

Appendix C represents the full list of outcomes returned as well as their relative frequency. Subsequent tables (tables A-L) separate this list of outcomes into different domains based on their content for ease of review. Thus, each outcome will appear in *Appendix C* as well as one of the other tables.

Appendix C

Mortality without time specified	298
Length of hospital stay	260
Amputation	156
Number of debridements required	151
Length of ICU stay (days)	103
In hospital mortality / 'survival to discharge'	94
Skin graft required	88
Number of procedures/surgeries required	86
Colostomy	75
Septic shock	61
Orchidectomy	46
Sepsis	46
Surgical flap required	44
Organ failure/dysfunction	42
Surgical reconstruction required	38
Cystostomy	34
Ventilation (days)	33
Acute kidney injury	33
Level of amputation	28
Survival time	25
Pneumonia	23
Primary wound closure	22
30-day mortality	21
Suprapubic tube placement	21
Acute respiratory failure	21
CVS complications	21
28-day mortality	20
90-day mortality	19
Discharged home	18
Split thickness skin graft required	16
Penectomy	15
ICU mortality	13

Mortality within 6 months / 180 days	12
Faecal diversion	12
Number of antibiotic days	12
Thrombo-embolic complications	12
Cost per patient	11
Area healed by secondary intention	10
Wound healing time (cicatrisation time)	10
Bacteraemia	10
Pulmonary complications	10
Mediastinitis	10
Discharged to skilled nursing facility	9
Total operating time	9
Ventilator-free days	9
Discharged to rehabilitation	8
Severe sepsis	8
ICU-free days	7
Renal failure	7
ARDS	7
Mortality within 1 year	6
Discharged to other hospital	6
Routine discharge	6
Need for additional debridements	6
Medical Outcomes Short Form-36 (SF36)	6
Septicaemia	6
Developed coagulation disorder	6
Renal complications	6
Myocardial infarction	6
Required debridement AND fasciotomy	5
Ileostomy required	5
Stoma	5
Ventilation (hours)	5

Systemic Inflammatory Response Syndrome (SIRS)	5
DIC	5
Recurrence of necrotising fasciitis	5
DVT	5
Cardiopulmonary arrest	5
Discharge with home health care	4
Extent of debridement (cm ²)	4
Complete wound closure	4
Percentage of primary closure	4
Rate of wound closure	4
Plastic surgery	4
Mean time to wound closure	4
Length of ICU stay (hours)	4
Vasopressor-free days	4
Unplanned readmission	4
Wound dehiscence	4
SOFA score (Day 14)	4
Skin and soft tissue infections	4
Serious adverse event (not defined)	4
Neurological complications	4
Pulmonary emboli	4
Urinary tract infection	4
Surgical site infection; superficial or deep	4
Mortality within 7 days	3
Discharged to hospice	3
Primary amputation	3
Amputation during ICU stay	3
Loss of an organ / body part	3
Late amputation	3

Number of amputations	3
Number of debridements before day 7	3
Delayed wound closure	3
Size of skin graft (cm ²)	3
Free tissue transfer	3
Eyelid reconstruction	3
>1 surgical procedure	3
Reoperation during initial hospitalisation	3
Orbital exenteration	3
Days alive and out of hospital (by day 180)	3
Days alive and out of hospital in 180-day follow up period	3
Time to cure	3
NICCE endpoint	3
Scar tissue	3
Time to resolution of shock	3
Limb compartment syndrome	3
Severe bleeding (3+ units RBC within 24 hours in ICU)	3
Hepatic failure	3
Visual impairment	3
72 hour mortality	2
15 day mortality	2
Limb amputation	2
Revision of amputation stump	2
Second amputation due to infection spread or complication	2
Number of debridements by day 14	2
Flap size	2
Secondary wound closure	2
Washing and drainage	2
Maximum wound size	2
Auxillary surgical procedures required (other than debridement)	2

