

SWUK Burn Care ODN Education & Training Strategy for Healthcare Professionals (2019 to 2021)

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1 Introduction

The South West UK Burn Care ODN (SWUK ODN) is a clinically driven network of key stakeholders engaged in improving and developing the assessment, treatment and rehabilitation of burn-injured patients of all ages and patients who have a severe skin-loss condition.

The incidence of severe burn injury is low, however, when patients with these injuries do present to primary and secondary care providers, their assessment and treatment can present a major challenge to those inexperienced in burn management.

In collaboration with the five Specialised Burn Care Services located in South Wales and the South West England, the SWUK ODN aims to equip both specialist and non-specialist health care professionals with the skills and knowledge they may require when presented with a burn-injured patient.

2 Purpose

This document has been created by the SWUK ODN Network Management Team (NMT), in collaboration with the SWUK ODN Clinical Governance Group (CGG). It covers the period for 2019-21.

The purpose of this Education and Training Strategy is to:

- Document education and training within the Burn Care Services to ensure workforce compliance with the educational requirements of the [BBA National Standards for the Provision and Outcomes in Adult and Paediatric Burn Care](#) published in November 2018;
- Outline an education programme for the next two years, that aligns with the SWUK ODN's work plan objectives both regionally and nationally;
- Improve patient outcomes by ensuring those inexperienced in burn care have the appropriate skills and knowledge to safely assess and treat a burn-injured patient prior to transfer to a specialised burns service;

3 Educational Requirements for Burn Care Services

The [BBA National Standards for the Provision and Outcomes in Adult and Paediatric Burn Care](#) stipulate that:

- Consultant Burns Surgeons in all Burn Services have successfully completed an Emergency Management of Severe Burns (EMSB) course;
- At least one doctor of ST3 level or above is available at all times that has successfully completed the EMSB course;
- Members of the nursing team in Centres and Units (bands 2 to 8), and the Lead Burns Nurse in a Facility, have undertaken burn-specific competencies relevant to their role and been successfully assessed as being competent by the end of their second year in the speciality;
- All members of the Nursing team (bands 2 to 8) in a Facility have completed burn-specific training annually;

- There is a Registered Nurse available at all times in the Centres and Units on the ward that has successfully completed an accredited academic course in Burn Care or the EMSB course;
- At least 75% of band 6 and above Registered Nurses in Centres and Units have undertaken a formal period of accredited academic study in burn care;
- That the Lead Burns Nurse in a Facility has completed an accredited academic course in burn care or the EMSB course.
- All Burn Services must fully support the EMSB course by:
 - Facilitating appropriate members of the multi-disciplinary team (MDT) to attend the course;
 - Supporting members of staff, who are on the EMSB course faculty, to teach on the courses;

3.1 University based Education in Burn Care

The Welsh Burns Centre (Morrison Hospital) delivers an accredited Burns Module with the University of Swansea:

Course Details
<p>Accredited Swansea University - Foundation in Burn Care (40 Level 6 Credits)</p> <ul style="list-style-type: none"> • Designed to expand diverse professional knowledge and enhance clinical reasoning and the skills of practitioners working within the specialties of burns. The intention of the module is to focus on the development of the clinical nursing skills required to provide safe and effective care of the burn injured patient.

The Bristol Burns Unit (North Bristol NHS Trust) runs an accredited burns course with the University of the West of England (UWE):

Course Details
<p>Accredited University of the West of England - Burn Care & Rehabilitation Module (40 Level 3 Credits or Masters level)</p> <ul style="list-style-type: none"> • Explore, interrogate and evaluate the bio-psycho-social dimensions of burn injury in acute and long term care. • On completion of this course you should be able to: <ul style="list-style-type: none"> ○ deconstruct and evaluate research evidence in order to identify best practice in delivering holistic burn care in the acute and long term care. ○ analyse and evaluate models, tools and structures used in the delivery of holistic burn care. ○ examine and critically appraise inter-professional, intra-agency and cross boundary working when managing ongoing rehabilitative care services

3.2 Professional Burns Education Courses

Currently, within the SWUK ODN, a joint Swansea and Bristol Faculty ensures at least one EMSB candidate course is delivered each year. They also run an EMSB Instructors Course to ensure staffing of the course is maintained.

