Community Acquired Pneumonia Hospital Attendance Questionnaire

A. Introduction

What is this study about

To identify and explore avoidable and modifiable factors in the care of adults presenting to hospital with a diagnosis of community acquired pneumonia.

Inclusions

All patients aged 18 or over who presented to hospital between 1st October 2021 and 31st December 2021 with a primary diagnosis of community acquired pneumonia. Same day emergency care patients and those admitted to hospital are included.

Who should complete this questionnaire?

This questionnaire should be completed by the named consultant, or the most appropriate clinician should it not be the named person, responsible for the patients care when they were treated in hospital.

Questions or help

Further information regarding this study can be found here: https://www.ncepod.org.uk/cap.html If you have any queries about this study or this questionnaire, please contact: cap@ncepod.org.uk or telephone 020 7251 9060

CPD accreditation

Consultants who complete NCEPOD questionnaires make a valuable contribution to the investigation of patient care. Completion of questionnaires also provides an opportunity for consultants to review their clinical management and undertake a period of personal reflection. These activities have a continuing medical and professional development value for individual consultants. Consequently, NCEPOD recommends that consultants who complete NCEPOD questionnaires keep a record of this activity which can be included as evidence of internal/self directed Continuous Professional Development in their appraisal portfolio.

About NCEPOD

The National Confidential Enquiry into Patient Outcome and Death (NCEPOD) reviews healthcare practice by undertaking confidential studies, and makes recommendations to improve the quality of the delivery of care, for healthcare professionals and policymakers to implement. Data to inform the studies are collected from NHS hospitals and Independent sector hospitals across England, Wales, Northern Ireland and the Offshore Islands. NCEPOD are supported by a wide range of bodies and the Steering Group consists of members from the Medical Royal Colleges and Specialist Associations, as well as observers from The Coroners Society of England and Wales, and the Healthcare Quality Improvement Partnership (HQIP).

Impact of NCEPOD

Recommendations from NCEPOD reports have had an impact on many areas of healthcare including:

Development of the NICE 'Acutely ill patients in hospital guideline' (CG50) - following publication of the 2005 'An Acute Problem' report.

Appointment of a National Clinical Director for Trauma Care - following publication of 'Trauma: Who Cares?' 2007. Development of NICE Clinical Guidelines for Acute Kidney Injury, published in 2013 - 'Adding Insult to Injury' 2009.

Development of ICS Standards for the care of adult patients with a temporary Tracheostomy, published 2014 - 'On the right trach?' 2014.

Development of guidelines from the British Society of Gastroenterology: diagnosis and management of acute lower gastrointestinal bleeding, published 2019 - 'Time to Get Control' 2015.

Development of the British Thoracic Society's Quality Standards for NIV, published 2018 - 'Inspiring Change' 2017.

This study was commissioned by The Healthcare Quality Improvement Partnership (HQIP) as part of the Clinical Outcome Review Programme into Medical & Surgical care.

B. Patient details

hospital. To be included in primary diagnosis	space to provide a brief ov the study the patient must be s of community acquired pneu	18 or over and have pr	esented to hospital with a
2021 inclusive.			
	ation to hospital?		
Patients aged 18	or over are included in the stu	idy	
		years Unknowr	1
Value should be between	een 18 and 150		
Sex			
O Male	○ Female	Other	O Unknown
. Ethnicity			
White British/			
	/Caribbean/Black British		ata a Y
	ritish (Indian, Pakistani, Bangla e ethnic groups	adesni, Chinese, other A	sian)
O Unknown	e earme groups		
If not listed above	a place specify here		
ii not listed above	e, please specify here		
. Patient's usual	place of residence		
Own home	Residential home	Nursing home	○ Homeless
O Unknown		O 3	
If not listed above	e, please specify here		
	c, p. case speen y mereni		
. Did the patient	have any co-morbidities pr	e-dating this present	ation?
O Yes	O No	Unknown	

6b.	If answered "Yes" to Which of the followin Please tick all that appl	g co-morbidities did th	e patient have?
	☐ AIDS		☐ Bronchiectasis
	Coronary artery dise	ease	Congestive cardiac failure
	☐ Chronic liver diseas		COPD
	Cancer (metastatic)		Cancer (localised)
	Connective tissue d		Dementia
	Diabetes Type 1	isease	Diabetes Type 2
	_		
	Hemiplegia		Hypertension
	Leukemia	Lidea, diasas	Lymphoma
	Moderate or severe	=	Multiple sclerosis
	Myocardial infarctio	n	Parkinsons
	Pulmonary fibrosis		Previous stroke
	Peripheral vascular		Peptic ulcer disease
	☐ Transient ischaemic	attack	
	Please specify any addi	tional options here	
7.	Was there a docume	nted learning disability	?
	O Yes	O No	O Unknown
8a.	What was the patient O Current smoker O Never smoked	t's smoking status?	Ex-smoker (at least 3 months since stopped)Not recorded
	If not listed above, plea	se specify here	
8b.		smoker" to [8a] then: on advice offered to the	e patient during this admission?
	O Yes	O No	O Unknown
8c.		smoker" to [8a] then: ment prescribed to the	patient during this admission?
	O Yes	O No	O Unknown
9a.	Did the patient have	any history of recreation	onal drug use?
	O Yes	O No	O Unknown
9b.	If answered "Yes" to Which recreational d Please tick all that appl	rugs?	
	☐ IV drug use	☐ Heroin smoking	☐ Crack cocaine use ☐ Unknown
	Please specify any addi	tional options here	
9c.	[9a] then:	use", "Heroin smoking' sing these at the time o	or "Crack cocaine use" to [9b] and "Yes" to
	O Yes	O No	○ Unknown

