



NELA Patient Audit Dataset

Version Control

Version	Date	Changes
2.0	24/11/2014	Changes made to dataset for 2 nd year. This form to be used for admissions from 1 st December 2014; Q2.2, 3.5, 6.3 wording amended New Q2.2i, 3.16a & 6.24a Q2.6 no longer required
2.1.1	02/04/2015	Still in hospital at 60 days answer option added to question 7.7
2.1.2	02/07/2015	Wording edited for question 2.9
3.1	01/12/2015	Changes made to dataset for 3 rd year. This form to be used for admissions from 1 st December 2015; Q2.4, 3.1 & 6.1 wording amended New answer options for Q5.2, 5.3a/b/c/d, 5.5 & 7.3 Time controls changed to 15 minute intervals
3.1.1	21/03/2016	Q1.9 wording edited

This is the final NELA proforma. All data entry will be carried out through an online data collection web tool. The web tool will be accessible via pc, tablets and mobiles

This audit is a continuous prospective audit with real time data collection. It is expected that clinical teams enter the data real time rather than retrospectively.

For queries, please contact info@nela.org.uk

Web tool for data entry: <https://data.nela.org.uk/>

This form is for information purposes only.



1.	Demographics and Admission	
1.1	NHS Number	
1.2	Pseudo-anonymisation	Computer generated
1.3	Local patient id/hospital number	
1.4	Date of birth	
1.4	Age on arrival	<i>Age will automatically be calculated on web tool</i>
1.5	Gender	<input type="radio"/> Male / <input type="radio"/> Female
1.6	Forename	
1.7	Surname	
1.8	Postcode	
1.9	Date and time the patient first arrived at the hospital/A&E.	
1.10	What was the nature of this admission?	<input type="radio"/> Elective / <input type="radio"/> Non-elective
2	Pre-op	
	If the patient is returning to theatre as an emergency following previous elective surgery, all answers should relate to the emergency laparotomy, not the previous elective surgery.	
2.1	Date and time first seen by consultant surgeon following admission/referral	Date _____ (DD/MM/YYYY) <input type="radio"/> Date not known Time _____ (HH:MM) <input type="radio"/> Time not known <input type="radio"/> Not Seen
2.2	Date and time that the decision was made to operate <i>If this is unavailable please enter date and time that this patient was first booked for theatre for emergency laparotomy</i>	Date _____ (DD/MM/YYYY) <input type="radio"/> Date not known Time _____ (HH:MM) <input type="radio"/> Time not known
2.2i	Which date and time is recorded?	<input type="radio"/> Decision to operate <input type="radio"/> First booked for theatre
2.3	Consultant responsible for surgical care at the time the decision was made to operate (this may be different to the operating consultant)	<input type="text"/>
2.4	Was the decision to operate made by consultant surgeon?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not known
2.5	Did this clinician personally review the patient at the time of this decision?	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
2.6	What was the date and time that the patient was first booked for theatre? NOT REQUIRED FOR ADMISSIONS AFTER 1/12/14	Date _____ (DD/MM/YYYY) <input type="radio"/> Date not known Time _____ (HH:MM) <input type="radio"/> Time not known
2.7	Was an abdominal CT scan performed in the pre-operative period as part of the diagnostic work-up?	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
2.8	If performed, was this CT reported pre-operatively by a consultant radiologist?	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown

2.9	Date and time first seen by consultant anaesthetist prior to entry into operating theatre/anaesthetic room (not theatre suite)	Date _____ (DD/MM/YYYY) <input type="radio"/> Date not known Time _____ (HH:MM) <input type="radio"/> Time not known <input type="radio"/> Not Seen
2.10	What was the date and time of the first dose of antibiotics following admission?	Date _____ (DD/MM/YYYY) <input type="radio"/> Date not known Time _____ (HH:MM) <input type="radio"/> Time not known <input type="radio"/> Not Administered