Course Details
<p>Emergency Management of Severe Burns (EMSB) Course (8 consultant CPD credits)</p> <ul style="list-style-type: none"> This course provides burn specific trauma management guidelines, which are additive and complimentary to those taught on other trauma courses e.g. Advanced Trauma Life Support (ATLS®). EMSB is a “stand alone” one-day course that covers the principles of the emergency management of severe burns including practical exercises in burn size assessment, fluid resuscitation, airway and wound management, paediatric burn care, electrical and chemical injuries and simulated cases. The course is appropriate for medical and nursing practitioners who may be required to provide initial management to patients with severe burn injuries e.g. those working anywhere in the field of burn care, anaesthesia, trauma, pre-hospital and emergency medicine.

3.3 Education and Training delivered by Burn Care Services

A review of the education and training activities delivered by the Burn Care Services within the SWUK ODN was undertaken for the period 2018/19. Each service provided information on their education activities via a quarterly report to the SWUK ODN Board. Appendix 1 provides a summary of education and training delivered by the Burn Care Services multi-disciplinary teams throughout the SWUK ODN.

3.4 Education delivered through the SWUK Burn Care ODN

The SWUK ODN Management Team has also developed further regional education and training during 2018-19. This has been aimed at supplementing the activities that have taken place within the Specialised Burn Services as detailed above.

Table 1: SWUK ODN Education & Training

Study Days	Audience
SWUK Burns Study Day for the Channel Islands	Multi-disciplinary staff involved in emergency and critical care.
SWUK ODN Regional Burns Morbidity & Mortality Audit meeting	Multi-disciplinary burns and associated staff within SWUK ODN Burn Care Services
National Burns Morbidity & Mortality Audit meeting	Multi-disciplinary burns and associated staff from Burn Care Services nationally
Planning for a Burns Mass Casualty Incident	Multi-disciplinary staff involved in emergency response to a mass casualty incident from across the SWUK footprint and nationally
SWUK ODN Regional MDT Study Day	Multi-disciplinary burns and associated staff within SWUK ODN Burn Care Services

The SWUK ODN was also able to fund registration fees for nursing and allied health professionals from each of the Burn Care Services to attend the British Burn Association (BBA) Annual Conference in Swansea in 2018.

4 Education Aims and Objectives - 2019-21

As illustrated in section 3, education has been delivered by a MDTs from individual Burn Care Services and by the SWUK ODN with support from several Burn Care Services. These have ranged from local, regional and national events. The SWUK ODN received very positive feedback after the events illustrating a clear desire for further training in this specialty.

Despite this very promising current situation, we believe there is no room for complacency and have identified some areas where our educational support to members of the Burns multi-disciplinary teams, and other health care professionals who are involved in the burn care pathway, could be enhanced within the SWUK ODN region with further collaboration with pre-hospital and acute critical care services.

We will focus on two aims over the next two years:

- Preparing for burns mass casualty incidents
- Learning from each other

4.1 Aim 1 - Preparing for Burns Mass Casualty Incidents

The [NHS England National Concept of Operations for Managing Mass Casualty Incidents – Burns Annex](#) describes how an incident involving large numbers of burn injured patients will be managed. Of particular note is the requirement for Burn Care Services to close to new admissions on declaration of a burns major incident. This will therefore require receiving Major Trauma Centres (MTCs), Trauma Units (Tus) and Emergency Departments (EDs) to look after burn injured patients for longer than is the case in our usual day to day practice.

In addition, the Burns Annex introduces the concept of Burn Incident Response Teams (BIRTs). These teams will consist of a surgeon, an anaesthetist and a burns nurse which may be deployed from Burn Care Service(s) furthest away from the incident itself. Although BIRTs will not be undertaking clinical care, they will be advising on assessment, initial treatment and dressings and will provide information to support secondary triage of patients prior to transfer to an appropriate Burn Care Service.