		loads/sites/6/20	022/02/rockwood-frailty-scalepdf
1 - Very Fit4 - Vulnerable	2 - Well 5 - Mildly Fra	ail	3 - Managing Well6 - Moderately Frail
7 - Severely Frail	O 8 - Very Sev		9 - Terminally III
OUnknown		ŕ	
1a.If answered "Own home" Was the patient receiving			
Yes (Full-Time care)Unknown	O Yes (Part-Tir	me care)	O No
If not listed above, please sp	ecify here		
1b.If answered "Yes (Full-Tir Please specify frequency (visits per week)		art-Time care	
relating to this episode o	f community acqui	red pneumoni	
relating to this episode o	f community acquire No 1] then:	red pneumoni O Unknown	
relating to this episode o Yes O 2b.If answered "Yes" to [12a	f community acquire No 1] then:	red pneumoni O Unknown	a?
relating to this episode o Yes 2b.If answered "Yes" to [12a Which services? (please r GP Emergency department	f community acquir No] then: nark all that apply	red pneumoni Unknown Urgent Ca 111/ NHS	re Centre 24 services
relating to this episode o Yes 2b.If answered "Yes" to [12a Which services? (please r	f community acquire No Then: nark all that apply at this hospital	red pneumoni Unknown Urgent Ca 111/ NHS	re Centre
relating to this episode o Yes 2b.If answered "Yes" to [12a Which services? (please r GP Emergency department Community nurse	f community acquire No] then: mark all that apply at this hospital of another hospital	red pneumoni Unknown Urgent Ca 111/ NHS	re Centre 24 services
relating to this episode o Yes 2b.If answered "Yes" to [12a Which services? (please referency department of the community nurse harmony department of the	f community acquire No] then: mark all that apply at this hospital of another hospital	red pneumoni Unknown Urgent Ca 111/ NHS	re Centre 24 services
relating to this episode o Yes 2b.If answered "Yes" to [12a Which services? (please referency department of the community nurse harmony department of the	f community acquire No] then: mark all that apply at this hospital of another hospital	red pneumoni Unknown Urgent Ca 111/ NHS	re Centre 24 services
relating to this episode o Yes 2b.If answered "Yes" to [12a Which services? (please referency department of the community nurse of the Emergency department of the Emergency department of the Please specify any additional	f community acquire No I then: mark all that apply at this hospital of another hospital I options here	red pneumoni O Unknown Urgent Ca D 111/ NHS Other out-	re Centre 24 services
relating to this episode o Yes 2b.If answered "Yes" to [12a Which services? (please refered to the property of the property	f community acquire No I then: mark all that apply at this hospital of another hospital I options here	red pneumoni O Unknown Urgent Ca D 111/ NHS Other out-	re Centre 24 services
relating to this episode o Yes 2b.If answered "Yes" to [12a Which services? (please recommend of the part of the	f community acquire No No I then: mark all that apply at this hospital of another hospital I options here ated previously for eary care) No I then:	Unknown Urgent Ca 111/ NHS Other out-	re Centre 24 services

