

# SEPSIS STUDY

## National Confidential Enquiry into Patient Outcome and Death (NCEPOD) Advisor Assessment Form (AAF)

NCEPOD questionnaire number

### INSTRUCTIONS FOR COMPLETION

Please complete all questions with either block capitals or a bold cross inside the boxes provided. If you make a mistake, please "black-out" the box and re-enter the correct information. Unless indicated, please mark only one box per question.

For the purposes of the study, sepsis is defined according to the surviving sepsis guidelines.....severe sepsis is defined as.....sepsis syndrome is.....

## A. PATIENT DETAILS

1. Age at time of admission	<input type="text"/> <input type="text"/> <input type="text"/> years
2. Gender	<input type="checkbox"/> Male <input type="checkbox"/> Female
3. Weight	<input type="text"/> <input type="text"/> <input type="text"/> kg OR <input type="text"/> <input type="text"/> st <input type="text"/> <input type="text"/> lb <input type="checkbox"/> Not recorded
4. Height	<input type="text"/> <input type="text"/> <input type="text"/> cm OR <input type="checkbox"/> ft <input type="text"/> <input type="text"/> in <input type="checkbox"/> Not recorded
5. BMI	<input type="text"/> <input type="text"/> <input type="checkbox"/> Not recorded

6. Mode of admission to hospital	<input type="checkbox"/> Admission via Emergency department- via ambulance/HEMS	<input type="checkbox"/> Admission via Emergency Department- GP referral
<input type="checkbox"/> Transfer as inpatient from other hospital	<input type="checkbox"/> Admission via Emergency Department: referred from out of hours /111/ telephone referral	<input type="checkbox"/> Admission via Emergency Department- Self presented to A&E
<input type="checkbox"/> Unable to answer	<input type="checkbox"/> GP referral direct to ward	<input type="checkbox"/> Admitted from outpatient appointment
<input type="checkbox"/> Other (please state)	<input type="text"/>	

7a. If a transfer and in patient from another hospital, please answer questions 7-9:

b. Was the transfer documentation/referral letter included in the case notes?  Yes  No

c. If YES, in your opinion, did it contain all necessary information?  Yes  No

d. If NO, what was missing?

8. Was the patient documented as having "sepsis" in transfer documentation/referral letter?  Yes  No  N/A - no evidence to suggest patient had sepsis on transfer

9a. In your opinion was the transfer delayed?  Yes  No

b. If YES, what reason (s)? (please mark all that apply)

<input type="checkbox"/> Transport	<input type="checkbox"/> Lack of weekend/out of hours cover	<input type="checkbox"/> Bed availability in receiving hospital	<input type="checkbox"/> Delayed referral- delayed diagnosis in referring hospital
<input type="checkbox"/> Staff shortage			
<input type="checkbox"/> Other (please state) <input type="text"/>			

c. If YES, in your opinion did it affect the outcome?  Yes  No  Insufficient data

10. What type of admission was this?  Elective  Emergency

11. In your opinion, did this patient have:

<input type="checkbox"/> A- evidence of infection on admission to hospital	<input type="checkbox"/> B- Evidence of sepsis on admission to hospital	<input type="checkbox"/> C- No evidence of infection or sepsis on admission to hospital
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If answered A or B, please continue to Q12,  
 If answered C, in your opinion, did any of the pre-hospital /ED care of this  Yes  No  
 patient contribute to the development of infection / sepsis in this case?  
 If YES, please continue to question 12, if NO, please proceed to question 27

**B. PRE- HOSPITAL ADMISSION**

12. PRIOR TO HOSPITAL ADMISSION, please state if there was evidence of the following (i-ix), for PART A, as documented in the notes (using the specified term in each case), and for PART B, in your opinion based on signs/symptoms displayed by the patient. If available, please also state for each, the date first occurred.

