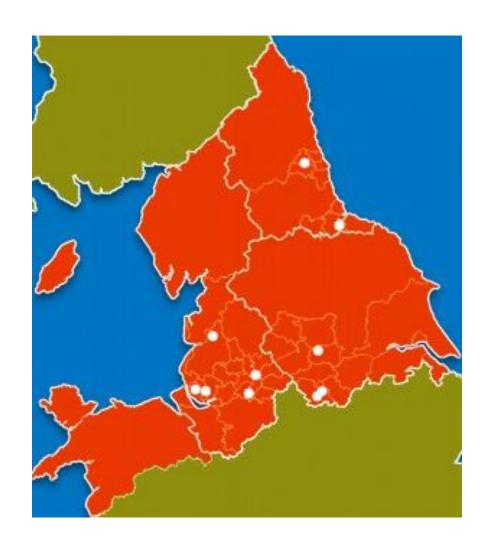


Northern Burn Care Operational Delivery Network Referral Information Pack



Northern Burn Care ODN Burns Referral Pack

Pack includes:

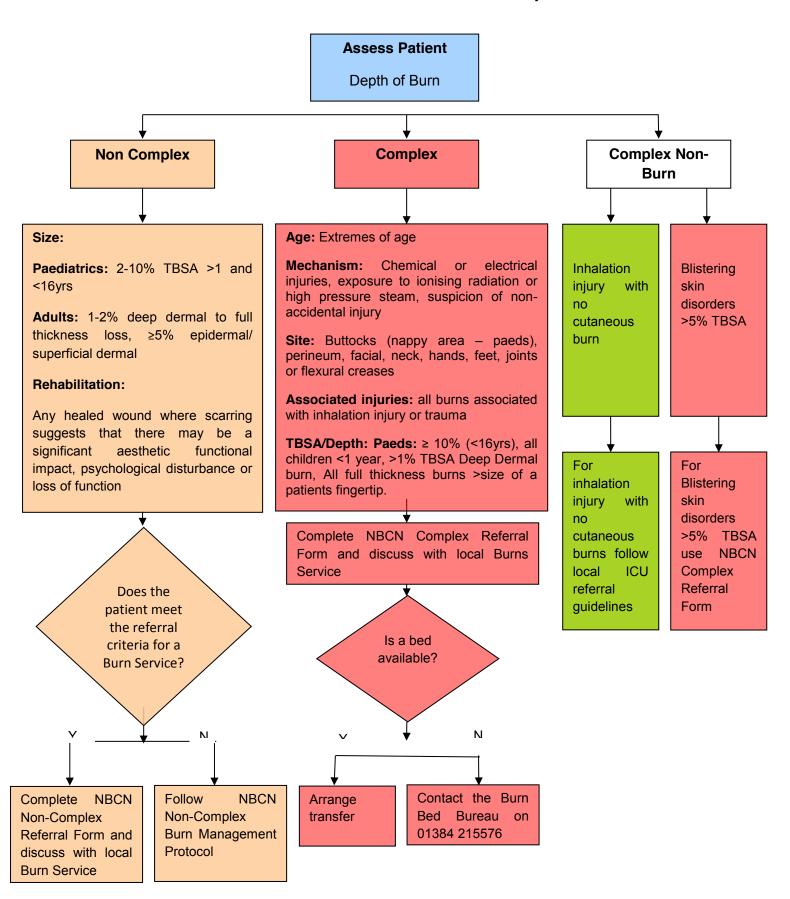
- 1. NBCODN Burns services Contact information
- 2. Burns Referral Flow chart.
- 3. Paediatric Burns Referral Criteria and Guidelines
- 4. Adult Burns Referral Criteria and Guidelines
- 5. Non-complex Burns Referral Form
- 6. Complex Burns Referral Form

