific considerations are a guide to assessment and treatment. Therefore the **specific considerations suggest how the standards may be achieved**. The specific considerations do not form the standards but should be used at the therapist's discretion, as guidance for clinical reasoning to allow the standards to be met.

Introduction

Approximately 250,000 people experience burn injuries in the UK each year, varying from small burns requiring minimal treatment, to major burns which require intensive and prolonged hospital care (1). A burn injury can affect people of any age and of any background. Recent advances in the management of major burn injuries have resulted in an increase in survival rates. These patients often have more complex rehabilitation needs. However severe the burn injury, it has the potential to have a physical and/or psychosocial impact for which the therapist has a specialist role to play.

Physical, functional, psychosocial and aesthetic rehabilitation must be commenced immediately post burn in order to achieve optimal outcome. The ultimate goal of burn rehabilitation is to assist the individual in their return to preinjury status. The nature of some burn injuries may make this impossible and in such cases, the focus is on returning the individual to as near their pre-morbid status as possible. For some individuals, in particular those who have sustained major burns or who have complex additional needs, the entire rehabilitation process may last for many years.

It is essential that burn rehabilitation is multi-disciplinary (NBCS Standard A-4), co-ordinated, individualised and holistic. The affected individual will require the services of a team of highly specialised, dedicated healthcare professionals. Staff providing specialised burn services must be members of the burn care team and have burns specific time allocated in their job plan (NBCS Standard B-19). The Physiotherapist or Occupational Therapist will be referred to as the Burn Therapist in this document unless otherwise specified. This is a reflection on the fact that the Physiotherapist and Occupational Therapist roles will often overlap and also vary across different service providers.

The Burn Therapist plays a vital role throughout the recovery from burn injury and the emphasis will change throughout the rehabilitation process. The sections listed will be relevant to the treatment of burn patients in both the initial phase of treatment and following each surgical reconstructive intervention.

Specialised burn care services are provided by designated Burn Centres, Burn Units or Burn Facilities and organised on a regional network structure. Therapists working in burn services should have specific training and experience in the care of people with burns (NBCS Standard B-19). It is vital that therapists have access to education and training (Standard B-16 NBCS) to ensure they meet a required competency framework and are able to provide the best possible care.



Aims of this document

- To assist Physiotherapists and Occupational Therapists working with burn injured patients to meet the requirements of the National Burn Care Standards (7).
- To guide Physiotherapists and Occupational Therapists in the assessment and treatment of burn injured patients.
- To ensure equity of therapy care between service providers.
- To incorporate best practice guidance, using the evidence base where possible and expert consensus where this is lacking.
- To inform service users and carers.
- To facilitate audit and research.

Scope

The guidance set out in this document should be used in conjunction with information from employers and other relevant organisations and professional bodies. These standards and accompanying flow diagrams and information tables are designed to assist in the clinical decision making process. The Burn Therapist is required to use their own clinical reasoning skills and judgment in the delivery of individualised assessment and treatment programs.

Physiotherapists or Occupational Therapists delivering care to burn injured patients at any point in their care pathway, in any setting, can refer to this document in order to inform best practice.



Section 1 Core Professional Standards

It is imperative to highlight that the Burn Therapist is legally and ethically obliged to maintain all of the professional standards laid down by their relevant professional bodies (Chartered Society of Physiotherapy, College of Occupational Therapy, Health and Care Professions Council).

The following core standards are of particular relevance to the Burn Therapist.

Standard 1.1 The burn injured child or adult will be respected and treated as an individual by their Burn Therapist.

- -Quality Assurance Standards for Physiotherapy Practice
- -Professional Standards for Occupational Therapy Practice Section 2 2
- -Code of Ethics and Professional Conduct for Occupational Therapists

Standard 1.2 The Burns Therapist will follow the standards laid down by law and their professional bodies or other relevant professional bodies relating to informed consent. Where an individual lacks capacity to give consent for themselves the appropriate process is in place to allow a best interests decision to be made under the relevant acts of law.

- -Quality Assurance Standards for Physiotherapy Practice Section 5
- -Professional Standards for Occupational Therapy Practice Section 2 2
- -Code of Ethics and Professional Conduct for Occupational Therapists
- -Mental Capacity Act
- -Safeguarding Children Act
- -Local Policies

Standard 1.3 The Burn Therapist is ethically and legally obliged to treat all information relating to the burn patient in the strictest of confidence.

- -Quality Assurance Standards for Physiotherapy Practice Section 7
- -Professional Standards for Occupational Therapy Practice Section 2, 7
- -Code of Ethics and Professional Conduct for Occupational Therapists

Standard 1.4 The Burn Therapist must recognise, understand and fulfil their duty of care.

- -Quality Assurance Standards for Physiotherapy Practice
- -Professional Standards for Occupational Therapy Practice Section 1.7
- -Code of Ethics and Professional Conduct for Occupational Therapists



Standard 1.5 The Burn Therapist must be able to evidence that they are carrying out best practice and following national and local guidelines relevant to burn care. There should be dissemination of current clinical evidence and best practice between Burn Therapists, (NBCS F-1)

The Burn network supports educational programmes that meet the identified learning needs of therapists (NBCS G-9).

Standard 1.6 All documentation must meet the relevant legal and professional standard. The documentation must be accurate and timely. The Therapist must be able to keep accurate, comprehensive and comprehensible records (HCPC Standards of Proficiency 10.1 Occupational Therapy and Physiotherapy). It is recognised that there is variation in the way in which documentation is held: some services have electronic patient records, some have combined multidisciplinary notes others have individual therapy records.