**A) As documented in the notes**      **B) In your opinion**

d d m m y y y y NR

d d m m y y y y NR

- i) Infection       Yes  No            Yes  No
- ii) Sepsis       Yes  No            Yes  No
- iii) Severe sepsis       Yes  No            Yes  No
- iv) Septic shock       Yes  No            Yes  No

13. Prior to hospital admission, please indicate in part (a) if the following healthcare professionals assessed the patient (relating to the current episode) and note your opinion on the following questions (b-d) around the diagnosis:

NA- Not assessed in primary care       Not recorded

a. Assessed by: <small>Answers may be multiple</small>	b. Was the diagnosis of sepsis missed?	c. Did the healthcare professional underestimate the severity of the condition?	d. Was there a missed opportunity to refer the patient earlier?
<input type="checkbox"/> General Practitioner?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer
<input type="checkbox"/> Out of hours GP/Urgent care service?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer
<input type="checkbox"/> 111 service/ telephone consultation?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer
<input type="checkbox"/> Paramedic/ ECA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer
<input type="checkbox"/> Other primary care clinician? <small>(please state):</small> <input type="text"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to answer

14a. If YES to any of the questions for 13b, c, d, in your  Yes  No  Not recorded  
 opinion, did this affect the outcome?

b. If YES please expand on your answer:

15. Time and date of most recent visit to GP:  Not applicable - no visit documented (proceed directly to Q18)

Date      Not recorded      Time      Not recorded  
 d d m m y y      h h m m 24 hour clock

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**16a.** Was a pre alert sent to the admitting hospital?  Yes  No  Not recorded

**b.** If YES, in what form was this: (please select all that apply)  GP letter  GP telephone call  Other (please state)

**17a.** Is the GP referral letter included in the notes?  Yes  No  Not applicable

**b.** If YES, in your opinion, does it include all relevant information?  Yes  No  Unknown

**c.** If NO, what is missing? (please select all that apply)

Other (please state)  Date of consultation  Time of consultation  Sufficiently detailed past medical history  Sufficiently detailed history of current complaint

Details of medications  Details of allergies  Details of treatment etc.

**18a.** Are there any records of pre-hospital vital signs?  Yes  No  Unknown

**b.** If YES, please state which healthcare professionals assessed pre-hospital vital signs and for each, state what was included, the date/time taken and the results

	i) General Practitioner				ii) Practice nurse				iii) Paramedic				iv) Other primary care practitioner (please state):				v) Appropriate?														
	d	d	m	m	y	y	NR	d	d	m	m	y	y	NR	d	d	m	m	y	y	NR	d	d	m	m	y	y	NR	Y	N	ID
	Result						NR	Result						NR	Result						NR	Result						NR	Y	N	ID
Temperature (C)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blood pressure	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heart rate	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory rate	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AVPU scale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change in mental status noted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blood Glucose	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**19a.** Had any treatment been commenced prior to arrival in the hospital?  Yes  No  Unknown  Not applicable

**b.** If YES, please mark all included and who administered treatment?   
 Answers may be multiple

	i) General Practitioner			ii) Practice nurse			iii) Paramedic			iv) Other primary care practitioner (please state):			v) Appropriate?		
	Y	N	ID	Y	N	ID	Y	N	ID	Y	N	ID	Y	N	ID
Fluids	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antimicrobials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please state)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**c.** If NO to any of part v, please expand on your answer below:

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- In your opinion is there any room for improvement regarding the patient's management prior to admission to the hospital?  Yes  No  Unknown
- 20a.** If YES, please state which area:  General Practitioner  Practice nurse  Paramedic  Other primary care practitioner
- Other (please state):
- c.** If YES, please expand on your answer, stating what could have been improved:
- 
- d.** If YES to part A, in your opinion did this affect the outcome?  Yes  No  Unknown

**C. TRIAGE / FIRST ASSESSMENT IN HOSPITAL**

- 21.** Was the patient admitted to hospital via the emergency department (ED)?  Yes  No  Unknown
- 22.** If NO, please proceed directly to Q27, If YES, ON ASSESSMENT IN THE EMERGENCY DEPARTMENT, please state if there was evidence of the following (i-ix), for PART A, as documented in the notes (using the specified term in each case), and for PART B, in your opinion based on signs/symptoms displayed by the patient. If available, please also state for each, the date first occurred.

	A) As documented in the notes	B) In your opinion	
	d d m m yyyy NR		d d m m yyyy NR
<b>i) Infection</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
<b>ii) Sepsis</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
<b>iii) Severe sepsis</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
<b>iv) Septic shock</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	

**23.** Please answer both parts to Q21, part A concerning TRIAGE assessment in the ED and part B concerning the the first assessment after triage by a senior clinician (ST3+) in the Emergency Department

