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# Burns & Scalds Assessment Template. (BASAT)

Please complete for ALL children 0-16th birthday presenting with a BURN or SCALD injury.  
Please complete ALL sections, ticking ALL answers that apply

**Patient Details (or addressograph)**

Hospital or **NHS** number:

Name: \_\_\_\_\_ Date of Birth: \_\_\_\_\_

Gender: \_\_\_\_\_ Post code: \_\_\_\_\_

Ethnicity:

White	Asian	Other
British	Indian	Arab
Irish	Pakistani	Any other Arab background
English or Irish Traveller	Bangladeshi	
Any other white background	Chinese	
	Any other Asian background	
Black	Black	
White & Black Caribbean		
White & Black African	African	
White & Asian	Caribbean	
Any other mixed background	Any other Black background	

Version 3: 07/01/2024

Name:	Centre:
Hospital No.	ID No.:
DOB:	
Clinician completing form:	
<input type="checkbox"/> Research Nurse <input type="checkbox"/> Nurse <input type="checkbox"/> SHO <input type="checkbox"/> ESS <input type="checkbox"/> APP <input type="checkbox"/> CONS <input type="checkbox"/> A&P	
Who is accompanying the child? <input type="checkbox"/> Mum <input type="checkbox"/> Dad <input type="checkbox"/> Grandparent <input type="checkbox"/> Unaccompanied <input type="checkbox"/> Other:	
Assessment undertaken:	Date: / / (dd/mm/yy)   Time: : (24hr)
Injury Occurred:	Date: / / (dd/mm/yy)   Time: : (24hr)
Details of child:	Gender:   *Age: (insert in years if child > 2)

**Section 1: History of Injury**

**1.1 Type of injury**

Scald    Sunburn  
 Contact Burn    Flame  
 Electrical    Other:

**1.2 Location**

Home    Café/Restaurant  
 School    Other:

**1.3 Details of incident**

Was anyone in the room/vicinity at the time?  
 Yes    No  
 If yes, what?  
 Parent    Grandparent    Peer  
 sibling    Other:  
 Did they see what happened?    Yes    No  
 What is the explanation for the injury?

**1.4 What was the child doing just before the incident?**

Running/Walking    Being Carried/ Held  
 Lying Down    Sitting    Standing  
 N/A    Other:

**1.5 Agent/Mechanism (please complete all applicable)**

\*Agent:  
 Hot Drink    Open Heat    Radiation    BBQ    Fire  
 Hot Food    Open Flame    Hair Tongs/ Straighteners  
 Water    Fan/Oil    Sun    N/A  
 Other:

Source of scald:  
 Mug/Tea    Bowl    Tray    Bath    Shower  
 Griddle    Pan    N/A    Other:

Location of hot item:  
 Kitchen surface    Hair table    Floor    On clothes/bag  
 Dining table    Oven    Garden/outside  
 N/A    Other:

Mechanism:  
 Touch    Pull down    Immersion    Splashed  
 Poured into    Splashed    Exposure to sun  
 N/A    Other:

**1.6 First Aid (including resuscitation first aid)**

Was First Aid given by Parent/Carer?    Yes    No  
 If yes, what? (tick all that apply):  
 Cold Water    Ice/Coolant    Butter  
 Wet Compress    Talcum Powder    Honey  
 Ice    Toothpaste    Tomatoes  
 Other "soothing" agent    Other cream/gel/ointment    Egg  
 If a (please specify)   (specify)   (specify)  
 Other (specify):

If cold water first aid was applied?  
 Tap/Flowing (running) water    Full tub water (immersion)  
 How long was water applied for? (mins)

Was the burn covered?    Yes    No

If yes, what with?  
 Was Analgesia administered by the parent/carer prior to arrival at ED?  
 None    Paracetamol    Ibuprofen    Other (specify)