Standard 1.7 The Burn Therapist must comply with local and national safeguarding children, young people and vulnerable adult policies (NBCS E-12). At the point of initial assessment the therapist must be aware of how to escalate any concerns and should be aware of the appropriate investigations.



Section 2 Delivery of Care

These are general standards of practice to support the therapist's delivery of care. They may be pertinent to one or more of the other standard sections.

Standard 2.1 The patient should have a named therapist throughout their care (inpatient and out-patient settings) and access to the therapists contact details. The named therapist will be responsible for co-ordinating the patient's therapy.

Standard 2.2 Working as an integral part of the burns multi-disciplinary team, the therapist assists, co —ordinates and where appropriate leads the planning, implementation and review of the patient's on-going care and management (NBCS A-4 Plan of Care).

Standard 2.3 Treatment modalities, techniques and outcomes are recorded within 24 hours and with sufficient accuracy to enable another therapist to replicate the treatment.

Standard 2.4 The patient, and where possible their family or carers, are educated in all aspects of the therapeutic treatment programme including the purpose and potential benefits of treatment as well as the risks of non-compliance. This must be documented in the patient's notes

Standard 2.5 Accurate assessment is used to create a problem list, a treatment plan and treatment goals which are developed in conjunction with the patient and their family or carers whenever possible. This should be reviewed and updated at regular intervals and shared with the MDT.

Standard 2.6 Where possible and appropriate, written information is given to supplement verbal advice and this is evidenced in the notes. (NBCS A-2)

Standard 2.7 There is written evidence that regular liaison has occurred with relevant MDT members as appropriate to the need of the patient dependant on size and severity of the burn injury. Copies of written referrals and reports are kept in the Patient's notes (NBCS A-4).

Standard 2.8 The Burn Therapist should have access to rehabilitation facilities both on and off the ward (NBCS D-12).

Standard 2.9 The Burn Therapist considers referral to local therapy services for on-going rehabilitation as appropriate.

Standard 2.10 The Burn Therapist should ensure there is a written transfer summary and/or telephone conversation with the receiving therapist on transfer of patient between care services.

Standard 2.11 The Burn Therapist should review the patient with the Consultant Burns Surgeon at pre-operative reconstruction appointments to plan delivery of care post reconstruction.

Standard 2.12 Appropriate outcome measures are used for each aspect of identified need in line with the BBA document Outcome Measures for Adult and Paediatric Services 2nd Edition 2016 (11).



Specific Considerations for Delivery of Care

For the standards to be met, a professional assessment must be carried out by the therapist. The following list is to be used as guidance on factors to consider, as appropriate to the size and severity of the burn injury. All information gathered must be documented clearly and concisely. Where information is not available it can be obtained at a later stage as appropriate.

ADULTS	CHILDREN	
Patient Information	Patient Information	
Name	Name	
NHS and hospital numbers	NHS and hospital numbers	
Date of birth	Date of birth	
Address	Address	
Contact telephone number	Contact telephone number	
GP details Next of kin details	GP details Parent/Guardian details	
Next of kill details	raient/ Guardian details	
History of Present Condition	History of Present Condition	
Cause of burn injury (Flame, scald, chemical etc.)	Cause of burn injury (flame, scald, chemical etc.)	
Location of where incident occurred (home, work,	Location of where incident occurred (home, work,	
indoors, inside car, outdoors etc.)	indoors, inside car, outdoors etc.)	
Nature of the incident (accidental, suspected non	Nature of the incident (accidental, suspected non	
accidental, deliberate self-harm, assault)	accidental, deliberate self-harm, assault)	
Date and time of burn	Date and time of burn	
Date and time of admission to burn service	Date and time of admission to burn service	
Exposure to smoke or other respiratory irritants	Exposure to smoke or other respiratory irritants	
Additional Injuries	Additional Injuries	
%TBSA, distribution, depth (to include body diagram)	%TBSA, distribution, depth (to include body diagram)	
Treatment at scene/first aid given	Treatment at scene/first aid given	
Treatment to date and details of surgical	Treatment to date and details of surgical	
interventions	interventions	
Current medication	Current medication	
Past Medical History	Past Medical History	
Include all Past Medical History	Include all Past Medical History	
Any Psychiatric History	Any Psychiatric History	
Any Learning Disability	Any Learning Disability	
Cognition pre-admission	Developmental stage	
Level of physical function prior to admission	Drug history pre-admission	
Drug history pre-admission	Allergies	
Allergies		



Social History

Hand dominance

Smoking history

Alcohol history

Recreational drug history

Patients accommodation details: who they live with,

type of dwelling

Pre-burn level of support from family, friends, carers.

Pre-burn level of mobility, use of walking aid

Occupation

Hobbies

Language

Religion

Previous community input/ other agencies

Social History

Hand dominance

Patients accommodation detail: who they live with,

type of dwelling

Pre-burn social situation.

Pre -burn developmental stage

Schooling

Hobbies

Language

Religion

Previous community input/ other agencies

Substance abuse, smoking, alcohol



Section 3 Respiratory

Standard 3.1 An assessment of the patient's pre-burn respiratory function is carried out.