23.	a. TRIAGE in ED	b. First assessment by senior clinician in ED after TRIAGE
<b>i.</b> Was there a delay in the patient being assessed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Insufficient data	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> insufficient data
<b>ii.</b> What was the reason for the delay?	<input style="width: 100%; height: 40px;" type="text"/> <input type="checkbox"/> Insufficient data	<input style="width: 100%; height: 40px;" type="text"/> <input type="checkbox"/> Insufficient data
<b>iv.</b> What was the grade of the clinician (nurse/doctor) that assessed the patient and was it appropriate?	<input style="width: 60%; height: 20px;" type="text"/> <input type="checkbox"/> NR <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Insufficient data	<input style="width: 60%; height: 20px;" type="text"/> <input type="checkbox"/> NR <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Insufficient data
<b>v.</b> Which of the following were taken at triage and/or during the first assessment on the ward and what were the results)	<input type="checkbox"/> Temperature (C) <input style="width: 40px; height: 20px;" type="text"/> <input type="checkbox"/> Blood pressure <input style="width: 40px; height: 20px;" type="text"/> / <input style="width: 40px; height: 20px;" type="text"/> <input type="checkbox"/> Heart rate <input style="width: 40px; height: 20px;" type="text"/> <input type="checkbox"/> Respiratory rate <input style="width: 40px; height: 20px;" type="text"/> <input type="checkbox"/> Glasgow coma score/ AVPU scale <input style="width: 40px; height: 20px;" type="text"/> / <input style="width: 20px; height: 20px;" type="text"/> <input type="checkbox"/> Change in mental status noted <input type="checkbox"/> Blood glucose <input style="width: 40px; height: 20px;" type="text"/>	<input type="checkbox"/> Temperature (C) <input style="width: 40px; height: 20px;" type="text"/> <input type="checkbox"/> Blood pressure <input style="width: 40px; height: 20px;" type="text"/> / <input style="width: 40px; height: 20px;" type="text"/> <input type="checkbox"/> Heart rate <input style="width: 40px; height: 20px;" type="text"/> <input type="checkbox"/> Respiratory rate <input style="width: 40px; height: 20px;" type="text"/> <input type="checkbox"/> Glasgow coma score/ AVPU scale <input style="width: 40px; height: 20px;" type="text"/> / <input style="width: 20px; height: 20px;" type="text"/> <input type="checkbox"/> Change in mental status noted <input type="checkbox"/> Blood glucose <input style="width: 40px; height: 20px;" type="text"/>

...continued

	a. TRIAGE in ED	b. First assessment in ED (after triage)
23.		
x.	Was the likely source of infection documented? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Insufficient data	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Insufficient data
xi.	If NO, in your opinion, should it have been noted at this time point? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Insufficient data	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Insufficient data
24a.	In relation to this episode of sepsis, is there any evidence that the patient previously presented to:	
	i. This hospital ED	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> ID
	ii. Another hospital ED	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> ID
b.	If YES to part 'i' or 'ii', is there evidence that the diagnosis of sepsis was missed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> ID
25.	Was there room for improvement in the following aspects of the initial assessment?	
a.	Recording of past medical history	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> ID
b.	Investigations requested	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> ID
c.	Treatment plan <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	If YES, what is missing? <input type="checkbox"/> Oxygen <input type="checkbox"/> Fluids <input type="checkbox"/> Anti-microbials
	Other (please state) <input style="width: 100%; border: 1px solid black;" type="text"/>	
d.	Monitoring plan <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	If YES, what is missing? <input type="checkbox"/> Urine output <input type="checkbox"/> EWS
	Other (please state) <input style="width: 100%; border: 1px solid black;" type="text"/>	
26.		

As part of the initial assessment, please state which investigations were present/ incomplete/missing/ delayed?

Vital signs	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
Blood cultures	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
Other tissue/fluid cultures	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
Full blood count	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
U&E	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
Blood gases	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
Amylase	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
Glucose	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
LFTs	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
Lactate	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
Coagulation screen	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
CT scan	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
Chest X ray	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID
Other (please state):	<input type="checkbox"/> Present	<input type="checkbox"/> Missing	<input type="checkbox"/> Incomplete	<input type="checkbox"/> Delayed	<input type="checkbox"/> ID

## D. ADMISSION

27. On first admission to the ward, please state if there was evidence of the following (i-ix), for PART A, as documented in the notes (using the specified term in each case), and for PART B, in your opinion based on signs/symptoms displayed by the patient. If available, please also state for each, the date first occurred.