Enterostomy	2
Length of hospital stay of surviving patients	2
Life-support free days	2
Days alive off life support at day 90	2
Time to complete wound coverage	2
Complete recovery achieved	2
Time to source control	2
Pain score (visual analogue scale)	2
Derriford appearance scale score	2
Disability	2
SOFA score (Day 28)	2
m-SOFA (Day 14)	2
Skin loss	2
Partial skin flap loss	2
Fistula to rectum; perianal fistula	2
Toxic shock syndrome	2
Hospital-acquired infection	2
Secondary fungal infections	2
Compartment syndrome	2
Haematoma	2
AKI complete recovery	2
Acute renal failure	2
Developed tracheal stenosis	2
Pleural effusion	2
Unplanned intubation	2
Vascular complications	2
Urethrocutaneous fistula	2
Worsening visual acuity (worse than 20/40)	2
Mortality within 10 days of first debridement	1
14 day mortality	1
Mortality after discharge but within 28 days after surgery	1
60-day mortality	1

Mortality within 2 years	1
2.5 year mortality	1
5 year mortality	1
Long term mortality (2.7 years)	1
Adjusted mortality rate (rate per 100,000)	1
30-day perioperative mortality	1
48 hour mortality	1
Non-routine discharge	1
Favourable discharge (home or rehab)	1
Unfavourable discharge (skilled nursing facility, other hospital, or inpatient death)	1
Discharged to others (shelter, street, AMA)	1
Discharge or transfer within 14 days	1
discharged to long term facility	1
discharged to short term facility	1
Major amputation (not otherwise defined)	1
Limb amputation within 30 days	1
Amputation within 180 days	1
disarticulation	1
hip disarticulation	1
Time to last debridement	1
Mean number of surgical debridements before wound closure	1
Required debridement AND fasciotomy AND amputation	1
>/= 3 debridements	1
>2 debridements	1
Median skin excision	1
Skin-to-fascia excision ratio	1
</=3 debridements by day 14	1
Average reconstruction time	1

Number of reconstructive procedures	1
Time to reconstruction	1
Tertiary wound closure	1
Partial graft take	1
Scrotum reconstruction	1
Penile reconstruction	1
Urethrectomy	1
Amount of primary closure	1
% closure by graft/flap	1
Required operation revision after reconstruction	1
Wound closure status at discharge	1
Cosmetic surgery required	1
Time to surgical closure	1
Time from initial debridement to skin graft	1
Repeat drainage required	1
Indwelling drainage tube time	1
>/= 3 operations	1
Re-exploration required	1
Duration of tracheotomy cannula inserted	1
Hemiscrotectomy	1
Mandibulectomy	1
Partial colectomy	1
Radical vulvectomy	1
Rib resection	1
Sternal resection	1
Colostomy AND Cystostomy	1
Rectum removed	1
Scrotoectomy	1
Orchidopexy	1
Testicular repositioning	1

Total length of hospital stay, including related readmissions	1
Prolonged hospitalisation required (nil time specified)	1
Days out of ICU at day 30	1
Days out of ICU at day 90	1
Length of stay / % TBSA	1
days on inotropes	1
outpatient management days	1
Healed with initial wound coverage technique	1
Successful long-term complete wound coverage	1
Partial recovery achieved	1
Cured	1
Aesthetic results	1
Time to no significant progression of necrosis	1
Duration of mobilisation each day (whilst primary dressing in situ)	1
Time to normalisation of inflammatory markers	1
Time to treatment effect (clinical improvement)	1
Total surface area ultimately involved	1
Time to normal body temperature	1
Time to "slough cleared"	1
infection resolution	1
Time to withdrawal of vasopressor therapy	1
Daily number of analgesics	1
Time from final wound management to abx cessation	1
Quality of Life (not defined)	1