Standard 3.2 An assessment of the patient's current respiratory function is carried out, as appropriate to the location and severity of the injury, within 24 hours of the patient's admission. Those with acute deterioration (as identified by senior medical staff) are seen within forty five minutes. The physiotherapist must conduct a respiratory assessment for all patients with:

- Suspected or known inhalation injury
- Artificial airway
- Mechanical or non-invasive ventilation
- Supplementary oxygen requirement
- Pre-existing respiratory problems
- Other respiratory complications as a result of the burn injury.

The respiratory assessment should be carried out as per ACPRC guidelines (2009) and NICE guidelines CG83.

Standard 3.3 Respiratory assessment findings are accurately recorded.

Standard 3.4 The assessment findings are used to form a treatment plan tailored to the individual needs of the patient to regain optimal respiratory function.

Standard 3.5 Where possible, the treatment plan is developed in conjunction with the patient and their family or carers (NBCS A-4).

Standard 3.6 The Burn Therapist implements a treatment plan to improve respiratory function.

Standard 3.7 Treatment modalities, techniques and outcomes are recorded promptly and with sufficient accuracy to enable another therapist to replicate the treatment.

Standard 3.8 The Burn Therapist undertakes re assessment to evaluate the treatment given and adjust the treatment accordingly.

Standard 3.9 Appropriate outcome measures are used to assess treatment efficacy. Outcome measures are used for timely reassessments.

Standard 3.10 Respiratory treatments are carried out by appropriately trained staff who have achieved burns specific competency.

Standard 3.11 The patient, and where possible their family or carers, are educated in all aspects of the therapeutic treatment programme including the purpose and potential benefits of treatment as well as the risks of non-compliance. Care must be taken to tailor this information appropriately according to patient age, state of consciousness and comprehension to optimise their understanding. This must be documented in the patient's notes.

Standard 3.12 Where possible and appropriate, written information is given to supplement verbal advice and this is evidenced in the notes (NBCS A-2).

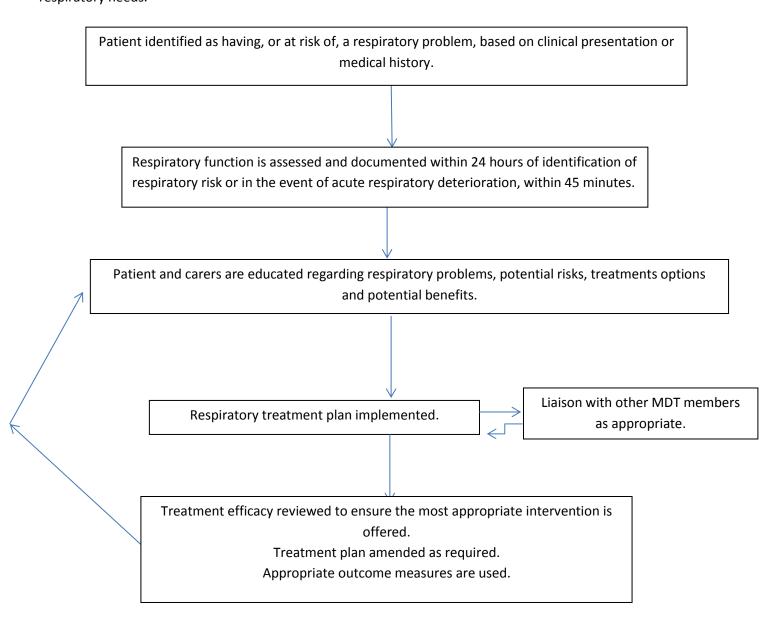


Section 3 Respiratory

A respiratory assessment is conducted to determine the immediate treatment needs of the patient. It is acknowledged that it may only be relevant for the Occupational Therapist to document summary details such as the ventilator status and conscious level of the patient.

The following respiratory criteria are specific to physiotherapists only.

The following algorithm is to guide the therapist on the appropriate course of action for those patients with respiratory needs.





Specific Considerations for Respiratory

ADULTS	CHILDREN	
Considerations / Risk Factors	Considerations / Risk Factors	
Age	Age – Developmental Level	
Long Term Disabilities / Limitations	Past medical history	
Past medical history	History of burn mechanism/risk of inhalation	
History of burn mechanism/risk of inhalation	injury	
injury	Home oxygen	
Home oxygen		
Pre Injury considerations/assessment factors	Pre Injury considerations/assessment factors	
Cough	Developmental level	
Sputum	Mobility (not yet mobile, crawling, walking)	
Wheeze	Recent coughs/colds	
Chest pain	necent coupils/colus	
Shortness of breath		
Shortness of breath		
Social History	Social History	
Smoker	Family background	
Occupation	Childcare / education	
Exposure to pollutants	Exposure to pollutants	
Management	Management	
Positioning	Play	
Mobility	Positioning	
Chest manual techniques	Mobility	
Respiratory adjuncts	Chest manual technique	
Education to patients and their family	Respiratory adjuncts	
Ventilator support	Education to patients and their family	
Tracheostomy/airway management	Ventilator support	
,, ,	Airway management	
Outcome Measures:	Outcome Measures:	
Sputum clearance	Sputum clearance	
Oximetry	Oximetry	
ABGs	ABGs	
ETCO2	ETCO2	
Work of breathing	Work of breathing	



Section 4 Oedema

Standard 4.1 When oedema is present, an assessment of the patient's oedema is carried out as required.

Standard 4.2 Assessment findings are accurately recorded.