		A) As documented in the notes				B) In your opinion			
		d d m m yyyy NR				d d m m yyyy NR			
i) Infection	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ii) Sepsis	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iii) Severe sepsis	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iv) Septic shock	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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35. In your opinion, was the source of infection that led to this episode of sepsis:(answers may be multiple)
- |  |  |
|--|--|
| <input type="checkbox"/> Directly related to the procedure: eg wound site infection  | <input type="checkbox"/> Ventilator acquired pneumonia |
| <input type="checkbox"/> Related to the peri/post-operative care of the patient at the time of the procedure   | <input type="checkbox"/> Infected pressure sores       |
| <input type="checkbox"/> Intra-vascular device <input type="checkbox"/> Catheter   |  |
| <input type="checkbox"/> Cannula <input type="checkbox"/> Graft/mesh   | <input type="checkbox"/> Insufficient Data             |
| <input type="checkbox"/> Other hospital acquired infection (please state): <input style="width: 500px; height: 20px; border: 1px solid black;" type="text"/> |  |

36a. In your opinion, was the infection preventable?  Yes  No  Insufficient data

b. If YES, please expand on your answer

37. When was the infection first recorded in the case-notes?

Date     NR Time    NR

38. In the 24 hours prior to sepsis being diagnosed, what was the frequency of monitoring?

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Hourly (or more frequently) | <input type="checkbox"/> Every >1- <2 hours  | <input type="checkbox"/> Every 2 - <4 hours                |
| <input type="checkbox"/> Every 4 - <6hours           | <input type="checkbox"/> Every 6 - <12 hours | <input type="checkbox"/> Every 12 hours or less frequently |

39. In the 24 hours prior to sepsis being diagnosed, was the patient monitored on a track and trigger tool or EWS?  Yes  No  NR

40. In your opinion, was the frequency of monitoring adequate?  Yes  No  ID

41. In your opinion, could the initial infection that led to the episode of sepsis have been:
- a. Identified sooner?  Yes  No  ID
  - b. Treated sooner?  Yes  No  ID
  - c. Treated more appropriately?  Yes  No  ID

## F. FIRST IDENTIFICATION OF SEPSIS

42. Please state the time and date when the patient was first documented in the case notes (using the exact terms specified) as having sepsis, severe sepsis, septic shock (as applicable) and in your opinion, the first time the patient showed signs of being positive for sepsis, severe sepsis and septic shock:

### A) As documented in the notes

Time: h h m m NR Date d d m m yyyy NR N/A

### B) In your opinion

Time: h h m m NR Date d d m m yyyy NR N/A

	A) As documented in the notes						B) In your opinion																				
	h	h	m	m	NR	Date	d	d	m	m	yyyy	NR	N/A	h	h	m	m	NR	Date	d	d	m	m	yyyy	NR	N/A	
i) Sepsis	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input type="checkbox"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input type="checkbox"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
ii) Severe sepsis	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input type="checkbox"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input type="checkbox"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
iii) Septic shock	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input type="checkbox"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input type="checkbox"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

43. At the time the patient first had sepsis, are there any records of the patient's vital signs?  Yes  No  ID

If YES, time/ date taken

24 hr clock      NR      NR

h h m m d d m m y y

44. If YES, what was included and what were the results?
- |   |   |                                       |
|---|---|---------------------------------------|
| <input type="checkbox"/> Temperature (C)    | <input style="width: 50px;" type="text"/>   | <input type="checkbox"/> Not recorded |
| <input type="checkbox"/> Blood pressure     | <input style="width: 50px;" type="text"/> / <input style="width: 50px;" type="text"/> | <input type="checkbox"/> Not recorded |
| <input type="checkbox"/> Heart rate         | <input style="width: 50px;" type="text"/>   | <input type="checkbox"/> Not recorded |
| <input type="checkbox"/> Respiratory rate   | <input style="width: 50px;" type="text"/>   | <input type="checkbox"/> Not recorded |
| <input type="checkbox"/> Glasgow Coma Score | <input style="width: 50px;" type="text"/>   | <input type="checkbox"/> Not recorded |

45. Was the diagnosis of sepsis made using?  Sepsis screening tool  Other Track & Trigger tool (please state)  National Early Warning Score (NEWS)  None of the above (clinical signs only)

46a. In your opinion, was there a delay in identifying: Sepsis? Severe sepsis? Septic Shock? b. If YES, please estimate how long (to nearest 30 minutes): c. If YES, Was this due to: d. If YES to part A, in your opinion, did this affect the outcome?

If YES, please give details:

e. If a diagnosis of SEVERE sepsis was never recorded, was this because a diagnosis of SEVERE sepsis was missed?