Below we set out five specific objectives to achieve this aim:

Educational objective 1

- Ensure educational opportunities are available to pre-hospital providers across the SWUK region

Educational objective 2

- Collaborate with Major Trauma Networks to deliver educational opportunities for healthcare professionals in Major Trauma Centres, Trauma Units and Emergency Department within the SWUK ODN region. We will focus on the gap between

current day-to-day assessment and management of a patient with a burn injury and the longer term management during a burns mass casualty major incident. (See Appendix 2 for list of Major Trauma Networks: Centres and Units)

Educational objective 3

- Deliver a Regional Burns Incident Response Team (BIRT) Study Day for BIRT volunteers within the SWUK ODN.

Educational objective 4

- Deliver SWUK Regional Stakeholders Education Day “*Burns, Blasts and Chemical Injuries*” in November 2019. Following on from the success of the inaugural SWUK network study day “Burns mass casualties” in November 2018, we intend to support the delivery of a study day focusing not only on burns but including other injuries that may be caused during a terrorist incident. These study days are aimed at the whole multi-disciplinary team involved in patient care from pre-hospital onwards.

Educational objective 5

- Support the development of educational resources that are accessible to community therapist in the recovery stages following a burns mass casualty incident.

4.2 Aim 2 - Learning from each other

The SWUK Burn Care ODN is proud to participate in both regional and national burns morbidity and mortality audits, giving members of the burn multi-disciplinary teams from across the Network an opportunity to learn from each other and discuss complex cases. In addition, following requests from the Burn Care Services, a Winter Regional Burns Multi-disciplinary conference was held in December 2018, providing another opportunity for longer discussions about some of the more complex issues affecting our patients.

Below we set out six specific objectives to achieve this aim:

Educational objective 6

- Continue to organise and fund an Annual Regional Morbidity and Mortality Audit.

Educational objective 7

- Facilitate case selection from within the region for presentation at the Annual National Burns Morbidity and Mortality Audit, and encourage all Burn Care Services to participate in the national meeting.

Educational objective 8

- Continue to organise and fund an Annual Winter Regional Multi-disciplinary Conference.

Education objective 9

- Continue to fund two places, for nursing and allied health professionals, from each of the Burn Care Services to attend the National British Burn Care Association (BBA) Conference.

Education objective 10

- Ensure Burn Care Services are supported in delivering an annual EMSB Course.

Education objective 11

- Support the delivery of an Annual Regional Therapy Study Day.

5 Programme of SWUK ODN Education & Training

5.1 Year 2019-20

Education & Training	Date
SWUK Regional Burns Morbidity & Mortality Audit	4 June 2019
Plymouth Major Trauma Centre Burns Study Day	17 June 2019
National Burns Morbidity & Mortality Audit	1 July 2019
SWUK Regional BIRT Study Day	17 September 2019
SWUK Regional Education Day "Burns, Blasts, Bullets"	5 November 2019
SWUK Regional MDT Study Day	3 December 2019
SWUK Regional Therapies Study Day	17 February 2020
Southampton Major Trauma Centre Burns Study Day	XX March 2020

5.2 Year 2020-21

Education & Training	Date
SWUK Regional Burns Morbidity & Mortality Audit	XX June 2020
National Burns Morbidity & Mortality Audit	XX July 2020
Bristol Major Trauma Centre Burns Study Day	XX September 2020
SWUK Regional Education Day	XX November 2020
SWUK Regional MDT Study Day	XX December 2020
Welsh Major Trauma Centre Burns Study Day	XX March 2021

6 Conclusion

In conclusion, the SWUK ODN has access to burns specialist knowledge across the five Specialised Burn Care Services. This Education and Training Strategy will utilise this knowledge to improve and develop the assessment, treatment and rehabilitation of burn injured patients within our ODN region.

The SWUK ODN aims to deliver a comprehensive programme of education and training over the next two year to:

- Increase confidence and knowledge in burns and non-burns staff in a response to a mass casualty incident involving burn-injured patients;
- Ensure burns staff and the wider MDT have the opportunity to share good practice and learn from each other.