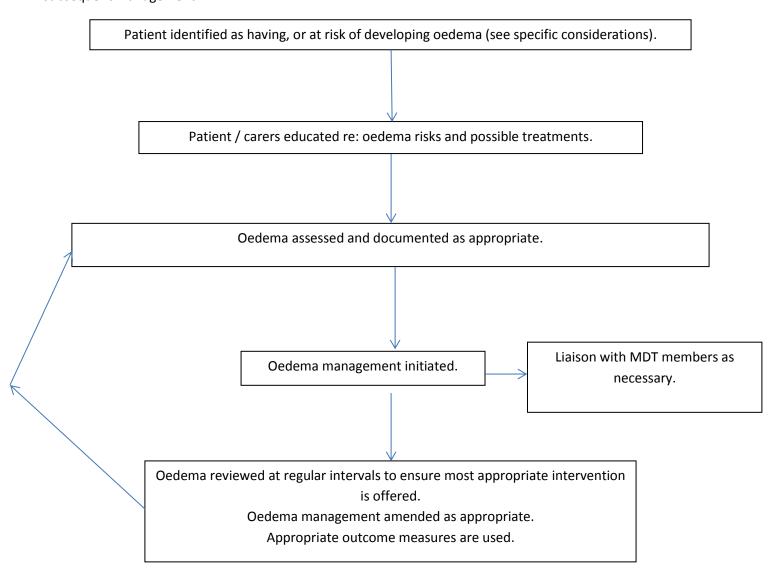
Standard 4.3 The assessment findings are used to form a treatment plan tailored to the individual needs of the patient.

Standard 4.4 Where possible, the treatment plan is developed in conjunction with the patient and their family or carers (NBCS A-4).

Standard 4.5 The Burn Therapist implements a treatment plan to reduce oedema.

Standard 4.6 The Burn Therapist undertakes reassessment to evaluate the treatment given and adjust the treatment accordingly.

The following algorithm is to aid the therapist in identification of the problem of oedema following burn injury and subsequent management.





Specific Considerations for Oedema

Considerations / Risk Factors: Depth of burn Depth of burn	ADULTS	CHILDREN	
Location of burn Infection Nutrition Pain Skin fragility – friction / shearing PMH Patient Concordance / Compliance Assessment Area affected Circumferential measurements ROM limitation Volume Pain Limb Function Skin condition Management Elevation and positioning Exercises Splinting Massage Pressure Therapy – oedema / pressure garments (once healed), Coban, tubigrip Stretches Taping Flowtrons Outcome Measures: Photography Circumferential measurements Location of burn Infection Nutrition Nutrition Nutrition Pain Pain Assessment Area affected Circumferential measurements ROM limitation Volume Pain Limb function Skin condition Management Elevation and positioning Exercises Splinting Massage Pressure Therapy – oedema / pressure garments (once healed), Coban, tubigrip Stretches Taping Flowtrons Outcome Measures: Photography Circumferential measurements Circumferential measurements	Considerations / Risk Factors:	Considerations / Risk Factors:	
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Circumferential measurements Circumferential measurements			
	• , ,	Photography	
Figure of 8 (hand) Figure of 8 (hand)		Circumferential measurements	
	Figure of 8 (hand)	Figure of 8 (hand)	



Section 5 Pain, Itch and Sensation

Standard 5.1 The patient's pre-injury pain status is documented.

Standard 5.2 An assessment of the patient's current pain, itch and/or sensation is carried out within 72 hours. This may be as part of a wider musculoskeletal assessment.

Standard 5.3 Assessment findings of pain and sensation, including analgesia requirements for therapy, are accurately recorded.

Standard 5.4 The assessment findings are used to form a treatment plan tailored to the individual needs of the patient.

Standard 5.5 The Burn Therapist implements a treatment plan to manage pain and itch and to improve hypersensitivity as appropriate to assessment findings.

Standard 5.6 The Burn Therapist undertakes re-assessment to evaluate the treatment given and adjust the treatment accordingly.

Standard 5.7 Appropriate outcome measures are used.

Standard 5.8 The Burn Therapist refers to local pain team as appropriate.

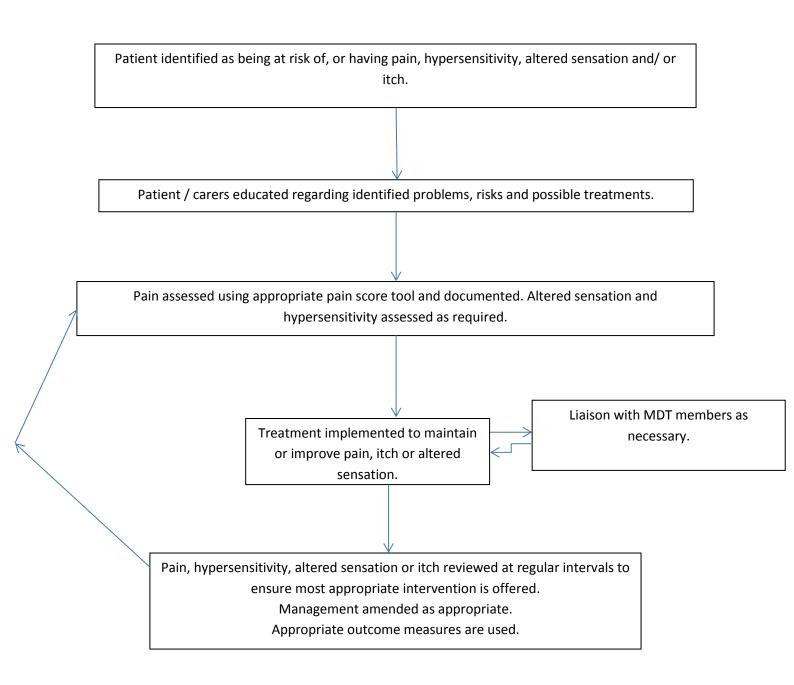
Standard 5.9 Liaison with MDT occurs for the purposes of pain, itch and sensation management.