3	Pre-op Risk stratification	
3.1	What risk of death was the patient documented as having?	<input type="radio"/> Lower (<5%) <input type="radio"/> High (5-10%) <input type="radio"/> Highest (>10%) <input type="radio"/> Not documented
3.2	If documented, how was this assessment of risk made? (Please select all that apply)	<input type="checkbox"/> Risk prediction tool (e.g. P-POSSUM) <input type="checkbox"/> Clinical Judgement <input type="checkbox"/> Surgical APGAR <input type="checkbox"/> Physiological criteria <input type="checkbox"/> Other e.g. hospital policy
3.3	What was the ASA score?	<input type="radio"/> 1: No systemic disease <input type="radio"/> 2: Mild systemic disease <input type="radio"/> 3: Severe systemic disease, not life-threatening <input type="radio"/> 4: Severe, life-threatening <input type="radio"/> 5: Moribund patient
3.4	What was the pre-operative Serum Creatinine micromol/l	<input type="radio"/> Not performed
3.5	What was the pre-operative Blood lactate – may be arterial or venous (mmol/l)	<input type="radio"/> Not performed
	P-POSSUM calculation	
	For questions 3.6 to 3.22 please enter values closest to time of booking for theatre in order to calculate P-POSSUM. Answers should reflect chronic <i>and</i> acute pathophysiology.	
3.6	Serum Sodium concentration (mmol/l)	
3.7	Serum Potassium concentration (mmol/l)	
3.8	Serum Urea concentration (mmol/l)	
3.9	Serum Haemoglobin concentration (g/dl)	
3.10	Serum White cell count ($\times 10^9 / l$)	
3.11	Pulse rate(bpm)	
3.12	Systolic blood pressure (mmHg)	
3.13	Glasgow coma scale	
3.14	Select an option that best describes this patient's ECG	<input type="radio"/> No abnormalities <input type="radio"/> AF rate 60-90 <input type="radio"/> AF rate >90/ any other abnormal rhythm/paced rhythm/ >5VE/min/ Q, ST or T wave abnormalities
3.15	Select an option that best describes this patient's cardiac signs and chest xray appearance	<input type="radio"/> No failure <input type="radio"/> Diuretic, digoxin, antianginal or antihypertensive therapy <input type="radio"/> Peripheral oedema, warfarin Therapy or CXR: borderline cardiomegaly

		<input type="radio"/> Raised jugular venous pressure or CXR: cardiomegaly
3.16	Select an option that best describes this patient's respiratory history and chest xray appearance	<input type="radio"/> No dyspnoea <input type="radio"/> Dyspnoea on exertion or CXR: mild COAD <input type="radio"/> Dyspnoea limiting exertion to < 1 Flight or CXR: moderate COAD <input type="radio"/> Dyspnoea at rest/rate > 30 at rest or CXR: fibrosis or consolidation
3.16a	Patient was ventilated prior to emergency laparotomy <i>Online web tool will automatically calculate Physiology severity score</i>	<input type="radio"/> Yes <input type="radio"/> No
3.17	Select the operative severity of the intended surgical intervention (see help box for examples)	<input type="radio"/> Major <input type="radio"/> Major+
3.18	Including this operation, how many operations has the patient had in the 30 day period prior to this procedure?	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> >2
3.19	Based on your clinical experience of the intended surgery, please estimate the likely intraoperative blood loss (ml)	<input type="radio"/> <100 <input type="radio"/> 101-500 <input type="radio"/> 501-999 <input type="radio"/> >=1000
3.20	Please select a value that best describes the likely degree of peritoneal soiling	<input type="radio"/> None <input type="radio"/> Serous fluid <input type="radio"/> Localised pus <input type="radio"/> Free bowel content, pus or blood
3.21	What severity of malignancy is anticipated to be present?	<input type="radio"/> None <input type="radio"/> Primary only <input type="radio"/> Nodal metastases <input type="radio"/> Distant metastases
3.22	Please select urgency of surgical intervention <i>(see help notes for additional information, including equivalent Possum categories)</i> <i>Online web tool will automatically calculate Operative severity score</i>	<input type="radio"/> 3. Expedited (>18 hours) <input type="radio"/> 2B. Urgent (6-18 hours) <input type="radio"/> 2A. Urgent (2-6 hours) <input type="radio"/> 1. Immediate (<2 hours)
3.23	Pre-op P-POSSUM predicted mortality	Calculated <input type="text"/>
3.24	Pre-op POSSUM predicted morbidity	Calculated <input type="text"/>
3.25	Not all P-POSSUM investigations available	

4	Intra-op	
4.1	Date and time of entry in to operating theatre/anaesthetic room (not theatre suite)	Date _____ (DD/MM/YYYY) Time _____ (HH:MM) <input type="checkbox"/> Time not known
4.2	Senior surgeon grade	<input type="radio"/> Consultant <input type="radio"/> Post-CCT fellow <input type="radio"/> SAS grade <input type="radio"/> Research Fellow / Clinical Fellow <input type="radio"/> Specialty trainee / registrar <input type="radio"/> Core trainee / SHO