This strategy will provide networking opportunities across organisational and professional boundaries which will in turn lead to a more integrated approach and delivery of burn care in the future.

Appendix 1: Summary of Education and Training Activities undertaken by Burn Services within the SWUK ODN

Table 1: Nursing Education and Training

Type of Training	Title	Audience
Study Day	Burns Assessment, Referral Criteria and Management	Prison Healthcare staff
CPD	Burns Clinical Competencies – Continuing support and teaching for nursing staff.	Burns Nursing staff
Study Day	Burns Assessment and Management study days	Practice Nurses, Ambulance Services, Emergency Departments, Preceptorship first year trained nurses, Junior Doctors
Study	Burns Study Days	Pre-hospital, Emergency Departments, Community Staff,
Training Session	Update on Burn Wound Dressing	Nursing staff
Conference Poster	Poster presentations at the BBA National Burns Conference in Swansea 2018: <ul style="list-style-type: none"> Dressing for Disaster; What do burns nurses know about silver dressings 	Burns multi-disciplinary staff from across the UK
Study Placements	Clinical placements for 2 nd year Degree nursing students supported with burns education and mentoring needs	Nursing students
Study Day	Burns and Scalds Study Days	Internal nursing and therapy, ED, MIU, GPs
Study Day	Jersey Burns Study Day	Channel Islands multi-disciplinary staff (pre-hospital, ED, ICU, nursing)
Study Day	Internal drop-in event for all paediatric CNS's to showcase their roles/ provide snapshot teaching	Nursing staff
Training Session	Burns update sessions	Paediatric ED
Training Session	Introduction to Burns	ED new starters (nurses)
Study Placements	Various shadowing opportunities for student nurses	Student nurses
Study Day	Burns Paediatric Study Day	Community Nurses and Nurse Practitioners
Invited Lecture	Delivering various burns modules on the Children's Faculty of Nurse Education	Paediatric Nurses
Invited Lecture	National Young Adult Burns Association Camp 2018 overview	SWUK ODN MDT Training Day
Training Session	Referrals to Multi-Agency Safeguarding Hub (MASH)	Social Workers / Health Visitors

Table 2: Medical Education and Training

Type of Training	Title	Audience
Invited Lecture	Management of Infection & Sepsis in Burn ITU	British Journal of Hospital Medicine Meeting
Training Session	Major Incident Plan for UK	Burn Service
Invited Lecture	Delivering various burns modules on the Children's Faculty of Nurse Education	Adult/Paediatric Nurses
Invited Lecture	Burns Overview at Paediatric Regional SD for Drs	Paediatric doctors
Invited Lecture	Drug interactions with Burns Mental Health Patients	Medical Students, University of Bristol
Training Session	Scarring in Burns: Pathophysiology, Assessment and Management.	Plastic Surgery Registrars
Student Teaching	Supervision of medical study projects	Medical Students, University of Bristol
Student Teaching	Burn case presentations/vivas	CT/ST3+ plastic surgery trainees
Invited Lecture	Early Burns Excision	Plastic Surgery, Copenhagen University
Training Session	Burns Assessment and Treatment	F2 doctors
Study Day	Jersey Burns Study Day	Channel Islands multi-disciplinary
Student Teaching	Shadowing on burns ward round and additional teaching	Medical students
Invited Lecture	Bristol Children's Major Incident & Major Trauma and Burns Study Day	All those involved in Emergency Care
Teaching Session	Burns Healing and Scarring Sessions	Medical Students University of Bristol
Invited Lecture	A systematic review of clinical outcome reporting in randomised controlled trials of burn care, and the need for a Core Outcome Set, Cologne, Germany	European Paediatric Burns Club
Invited Lecture	2nd International Burns Symposium and 1st Meeting of the Pakistan Burn Association	Burn care providers in Pakistan
Training Session	Burns Dressings	Spars
Training Session	Assessment and Management of Burns	SHOs
Training Session	How to make tele-referrals to paediatric burns centre	Various EDs and MIUs
Invited Lecture	Inhalation injury at the British Burn Association National Conference 2019	Burns multi-disciplinary staff from across the UK
Invited Lecture	Airway assessment in burns at the National Trauma Care Conference	Multi-disciplinary
Invited Lecture	Burns Major Incidents at the Health Preparedness Wales Conference	Emergency planners and emergency services