Section 5 Pain, Itch and Sensation

Most burn injuries will cause pain. Some will cause altered sensation, hypersensitivity and/or itch. Therefore, careful assessment of sensation should be conducted on admission and at subsequent therapy sessions to determine the treatment needs of the patient. This assessment can be completed and documented to determine an appropriate treatment plan.

The following algorithm is to aid the therapist in identification of the problem of pain, hypersensitivity, altered sensation and itch following burn injury and subsequent management.





Specific Considerations for Pain, Itch and Sensation

ADULTS	CHILDREN	
Considerations / Risk Factors	Considerations / Risk Factors	
Location of burn	Location of burn	
Depth of burn	Depth of burn	
Joint Involvement	Joint Involvement	
Facial Involvement	Facial Involvement	
Age	Age – Developmental Level	
Long Term Disabilities / Limitations	Past medical history	
Past medical history	Allergies	
Allergies	History of burn mechanism	
History of burn mechanism	Social/ family support	
Coping mechanisms	Associated injuries	
Social/ family support	-	
Associated injuries		
Pre Injury considerations	Pre Injury considerations	
Pre-injury pain	Developmental level	
Pre-injury altered sensation		
History of anxiety		
Management	Management	
Pharmacological management	Pharmacological management	
Reassurance	Reassurance	
Distraction	Distraction	
Education to patients and their family.	Positioning	
Positioning	Splinting	
Splinting	Mobility	
Mobility	Play	
Active Exercise	Active Exercise	
Passive Exercise	Passive Exercise	
Strengthening	Education to patients and their family.	
Optimisation of Cardio Fitness	Exercise program	
Exercise program		
Outcome Measures	Outcome Measures	
Patient reported pain scale	Paediatric pain scores	
Monofilaments	Pictures/faces pain chart	
2 point test		
Patient reported itch scale		
Abbey pain score		
Visual analogue scale		
Tiodal dilatogue scale		



Section 6 Range of Movement (ROM), Cardiovascular Fitness and Strength

Standard 6.1 The patient's pre-injury status is documented regarding range of movement, cardiovascular fitness and strength as appropriate.

Standard 6.2 An assessment of the patient's current ROM and strength, in the area(s) affected by the injury, is carried out within 72 hours, providing there are no contraindications such as medical instability, skin grafts, fractures or associated injuries. This may be as part of a wider musculoskeletal assessment.

Standard 6.3 Assessment findings of ROM and strength are accurately recorded. Soft tissue restrictions should be recorded for areas at risk of or with contractures. Any restrictions of ROM should include the reason for the restriction. Document any exposed structures i.e. tendon, bone.

Standard 6.4 The assessment findings are used to form a treatment plan tailored to the individual needs of the patient. Indications and contraindications to active exercise are documented.

Standard 6.5 The Burn Therapist implements a treatment plan to maintain and improve ROM and strength.

Standard 6.6 Suitability for active rehabilitation is assessed as early as possible and reassessed frequently.

Standard 6.7 Restrictions following surgical interventions are documented and assessment and / or treatment plans are adapted accordingly.

Standard 6.8 The Burn Therapist undertakes reassessment to evaluate the treatment given and adjust the treatment accordingly.

Standard 6.9 Appropriate outcome measures are used.

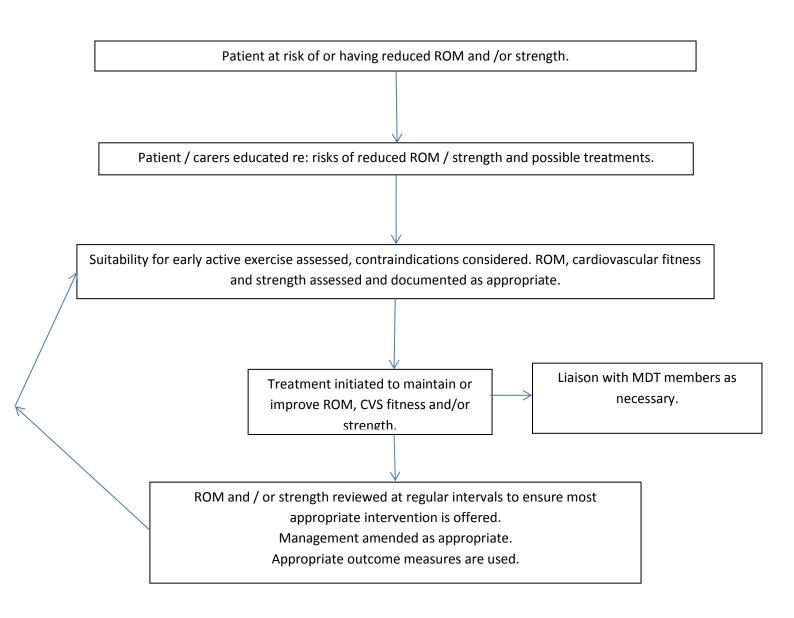
Standard 6.10 The Burn Therapist considers referral to local therapy services for ongoing rehabilitation as appropriate.