		C. Pr	resenting Features
1.	Where was the initia	al assessment?	
	O Pre-hospital	O In the hospital	○ Unknown
	If not listed above, ple	ase specify here	
2.	What were the pres hospital) Please tick all that app Cough purulent (year) Cough dry Wheeze Haemoptysis Rigors Fatigue Diarrhoea Confusion Unknown	oly	t the time of first assessment? (including pre- Cough non-purulent (clear/white) Dyspnoea Pleuritic pain Fever Fall Vomiting Abdominal pain None of these
	Please specify any add	•	
	Were antibiotics pro	O No	al? O Unknown
		○ No o [3a] then:	○ Unknown
	O Yes If answered "Yes" to	○ No o [3a] then:	○ Unknown
3b.	O Yes If answered "Yes" to	No D [3a] then: ntibiotics was presc D [3a] then:	Unknown
3b.	Yes If answered "Yes" to Date first dose of an If answered "Yes" to	No D [3a] then: ntibiotics was presc D [3a] then: antibiotics?	Unknown
3b.		No [3a] then: ntibiotics was presc [3a] then: antibiotics? umonia or LRTI	Unknown Cribed? Unknown
3b. 3c.	Yes If answered "Yes" to Date first dose of an Important to the Important Teacher of the Import	No Do [3a] then: Intibiotics was prescue Do [3a] then: Intibiotics? Umonia or LRTI Dease specify here Do [3a] then: Do [3a] then:	Unknown Unknown Treatment for other infection
3b. 3c.	Yes If answered "Yes" to Date first dose of an Important to the Important for phe O Unclear If not listed above, ple If answered "Yes" to Important for phe O Unclear	No Do [3a] then: Intibiotics was prescue Do [3a] then: Intibiotics? Umonia or LRTI Do [3a] then: Italian (GP or ANP)	Unknown Unknown Treatment for other infection
3b.	O Yes If answered "Yes" to Date first dose of an Important to Important for phe O Unclear If not listed above, ple If answered "Yes" to How were initial and O Primary care clinic	D [3a] then: ntibiotics was presc D [3a] then: antibiotics? umonia or LRTI ease specify here D [3a] then: tibiotics prescribed tian (GP or ANP) e pack	Unknown Unknown Treatment for other infection Out of hours service
3b. 3c.	If answered "Yes" to Date first dose of an Important to Important for present the Important for present the Important for present the Important for present for pr	No De [3a] then: Intibiotics was prescue De [3a] then: Intibiotics? Umonia or LRTI Dease specify here De [3a] then: Itibiotics prescribed De pack De pack	Unknown Unknown Treatment for other infection Out of hours service Unknown

		o admission?		
ow long were antil	biotics taken prior t		∩ 3 days	
ow long were antil		o admission? O 2 days O 6 days	◯ 3 days ◯ 7 days	
) Less than a day	oiotics taken prior to	O 2 days		

D. Admission to hospital / first assessment and initial management

Out of hour Unknown	e clinician (GP or ANP) referral clinic s service	 Emergency department Urgent care centre Same day emergency care (SDEC)
If not listed abo	ove, please specify here	
a. Date of arriva	l to hospital	□ Unknown
b. Time of arriva 24 Hour Forma		GIIKIIOWII
24 11001 1 011114	Comy	Unknown
a. Did the patier	nt arrive by ambulance?	
O Yes	O No	O Unknown
	Yes" to [3a] then: ince Service Patient Report	t Form available to you?
O Yes	O No	
	Yes" to [3b] then: lance crew assessment	
		☐ Unknown
	Yes" to [3b] then: llance crew assessment t Only	
		☐ Unknown
		Unknown
-	the following questions fro Yes" to [3a] and "Yes" to [3	om the Ambulance Service Patient Report Form:
a. If answered "	Yes" to [3a] and "Yes" to [3	om the Ambulance Service Patient Report Form:
a. If answered "' ACVPU Score O Alert O Unresponsi	Yes" to [3a] and "Yes" to [3 Confused Ve Not recorded Yes" to [3a] and "Yes" to [3	om the Ambulance Service Patient Report Form: Bb] then: O Verbal Pain
a. If answered "' ACVPU Score Alert Unresponsive. b. If answered "'	Yes" to [3a] and "Yes" to [3 Confused Ve Not recorded Yes" to [3a] and "Yes" to [3a]	om the Ambulance Service Patient Report Form: Bb] then: O Verbal Pain
a. If answered "' ACVPU Score Alert Unresponsive. b. If answered "'	Yes" to [3a] and "Yes" to [3 Confused Not recorded Yes" to [3a] and "Yes" to [3a] ate	om the Ambulance Service Patient Report Form: Bb] then: O Verbal O Pain Bb] then:
ACVPU Score Alert Unresponsive B. If answered "Respiratory range of the control of the contro	Yes" to [3a] and "Yes" to [3 Confused Not recorded Yes" to [3a] and "Yes" to [3a] ate brance than 60 Yes" to [3a] and "Yes" to [3	om the Ambulance Service Patient Report Form: Bb] then: Verbal Pain Bb] then: reaths p/m Unknown
a. If answered "ACVPU Score Alert Unresponsive b. If answered "Respiratory range Value should be no c. If answered "	Yes" to [3a] and "Yes" to [3 Confused Not recorded Yes" to [3a] and "Yes" to [3a] ate brance than 60 Yes" to [3a] and "Yes" to [3	om the Ambulance Service Patient Report Form: Bb] then: Verbal Pain Bb] then: reaths p/m Unknown
a. If answered "ACVPU Score Alert Unresponsive b. If answered "Respiratory range Value should be no c. If answered "	Yes" to [3a] and "Yes" to [3 Confused Not recorded Yes" to [3a] and "Yes" to [3a] ate brance than 60 Yes" to [3a] and "Yes" to [3a] d Pressure	om the Ambulance Service Patient Report Form: Bb] then: Verbal Pain Bb] then: reaths p/m Unknown
a. If answered "ACVPU Score Alert Unresponsive Bullet Bull	Yes" to [3a] and "Yes" to [3 Confused Not recorded Yes" to [3a] and "Yes" to [3a] To more than 60 Yes" to [3a] and "Yes" to [3d] The more than 200 Yes" to [3a] and "Yes" to [3]	om the Ambulance Service Patient Report Form: Bb] then: Verbal Pain Bb] then: reaths p/m Unknown Unknown Unknown