Quality of life (by examination , SF-36 and disease specific questionnaire)	1
Pain score	1
Assessment of long term morbidity	1
Psychological consultation engaged within 1 year	1
Favourable outcome (Discharge home, no amputation, in less than the median hospital stay for survivors)	1
DAS-24 questionnaire	1
Alteration of 25% of functional impairment scale	1
Successful outcome (cure or improvement without the need of further antibiotic therapy)	1
Effect on individual (per interview)	1
Effect on relationships (per interview)	1
Effect on societal factors e.g. employment (per interview)	1
Depression	1
Changes in sexual life	1
Impact on sexual function	1
Concerns about cosmetic appearance	1
Pain during sexual intercourse	1
Functional impairment (not defined)	1
Ongoing urination symptoms	1
Changes in sensation in the genital area	1
Impotence	1
SF-36 Quality of Life scale / measure	1
Physical Component Summary Score	1
modified nicce endpoint	1

time to SOFA score </=1	1
Skin deficits	1
Donor site complication (of graft site)	1
Partial skin graft loss	1
Partial necrosis of skin flap	1
Pelvic abscess	1
Sinuses to skin	1
Gluteal defects	1
Flap necrosis	1
Skin flap partial suture dehiscence	1
flap and graft loss	1
Severe electrolyte disorder	1
Critical illness (not defined)	1
Septic metastasis	1
Electrolyte disorders	1
Extension of disease	1
Inflammatory involvement of the retroperitoneum	1

Seroma	1
HBOT complications	1
miscarriage	1
secondary infections	1
adverse events to day 28	1
Post operative renal failure	1
Acute kidney injury (Stage 3)	1
Respiratory failure requiring intubation	1
Pleural empyema	1
Neuronal lesions (not defined)	1
Stroke	1
partial face palsy	1
subendocardial infarction	1
common carotid rupture	1
Urinary complications	1
Nephrostomy	1
Perforated duodenal ulcer	1
Peritonitis	1

Upper GI bleed	1
Colostomy necrosis	1
Colostomy prolapsus	1
Parastomal hernia	1
Incisional hernia	1
Defunctioning stoma	1
Polyserositis	1
rethoracotomy	1
Proptosis	1
Relative afferent pupillary defect	1
Pain on eye movement	1
Worsening visual acuity of 6/18 or worse	1
Eyelid necrosis	1
Eyelid cellulitis	1
Post operative visual acuity	1
Loss of vision	1
Visual acuity changes	1

Table A- MORTALITY RELATED OUTCOMES

Mortality without time specified	298
In hospital mortality / 'survival to discharge'	94
Survival time	25
30-day mortality	21
28-day mortality	20
90-day mortality	19
ICU mortality	13
Mortality within 6 months / 180 days	12
Mortality within 1 year	6
Mortality within 7 days	3
72 hour mortality	2
15 day mortality	2
Mortality within 10 days of first debridement	1
14 day mortality	1
Mortality after discharge but within 28 days after surgery	1
60-day mortality	1
Mortality within 2 years	1
2.5 year mortality	1
5 year mortality	1
Long term mortality (2.7 years)	1
Adjusted mortality rate (rate per 100,000)	1
30-day perioperative mortality	1
48 hour mortality	1

Table B- DISCHARGE RELATED OUTCOMES

Discharged home	18
Discharged to skilled nursing facility	9
Discharged to rehabilitation	8
Discharged to other hospital	6
Routine discharge	6
Discharge with home health care	4
Discharged to hospice	3
Non-routine discharge	1
Favourable discharge (home or rehab)	1
Unfavourable discharge (skilled nursing facility, other hospital, or inpatient death)	1
Discharged to others (shelter, street, AMA)	1
Discharge or transfer within 14 days	1
discharged to long term facility	1

discharged to short term facility	1
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Table C- AMPUTATION RELATED OUTCOMES

Amputation	156
Level of amputation	28
Primary amputation	3
Amputation during ICU stay	3
Loss of an organ / body part	3
Late amputation	3
Number of amputations	3
Limb amputation	2
Revision of amputation stump	2
Second amputation due to infection spread or complication	2
Major amputation (not otherwise defined)	1
Limb amputation within 30 days	1
Amputation within 180 days	1
disarticulation	1
hip disarticulation	1

Table D- DEBRIDEMENT RELATED OUTCOMES

Number of debridements required	151
Required debridement AND fasciotomy	5
Extent of debridement (cm2)	4
Number of debridements before day 7	3
Number of debridements by day 14	2
Time to last debridement	1
Mean number of surgical debridements before wound closure	1
Required debridement AND fasciotomy AND amputation	1
>/= 3 debridements	1
>2 debridements	1
Median skin excision	1
Skin-to-fascia excision ratio	1
</=3 debridements by day 14	1