Contact details for NBCN Burns Services

Name of Burns Servi ce	Adults /	Address	Telephone
	Paeds		-
Newcastle Burns Centre	Adult	RVI, Newcastle,	0191 282 5637
Newcastle burns Centre	Paeds	Great North Children's Hospital	0191 282 6011
James Cook Burns Facility	Adults	James Cook Hospital, Middlesborough.	01642 854 535
Pinderfields Hospital Burns Centre	Adults	Pinderfields Hospital, Mid Yorks NHS Trust	01924 541 702
Pinderfields Hospital Burns Unit	Paeds	Pinderfields Hospital, Mid Yorks NHS Trust	01924 541 931
Sheffield Burns Unit	Adults	Northern General Hospital, Sheffield,	01142 714 129
Sheffield Children's Hospital Burns Unit	Paeds	Sheffield Children's NHS Foundation Trust, western Bank, Sheffield	01142 260694
Wythenshawe burns unit	Adults	Wythenshawe Hospital, University Hospitals of South Manchester, Manchester.	0161 291 6313
Manchester children's Hospital Burns Centre	Peads	Central Manchester Children's Hospital,	0161 701 8123
Whiston Hospital Burns Centre	Adults	St Helens and Knowlesley NHS Foundation Trust, Liverpool	0151 430 1540
Alderhey Burns Centre	Paeds	Alderhey Children's NHS Foundation, Liverpool	0151 282 2578
Preston Burns Facility	Adults	Lancashire Teaching Hospitals NHS Foundation Trust, Preston,	01772 522 244



NBCN Burn Referral Flowchart - February 2016





PAEDIATRIC BURN REFERRAL CRITERIA AND GUIDELINES - June 2016 v1.2

NON-COMPLEX BURN

* Complete and Send/Fax NBCN Non-Complex Burn Referral Form *

Size: 2-10% TBSA >1 and <16 years old

Wound healing: Any wound unhealed at 7 days

COMPLEX BURN

* Complete and Send/Fax NBCN Complex Burn Referral Form *Total **Body Surface Area (TBSA)/Depth:**

≥ 10% (<16 years)

>1% TBSA Deep Dermal burn (all children <1 year

All Full Thickness burns >size of a patients finger tip

Any depth and size of the following;

Mechanism: All burns associated with chemical or electrical injuries, exposure to ionising radiation or high pressure steam, or suspicion of nonaccidental injury

Site: Buttocks, nappy area, perineum, facial, neck, hands, feet, joints or flexural creases

All circumferential burns

Existing Conditions: Burn wound infection, significant congenital or medical conditions that may influence patient care or burn wound healing.

FLUID GUIDELINES

<10% encouraged to have oral fluids unless NBM

≥ 10% cannula, resus fluids and maintenance

Contact Burn Unit for advice re:

NBM, sedation, analgesia, catheterization in burns 10% - 15% and future fluids

MUST GIVE

IV Resuscitation Fluids: All children with burns ≥10% TBSA will receive fluid according to the Parkland Formula:-

3 ml/kg/% burn over 24 hrs from time of

Give ½ in the 1st 8 hrs & ½ in the 2nd 16 hours given as Hartmann's solution.

AND IV Maintenance Fluids: 100ml/kg over 24hrs from time of injury for 1s 10kg, plus 50ml/kg over 24hrs for 2nd 10kg, plus 20ml/kg over 24hrs for each additional kg.

Give as 0.45% Sodium Chloride and 5% Glucose solution or a suitable local alternative

Suspected Inhalation Injury: If there is a suspected inhalation injury, give oxygen (15 litres via non- re-breathe mask and bag) and seek anaesthetic review

For cases that do not meet the criteria for referral:

Review all burns at 48 hours to monitor

Continue local care and give advice to observe for signs of infection. Refer on if unhealed at 7 days

Discharge when wound healed, with written advice to moisturise and protect from sun until healed skin loses pink colour

Analgesia: Ensure adequate analgesia is given prior to intervention/transfer.