47a. Were blood cultures taken at the time sepsis was first diagnosed? b. If YES, was there a delay in obtaining cultures? c. Were other body fluid/tissue cultures taken? d. If YES, was there a delay in obtaining other body fluid/tissue cultures? e. If YES to b or d, please explain why:

48a. At the time sepsis was diagnosed, were blood gases taken? b. If NO, how long after diagnosis were they first taken? c. What were the results of the blood gases first taken at diagnosis of sepsis? pH PaO2 HCO3 PaCO2 FiO2 Base Excess SaO2

49. At the time sepsis was diagnosed, which of the following investigations carried out?  FBC  U&E  LFTs  Amylase  CRP  CT scan  Lactate  eGFR  Chest X Ray  Lipase  Ultrasound  Coagulation screening  Urine analysis: MSU/CSU



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**50a.** Were any investigations relating to the identification of sepsis (or its severity) not performed that should have been at this time?  Yes  No  Insufficient data

**b.** Were any investigations relating to the identification of sepsis (or its severity) delayed?  Yes  No  Insufficient data

**c.** If YES to a or b, please give details of which investigations were delayed/not performed

**51.** At the time sepsis was diagnosed, was the source of sepsis identified within an appropriate timeframe  Yes  No  ID  N/A-source not identified

**52a.** Was there a delay in any of the investigations to identify the source of sepsis?  Yes  No  ID  N/A- no investigations performed

**b.** Were any of the investigations to identify the source of sepsis not performed that should have been?  Yes  No  ID

**c.** If YES, to a or b please give details of which investigations were delayed/ not performed

**53.** At the time sepsis was diagnosed, is it documented that the patient had any of the following:

- Poor urine output  hyperbilirubinaemia  Ileus  Mottling  Reduced capillary refill

**54.** In your opinion, was the documentation of the diagnosis of sepsis:  Good  Adequate  Poor

Insufficient data to make judgement

### G. EARLY CLINICAL MANAGEMENT OF SEPSIS

**55.** Immediately following diagnosis of sepsis, which team oversaw the early clinical management of this patient?

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Acute medicine/<br>general medicine | <input type="checkbox"/> General surgical             | <input type="checkbox"/> Emergency<br>medicine | <input type="checkbox"/> Critical care (Level 2-<br>HDU etc.) |
| <input type="checkbox"/> Other specialist<br>medical team    | <input type="checkbox"/> Other specialist<br>surgical | <input type="checkbox"/> Sepsis team           | <input type="checkbox"/> Critical care (Level 3-<br>ICU etc.) |

Other (Please state):   Critical care outreach

**56.** Following diagnosis of sepsis, given the patient's condition at this time:

- a) Was the patient reviewed by a doctor within an appropriate timeframe?  Yes  No  Unable to answer-time not documented
- b) Was the patient reviewed by an ST3 or above within an appropriate timeframe?  Yes  No  Unable to answer-time not documented
- c) Was the patient reviewed by a consultant within an appropriate timeframe?  Yes  No  Unable to answer-time not documented

**57.** Did the diagnosis of sepsis initiate the patient being started on a sepsis care bundle/care pathway?  Yes  No  NR  N/A- already on a bundle

**58a.** In your opinion, following diagnosis of sepsis, was there timely escalation/ commencement of treatment?  Yes  No  Insufficient data

**b.** If NO to 58a, did the patient deteriorate whilst awaiting treatment?  Yes  No  Insufficient data

**c.** If YES, please give details

**d.** If YES to 58a, in your opinion did this impact on the outcome?  Yes  No  Insufficient data

**e.** If YES to 58d, please give details



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**59a.** Please state below if the patient required and promptly received fluid resuscitation and oxygen:

Oxygen  Promptly received  Received- delayed  Not received  NR

Fluid resuscitation  Promptly received  Received- delayed  Not received  NR

**b.** If not received, please explain:

**c.** If there was a delay in fluid resuscitation, how long was the delay?      Not recorded

h h m m

**60.** Was an accurate fluid balance chart maintained?  Yes  No  Insufficient data

**61a.** Was there any room for improvement in the fluid management of this patient?  Yes  No  Insufficient data

**b.** If YES, was this due to:  Delay in commencing fluid resuscitation  Blood products  Type of fluid administered

Documentation of fluid balance  Delay in commencing vasopressors  Monitoring frequency/type

Other (please state):