Table E- CLOSURE/RECONSTRUCTION RELATED OUTCOMES

Skin graft required	88
Surgical flap required	44
Surgical reconstruction required	38
Primary wound closure	22
Split thickness skin graft required	16

Area healed by secondary intention	10
Complete wound closure	4
Percentage of primary closure	4
Rate of wound closure	4
Plastic surgery	4
Mean time to wound closure	4
Delayed wound closure	3
Size of skin graft (cm2)	3
Free tissue transfer	3
Eyelid reconstruction	3
Flap size	2
Secondary wound closure	2
Average reconstruction time	1
Number of reconstructive procedures	1
Time to reconstruction	1
Tertiary wound closure	1
Partial graft take	1
Scrotum reconstruction	1
Penile reconstruction	1
Urethrectomy	1
Amount of primary closure	1
% closure by graft/flap	1
Required operation revision after reconstruction	1
Wound closure status at discharge	1
Cosmetic surgery required	1
Time to surgical closure	1
Time from initial debridement to skin graft	1

Table F- OTHER SURGICAL OUTCOMES

Number of procedures/surgeries required	86
Colostomy	75
Orchidectomy	46
Cystostomy	34
Suprapubic tube placement	21
Penectomy	15
Faecal diversion	12
Total operating time	9
Ileostomy required	5
Stoma	5
>1 surgical procedure	3

Reoperation during initial hospitalisation	3
Orbital exenteration	3
Washing and drainage	2
Maximum wound size	2
Auxillary surgical procedures required (other than debridement)	2
Enterostomy	2
Repeat drainage required	1
Indwelling drainage tube time	1
>= 3 operations	1
Re-exploration required	1
Duration of tracheotomy cannula inserted	1
Hemiscrotectomy	1
Mandibulectomy	1
Partial colectomy	1
Radical vulvectomy	1
Rib resection	1
Sternal resection	1
Colostomy AND Cystostomy	1
Rectum removed	1
Scrotectomy	1
Orchidopexy	1
Testicular repositioning	1

Table G- RESOURCE RELATED OUTCOMES

Length of hospital stay	260
Length of ICU stay (days)	103
Ventilation (days)	33
Cost per patient	11
Ventilator-free days	9
ICU-free days	7
Ventilation (hours)	5
Length of ICU stay (hours)	4
Vasopressor-free days	4
Unplanned readmission	4
Days alive and out of hospital (by day 180)	3
Days alive and out of hospital in 180-day follow up period	3
Length of hospital stay of surviving patients	2
Life-support free days	2

Days alive off life support at day 90	2
Total length of hospital stay, including related readmissions	1
Prolonged hospitalisation required (nil time specified)	1
Days out of ICU at day 30	1
Days out of ICU at day 90	1
Length of stay / % TBSA	1
days on inotropes	1
outpatient management days	1

Table H- HEALING RELATED OUTCOMES

Wound healing time (cicatrization time)	10
Time to cure	3
Time to complete wound coverage	2
Complete recovery achieved	2
Time to source control	2
Healed with initial wound coverage technique	1
Successful long-term complete wound coverage	1
Partial recovery achieved	1
Cured	1
Aesthetic results	1
Time to no significant progression of necrosis	1
Duration of mobilisation each day (whilst primary dressing in situ)	1
Time to normalisation of inflammatory markers	1
Time to treatment effect (clinical improvement)	1
Total surface area ultimately involved	1
Time to normal body temperature	1
Time to "slough cleared"	1
infection resolution	1

Table I- TREATMENT RELATED OUTCOMES

Number of antibiotic days	12
Time to withdrawal of vasopressor therapy	1
Daily number of analgesics	1
Time from final wound management to abx cessation	1