Catheterisation: All children with burns ≥15% TBSA and/or burns to genitalia should have an appropriate size urinary catheter sited.

Infection: Toxic Shock Syndrome / Burn Sepsis Syndrome

Observe for 2 of the following;

- Temperature >38 °C
- General malaise
- Rash
- Hypotension
- Diarrhoea and vomiting
- Not eating or drinking
- Tachycardia / tachypnoea

MEETS CRITERIA FOR REFERRAL - CALL LOCAL BURN SERVICE

Newcastle: 0191 2826011/0191 2829009 Manchester: 0161 701 8100 Sheffield: 0114 2260694

Liverpool: 0151 252 5400 Wakefield: 01924 541931

ADULT BURN REFERRAL CRITERIA AND GUIDELINES at the 2016 at 1/2 work



NON-COMPLEX BURN

* Complete and Fax NBCN Non-Complex Burn Referral Form *

Size: 1-2% deep dermal to full thickness loss

≥ 5% epidermal/superficial dermal

COMPLEX BURN

Complete and Fax NBCN Complex Burn Referral Form Total Body Surface Area (TBSA)/Depth:

≥15% (above 16 years)

>10% (65 years and over)

>2% deep dermal / full thickness

Any depth and size of the following;

Mechanism: All burns associated with chemical or electrical injuries, exposure to ionising radiation or high pressure steam, or suspicion of non-accidental injury

Site: Buttocks, perineum, facial, neck, feet, joints or flexural creases

All circumferential burns and deep dermal/full thickness to hands

COMPLEX NON-BURN

Progressive Non-Burn Skin Loss >5%: Blistering skin disorders e.g. Toxic Epidermal Necrolysis, Staphylococcal Scalded Skin Syndrome, and Stevens - Johnson syndrome

Inhalation injury with no cutaneous burn should follow local ICU referral guidelines

REFERRAL NOT NECESSARY

Unless indicated by complexity

Erythema <5% Superficial <2%

FLUID GUIDELINES

≥ 15% TBSA – IV fluid resuscitation according to Parkland Formula (age16-65 years old)

≥ 10% TBSA if multiple comorbidities - IV fluid resuscitation according to Parkland Formula (>65years old)

Contact Burn Unit for advice re: NBM, sedation, analgesia and future fluids

MEETS CRITERIA FOR REFERRAL....

CALL LOCAL ADULT BURN SERVICE

IV Access: All adults with burns ≥15% should have two well secured IV cannulae

IV Resuscitation Fluids: All adults with burns ≥15% TBSA will receive fluid according to the Parkland Formula:-

3 ml/kg/% burn over 24 hrs from time of injury

Give ½ in the 1st 8 hrs & ½ in the 2nd 16 hours given as Hartmann's solution

Analgesia: Ensure adequate analgesia is given prior to intervention/transfer. Consider use of IV opiate/Entonox

Catheterisation:

All adults with burns ≥15% TBSA should have an appropriate size catheter. Consider catheter if burn ≥10% TBSA in patients 65 years or older. Consider for burns to perineall/genital area

Suspected Inhalation Injury:

If there is a suspected inhalation injury, give oxygen and seek anaesthetic review

Infection:

Observe for signs of infection

- Temperature >38°c
- Tachycardia/Tachpnoea
- Hypotension
- Increased pain
- Offensive/increased exudate
- General malaise

For cases that do not meet the criteria for referral:

Review all burns at 48 hours to monitor for change

Continue local care and give advice to observe signs for infection. Refer to Burns Service if wound unhealed at 14 days