	°C	Unknown
Value should be no more than 50		
If answered "Yes" to [3a] a Pulse rate	and "Yes" to [3b] then:	:
	beats p/m	Unknown
Value should be no more than 200		_
. If answered "Yes" to [3a] a Glasgow Coma Scale Score		:
	Total score	Unknown
	and "Yes" to [3b] then:	:
	and "Yes" to [3b] then:	7
. If answered "Yes" to [3a] a		7
Oxygen saturation Value should be no more than 100	%	7
n. If answered "Yes" to [3a] a Oxygen saturation Value should be no more than 100 a. Did the patient receive oxygen	% ygen?	7
Oxygen saturation Value should be no more than 100 A. Did the patient receive oxy	ygen?	Unknown
n. If answered "Yes" to [3a] a Oxygen saturation Value should be no more than 100 a. Did the patient receive oxy Yes O If answered "Yes" to [5a] to	ygen?	Unknown

1a. Location of first hospital review Emergency department Same day emergency care service Medical assessment unit Unknown If not listed above, please specify here... 1b. Date of review ☐ Unknown 1c. Time of review 24 Hour Format Only ☐ Unknown 1d. Details of reviewer grade Advanced nurse practitioner Basic grade (FY1 or 2) Specialist trainee (ST1-2) O Specialist trainee (ST3+) Speciality doctor Consultant Unknown If not listed above, please specify here... 1e. Reviewer Specialty? Acute medicine General medicine Respiratory Critical Care O ED Clinician Unknown If not listed above, please specify here... 2a. Was the patient reviewed by a consultant? Yes (No Unknown 2b. If answered "Yes" to [2a] then: Date of first consultant review ☐ Unknown 2c. If answered "Yes" to [2a] then: Time of first consultant review 24 Hour Format Only ☐ Unknown 2d. If answered "Yes" to [2a] then: Consultant reviewer specialty? Acute medicine Respiratory medicine Care of the elderly General medicine O Not recorded If not listed above, please specify here... 3. The time recorded of the FIRST vital signs assessment in hospital ☐ Unknown

E. Initial presentation in hospital

	ACVPU Score					
	O Alert O Unresponsive	_	onfused ot recorded	O Ve	erbal	O Pain
ii.	Respiratory rate					
			breaths p/m		Unknow	า
	Value should be no more	than 60				
iii.	Systolic Blood Pre	essure				
			mmHg	Г	Unknow	1
	Value should be no more	than 200				
iv.	Diastolic Blood Pr	essure				
			mmHg] п	Unknow	า
	Value should be no more	than 200	9			
v.	Temperature					
			°C	」 ロ	Unknow	า
	Value should be no more	than 50		J	J. IKI IOWI	
vi.	Pulse rate					
			beats p/m	」 「	Unknow	า
	Value should be no more	than 200	beats p/iii	J U	OTIKITOWI	'
vii.	Glasgow Coma Sc		e			
			Total Score	1 _	Unknow	2
	Value should be between	3 and 15	Total Score	J U	OTINITOWI	ı
∕iii.	Oxygen saturation					
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		%	1 _	Unknow	2
	Value should be no more	than 100	/0	J U	OTINITOWI	ı
Nas	there new onset	confusio	n?			
) Y	⁄es	O No		O Ur	nknown	
Nas	the patient receiv	ving sup	plemental oxy	gen?		
) Y	⁄es	O No		O Ur	nknown	
	nswered "Yes" to [gen delivery devic	_	:			
	Nasal cannulae		O Venturi			O Non-rebreathe device
_	Nasal high flow oxyg		O HUDSON ox	ygen m	ask	O Not recorded
f not	t listed above, pleas	e specify	here			
		_ = = = = = = = = = = = = = = = = = = =				
Vas	a NEWS 2 Score c	locumen	ited?			
- 43		O No				
γ						
⊃ Y fan	swered "Yes" to f	6al then	1			
– f an	nswered "Yes" to [IS 2 Score	6a] then	:			

3. The first vital signs assessment in hospital

6c. Was a CURB65	Score documented?	
O Yes	O No	Unknown
6d. If answered "Y CURB65 Score	es" to [6c] then:	
		Score Unknown
17 1 1 1 1 1		

Value should be no more than 5

F. Investigations 1. On what pathway was the patient managed after initial review? O Admitted to hospital ward Same day emergency care pathway O Discharged after initial review Unknown If not listed above, please specify here... Radiology 2a. Did the patient have a Chest X-ray during this presentation to hospital? Unknown Yes O No 2b. If answered "No" to [2a] then: Please explain why not e.g. chest x-ray in the community, rushed to CT, mild pneumonia, death 2c. If answered "Yes" to [2a] then: Date of Chest X-ray ☐ Unknown 2d. If answered "Yes" to [2a] then: **Time of Chest X-ray** ☐ Unknown 2e. If answered "Yes" to [2a] then: In your opinion, was there a delay to the patient receiving the X-Ray? O No Yes Unknown 2f. If answered "Yes" to [2e] then: Please give further details 3a. If answered "Yes" to [2a] then: Were the CXR findings recorded by the clinical team in the case notes? Yes O Unknown O No

