Acute Limb Ischaemia - Reviewer Assessment Form

A. Study inclusion and Case Reviewer details

What is this study about?

To explore current care pathways for patients with ALI; identify remediable clinical and organisational factors that can improve the delivery and quality of the required care.

Inclusions

Patients aged 18 or over who were admitted to hospital between 1st January 2023 and 31st March 2023 and diagnosed with Acute Limb Ischaemia (ALI). Patients with Chronic Limb Ischaemia (CLI) without Acute Limb Ischaemia, Acute Limb Ischaemia from Trauma, or latrogenic causes of Acute Limb Ischaemia are not included.

Date of review	meeting		
		Unknown	
Site ID			

B. Patient Details

"Unable to answer"

Please use the 'unable to answer' box if there is not enough information available in the notes to answer the question, or the part of the notes needed to answer the question have not been returned, or if there is not enough detail to form an opinion

2. Age at presentation to hospital			
		Years Unknown	
3. Sex			
O Male	O Female		
4. Presenting limb:			
☐ Right lower limb	Right upper limb	Left lower limb	ft upper limb
5. Was the patient rece	iving any social suppo	rt/care?	
O Yes	O No	○ Unknown	
admission	-	Rockwood Clinical Frailty scor	-
1. Very Fit	O 2. Well	3. Managing	g Well
4. Vulnerable7. Severely FrailUnable to ascertain	○ 5. Mildly Fr.○ 8. Very Sev	_	=
7. Did the patient have	any communication di	ficulties?	
LanguageLearning difficulties	☐ Hearing dif ☐ None	iculties	sability
Please specify any addi	tional options here		
8a. Did the patient have () Yes	No	Unknown	
8b. If answered "No" to [Did they have a patie	8a] then:		
O Yes	○ No	O Unknown	

C. Summary of key dates and times

Please take a few minutes to read through the notes and familiarise yourself with the information available to you. As you go through the notes please record the following dates and times:

Date of any pr	evious acute limb ischa	
		☐ Not Applicable ☐ Unknown
Date of onset	of symptoms (approxim	nately if not known)
		Unknown
. Time of onset	of symptoms (Approxin	nately)
		Unknown
. Did the patien admission?	t report their symptom	s to a healthcare professional prior to the hospital
O Yes	O No	Unable to answer
	es" to [3a] then: he patient first report t	their symptoms?
○ GP		ent Treatment Centre O NHS 111
O 999	O Unkr	nown
If not listed abov	ve, please specify here	
	es" to [3a] then: nt first reported sympt	toms to a healthcare professional (approximately):
•		ionis to a neartificate professional (approximatery).
•		Unknown
d. If answered "Y	es" to [3a] then:	
d. If answered "Y	es" to [3a] then:	Unknown
d. If answered "Y	es" to [3a] then:	Unknown toms to a healthcare professional (approximately):
I. If answered "Y Time the patie	es" to [3a] then: ent first reported sympt	Unknown toms to a healthcare professional (approximately):
d. If answered "Y Time the patie	es" to [3a] then: ent first reported sympt	Unknown toms to a healthcare professional (approximately): Unknown
d. If answered "Y Time the patie a. Was the patie Yes b. If answered "Y	res" to [3a] then: ent first reported symptement	Unknown toms to a healthcare professional (approximately): Unknown on-specialist "spoke" hospital? Unknown
d. If answered "Y Time the patie a. Was the patie Yes b. If answered "Y	res" to [3a] then: ent first reported symptement transferred from a new No res" to [4a] then:	Unknown toms to a healthcare professional (approximately): Unknown on-specialist "spoke" hospital? Unknown
a. Was the patien Yes Date and time	res" to [3a] then: ent first reported symptement transferred from a new No res" to [4a] then: of arrival in spoke hos	Unknown toms to a healthcare professional (approximately): Unknown on-specialist "spoke" hospital? Unknown
a. Was the patien Yes Date and time	res" to [3a] then: ent first reported symptement transferred from a new No res" to [4a] then: of arrival in spoke hos	Unknown toms to a healthcare professional (approximately): Unknown on-specialist "spoke" hospital? Unknown pital Not Applicable Unknown sment in "spoke" hospital
i. If answered "Y Time the patie a. Was the patie Yes b. If answered "Y Date and time c. If answered "Y Date and Time d. If answered "Y Date in	res" to [3a] then: ent first reported sympt ont transferred from a new No res" to [4a] then: of arrival in spoke hos res" to [4a] then: of initial triage assess res" to [4a] then:	Unknown toms to a healthcare professional (approximately): Unknown on-specialist "spoke" hospital? Unknown pital Not Applicable Unknown sment in "spoke" hospital Not Applicable Unknown
i. If answered "Y Time the patie a. Was the patie Yes b. If answered "Y Date and time c. If answered "Y Date and Time d. If answered "Y Date	res" to [3a] then: ent first reported sympt ont transferred from a new No res" to [4a] then: of arrival in spoke hos res" to [4a] then: of initial triage assess res" to [4a] then:	Unknown Coms to a healthcare professional (approximately):
i. If answered "Y Time the patie a. Was the patie Yes b. If answered "Y Date and time c. If answered "Y Date and Time d. If answered "Y Date	res" to [3a] then: ent first reported sympt ont transferred from a new No res" to [4a] then: of arrival in spoke hos res" to [4a] then: of initial triage assess res" to [4a] then:	Unknown Coms to a healthcare professional (approximately): Unknown Unknown On-specialist "spoke" hospital? Unknown On-specialist "spoke" hospital? Unknown On-specialist "spoke" hospital Unknown On-specialist "spoke" hospital Unknown On-specialist "spoke" hospital Unknown On-specialist "spoke hospital On-specialist On-special
d. If answered "Y Time the patie a. Was the patie Yes b. If answered "Y Date and time d. If answered "Y Date / time init Assessment by a	res" to [3a] then: ent first reported sympte ont transferred from a ne one No res" to [4a] then: of arrival in spoke hos res" to [4a] then: of initial triage assess res" to [4a] then: tial clinical assessment a clinician following triage	Unknown Unkn
d. If answered "Y Time the patie a. Was the patie Yes b. If answered "Y Date and time d. If answered "Y Date / time init Assessment by a	res" to [3a] then: ent first reported sympte ont transferred from a ne one No res" to [4a] then: of arrival in spoke hos res" to [4a] then: of initial triage assess res" to [4a] then: tial clinical assessment a clinician following triage	Unknown Unkn