Northern Burn Care Network Complex Burn Referral Form

1						
			Cause of burn:			
% TBSA (Please Cooling? Yes / No Details:	ase complet By whom?	e a Lund and Br Witness / Para	amedic / Fire Service / ED Was Cooling delayed? Yes / No			
Patient Details: (please attack			Referral information:			
	_		Data: / / Time: Deferment			
NHS No: Date			Date: / / Time:: Referrer:			
Surname:			Referring Organisation:			
Gender: M / F Tel No			Department: ED / ICU / MIU/ WIC / other:			
Address:			Grade:			
			GP Details:			
Postcode:						
			GP Name:			
Interpreter: Yes / No			Tel No:GP Practice/Address:			
Language:			DNACH			
Next of kin:			PMSH			
Name of N.O.K:			Smokes:/day Alcohol: units/day			
Accompanied by:			Drug abuse: Yes / No Details:			
Relationship:Te			Allergies: Yes / No Details:			
neidionsinp			Tetanus Status:Mobility:			
Family/carer aware of attenda	ance & Tran	sfer - Y / N	Learning Disabilities: Yes / No. Details:			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,	Mental Health Requirements: Yes / No. Details:			
Airway/Breathing:			Co-morbidities: Yes / No Details:			
	1	T.,	Any other relevant information:			
Patient Airway	Yes	No				
C. spine injury	Yes	No				
Immobilised	Yes	No	Safeguarding / Risks			
Inhalation injury suspected Soot in nose/throat	Yes Yes	No No	Saleguarumg / risks			
Hoarse voice	Yes	No	Safeguarding concerns: Yes / No Risk concerns: Yes / No			
Stridor/noisy breathing	Yes	No	Details:			
Anaesthetic assessment	Yes	No				
Intubated at	Yes	No	Action taken:			
Please use and UNCUT tube Laryngoscopy grade I II III IV			Observations prior to intubation:			
Size ETTmm cuffed / uncuffed			FIO2% SaO2%			
Fixed at teeth/nose		cm	RR: / Min GCS prior to intubation: / 15			
Circulation						
·	/		CRT: Peripheral/core temp: Deg			
Patient Weight:	Kg act	ual/estimated	Fluid resuscitation commenced? Yes / No			
Urinary Catheter: Yes / Balloon inflated: ml	No size:		(children with burns <15% may not need catheterisation, please discuss with Burns Unit and do not delay transfer unnecessarily)			
Two large IV cannula to be in	serted away	y from the burn	1			
Venous Access 1: central/peripheral size:						
Venous Access 2: central/peripheral size:						