Version 3: 07/01/2024

Name: \_\_\_\_\_ Hosp. No. \_\_\_\_\_ DOB: \_\_\_\_\_

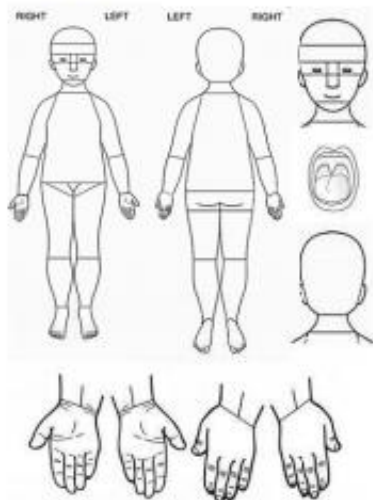
**Section 2: Details of child**

**2.1. Is there any developmental impairment?**  
 (Please tick all that apply)    N/A  
 Motor    Psychological    Hearing    Behavioural    Learning    Vision    Other:

**2.2. Current "best" stage of development:**  
 (Please complete for children < 2 years & 0 yrs to 0.2.2)    N/A  
 Not mobile fully    Only able to roll over    Sitting    Crawling    Cruising    Walking

**Section 3: Characteristics of injury on examination.**

**3.1 Body map—please shade distribution of injury.  N/A—no visible injury**



Version 3: 07/01/2024

Name: \_\_\_\_\_ Hosp. No. \_\_\_\_\_ DOB: \_\_\_\_\_

**3.2 Pattern of injury (tick all that apply)**

N/A  
 Symmetrical (both sides of the body)  
 Glove/stocking distribution  
 Clearly defined margins  
 Skin fold sparing  
 Margins in shape of an implement  
 Multiple contact burns (over the feet)

**3.3 Depth of injury (tick all that apply)**    N/A  
 Erythema/Redness    Blister, wet burn  
 Wet, pink    Dry, white or charred

**3.4 TBSA**    N/A  
 (TBSA = % consider referral to specialist Burns Unit, School Nurse, Health Visitor)

**Percentage of body injured:**  
 < 1%    2-9%    10-14%    > 15%

**3.5 Any other injuries or medications?**  
 Yes    No  
 Details if yes:

**3.6 Have there been any previous ED attendance for:**  
 Burn injury    Other injury  
 Details if yes:

**Section 4: Screening, Referrals & Outcomes**

**\* 4.1 Social Services (SS) involvement**

Does the Child/Family have a Social worker (SW) now?    Yes    No  
 Did the Child/Family have a SW or any SS involvement in the past?    Yes    No  
 Is there any Domestic Violence in the Home?    Yes    No  
 (If preferred way to ask this question is "Do you feel safe at home?" - only ask this question if you can talk to the parent or their carer)

**\* 4.4 Referrals & Outcomes (tick all that apply)**

Was a Child Protection referral made? <input type="checkbox"/> None <input type="checkbox"/> Social Services <input type="checkbox"/> Hospital Safeguarding Team	Were any other referrals made? <input type="checkbox"/> None <input type="checkbox"/> Health Visitor <input type="checkbox"/> School Nurse <input type="checkbox"/> Other	Outcome? <input type="checkbox"/> Discharged Home <input type="checkbox"/> ED review <input type="checkbox"/> GP/Practice Nurse <input type="checkbox"/> Specialist Burns Unit <input type="checkbox"/> Transfer to Acute ward <input type="checkbox"/> Other
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Overall additional comments:

Version 3: 07/01/2024

Figure 1

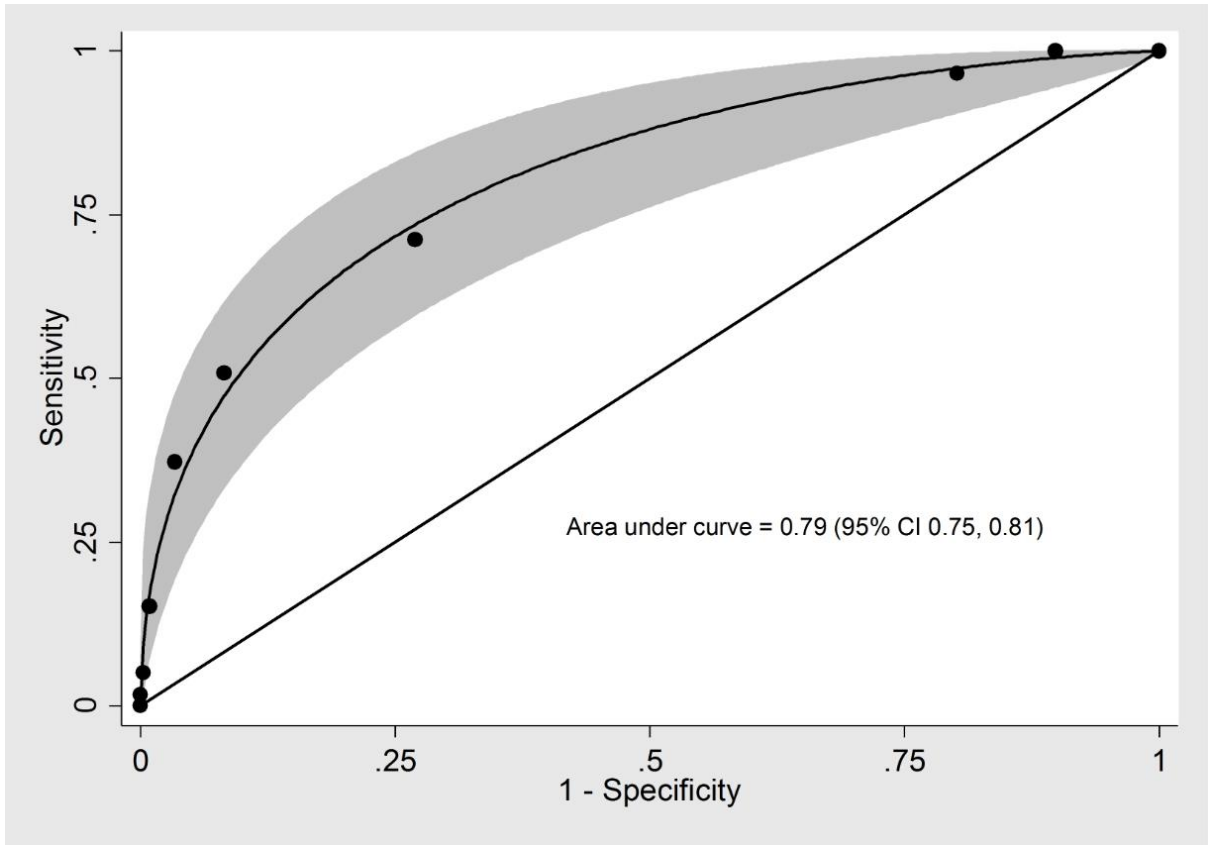


Figure 2

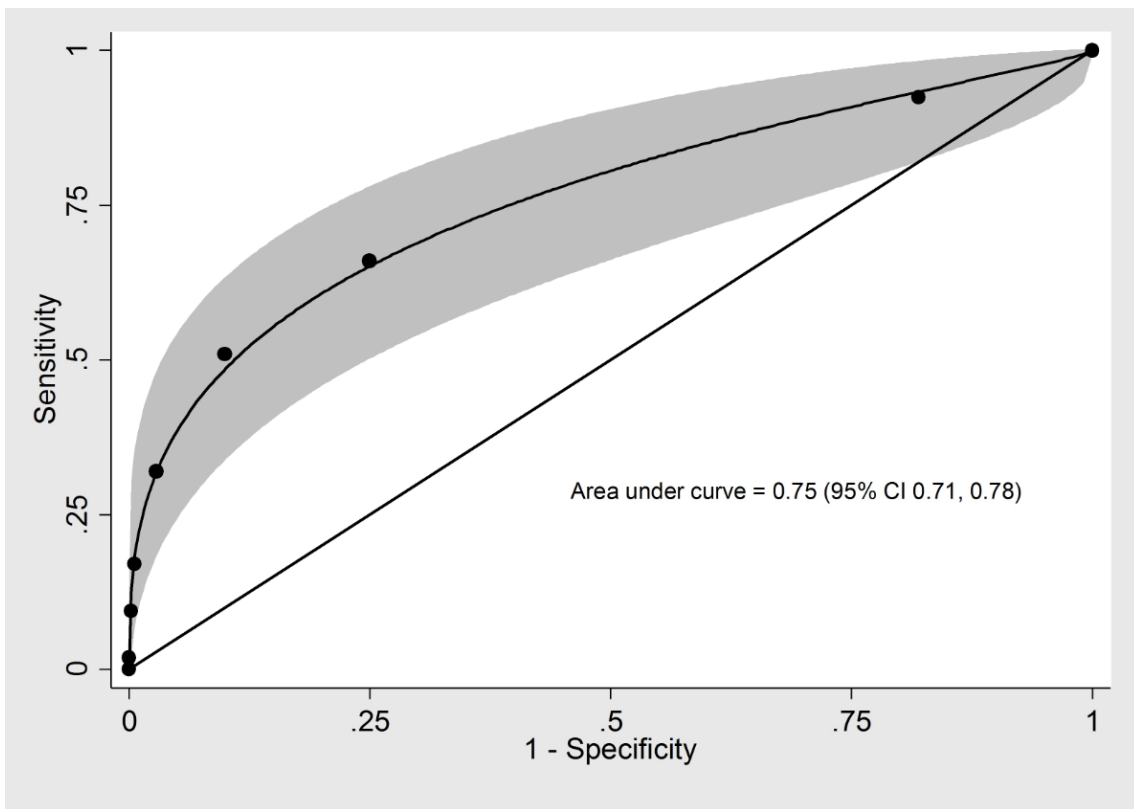


Figure 3

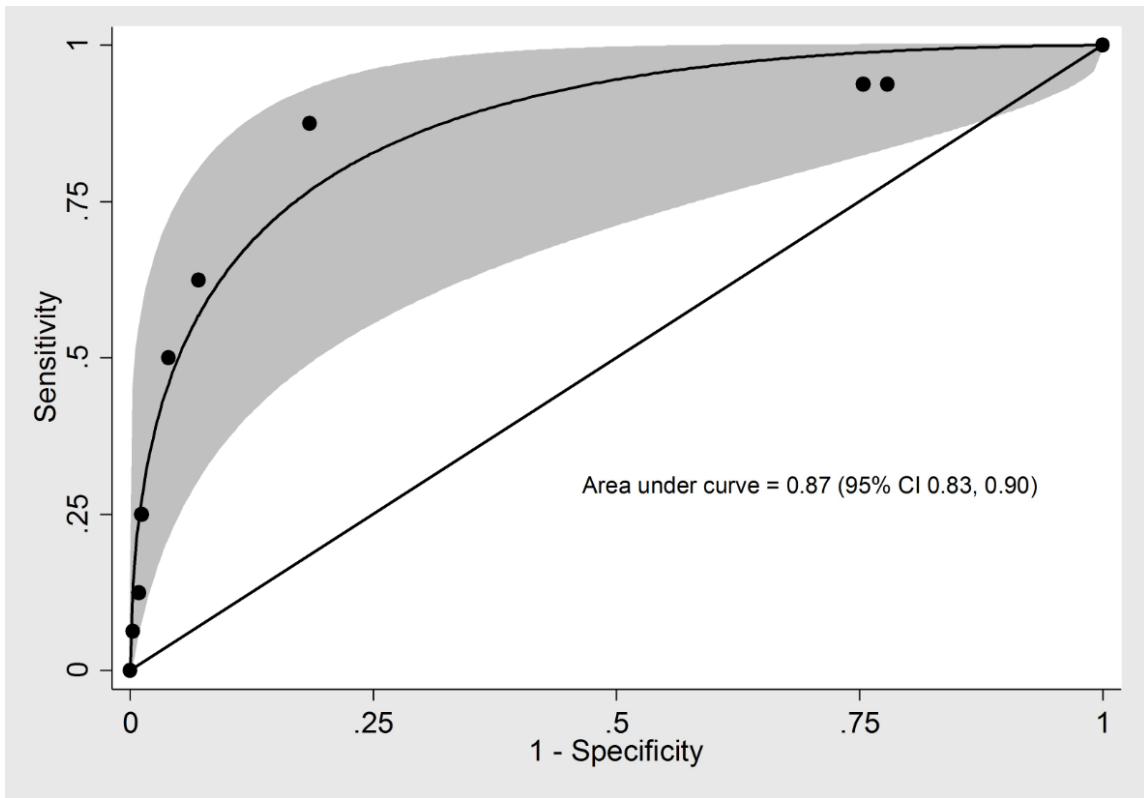