Section 6 Range of Movement (ROM), Cardiovascular Fitness and Strength

Most burn injuries will result in a reduction in range of joint movement or strength. Therefore, assessment of active, active assisted, passive movements and strength assessment should be conducted on admission to determine the immediate treatment needs of the patient. This assessment can be completed and documented by either a Physiotherapist or Occupational therapist to determine an appropriate treatment plan.

The following algorithm is to aid the therapist in identification of the problem of reduced ROM and/or strength following burn injury and subsequent management.





Specific Considerations for Range of Movement, Cardiovascular Fitness and Strength

ADULTS	CHILDREN	
Considerations / Risk Factors	Considerations / Risk Factors	
Joint Involvement	Joint Involvement	
Facial Involvement	Facial Involvement	
Age	Age – Developmental Level	
Long Term Disabilities / Limitations	Long Term Disabilities / Limitations	
Past medical history	Past medical history	
History of burn mechanism	History of burn mechanism	
Grafting	Grafting	
Surgical Management	Surgical Management	
Exposed Structures	Exposed Structures	
Critical Illness Polyneuropathy	Critical Illness Polyneuropathy	
Pre Injury considerations	Pre Injury considerations	
Mobility (aids)	Developmental Level	
	Mobility (not yet mobile, crawling, walking)	
Management	Management	
Positioning	Positioning	
Splinting	Splinting	
Mobility	Mobility	
Active Exercise	Play	
Passive Exercise	Active Exercise	
Strengthening	Passive Exercise	
Optimisation of Cardiovascular Fitness	Education to patients and their family.	
Education to patients and their family.	Exercise program	
Exercise program	Resistive exercise	
Resistive exercise	Functional Exercise	
Functional exercise		
Proprioceptive neuromuscular facilitation		
Outcome Measures	Outcome Measures	
ROM (goniometry)	ROM (goniometry)	
Dynamometry	Dynamometry	
Oxford muscle scale		
Borg Dyspnoea scale		
Endurance tests		



Standard 7 Function

Standard 7.1 An assessment of the patient's pre-burn functional ability is carried out.

Standard 7.2 An assessment of the patient's current functional ability is carried out within 72 hours, as appropriate to the location and severity of the injury. Suitability for functional rehabilitation is assessed as early as possible and reassessed frequently.

Standard 7.3 Assessment findings are accurately recorded.

Standard 7.4 The treatment plan is tailored to the individual needs of the patient to regain optimal function.

Standard 7.5 Where possible, the treatment plan is developed in conjunction with the patient and their family or carers (NBCS A-4).

Standard 7.6 The Burn Therapist implements a treatment plan to improve functional ability, aiming to return to previous level of function including work, education, hobbies and social reintegration.

Standard 7.7 Treatment modalities, techniques and outcomes are recorded promptly and with sufficient accuracy to enable another therapist to replicate the treatment.

Standard 7.8 The Burn Therapist undertakes reassessment to evaluate the treatment given and adjust the treatment accordingly.

Standard 7.9 Appropriate outcome measures are used to assess pre-burn and post burn function. Outcome measures are used for timely reassessments.

Standard 7.10 The Burn Therapist considers referral to specialist residential rehabilitation outside the acute services, for further functional rehabilitation as appropriate (NBCS D-13).

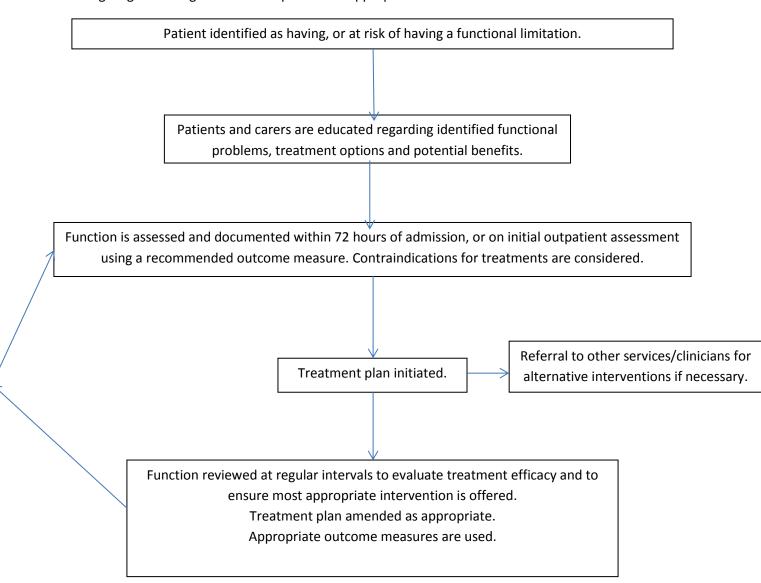
Standard 7.11 The Burn Therapist considers referral to local therapy services for ongoing functional rehabilitation as appropriate.



Section 7 Function

A burn injury often results in functional impairment which may be the focus of rehabilitation. Accurate assessment is conducted to determine the functional implications of the injury and to identify immediate treatment needs of the patient.

The following diagram is to guide the therapist on the appropriate assessment and intervention.