		<input type="radio"/> Other (Please select consultant) <input type="text"/>
4.2a	If consultant: Name/GMC of operating consultant	<input type="text"/>
4.3	Senior anaesthetist grade	<input type="radio"/> Consultant <input type="radio"/> Post-CCT fellow <input type="radio"/> SAS grade <input type="radio"/> Research Fellow / Clinical Fellow <input type="radio"/> Specialty trainee / registrar <input type="radio"/> Core trainee / SHO <input type="radio"/> Other
4.3a	If consultant: Name/GMC of anaesthetist	(Please select consultant) <input type="text"/>
4.4	How did you provide goal directed fluid therapy?	<input type="radio"/> Not provided <input type="radio"/> Cardiac output monitor <input type="radio"/> Other

5	Procedure	
5.1	Is this the first surgical procedure of this admission, or a Complication of previous surgery within the same admission?	<input type="radio"/> First surgical procedure after admission <input type="radio"/> Surgery for complication of 0 previous surgical procedure within the same admission
5.2	What is the indication for surgery? (Please select all that apply)	<input type="radio"/> Peritonitis <input type="radio"/> Perforation <input type="radio"/> Abdominal abscess <input type="radio"/> Anastomotic leak <input type="radio"/> Intestinal fistula <input type="radio"/> Phlegmon <input type="radio"/> Pneumoperitoneum <input type="radio"/> Necrosis <input type="radio"/> Sepsis <input type="radio"/> Small bowel obstruction <input type="radio"/> Large bowel obstruction <input type="radio"/> Volvulus <input type="radio"/> Internal hernia <input type="radio"/> Pseudo-obstruction <input type="radio"/> Intussusception <input type="radio"/> Incarcerated hernia <input type="radio"/> Haemorrhage <input type="radio"/> Ischaemia <input type="radio"/> Colitis <input type="radio"/> Abdominal wound dehiscence <input type="radio"/> Abdominal compartment syndrome <input type="radio"/> Acidosis <input type="radio"/> Iatrogenic injury <input type="radio"/> Foreign body <input type="radio"/> Planned relook

5.3.a	Main procedure	<input type="checkbox"/> Peptic ulcer – suture or repair of perforation <input type="checkbox"/> Peptic ulcer – oversee of bleed <input type="checkbox"/> Gastrectomy: partial or total <input type="checkbox"/> Gastric surgery - other <input type="checkbox"/> Small bowel resection <input type="checkbox"/> Resection of Meckel’s diverticulum <input type="checkbox"/> Colectomy: left (including sigmoid colectomy and anterior resection) <input type="checkbox"/> Colectomy: right (including ileocaecal resection) <input type="checkbox"/> Colectomy: subtotal or panproctocolectomy <input type="checkbox"/> Hartmann’s procedure <input type="checkbox"/> Colorectal resection - other <input type="checkbox"/> Abdominal wall closure <input type="checkbox"/> Abdominal wall reconstruction <input type="checkbox"/> Adhesiolysis <input type="checkbox"/> Reduction of volvulus <input type="checkbox"/> Enterotomy <input type="checkbox"/> Strictureplasty <input type="checkbox"/> Drainage of abscess/collection <input type="checkbox"/> Evacuation of haematoma <input type="checkbox"/> Debridement <input type="checkbox"/> Exploratory/relook laparotomy only <input type="checkbox"/> Haemostasis <input type="checkbox"/> Intestinal bypass <input type="checkbox"/> Laparostomy formation <input type="checkbox"/> Repair of intestinal perforation <input type="checkbox"/> Repair or revision of anastomosis <input type="checkbox"/> Repair of intestinal fistula <input type="checkbox"/> Resection of other intra-abdominal tumour(s) <input type="checkbox"/> Stoma formation <input type="checkbox"/> Stoma revision <input type="checkbox"/> Washout only <input type="checkbox"/> Removal of foreign body <input type="checkbox"/> Not amenable to surgery
5.3.b	Second procedure (at same laparotomy)	<input type="checkbox"/> Peptic ulcer – suture or repair of perforation
5.3.c	Third procedure (at same laparotomy)	<input type="checkbox"/> Peptic ulcer – oversee of bleed <input type="checkbox"/> Gastrectomy: partial or total <input type="checkbox"/> Gastric surgery - other <input type="checkbox"/> Small bowel resection
5.3.d	Fourth procedure (at same laparotomy)	<input type="checkbox"/> Resection of Meckel’s diverticulum <input type="checkbox"/> Colectomy: left (including sigmoid colectomy and anterior resection) <input type="checkbox"/> Colectomy: right (including ileocaecal resection) <input type="checkbox"/> Colectomy: subtotal or panproctocolectomy <input type="checkbox"/> Hartmann’s procedure <input type="checkbox"/> Colorectal resection – other <input type="checkbox"/> Splenectomy <input type="checkbox"/> Abdominal wall closure <input type="checkbox"/> Abdominal wall reconstruction <input type="checkbox"/> Abdominal hernia repair <input type="checkbox"/> Adhesiolysis <input type="checkbox"/> Reduction of volvulus