Figure 4

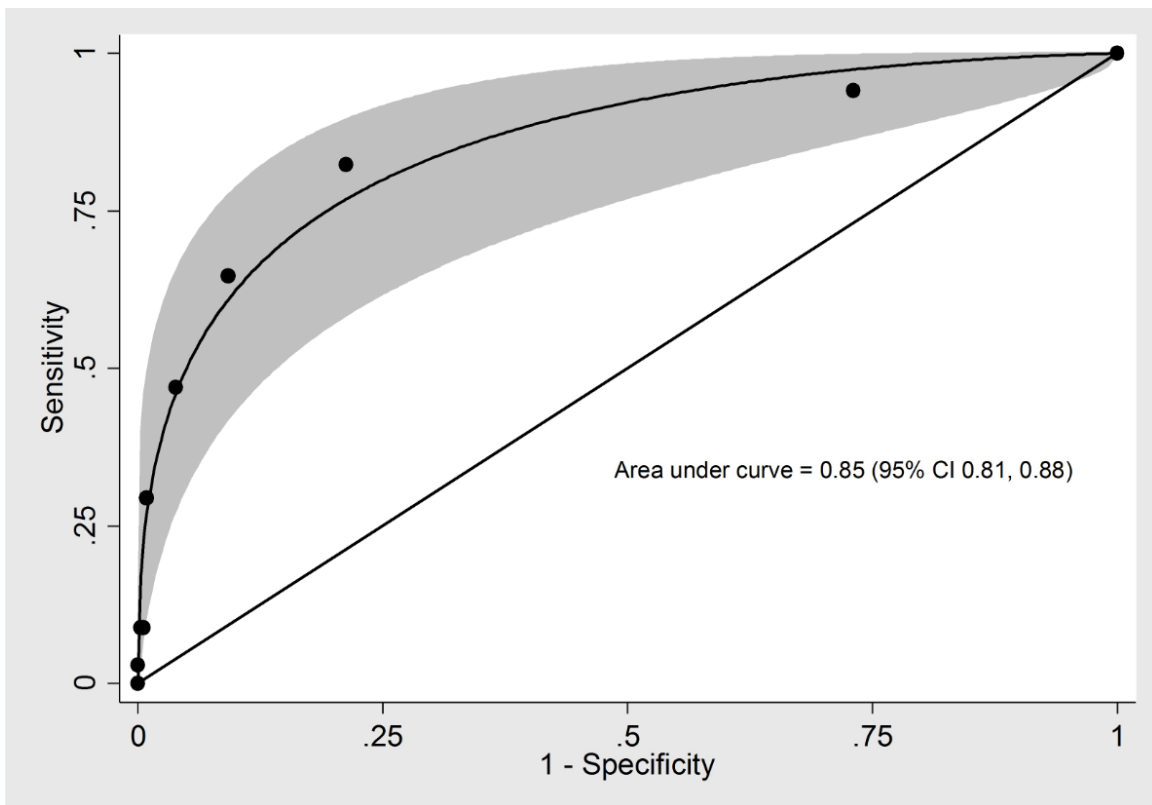


Figure 5

**Supplementary Table 1.** Body site distribution of scalds (N=765; 3 cases with missing data) and burns (N=559) in the *derivation* data set. Uncommon distributions are marked in bold and include body sites represented by <5% of all cases (scalds = uppermost site; burns = sites with deepest burn)