O. If answered "Yes" to [3a] then: Which of the following were documented book Please tick all that apply	y the clinical team?
 ☐ Unilateral lobar consolidation/pneumonia ☐ Unilateral patchy consolidation/bronchopneu ☐ Bilateral lobar consolidation/pneumonia ☐ Suspicion of lung cancer ☐ None apply 	umonia Pleural effusion Multilobar consolidation/pneumonia Normal X-Ray
Please specify any additional options here	
c. If answered "Yes" to [3a] then: Date recorded?	
	Unknown
d. If answered "Yes" to [3a] then: Time recorded? 24 Hour Format Only	
	Unknown
a. If answered "Yes" to [2a] then: Date of CXR report	☐ Unknown
b. If answered "Yes" to [2a] then: Time of CXR report 24 Hour Format Only	CHRIOWII
	Unknown
c. If answered "Yes" to [2a] then: Did the report differ from the findings note	ed by the clinical team?
○ Yes ○ No	O Unknown
d. If answered "Yes" to [4c] then: What did the report say? Tick all that apply	
 ☐ Unilateral lobar consolidation/pneumonia ☐ Bilateral lobar consolidation/pneumonia ☐ Pleural effusion ☐ None apply 	 ☐ Unilateral patchy consolidation/pneumonia ☐ Multilobar consolidation/pneumonia ☐ Suspicion of lung cancer ☐ Normal X-Ray
Please specify any additional options here	
e. If answered "Yes" to [2a] then:	Alex V Bernandi 2
Could anything have been improved about	
O Yes O No	O Unknown

. If answered "Yes" Please give furthe		•••			
. Were any of the f		ditional investi	gations done?		
CT thorax		_	ry angiogram	Ultrasound the	
☐ Point of care ult☐ None apply	rasound	☐ Bronchosco	ру	☐ Repeat Chest	X-Ray
. If answered "CT t ultrasound", "Bro In your opinion, w	nchoscopy"	or "Repeat Che	est X-Ray" to [5	5a] then:	Point of care
O Yes	O No		O Unknown		
. If answered "Yes"	' to [5h] the	n.			
Please explain	10 [35] the				
Please explain	10 [35] the				
. In your opinion sh			ogical investig	ations have been	done?
			ogical investiga	ations have been	done?
. In your opinion sh O Yes . If answered "Yes"	nould any ac No ' to [5d] the	dditional radiol	O Unknown		done?
. In your opinion sh	nould any ac No ' to [5d] the	dditional radiol	O Unknown		done?
. In your opinion sh O Yes . If answered "Yes"	nould any ac No ' to [5d] the	dditional radiol	O Unknown		done?
. In your opinion sh O Yes . If answered "Yes"	nould any ac No ' to [5d] the	dditional radiol	O Unknown		done?
. In your opinion sh O Yes . If answered "Yes"	nould any ac No ' to [5d] the	dditional radiol	O Unknown		done?
. In your opinion sh O Yes . If answered "Yes"	nould any ac No ' to [5d] the	dditional radiol	O Unknown		done?
. In your opinion sh O Yes . If answered "Yes"	nould any ac No ' to [5d] the	dditional radiol	O Unknown		done?
. In your opinion sh O Yes . If answered "Yes"	nould any ac No ' to [5d] the	dditional radiol	O Unknown		done?
. In your opinion sh O Yes . If answered "Yes"	nould any ac No ' to [5d] the	dditional radiol	O Unknown		done?
. In your opinion sh O Yes . If answered "Yes"	nould any ac No ' to [5d] the	dditional radiol	O Unknown		done?
. In your opinion sh O Yes . If answered "Yes"	nould any ac No ' to [5d] the	dditional radiol	O Unknown		done?

	Urea						
			mmol/L	П	Unknown		
	Value should be between 1	and 100		_			
	Creatinine						
			umol/L	П	Unknown		
	Value should be between 1	and 9,999	a				
	C-reactive protein						
	-		ma/l		Unknown		
	Value should be no more th	nan 999	mg/L	П	OHRHOWH		
	HIV test						
_	Positive	Negative	∩ No	t dor	ne () Un	known
	Lactate	O magama	O 111				
•				_			
	Malica de solal la coma mana del		mmol/L	Ш	Unknown		
	Value should be no more the White cell count	ian su					
•	write cell coulit		1				
			10^9/L		Unknown		
	Value should be no more th	nan 100					
•	Was liver function:		- · · ·		_	.	
	○ Normal	Abnormal	O No	t dor	ne (Un ر	known
i.	(ABG) Blood pH leve	el	рН	П	Not Applicable	П	Unknown
	Value should be no more th	nan 10		_	• • •	_	
	(ABG) Blood CO2 le	vel					
			mEg/L	П	Not Applicable	П	Unknown
	Value should be no more th	nan 100	11124/2		пост приношене		
	(ABG) Blood PO2 le	vel					
			mmHa		Not Applicable	П	Unknown
	Value should be no more th	nan 200	mmHg		Not Applicable		OTIKHOWIT
_							
		uld any additional h	olood tests h	ave	been done?		
· -	In your opinion sho						
		O No	olood tests h				