		<input type="checkbox"/> Enterotomy <input type="checkbox"/> Strictureplasty <input type="checkbox"/> Drainage of abscess/collection <input type="checkbox"/> Evacuation of haematoma <input type="checkbox"/> Debridement <input type="checkbox"/> Haemostasis <input type="checkbox"/> Intestinal bypass <input type="checkbox"/> Laparostomy formation <input type="checkbox"/> Repair of intestinal perforation <input type="checkbox"/> Repair or revision of anastomosis <input type="checkbox"/> Repair of intestinal fistula <input type="checkbox"/> Resection of other intra-abdominal tumour(s) <input type="checkbox"/> Stoma formation <input type="checkbox"/> Stoma revision <input type="checkbox"/> Removal of foreign body
5.4	Procedure approach	<input type="checkbox"/> Open <input type="checkbox"/> Laparoscopic <input type="checkbox"/> Laparoscopic assisted <input type="checkbox"/> Laparoscopic converted to open
5.5	Operative findings: (Please select all that apply) <i>If unsure whether this patient is eligible for NELA please refer to help box</i>	<input type="checkbox"/> Abscess <input type="checkbox"/> Anastomotic leak <input type="checkbox"/> Perforation – peptic ulcer <input type="checkbox"/> Perforation – small bowel/colonic <input type="checkbox"/> Diverticulitis <input type="checkbox"/> Intestinal fistula <input type="checkbox"/> Adhesions <input type="checkbox"/> Incarcerated hernia <input type="checkbox"/> Volvulus <input type="checkbox"/> Internal hernia <input type="checkbox"/> Intussusception <input type="checkbox"/> Stricture <input type="checkbox"/> Pseudo-obstruction <input type="checkbox"/> Gallstone ileus <input type="checkbox"/> Meckel’s diverticulum <input type="checkbox"/> Malignancy – localised <input type="checkbox"/> Malignancy – disseminated <input type="checkbox"/> Colorectal cancer <input type="checkbox"/> Gastric cancer <input type="checkbox"/> Haemorrhage – peptic ulcer <input type="checkbox"/> Haemorrhage – intestinal <input type="checkbox"/> Haemorrhage – postoperative <input type="checkbox"/> Ulcerative colitis <input type="checkbox"/> Other colitis <input type="checkbox"/> Crohn's disease <input type="checkbox"/> Abdominal compartment syndrome <input type="checkbox"/> Intestinal ischaemia <input type="checkbox"/> Necrotising fasciitis <input type="checkbox"/> Foreign body <input type="checkbox"/> Stoma complications <input type="checkbox"/> Abdominal wound dehiscence <input type="checkbox"/> Normal intra-abdominal findings
5.6	Please describe the peritoneal contamination present (select all that apply)	<input type="checkbox"/> None or reactive serous fluid only <input type="checkbox"/> Free gas from perforation +/- minimal contamination

		<input type="radio"/> Pus <input type="radio"/> Bile <input type="radio"/> Gastro-duodenal contents <input type="radio"/> Small bowel contents <input type="radio"/> Faeculent fluid <input type="radio"/> Faeces <input type="radio"/> Blood/haematoma
5.7	Please indicate if the contamination was;	<input type="radio"/> Localised to a single quadrant of the abdomen <input type="radio"/> More extensive / generalised

6	Post-op Risk stratification	
6.1	What risk of death was the patient documented as having?	<input type="radio"/> Lower (<5%) <input type="radio"/> High (5-10%) <input type="radio"/> Highest (>10%) <input type="radio"/> Not documented
6.2	How was this assessment of risk made? (Please select all that apply)	<input type="checkbox"/> Risk prediction tool (e.g. P-POSSUM) <input type="checkbox"/> Clinical Judgement <input type="checkbox"/> Surgical APGAR score <input type="checkbox"/> Physiological criteria <input type="checkbox"/> Other, e.g. hospital policy
6.3	Blood lactate – may be arterial or venous (mmol/l)	<input type="text"/> <input type="checkbox"/> Not performed
	Post-operative P-POSSUM calculation Please enter values closest to the end of surgery if available, otherwise pre-op figures will be used where appropriate (can be from ABGs or lab investigations). Answers should reflect chronic and acute pathophysiology.	
6.4	Serum Sodium concentration (mmol/l)	<input type="text"/>
6.5	Serum Potassium (mmol/l)	<input type="text"/>
6.6	Serum Urea (mmol/l)	<input type="text"/>
6.7	Haemoglobin concentration in g/dl	<input type="text"/>
6.8	White cell count (x10 ⁹ /l)	<input type="text"/>
6.9	Pulse rate (bpm)	<input type="text"/>
6.10	Systolic BP (mmHg)	<input type="text"/>
6.11	Glasgow coma score	<input type="text"/>
6.12	Describe ECG findings	<input type="radio"/> No abnormalities <input type="radio"/> AF rate 60-90 <input type="radio"/> 'AF rate >90/ any other abnormal rhythm/paced rhythm/ >5VE/min/ Q, ST or T wave abnormalities'
6.13	Describe Cardiac history / CXR appearance	<input type="radio"/> No failure <input type="radio"/> Diuretic, digoxin, antianginal, antihypertensive therapy <input type="radio"/> Peripheral oedema, warfarin Therapy or CXR: borderline cardiomegaly <input type="radio"/> Raised jugular venous pressure or CXR: cardiomegaly
6.14	Describe Respiratory history / CXR appearance	<input type="radio"/> No dyspnoea