Table J-PATIENT/FAMILY PERSPECTIVE OUTCOMES

Medical Outcomes Short Form-36 (SF36)	6
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Pain score (visual analogue scale)	2
Derriford appearance scale score	2
Disability	2
Quality of Life (not defined)	1
Quality of life (by examination , SF-36 and disease specific questionnaire)	1
Assessment of long term morbidity	1
Psychological consultation engaged within 1 year	1
Favourable outcome (Discharge home, no amputation, in less than the median hospital stay for survivors)	1
DAS-24 questionnaire	1
Alteration of 25% of functional impairment scale	1
Successful outcome (cure or improvement without the need of further antibiotic therapy)	1
Effect on individual (per interview)	1
Effect on relationships (per interview)	1
Effect on societal factors e.g. employment (per interview)	1
Depression	1
Changes in sexual life	1
Impact on sexual function	1
Concerns about cosmetic appearance	1
Pain during sexual intercourse	1
Functional impairment (not defined)	1
Ongoing urination symptoms	1
Changes in sensation in the genital area	1
Impotence	1

Table K- COMPOSITE SCORES/ENDPOINTS

SOFA score (Day 14)	4
NICCE endpoint	3
SOFA score (Day 28)	2
m-SOFA (Day 14)	2
Physical Component Summary Score	1
modified nicce endpoint	1
time to SOFA score \leq 1	1

Table L- ADVERSE EVENTS

Septic shock	61
Sepsis	46
Organ failure/dysfunction	42

Acute kidney injury	33
Pneumonia	23
CVS complications (not otherwise spec)	21
Acute respiratory failure	21
Thrombo-embolic complications	12
Mediastinitis	10
Pulmonary complications	10
Bacteraemia	10
Severe sepsis	8
ARDS	7
Renal failure	7
Myocardial infarction	6
Renal complications	6
Septicaemia	6
Developed coagulation disorder	6
Recurrence of necrotising fasciitis	5
DVT	5
Cardiopulmonary arrest	5
Systemic Inflammatory Response Syndrome (SIRS)	5
DIC	5
Serious adverse event (not defined)	4
Surgical site infection; superficial or deep	4
Urinary tract infection	4
Pulmonary emboli	4
Neurological complications	4
Skin and soft tissue infections	4
Limb compartment syndrome	3
Severe bleeding (3+ units RBC within 24 hours in ICU)	3
Hepatic failure	3
Visual impairment	3
Time to resolution of shock	3
Scar tissue	3
Hospital-acquired infection	2
Secondary fungal infections	2
Compartment syndrome	2
Haematoma	2
Urethrocutaneous fistula	2
Vascular complications	2
Developed tracheal stenosis	2
Pleural effusion	2

Unplanned intubation	2
AKI complete recovery	2
Acute renal failure	2
Worsening visual acuity (worse than 20/40)	2
Toxic shock syndrome	2
Skin loss	2
Partial skin flap loss	2
Fistula to rectum; perianal fistula	2
Extension of disease	1
Inflammatory involvement of the retroperitoneum	1
Seroma	1
HBOT complications	1
miscarriage	1
secondary infections	1
adverse events to day 28	1
Polyserositis	1
rethoracotomy	1
Colostomy necrosis	1
Colostomy prolapsus	1
Parastomal hernia	1
Incisional hernia	1
Defunctioning stoma	1
Perforated duodenal ulcer	1
Peritonitis	1
Upper GI bleed	1
Urinary complications	1
Nephrostomy	1
subendocardial infarction	1
common carotid rupture	1
Neuronal lesions (not defined)	1
Stroke	1
partial face palsy	1
Respiratory failure requiring intubation	1
Pleural empyema	1
Post operative renal failure	1
Acute kidney injury (Stage 3)	1
Proptosis	1
Relative afferent pupillary defect	1
Pain on eye movement	1
Worsening visual acuity of 6/18 or worse	1

Eyelid necrosis	1
Eyelid cellulitis	1
Post operative visual acuity	1
Loss of vision	1
Visual acuity changes	1
Severe electrolyte disorder	1
Critical illness (not defined)	1
Septic metastasis	1
Electrolyte disorders	1
Skin deficits	1
Donor site complication (of graft site)	1
Partial skin graft loss	1
Partial necrosis of skin flap	1
Pelvic abscess	1
Sinuses to skin	1
Gluteal defects	1
Flap necrosis	1
Skin flap partial suture dehiscence	1
flap and graft loss	1