Specific Considerations for Function

ADULTS	CHILDREN	
Considerations / Risk Factors	Considerations / Risk Factors	
Age	Age – Developmental Level	
Long Term Disabilities / Limitations	Past medical history	
Past medical history	Environment/home	
Environment/home	Carers / Parental / Family Support	
Carers / Family Support	Likes / Dislikes/preferences	
Pre Injury Function considerations	Pre Injury Function considerations	
Mobility	Developmental level	
Transfers	Mobility (not yet mobile, crawling, walking)	
ADLs	Hand dominance	
Hand dominance		
Social History	Social History	
Family/support network	School/nursery	
Dependants	Siblings	
Occupation	Friends and peers	
Hobbies	Hobbies, sports etc.	
Hobbies	nobbles, spoi is etc.	
Management	Management	
Transfers / Mobility Practice & Progression	Play	
Functional Treatments	Functional Treatments	
Social / Family Roles Reintegration	Social Reintegration	
Work / Study Reintegration	School / Nursery Reintegration	
Discharge Planning	Discharge Planning	
Driving		
Treatment	Treatment	
Where appropriate therapy sessions should take	Where appropriate therapy sessions should take	
place in gymnasiums, occupational therapy	place in gymnasiums, occupational therapy	
workshops or activity areas. (NBCS D-12	workshops or activity areas. (NBCS D-12	
Rehabilitation facilities)	Rehabilitation facilities)	
Outcome Measures:	Outcome Measures:	
CPAX – Chelsea Physical Assessment Scale	PedsQL	
FAB – Functional Assessment for Burns	CHU9D	
EQ5D – Quality of Life		
AusTOMs – Australian Therapy Outcome		
Measures		
Timed unsupported stand		
Get up and go		
FIM – Functional Independence Measure		
·		



Standard 8 Scarring

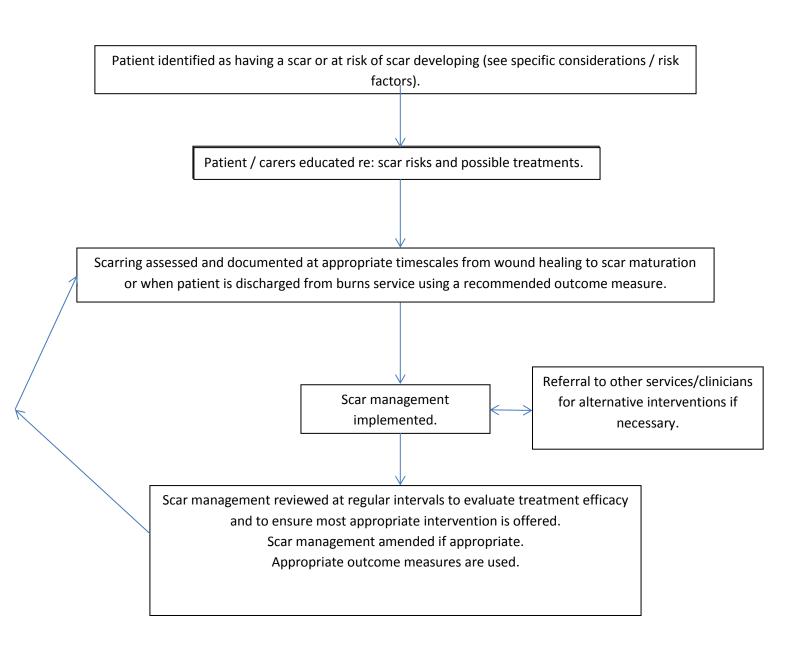
- Standard 8.1 An assessment of the patient's scarring is carried out, as required.
- Standard 8.2 Assessment findings are accurately recorded.
- Standard 8.3 The assessment findings are used to form a scar management plan tailored to the individual needs of the patient.
- Standard 8.4 Where possible, the scar management plan is developed in conjunction with the patient and their family or carers (NBCS A-4).
- Standard 8.5 The Burn Therapist implements a scar management plan.
- Standard 8.6 The Burn Therapist undertakes reassessment to evaluate the treatment given and adjust the treatment accordingly.
- Standard 8.7 Appropriate outcome measures are used.
- Standard 8.8 Scar management is carried out by appropriately trained staff with burns specific competency.
- Standard 8.9 The Burn Therapist refers to the MDT for further treatments (camouflage, laser, steroid etc.) as appropriate.



Section 8 -Scarring

There are many risk factors that can lead to complex scarring following a burn injury. An assessment is conducted that includes looking at these risk factors to determine whether scar intervention is required. Scar assessment and appropriate scar treatments should be introduced early on in the patients care pathway.

The following algorithm is to aid the therapist in identification of the problem of scarring following burn injury and subsequent management.