Table 3: Therapies Education and Training

Type of Training	Title	Audience
Audit	Service Review – ‘Management of Smoke Inhalation Injury’	Burn Service
Training Session	Major Incident Plan for UK	Burn Service
Study Day	Burns Therapy	Therapists
Study Day	Scar Management	Burns therapists
Study Day	The Ladder of Plastic Surgery	Physiotherapists and Occupational Therapists
Poster Presentation	Poster presentations at the BBA National Burns Conference in Swansea 2018: <ul style="list-style-type: none"> How do UK Burns Services provide cardiovascular exercise programs for patients with burns? 	Burns multi-disciplinary staff from across the UK
Student Placement	Shadowing OT clinics	Nursing students
Training Session	Range of Motion Assessment of the Upper Limbs	Occupational Therapists
Training Session	The Role of OT in Burn Prevention for Older Adults	Occupational Therapists
Study Day	Burnt Hand Study Day for the Burn Therapy Interest Group, a SIG of the BBA	Burn Therapists from across UK
Training Session	Pizza Putty Hand Function Assessment	Paediatric Occupational Therapists

Table 4: Psychology Education and Training

Type of Training	Type of training	Audience
Case Presentation	Burns Clinical Case example	Centre for Appearance Research
Invited Lecture	Role of Psychology and the Psychological Impact of Burn Injuries	Paediatric Wound Conference
Teaching Session	A Qualitative Exploration into the Perceptions and Experiences of an Interdisciplinary Burn Team Involved in Paediatric Dressing Changes	Supervision of Masters student in Health Psychology (UWE)
Teaching Session	Role of psychology service in burns, psychological impact of burn injuries and how to refer	UWE nursing staff
Teaching session	Team work and consultation	D.ClinPsy post graduate course in clinical psychology Bath University
Training session	Assessment of Patients’ Psychological Needs	Professionals involved in burn care

Appendix 2: Major Trauma Networks: Trauma Centres and Trauma Units within SWUK ODN Footprint

Severn Major Trauma Network	
Southmead Hospital North Bristol NHS Trust	Adult Centre
Bristol Royal Hospital for Children University Hospital Bristol NHS Foundation Trust	Paediatric Centre
Musgrove Park Hospital Taunton NHS Foundation Trust	Unit
Yeovil District Hospital Yeovil Hospital NHS Healthcare	Unit
Royal United Hospital Royal United Hospital NHS Foundation Trust	Unit
Great Western Hospital Great Western Hospital NHS Foundation Trust	Unit
Gloucester Royal Hospital Gloucestershire Royal Hospitals NHS Foundation Trust	Unit
Peninsula Major Trauma Network	
Derriford Hospital University Hospitals Plymouth NHS Trust	Centre
Royal Cornwall Hospital Royal Cornwall Hospitals NHS Trust	Unit
North Devon District Hospital North Devon	Unit
Royal Devon & Exeter Hospital Royal Devon & Exeter NHS Foundation Trust	Unit
Wessex Major Trauma Network	
Southampton General Hospital University Hospital Southampton NHS Foundation Trust	Centre
Salisbury District Hospital Salisbury NHS Foundation Trust	Unit
Basingstoke & North Hampshire Hospital Hampshire Hospitals NHS Foundation Trust	Unit
St Mary's Hospital Isle of Wight NHS Trust	Unit
Queen Alexandra Hospital Portsmouth NHS Hospitals NHS Trust	Unit
Poole Hospital Poole Hospital NHS Foundation Trust	Unit
Dorset County Hospital Dorset County Hospitals NHS Foundation Trust	Unit