Environment and Wound Manage											
Patient kept warm prior to and du	-		'es / N								
Apply cling film to all open areas, discuss dressing with burns service.							Please complete a Lund &				
Irrigate chemical (except phosphorus) burns copiously							Browder Chart and				
Wash small complex burns to facil		-					_				
Circumferential Burns: Discuss wit	h burn ser	' - '					atta	ch to th	is form		
Escharotomies needed?			es / N	-							
Where:											
Escharotomies carried out prior to	transier:	16	es / No)							
Resuscitation Fluids											
Adults over 150/ and Children	100/ T	DCA nomilia	fluid social	acitatian	مسخسماا طخن	omm'o Fluid			NC tube		
Adults over 15% and Children o	ver 10% i	bsa require	ilula resu	scitation w	iin narim	ann S Fiuid	, urinary c	atheter &	NG tube		
3 ml x a (TBSA%) x b (weight) = 0	· (total vo	lume for 24	hours)								
3 ml x a (TBSA) x b											
Total volume for 24 hrs c					(divid	e bv remai	ning hours	to 8hrs pc	st iniury)		
	-	period volur				-	_		J. 7,		
1 st period from time of injury to					-	<i>,</i> =	•	hr			
2 nd period from 8 hours post in			niury -	inf	iusion rato	 -	ا/۱۱۱۱ / اس	'hr			
	•	•						111			
Please check calculations and dis				-		_					
Consider discussing fluid require			-	-	th Burns S	ervices at <u>r</u>	point of ref	<u>erral</u>			
We expect the patient to be tran						••					
Note: Children also require 100	% maintei	nance (0.45)	% Naci + 5	% dextrose) alongside	e resuscita	tion fluids				
Burn Time		Haum 1	Haum 3	Haur 2	Hour 4	Поли Г	Hour C	Haur 7	Have 9		
Burn Time	•••	Hour 1	Hour 2	Hour 3	Hour 4	Hour 5	Hour 6	Hour 7	Hour 8		
Hartmann's (mls) Other fluids (mls)											
Oral fluids (mls)											
Urine output (mls) (aim 30-50 ml	/hr)										
	esults					Medic	ation Give	n			
Bloods	Suits	ABG		Time Drug				Route	Dose		
Hb	На	700		<u> </u>		Diug		noute	Dosc		
WCC	PO2 kPa/	mmhg									
Platelets	PC02 kPa										
Sickledex	HCO3	<u> </u>									
Na+	BE										
K+	Lactate										
Urea	CoHb%										
Creatinine	Glucose										
I I	Glucose										
Albumin	СК										
ECG ECG	СК	numa series)									
ECG Pre transfer Checklist	СК	numa series)		Other releva	ant informa	<u>tion</u>	<u>P</u>	aediatric re	trieval teams		
Pre transfer Checklist Airway - safe/secured	СК	auma series)									
ECG Pre transfer Checklist	СК	numa series)		Burns Bed B	ureau Cont				trieval teams 0191 282 3017		
Pre transfer Checklist Airway - safe/secured	СК	auma series)			ureau Cont			North East - (
Pre transfer Checklist Airway - safe/secured NGT in situ for transit	CK X-Ray (tra	auma series)		Burns Bed B	ureau Cont			North East - ()191 282 3017 H - 0845 147 2472		
Pre transfer Checklist Airway - safe/secured NGT in situ for transit Tubes/lines secured	CK X-Ray (tra	numa series)		Burns Bed B	ureau Cont			North East - (0191 282 3017 H - 0845 147 2472 Transport Service		
Pre transfer Checklist Airway - safe/secured NGT in situ for transit Tubes/lines secured Poisons Centre contacted and details attack	CK X-Ray (tra	auma series)		Burns Bed B	ureau Cont			North East - (EMBRACE Y& North West T	0191 282 3017 H - 0845 147 2472 Transport Service		
Pre transfer Checklist Airway - safe/secured NGT in situ for transit Tubes/lines secured Poisons Centre contacted and details attack Analgesia adequate	CK X-Ray (tra	auma series)		Burns Bed B	ureau Cont			North East - (EMBRACE Y& North West T	0191 282 3017 H - 0845 147 2472 Transport Service		
Pre transfer Checklist Airway - safe/secured NGT in situ for transit Tubes/lines secured Poisons Centre contacted and details attack Analgesia adequate Infusions for transit	CK X-Ray (tra	auma series)		Burns Bed B	ureau Cont			North East - (EMBRACE Y& North West T	0191 282 3017 H - 0845 147 2472 Transport Service		
ECG Pre transfer Checklist Airway - safe/secured NGT in situ for transit Tubes/lines secured Poisons Centre contacted and details attack Analgesia adequate Infusions for transit Jewellery/Watch removed	CK X-Ray (tra	auma series)		Burns Bed B	ureau Cont			North East - (EMBRACE Y& North West T	0191 282 3017 H - 0845 147 2472 Transport Service		
ECG Pre transfer Checklist Airway - safe/secured NGT in situ for transit Tubes/lines secured Poisons Centre contacted and details attack Analgesia adequate Infusions for transit Jewellery/Watch removed Notes/x-rays/investigations/photographs Burn unit contacted with time of departure	CK X-Ray (tra	auma series)		Burns Bed B	ureau Cont			North East - (EMBRACE Y& North West T	0191 282 3017 H - 0845 147 2472 Transport Service		
Pre transfer Checklist Airway - safe/secured NGT in situ for transit Tubes/lines secured Poisons Centre contacted and details attack Analgesia adequate Infusions for transit Jewellery/Watch removed Notes/x-rays/investigations/photographs	CK X-Ray (tra			Burns Bed B 01384 679(oureau Cont	act:		North East - (EMBRACE Y& North West T (NWTS) - 08(0191 282 3017 H - 0845 147 2472 Gransport Service 000 84 83 82		