**c.** If YES to 61a, in your opinion, was the outcome affected?  Yes  No  Insufficient data

**d.** If YES, Please expand on your answer:

**62.** Was there a pathogen identified as the cause of sepsis in this patient?  Yes  No  Not recorded

**63.** How long after first diagnosis of sepsis was the first dose of antimicrobial administered?

≤ 30 minutes  >30- ≤ 1 hour  >1 hour - ≤2 hours  >2 hours- ≤4 hours

>4- ≤ 6 hours  >6 hours- ≤12 hours  >12 hours  Time administered not documented

N/A- Already had received first dose of antimicrobials when first diagnosed with sepsis in hospital

**64a.** In your opinion as there an avoidable delay?  Yes  No  Insufficient data

**b.** If YES, what caused the delay?  Communication between teams eg. at handover  Waiting for source confirmation  Waiting for microbiology review

Other (please state)  Pharmacy delay  Lack of escalation  Delay in prescribing

**65a.** In your opinion, could this delay have affected the outcome?  Yes  No  Unknown

**b.** If YES, please expand on your answer:

**66.** How was the antimicrobial chosen?  Administered broad spectrum antimicrobial  According to local Trust policy  Rationale not documented

*multiple answers*

Other (please state)  Previous culture results  based on the site of infection

**67a.** In your opinion, was an appropriate antimicrobial prescribed?  Yes  No  Unknown

**b.** If YES, in your opinion, was the correct dose regimen prescribed?  Yes  No  Unknown

68. Was there any consultation with infectious diseases specialist/ microbiologist?  Yes  No  Not recorded

69a. Was there regular review of the patient's antimicrobial therapy?  Yes  No  Not recorded

b. If YES, by whom?:  Microbiologist/infectious diseases specialist  Other (please state):

c. Is there evidence that sufficient consideration was given to: i) Escalation  Yes  No  Insufficient data  
ii) De-escalation  Yes  No  Insufficient data  
iii) Treatment duration  Yes  No  Insufficient data

70a. Was the source of sepsis identified in this patient?  Yes  No  Insufficient data

b. If NO, could more have been done to identify the source of sepsis?  Yes  No  Insufficient data

71a. Was the source amenable to immediate source control?  Yes  No  Insufficient data

b. If YES, what procedure was undertaken to control the source of sepsis?

c. If YES to 71a, when did the procedure to control the source take place?

Date <sup>d</sup><sup>d</sup> <sup>m</sup><sup>m</sup> <sup>y</sup><sup>y</sup>  NR Time <sup>h</sup><sup>h</sup> <sup>m</sup><sup>m</sup>  NR

72a. Was there a delay in controlling the source of infection?  Yes  No  Unknown

b. If YES, was it due to:  Clinical reasons that necessitated a delay  Lack of available nursing staff  Out of hours/ weekend

Other (please state)  Delay in investigations  Lack of beds  Delay in identifying source  Lack of specialist

c. In your opinion, could this have affected the outcome?  Yes  No  Unknown

d. If YES please expand on your answer

73a. Is there evidence in the case notes that there was discussion between the clinican(s) managing the care of this patient and the patient/their relatives  Yes  No  Not applicable

b. If YES, did it include discussion of the following (please complete as appropriate):

	Patient			Relatives		
i) Diagnosis of sepsis?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
ii) Its likely cause?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
iii) regularly updated treatment plan?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
iv) Possible outcome (including risk of poor outcome)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
v) Rehabilitaion plan	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
vi) Other (please state):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

74a. Was the entire patient's episode of sepsis managed on a general ward (Level 0/1)?  Yes  No

b. If YES, were there regular reviews by:  Critical care consultant  Critical care outreach  Other (please state):   Microbiology

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- 75a.** Was the patient given ionotropes/ vasopressors on the general ward?  Yes  No  Unknown  N/A- not managed on general ward
- b.** If YES to part A, was there sufficient monitoring to support this?  Yes  No  Unknown
- c.** If YES to part A, was the administration of ionotropes/ vasopressors timely?  Yes  No  Unknown
- d.** If YES to part A, was this a holding measure until a critical care bed became available?  Yes  No  Unknown
- e.** If YES to part A, do you consider this to be appropriate?  Yes  No  Unknown
- 76a.** In your opinion was management on the ward appropriate?  Yes  No  Unknown
- b.** If NO please expand on your answer

- 77a.** At any time during the admission, was the resuscitation status of the patient recorded?  Yes  No  Unknown
- b.** If NO, in your opinion, should it have been recorded?  Yes  No  Unknown
- c.** If YES to part A, what was the cardiopulmonary resuscitation status of the patient?
- For cardio pulmonary resuscitation
  - Do not attempt cardio pulmonary resuscitation