No amounts	O 0::-1:	on oons::	O Decitive
No growthNot done	Only re	sp. commensals vn	O Positive
If answered "No Date recorded?	growth", "Only resp. co	mmensals" or "Po	ositive" to [8a] then:
			nknown
If answered "No Time samples se 24 Hour Format Or		mmensals" or "Po	ositive" to [8a] then:
If answered "Pos	sitive" to [8a] then:	u	nknown
O Pneumococcus			
If not listed above,	please specify here		
Blood culture			
O No growth O Not done	O Positive	e culture vn	O Probable contaminant
If answered "No	growth", "Positive cultu	ıre" or "Probable	contaminant" to [9a] then:
Date recorded?			
Date recorded?		u	nknown
	nt off?		nknown contaminant" to [9a] then:
If answered "No Time samples se	nt off?	ure" or "Probable	
If answered "No Time samples se 24 Hour Format Or	nt off? oly sitive culture" to [9a] th	ure" or "Probable	contaminant" to [9a] then:
If answered "No Time samples se 24 Hour Format Or	nt off? oly sitive culture" to [9a] th	ure" or "Probable	contaminant" to [9a] then:
If answered "No Time samples se 24 Hour Format Or If answered "Pos If positive, result Staphylococcus	sitive culture" to [9a] the transport of the culture of the cultur	ure" or "Probable	contaminant" to [9a] then: nknown Contaminant to [9a] then:
If answered "No Time samples se 24 Hour Format Or If answered "Pos If positive, result Staphylococcus	nt off? ply sitive culture" to [9a] th t? s aureus	ure" or "Probable len: monas aeruginosa	contaminant" to [9a] then: nknown Contaminant to [9a] then:
If answered "No Time samples se 24 Hour Format Or If answered "Pos If positive, result O Staphylococcus If not listed above, Respiratory viral	nt off? sitive culture" to [9a] the testing	ure" or "Probable Unen: monas aeruginosa	contaminant" to [9a] then: nknown C Klebsiella pneumoniae
If answered "No Time samples se 24 Hour Format Or If answered "Positive, result O Staphylococcus If not listed above, Respiratory viral O Negative	nt off? n/y sitive culture" to [9a] thet? s aureus O Pseudo please specify here testing Positive	wre" or "Probable Den: monas aeruginosa O Not done	contaminant" to [9a] then: nknown Contaminant to [9a] then:
If answered "No Time samples se 24 Hour Format Or If answered "Positive, result O Staphylococcus If not listed above, Respiratory viral O Negative	nt off? sitive culture" to [9a] the testing	wre" or "Probable Den: monas aeruginosa O Not done	contaminant" to [9a] then: nknown C Klebsiella pneumoniae
If answered "No Time samples se 24 Hour Format Or If answered "Pos If positive, result Staphylococcus If not listed above, Respiratory viral Negative	nt off? n/y sitive culture" to [9a] thet? s aureus O Pseudo please specify here testing Positive	wre" or "Probable Den: monas aeruginosa O Not done	contaminant" to [9a] then: nknown C Klebsiella pneumoniae
If answered "No Time samples se 24 Hour Format Or If answered "Positive, result O Staphylococcus If not listed above, If not listed above, Negative O Negative If answered "Neg SARS-COV2 O Positive	nt off? nly sitive culture" to [9a] thet? s aureus	wre" or "Probable den: monas aeruginosa Not done [10a] then:	contaminant" to [9a] then: nknown C Klebsiella pneumoniae
If answered "No Time samples se 24 Hour Format Or If answered "Pos If positive, result O Staphylococcus If not listed above, If answered "Neg SARS-COV2 O Positive If not listed above, If not listed above, If not listed above, If not listed above, If answered "Neg SARS-COV2 O Positive If not listed above, If answered "Neg If an	nt off? citive culture" to [9a] thet? s aureus	O Not done [10a] then: O Unknown	contaminant" to [9a] then: nknown C Klebsiella pneumoniae
If answered "No Time samples se 24 Hour Format Or If answered "Pos If positive, result O Staphylococcus If not listed above, If answered "Negative If answered "Neg SARS-COV2 O Positive If not listed above, If not listed	nt off? sitive culture" to [9a] thet? s aureus	O Not done [10a] then: O Unknown	contaminant" to [9a] then: nknown C Klebsiella pneumoniae