	Scalds		Burns	
	N	%	N	%
Abdomen	45	5.9	<b>2</b>	<b>0.4</b>
Arm	141	18.4	65	11.6
Back	<b>11</b>	<b>1.4</b>	<b>7</b>	<b>1.3</b>
Buttock	<b>16</b>	<b>2.1</b>	<b>5</b>	<b>0.9</b>
Chest	116	15.2	<b>14</b>	<b>2.5</b>
Face	113	14.8	62	11.1
Foot	53	6.9	<b>25</b>	<b>2.5</b>
Groin	<b>6</b>	<b>0.8</b>	<b>0</b>	<b>0</b>
Hand	71	9.3	323	57.8
Head*	<b>21</b>	<b>2.8</b>	<b>2</b>	<b>0.4</b>
Leg	93	12.2	45	8.1
Neck/shoulder	79	10.3	<b>9</b>	<b>1.6</b>

\* Within the hairline.

Table 1

**Supplementary Table 2.** Contributions of variables to the total scores in the derivation sample (scalds and non-scalds combined). Shown are N (%).

	Score = 0-2	Score = 3	Score = 4	Score = 5	Score = 6	Score = 7-8
Previously known to Social Care (yes)	NA	1 (0.4)	3 (3.4)	24 (48.0)	6 (37.5)	6 (54.5)
Severity (full thickness)	2 (0.4)	8 (3.5)	35 (39.8)	8 (16.0)	1 (6.3)	6 (54.5)
Concerning explanation (yes)	0 (0)	8 (3.5)	28 (31.8)	18 (36.0)	12 (75.0)	9 (81.8)
Age (<5 years)	756 (81.2)	210 (92.1)	70 (79.5)	45 (90.0)	14 (87.5)	7 (63.6)
Uncommon body site (yes)*	13 (2.4)	27 (18.8)	5 (11.9)	4 (12.9)	3 (30.0)	2 (40.0)
Pattern (bilateral)*	23 (4.3)	63 (43.8)	22 (52.4)	10 (32.3)	10 (100)	3 (60.0)
Supervision concern (yes)	117 (12.6)	123 (53.9)	33 (37.5)	17 (34.0)	9 (56.3)	8 (72.7)
Total**	931	228	88	50	16	11

\* Scalds only (N=533 score 0-2, N=144 score = 3, N = 42 score = 4, N = 31 score = 5, N = 10 score = 6, N = 5 score 7-8).

\*\* Proportions are calculated with the total number in each score category as denominator, hence does not add up to 100% as several combinations of variables will contribute.

Table 2

**Supplementary Table 3.** Proportion of false positive cases (the BuRN-Tool gave score  $\geq 3$  but children were not referred to children's social care teams) across all the predictor variables in the validation data.

	< 5 years (N total = 113) N (%)	$\geq 5$ years (N total = 25) N (%)	OR (95% CI) <sup>†</sup>
Scalds	53 (47)	13 (52)	1.22 (0.52, 2.92)
Previously known to Social Care	15 (13)	16 (64)	11.61 (4.36, 30.98)
Full thickness depth	23 (20)	7 (28)	1.52 (0.57, 4.08)
Concerning explanation	13 (12)	4 (16)	1.47 (0.43, 4.94)
Supervision concern	59 (52)	2 (8)	0.08 (0.02, 0.35)
Bilateral scald pattern*	9 (17)	2 (14)	0.81 (0.16, 4.28)
Uncommon body site**	10 (19)	4 (31)	1.91 (0.49, 7.48)

\* Only relevant to scalds, n=53 for <5 year olds, n=14 for  $\geq 5$  year olds.

\*\* Only predictive for scalds, n=53 for <5 year olds, n=13 for  $\geq 5$  year olds.

<sup>†</sup> The method used to calculate a confidence interval for the difference between two proportions is the Newcombe-Wilson method without continuity correction.<sup>30</sup>

Table 3