Specific Considerations for Scarring

ADULTS	CHILDREN	
Considerations / Risk Factors	Considerations / Risk Factors	
Depth of burn	Stage of growth	
Location of burn	Depth of burn	
Time to heal	Location of burn	
Complications to healing	Time to heal	
Infection	Complications to healing	
Nutrition	Infection	
Itch / Pain	Nutrition	
Skin fragility – friction / shearing	Itch / Pain	
Skin type	Skin fragility – friction / shearing	
Scarring history	Skin type	
Age	Scarring history	
Past medical history	Age	
Patient Concordance / Compliance	Past medical history	
Table to the content and the c	Patient Concordance / Compliance	
	ration concordance / compliance	
Social History	Social History	
Family/support network	School/nursery	
Dependants	Siblings	
Occupation	Friends and peers	
Hobbies	Hobbies, sports etc	
Tiobbles	Floobles, sports etc	
Management	Management	
Pressure Therapy – pressure garments, pressure	Pressure Therapy – pressure garments, pressure	
plates/prosthetics	plates/prosthetics	
Silicone Gels	Silicone Gels	
Non-Silicone Gels	Non-Silicone Gels	
Scar Massage	Scar Massage	
Splinting	Splinting	
Positioning	Positioning	
Exercises	Exercises	
Stretches	Stretches	
Desensitisation	Desensitisation	
Skin Camouflage	Skin Camouflage	
Steroid Injections	Steroid Injections	
Taping	Taping	
Laser	Laser	
Tattooing	Tattooing	
Derma rolling	Derma rolling	
Micro needling	Micro needling	
Prosthetic devices	Prosthetic devices	
Body image – Changing Faces	Body image – Changing Faces	
Psychology	Psychology	
· · · · · · · · · · · · · · · · · · ·		



Outcome Measures

POSAS – Patient and Observer Scar Assessment Scale

BBSIP – Brisbane Burn Scar Impact Profile (Adults)

VSS – Vancouver Scar Scale

Modified VSS Photography

Outcome Measures

VSS – Vancouver Scar Scale Modified VSS Photography BBSIP – Brisbane Burn Scar Impact Profile (Children 8-18 years, Caregivers of children 8 years +, Caregivers of children less than 8 years)



Section 9 Psychosocial Management of Burn Injury

Standard 9.1 An assessment of the patient's pre burn psycho-pathology and social circumstances is conducted during initial assessment.

Standard 9.2 An assessment of the patient's current psychological well-being and social status is carried out at the earliest appropriate point in the patient's recovery.

Standard 9.3 Assessment findings are accurately recorded and shared with the multi-disciplinary team as appropriate.

Standard 9.4 The Burn Therapist refers to psychology or psychiatry services if indicated, following an agreed local pathway.

Standard 9.5 The assessment findings are considered during formulation of the burn therapy rehabilitation plan.

Standard 9.6 The Burn Therapist considers existing or potential psychosocial issues during delivery of the rehabilitation programme.

Standard 9.7 The Burn Therapist undertakes regular re-assessment of the patients' psychosocial status and adjusts the rehabilitation programme accordingly.

Standard 9.8 Any changes to the patient's psychosocial status are accurately recorded, and shared with the multidisciplinary team as appropriate.

Standard 9.9 Discharge planning is commenced as soon as appropriate to ensure the transition to discharge is optimised.

The psychosocial aspects of burn injury relates to both the psychological effects of the injury as well as the impact of the burn injury on the patient's social environments. As such, psychosocial management is integral to the burn therapy process.



Specific Considerations for Psychosocial

<u>ADULTS</u>	<u>CHILDREN</u>	
ADMISSION AN	D CRITICAL CARE	
Psychological Considerations/ Risk Factors	Psychological Considerations / Risk Factors	
Pre-existing mental health diagnoses	Child protection if NAI or neglect	
Self-inflicted burn injury	Acute stress reactions	
Assault by burning	Sleep pattern	
Acute Stress Disorder	Effects of pain	
Anxiety		
Sleep pattern		
Effects of pain		
Social Considerations	Social Considerations	
Medico-legal capacity and substitute decision-	Advance care planning and end of life planning	
making	Care of the family unit	
Advance care planning and end of life planning	Housing and living arrangements	
Care of the family unit/dependants	Safeguarding issues	
Income and financial resources		
Housing and living arrangements		
Safeguarding issues		
ACUTE CARE AND H	OSPITAL DISCHARGE	
Social Considerations	Social Considerations	
Grief, loss and bereavement	Grief, loss and bereavement	
Family support	Family support	
Discharge from the Burns ward	Discharge from the Burns ward	
Income and financial resources	Housing and living arrangements	
Housing and living arrangements	Safeguarding issues	
Safeguarding issues		
	MMUNITY REINTEGRATION	
Psychological Considerations/ Risk Factors	Psychological Considerations/ Risk Factors	
Pre-existing mental health diagnoses	Child protection if NAI or neglect	
Self-inflicted burn injury	Post-traumatic stress disorder	
Assault by burning	Role of parents in recovery	
Post-traumatic stress disorder	Body image, self-concept and disfigurement	
Body image, self-concept and disfigurement	Effect of injury on family members	
Sexuality		
Social Considerations	Social Considerations	
Social roles	Social roles	
Return to work	Return to school	
Peer support	Peer support	
Support agencies	Support agencies	
Management	Management	
Work re-integration programme	School re-integration programme	
Facilitation of skills to manage social situations,	Encourage and promote peer support	
improve communication and social risk-taking.	opportunities throughout the rehabilitation	
Promote re-engagement of social roles.	process	
Support family/ friends in their adaptation to	Provide patient and caregiver with information	
social role changes for both the patient and the	with existing burn support network information	
family unit.	including local burn camps	



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Appendix 1 Members of the Burn Therapy Standards Working Group

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Emily	Huddleston	Physiotherapist	Birmingham Children's
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Rachel	Kettle	Physiotherapist	University Hospital
			Birmingham
Rebecca	Kirk	Physiotherapist	University Hospital
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Clare	McGrory	Physiotherapist	University Hospital South
			Manchester
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			Hospital
Rachel	Wiltshire	Physiotherapist	St Andrews Burns Centre
		Therapy Lead LSEBN	MEHT and LSEBN