Northern Burn Care Network Non-Complex Burn Referral Form

Patient Det	ails: NHS I	No:			Referral Information:	please s	pecify) D	ate:/.	/	. Time:	:	
Name:				Department: ED / Ward / Other:								
Date of Birth:/ Gender: M / F					Referrer Name:							
Address:					Grade:							
Postcode:Tel No:					GP Details:			Tel N	lo:			
Is an interpreter required? Yes / No				GP Name:								
Language:					GP Practice/Address:							
0.101					·							
Nove of Kin	Dataila				DNACIL							
Next of Kin Details: Patient accompanied by:					PMSH:		,		• •	v /		
	•	•			Smokes: / day Alcohol:units/day Drug Abuse: Yes / No							
Relationship:					Allergies: Yes / No Tetanus status:							
Is the next		e? Yes	/ No		Mobility:			_				
Burn Inforn					Specify:							
Date of bur	n: / /	Time:	:		Safeguarding / Risk:							
Cause of bu	ırn:				Concerns: Yes / No	. Detail:	s:					
Location of	burn:				Action Taken: Yes /	No De	tails:					
Is it over a j	oint?	Yes	/ No		Burn % Chart							
First aid giv	en/cooling:	Yes	/ No									
Is yes, how	long for:				Calculate burn	n % ignor	ing simp	le ervthe	ma			
What type:	-				 Any burn grea 	_		-		adults red	nuires a	
Was the fire			/ No		complex refer				. 20,0		94 00 4	
	-		/ Cm		Complex refer	101101111						
Burn Depth			icial Dermal									
	-	nal Full Thi								1		
	200р 20				A }	}			{ A	}		
Wound Ma	nagement:				1							
wash with	soap and w	ater and a	pply cling filr	n (<i>not</i>		λ		(λ		
to face) for immediate transfer only, otherwise apply			(2)	(2)		/2	١	(2)				
appropriate dressing.			13	M		1	13	M				
	J				(1)	1/15	1	15/		15	\	
Circulation	/Observatio	ons: Temp:	Deg		A/V	\wedge	1	41	/ a. I a	11.	7	
HR: B/I		-	_			- 1	S. Ellin	1	2: 2	י <i>ו</i> ני	(iii)	
Medication					\ B \	в/			В	з/		
r		Davita	Dana		\ \				1 8			
Time	Drug	Route	Dose						1	7		
					(c/	c			/c/c	-/		
					H	-			ME	1		
)12()	12			(13) 1	1		
Pre-Transfe	r chacklist:				400	LLL			W	13"		
Analgesia												
	•		_		Area	Age 0	1	5	10	15	Adult	
Consider cannula		A= ½ of head	9 ½	8 ½	6 ½	5 ½	4 ½	3 ½				
Jewellery/watch off		B= 1/2 one thigh	2 ¾	3 ¾	4	4 ½	4 ½	4 ¾				
Notes/x-rays/investigations		C = ½ of one lower leg	2 ½	2 ½	2 ¾	3	3 1/4	3 ½				
Copy of ED assessment details												
Copy of A	mbulance P	RF										
Any other relevant information:					Rurn Red Rures	u no .013	284 670 (136				
Any other relevant information: Burn Bed Bureau no. 01384 679 036												
Please com	nlete leaihh	<i>/</i> :										
			De	signatio	on/Grade:		Sian	ed:				
10		•••••			,		Jigi				•••	
Contact do	tails/diroct	line:										
i contact de	ians/ un ect											