) Positive	Negative	Unknown	
If not listed above,	please specify here		
Pneumococcal ur	rinary antigon		
Negative	Positive	○ Not done	Unknown
Serum for atypic	•	O Not dolle	Olikilowii
e.g. mycoplasma, i			
Negative	O Positive	Not done	O Unknown
.Legionella urinar	y antigen		
Negative	O Positive	O Not done	O Unknown
.in your opinion s	No	Unknown	ations have been done?
.If answered "Yes			
	microbiological invest	igations?	
.In your opinion, v	were all relevant invest	tigations done for this	patient?
In your opinion, v	were all relevant invest	tigations done for this Unknown	patient?
Yes If answered "No"	○ No to [12a] then:		patient?
O Yes	○ No to [12a] then:		patient?
Yes If answered "No"	○ No to [12a] then:		patient?
Yes If answered "No"	○ No to [12a] then:		patient?
Yes If answered "No"	○ No to [12a] then:		patient?
Yes If answered "No"	○ No to [12a] then:		patient?
Yes If answered "No"	○ No to [12a] then:		patient?
Yes If answered "No"	○ No to [12a] then:		patient?

G. Clinical Care

1a. Please tick which pathway	best relates to the pa	tient:
In-patientUnknown	O	Same day emergency care/ambulatory care
1b. If answered "In-patient" to Which of the following best		he patient was FIRST admitted to?
Short stay bed in EmergenNon-RespiratoryRespiratory support unitHDU level 2	0	Acute medical Respiratory ICU level 3 Discharged after first assessment
If not listed above, please spec	ify here	
2a. If answered "In-patient" to Was a ward transfer requir		ent at any stage of the admission?
O Yes O N	0	
2b. If answered "Yes" to [2a] the What ward was the patient		
Acute medicalRespiratory support unit	Non-RespiratoryICU level 3	RespiratoryHDU level 2
If not listed above, please spec	ify here	
3a. Were decisions on ceilings	of treatment made fo	r the patient?
O Yes O N	o O	Unknown
3b. If answered "Yes" to [3a] th Which of these were used t		?
□ DNACPR□ ReSPECT form	☐ TEP form☐ Ward-based care	Limited Critical Care
Please specify any additional o	ptions here	
Antibiotics		
4a. Were there any allergies to	antibiotics documen	ted?
O Yes O N	o O	Unknown
4b. If answered "Yes" to [4a] th Which antibiotic/s?	nen:	
L		

5a.	Please indicate all ar Please tick all that appl		on the first hospital antibiotic course
	Amoxicillin (oral) Benzylpenicillin (int Cephalosporin (intra Clarithromycin (intra Co-amoxiclav (intra Co-trimoxazole (intra Erythromycin (oral) Gentamicin (intrave Levofloxacin (intrave Moxifloxacin (oral) Tazocin (intravenous No antibiotics presc	avenous) avenous) venous) ravenous) enous) venous)	 Amoxicillin (intravenous) Cephalosporin (oral) Clarithromycin (oral) Co-amoxiclav (oral) Co-trimoxazole (oral) Doxycycline (oral) Erythromycin (intravenous) Levofloxacin (oral) Meropenem (intravenous) Moxifloxacin (intravenous) No data or not recorded
	Please specify any addi	tional options here	
5b.	(intravenous)", "Cepl (oral)", "Clarithromyo (intravenous)", "Co-t (oral)", "Erythromyci "Levofloxacin (oral)", "Moxifloxacin (oral)", then:	halosporin (oral)", cin (intravenous)", rimoxazole (oral)" n (oral)", "Erythro , "Levofloxacin (in , "Moxifloxacin (in	kicillin (intravenous)", "Benzylpenicillin "Cephalosporin (intravenous)", "Clarithromycin , "Co-amoxiclav (oral)", "Co-amoxiclav ", "Co-trimoxazole (intravenous)", "Doxycycline mycin (intravenous)", "Gentamicin (intravenous)", travenous)", "Meropenem (intravenous)", travenous)" or "Tazocin (intravenous)" to [5a] sed on local formulary guidance? () Unable to answer
6a.	What was the date o	f the first antibiot	ic prescription in hospital?
			Unknown
6b.	If known, what was t 24 Hour Format Only	he time recorded?	,
			Unknown
6c.	What was the date th	ne first dose of an	tibiotics was administered in hospital?
			Unknown
6d.	If known, what was t 24 Hour Format Only	he time recorded?	•
6d.		he time recorded?	Unknown
	24 Hour Format Only		