- 78a.** Overall, in your opinion, was there room for improvement in the initial management of this patient?  Yes  No  Not recorded
- b.** If YES, given your knowledge of the case, please state in which areas were there deficiencies in care and whether you think the deficiency could have affected the outcome(please mark all that apply):

- i) Delay in diagnosis of infection  Yes  No Outcome could have been affected  Yes  No  Unknown
- ii) Delay in diagnosis of sepsis  Yes  No Outcome could have been affected  Yes  No  Unknown
- iii) Failure to adhere to standard sepsis care pathway (eg sepsis 6)  Yes  No Outcome could have been affected  Yes  No  Unknown
- iv) Failure to deal with source of infection within an appropriate timespan  Yes  No Outcome could have been affected  Yes  No  Unknown
- v) Inadequacies in monitoring  Yes  No Outcome could have been affected  Yes  No  Unknown
- vi) Inadequacies in review  Yes  No Outcome could have been affected  Yes  No  Unknown
- vii) Communication with patient/ relative  Yes  No Outcome could have been affected  Yes  No  Unknown
- viii) Documentation  Yes  No Outcome could have been affected  Yes  No  Unknown
- ix) Other (please state):  Yes  No Outcome could have been affected  Yes  No  Unknown

## H. ESCALATION/ CRITICAL CARE MANAGEMENT

- 79a.** Was the patient referred to the critical care outreach service (CCOT- or equivalent)  Yes  No  Not recorded
- b.** If NO, was this because  No CCOT at this hospital  Not required  
 Other (please state):  Insufficient data  CCOT not available out of hours at this hospital
- c.** If YES to part A , what triggered referral/call to the outreach service (or equivalent)?  Direct referral by clinician(s) on ward  
 Direct referral by nursing staff on ward  
 Peri-arrest/cardiac arrest  Manual EWS calculation  
 Other (please state):  Not recorded  Automatic call to CCOT due to EWS trigger
- d.** If YES to 79a, was this a timely referral?  Yes  No  ID  Not applicable  
 If NO, what caused the delay?  CCOT not available out of hours  Insufficient monitoring of observations  
 Insufficient frequency of clinician review  Insufficient seniority of review  Inaccurate calculation of EWS  
 Other (please state):  Insufficient data to answer
- e.** Once the call had been made, did the CCOT (or equivalent) arrive promptly?  Yes  No  Not recorded
- 80.** Prior to referral, was there any input from the CCOT or equivalent?  Yes  No  Not recorded
- 81.** Please state time and date of first review by CCOT or equivalent:  
 Date        NR Time    Not applicable  NR
- 82a.** Was the patient referred directly to Critical Care (Level 2/3)?  Yes  No  NR
- b.** If YES, was there a timely response form Critical Care?  Yes  No  ID
- 83.** What was the outcome of the Critical Care referral?  Continued management on the general ward- no change  
 Transferred to ICU/ Level 3 care  Continued management on the general ward with advice given by critical care  
 Transferred to HDU/ Level 2 care  Other (please state)
- 84a.** If the patient was not admitted to critical care, in your opinion was this the correct decision?  Yes  No  ID
- b.** If NO, please expand on your answer?

**If this patient was just treated on the ward (Level 0/1) and never admitted to Critical Care please proceed directly to Qx. If the patient was admitted to critical care (Level 2/3) please continue to Q84**

**85. ON ADMISSION TO CRITICAL CARE, please state if there was evidence of the following (i-ix), for PART A, as documented in the notes (using the specified term in each case), and for PART B, in your opinion based on signs/symptoms displayed by the patient. If available, please also state for each, the date first occurred.**

	A) As documented in the notes				B) In your opinion							
	Yes	No	dd	mm	yyyy	NR	Yes	No	dd	mm	yyyy	NR
<b>i) Infection</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ii) Sepsis</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>iii) Severe sepsis</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>iv) Septic shock</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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**86.** On HDU/ICU please state which of the systems needed support and if they received treatment, and whether in your opinion, it was timely?

- Cardiovascular system     Inotropes/ vasopressors given      Yes     No     N/A    Timely     Yes     No     N/A
- Respiratory system     Invasive ventilation/ CPAP      Yes     No     N/A    Timely     Yes     No     N/A
- Renal System     RRT/ Filtration      Yes     No     N/A    Timely     Yes     No     N/A

**87a.** On HDU/ICU please state which invasive monitoring was employed?     Saturations

- Cardiac output monitoring     Arterial line     Central venous catheter     CVP measurement
- Other (please state)

- b.** In your opinion was the monitoring adequate?     Yes     No     ID
- c.** If NO, what was not employed that should have been?