	Physiology severity score:	<input type="radio"/> Dyspnoea on exertion or CXR:mild COAD <input type="radio"/> Dyspnoea limiting exertion to <1 Flight or CXR: moderate COAD <input type="radio"/> Dyspnoea at rest/rate >30 at rest or CXR: fibrosis or consolidation Calculated <input type="text"/>
6.15	What was the operative severity? (see help box for examples)	<input type="radio"/> Major <input type="radio"/> Major+
6.16	Including this operation, how many operations has the patient had in the 30 day period prior to this procedure?	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> >2
6.17	Please select this patient's measured intraoperative blood loss (ml)	<input type="radio"/> <100 <input type="radio"/> 101-500 <input type="radio"/> 501-1000 <input type="radio"/> >1000
6.18	Please select the option that best describes this patient's degree of peritoneal soiling	<input type="radio"/> None <input type="radio"/> Serious fluid <input type="radio"/> Local pus <input type="radio"/> Free bowel content, pus or blood
6.19	What was the level of malignancy based on surgical findings	<input type="radio"/> None <input type="radio"/> Primary only <input type="radio"/> Nodal metastases <input type="radio"/> Distant metastases
6.20	What is the NCEPOD urgency? <i>(see help notes for additional information, including equivalent Possum categories)</i> <i>Online web tool will automatically calculate Operative severity score</i>	<input type="radio"/> 3. Expedited (>18 hours) <input type="radio"/> 2B. Urgent (6-18 hours) <input type="radio"/> 2A. Urgent (2-6 hours) <input type="radio"/> 1. Immediate (<2 hours)
6.21	Post-op P-POSSUM predicted mortality :	Calculated <input type="text"/>
6.22	Post-op POSSUM predicted morbidity :	Calculated <input type="text"/>
6.23	Not all P-POSSUM investigations available	<input type="radio"/>
6.24	Where did the patient go for continued post-operative care following surgery?	<input type="radio"/> Ward <input type="radio"/> Level 2 HDU <input type="radio"/> Level 3 ICU <input type="radio"/> Died prior to discharge from theatre complex
6.24a	At the end of surgery, was the decision made to place the patient on an end of life pathway?	<input type="radio"/> Yes <input type="radio"/> No
6.25	Is the patient on a vasopressor/ inotrope?	<input type="radio"/> No <input type="radio"/> Yes

7	Post-op	
7.1	Total length of post-operative ITU stay (days) <i>see help box for additional information'</i>	<input type="text"/> Number required
7.2	Total length of post-operative HDU stay (days) <i>see help box for additional information</i>	<input type="text"/> Number required
7.3	Was the patient assessed by a specialist from Elderly Medicine in the post-operative period?	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
7.4	Within this admission, did the patient return to theatre in	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown

	the post-operative period following their initial emergency laparotomy?	
7.5	Did the patient have an unplanned move from the ward to a higher level of care within 7 days of surgery? (do not include moves from HDU to ITU)	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
7.6	Histology	<input type="radio"/> Crohn's disease <input type="radio"/> Diverticulitis <input type="radio"/> Ischaemia <input type="radio"/> Malignancy <input type="radio"/> Peptic ulcer disease <input type="radio"/> Ulcerative colitis <input type="radio"/> Not applicable/Not available at time of discharge <input type="radio"/> Other
7.7	Status at discharge	<input type="radio"/> Dead <input type="radio"/> Alive <input type="radio"/> Still in hospital at 60 days
7.8	Date discharged from hospital	(DD/MM/YYYY) <input type="text"/> Date required