☐ Amoxicillin (oral) ☐ Amoxicillin (intravenous) ☐ Benzylpenicillin (intravenous) ☐ Cephalosporin (oral) ☐ Cephalosporin (intravenous) ☐ Clarithromycin (oral) ☐ Co-amoxiclav (intravenous) ☐ Co-trimoxazole (oral) ☐ Co-trimoxazole (intravenous) ☐ Doxycycline (oral)	
☐ Cephalosporin (intravenous) ☐ Clarithromycin (oral) ☐ Clarithromycin (intravenous) ☐ Co-amoxiclav (oral) ☐ Co-amoxiclav (intravenous) ☐ Co-trimoxazole (oral) ☐ Co-trimoxazole (intravenous) ☐ Doxycycline (oral)	ous)
☐ Clarithromycin (intravenous) ☐ Co-amoxiclav (oral) ☐ Co-amoxiclav (intravenous) ☐ Co-trimoxazole (oral) ☐ Co-trimoxazole (intravenous) ☐ Doxycycline (oral)	
☐ Co-amoxiclav (intravenous) ☐ Co-trimoxazole (oral) ☐ Co-trimoxazole (intravenous) ☐ Doxycycline (oral)	
Co-trimoxazole (intravenous) Doxycycline (oral)	
= - · · · · · · · · · · · · · · · · · ·	
☐ Erythromycin (oral) ☐ Erythromycin (intrave	enous)
Gentamicin (intravenous) Levofloxacin (oral)	
Levofloxacin (intravenous) Meropenem (intraven	ious)
☐ Moxifloxacin (oral) ☐ Moxifloxacin (intraver	
☐ Tazocin (intravenous) ☐ No data or not record	
Please specify any additional options here	
7c. If answered "Yes" to [7a] then: Was this due to: Tick all that apply	
☐ Poor clinical response ☐ Worsening pneumonia severity	
Culture results Microbiology advice Patie	nt improvement
Please specify any additional options here	
O Yes O No O Unknown Bb. If answered "Yes" to [8a] then: Please give further details	
Oxygen administration	
Oa.Was oxygen therapy administered to this patient? O Yes O No O Unknown	
Oa.Was oxygen therapy administered to this patient? O Yes O No O Unknown Ob.If answered "Yes" to [10a] then: Which of the following devices were used? Please tick all that apply	uri device
Oa.Was oxygen therapy administered to this patient? Yes No Unknown Ob.If answered "Yes" to [10a] then: Which of the following devices were used? Please tick all that apply Nasal cannulae HUDSON oxygen mask	uri device

O Yes	\bigcirc N	0	O Unknown	
o.lf answered "Yes Which of the foll Please tick all that	owing used		support?	
☐ Non-Invasive v	entilation	□ СРАР		☐ Invasive ventilation
	additional a	ntions horo		
Please specify any		puons nere		
neumonia complic	ations		a?	
	ations	ns of pneumoni	a?	
neumonia complic	ations complication N s" to [13a]	ons of pneumoni	_	

		H. Discharge and fo	llow-up arrangements	
1a.	Discharge destination			
	Own home Unknown	O Residential home	O Nursing home O Death	
	If not listed above, pleas	e specify here		
1b.	Date of hospital disch	arge or death		
1c.	If known, time of hosp 24 Hour Format Only	oital discharge or deat	Unknown h	
			Unknown	
2.		used to facilitate disch	" or "Nursing home" to [1a] then: narge without the need for medica	I review?
	O Yes	O No	O Unable to answer	
3.		ne", "Residential home e home oxygen on disc	" or "Nursing home" to [1a] then: charge?	
	O Yes	O No	O Not recorded	
4.		ne", "Residential home arged while on antibio	" or "Nursing home" to [1a] then: tics?	
	O Yes	O No	O Unable to answer	
5.			" or "Nursing home" to [1a] then: ient about pneumonia?	
	O Yes	O No	O Unable to answer	
6a.	Follow-up X-Ray			
	Requested and doneUnknown	O Requested b	out not done O Not requested	
6b.	If answered "Requesto Date when follow up)	ed and done" to [6a] th K-ray was done	nen:	
			Unknown	
7.	If answered "Own hon Which of the following If multiple answers apply	g follow up arrangemei	" or "Nursing home" to [1a] then: nts were made?	
	O Hospital purso lod ou	•	O Chost x ray only	clinic
	O Hospital nurse led ou O GP follow up O Not recorded	acpatient chinc	Chest x-ray onlyNo follow up arranged	
	If not listed above, pleas	e specify here		

I. Outcome and readmissions

`	Discharged	O Died	
		harged" to [1] then eadmitted within 3	
(Yes	O No	O Unclear
	f answered "Yes" Vas the readmiss		nia and/or complications of pneumonia?
(→ Yes	O No	O Unknown
I1	f not listed above,	please specify here	
	f answered "Yes" What treatment w		
	•	neumonia with same pleural effusion or em	
<u>[1</u>	f not listed above,	please specify here	
	f answered "Yes" Vas the original (' to [2] then: discharge plan appi	ropriate?
V			ropriate?
۷ b. ۱۰	Was the original o	discharge plan appi No to [4a] then:	ropriate?

4c. If answered "Y In your opinion	es" to [2] then: n, was the readmission avoidable	
O Yes	○ No	
4d. If answered "Y Please give fu		
5a. On review of t	his case did you identify any patient safet	y incidents?
O Yes	○ No	
5b. If answered "Y Please provide		

End of Questionnaire

THANK YOU FOR TAKING THE TIME TO COMPLETE THIS QUESTIONNAIRE

By doing so you have contributed to the dataset that will form the report and recommendations due for release in winter 2023