**88.** If the patient required invasive ventilatory support, were tidal volumes and median inspiratory pressures maintained within adequate limits? (5-7mL/Kg and 30mmHg)     Yes     No     NR     N/A

**89.** Was there regular review by microbiology in Critical Care?     Yes     No     NR

**90a.** Was there any room for improvement in the critical care management of this patient?     Yes     No     ID

- b.** If YES, in which areas?     Monitoring     Treatment     Communication between healthcare professionals     Review
- Other (please state)     Management of complications of sepsis     Communication with the patient/their relatives     Documentation

## I. END OF LIFE CARE

**91a.** Was treatment withdrawn at any time during this admission?     Yes     No     NR

**b.** If YES, in your opinion, was this decision appropriate?     Yes     No     ID

**c.** Was the decision to withdraw treatment:

- i) Made with reference to clinicians of appropriate seniority?     Yes     No     ID
- ii) Made by more than one clinician?     Yes     No     NR
- iii) Discussed with the patient?     Yes     No     NR     N/A
- iv) Discussed with the patient's relatives?     Yes     No     NR     N/A
- v) Discussed with the patient advocate?     Yes     No     NR     N/A

**92a.** Was the patient transferred to an End of Life care pathway for terminal care?     Yes     No     NR

**b.** If YES, in your opinion, was this decision appropriate?     Yes     No     ID

**c.** Was the decision:

- i) Made with reference to clinicians of appropriate seniority?     Yes     No     ID
- ii) Made by more than one clinician?     Yes     No     NR     N/A
- iii) Discussed with the patient?     Yes     No     NR     N/A
- iv) Discussed with the patient's relatives?     Yes     No     NR     N/A
- v) Discussed with the patient advocate?     Yes     No     NR     N/A

**93a.** If NO to Q91b or 92b, please expand on your answer:   

**94a.** Was there input from the palliative care team?     Yes     No     N/A

**b.** If NO, in your opinion, should there have been?     Yes     No



- 100a. Did the patient have any complications of sepsis at discharge\*?  Yes  No  NR
- b. If YES, please list:  Amputation(s) (please state site)   Chronic pain
- Other (please state)  Post sepsis syndrome (see definitions)  Worsened physical function  Worsened cognitive state  Post traumatic stress disorder

101. What was the functional status at discharge\* (see definitions)?  No disability  Slight disability  Slight - moderate disability  Moderate disability  Moderate - severe disability  Severe disability

- 102a. Was the patient re-admitted to hospital?  Yes  No  Not recorded
- b. If YES, what was the reason?  Re-infection  New infection  Complications of this episode of sepsis
- Other (please state)

If the patient died, please complete Q103-104, if the patient was discharged alive (or still alive 30 days post diagnosis as an inpatient) please proceed directly to Q105:

103. Was a post mortem performed?  Yes  No  Not recorded
- 104a. Was sepsis noted on the death certificate as contributing to death?  Yes  No  Not recorded
- b. If NO, in your opinion should it have been?  Yes  No  Unknown

### L. OVERALL QUALITY OF CARE

- 105a. Please rate the overall quality of care for this case (please select only one category)
- Good Practice- A standard of care you would expect from yourself, your trainees, and your institution
  - Room for improvement in CLINICAL aspects of care
  - Room for improvement in ORGANISATIONAL aspects of care
  - Room for improvement in BOTH CLINICAL AND ORGANISATIONAL aspects of care
  - Less than satisfactory- Several aspects of clinical and organisational care that are well below a standard you would expect from yourself, your trainees and institution

b. If less than good, please summarise main reasons for the grade given:

106. Was this case a cause for concern? (See NCEPOD Cause for Concern policy)  Yes  No
- 107a. Was this case an example of a case study that may be used to highlight a theme in the report?  Yes  No
- b. If YES, please summarise below:

THIS IS A DRAFT FORM. THIS IS A DRAFT FORM. THIS IS A DRAFT FORM. THIS IS A DRAFT FORM. THIS IS A DRAFT FORM.

THIS IS A DRAFT FORM. THIS IS A DRAFT FORM. THIS IS A DRAFT FORM. THIS IS A DRAFT FORM. THIS IS A DRAFT FORM.