	. If answered "Yes" to [4a] then: Time of referral from non-specialist "spoke" hospita	al			
			Not Applicable		Unknown
At	the vascular specialist "hub" hospital				
7a.	. Date of arrival at vascular specialist "hub" hospital				
7b.	Time of arrival in vascular specialist "hub" hospital		Unknown		
			Unknown		
8a.	. Date of the first assessment on arrival in hub hosp	ital:			
			Not Applicable		Unknown
8b.	. Time of the first assessment on arrival in hub hosp		Not Applicable		Unknown
9a.	. Date and time of diagnosis of acute limb ischaemia	_	Not Applicable		Hakaawa
9b.	Date/ time of management plan/ revascularisation	□ plan	Not Applicable / plan to under	_	
			Not Applicable		Unknown
10a.	Date/ time of first procedure If patient did not have a procedure, please select "not ap	olica	ble"		
			Not Applicable		Unknown
10b.	D.Date/ time of subsequent procedure If multiple procedures to treat ALI, please give the date of subsequent procedures, please select "Not Applicable"	f the	final one before	disc	harge. If no
			Not Applicable		Unknown
11.	. Date/ time of discharge from hospital (or death)				
			Unknown		
12.	. Date of readmission to hospital (within 30 days) please select not applicable if the patient was not re-adm	itted	d to hospital		
			Not Applicable		Unknown

		D. Care Prior	to arrival in hospital		
1a.	Did this patient h	nave a history of chronic	limb ischaemia prior to this acute presentation?		
	O yes	O no	○ Unknown		
1b.			ities for intervention or room for improvement		
	O Yes	O No	O Unable to answer		
1c.	. If answered "Yes Please provide de				
2a.	limb ischaemia price prior to the prese	rior to the index hospital	al that led to the transfer to the vascular hub hospital		
	O Yes	O No	O Unable to answer		
2b.	If answered "Yes"		eking advice (pre-admission)?		
	Yes	No No	() Unable to answer		
2c.	. If answered "Yes	•	G shape to anone.		
		timate the length of the	delay		
	○ 1-6 hours○ >2-4 days	○ >6-12 hours○ >4-7 days			
) >2-4 days	O >4-7 days	O >7 days		
	If not listed above,	please specify here			
3a.	_	-	caused a delay in the presentation?		
	O Yes	O No	O Unknown		
3b.	If answered "Yes" Please provide de	" to [3a] then: etails of other patient fac	ctors		
	•	·			
<i>1</i> 2	In your opinion	did any of the delays due	to patient factors impact the outcome?		
ти.	Yes	No	() Unable to answer		
1h	•	•	O shable to dribine.		
70.	If answered "Yes" to [4a] then: Please provide details: (patient factors -delay)				
5a.		ssion to hospital? (Pleas	oportunities to recognise Acute Limb Ischaemia e tick all that apply)		
	Yes - from the p	patient	Yes - from NHS 111		
	Yes - from prim	ary care	Yes - from an urgent treatment centre		
	_	specialist "spoke" hospital"	Yes - Other		
	□ No		☐ Unable to answer		
	Please specify any	additional options here			

"Yes - from an urgent treatment centre", "Yes - from non-specialist "spoke" hospital"", "Yes - Other" or "Unable to answer" to [5a] then: If Yes, please expand on your answer If answered "Yes - from the patient", "Yes - from NHS 111", "Yes - from primary care", "Yes - from an urgent treatment centre", "Yes - from non-specialist "spoke" hospital"" or "Yes - Other" to [5a] then: In your opinion did this affect the outcome Yes	How long was the de please estimate	then: elay?	•	alist "spoke" hospital"" or
"Yes - Other" or "Unable to answer" to [5a] then: If Yes, please expand on your answer If Yes, please expand on your answer If I answered "Yes - from the patient", "Yes - from NHS 111", "Yes - from primary care", "Yes - from an urgent treatment centre", "Yes - from non-specialist "spoke" hospital"" or "Yes - Other" to [5a] then: In your opinion did this affect the outcome Yes No Unable to answer If the patient was seen/assessed in primary care prior to presentation at hospital for the index admission, which of the following occured? ie prior to presentation at spoke hospital for transfer or prior to presentation at hub hospital if presented directly, please select all that apply 6 'P's Diagnosis of suspected Acute Limb Ischaemia Rutherford score Anticoagulants Referral to Vascular hub Referral to Vascular hub Referral to vascular hub Referral to vascular hub Referral to nearest Emergency Department Doppler assessment Other investigations Not applicable - patient was not seen by HCP in primary care prior to presentation to hospital	O >12-24 hours	O >1-2 days		_
"Yes - Other" to [5a] then: In your opinion did this affect the outcome Yes No Unable to answer If the patient was seen/assessed in primary care prior to presentation at hospital for the index admission, which of the following occured? ie prior to presentation at spoke hospital for transfer or prior to presentation at hub hospital if presented directly, please select all that apply 6 'P's Diagnosis of suspected Acute Limb Ischaemia Rutherford score Anticoagulants Referral to Vascular hub Referral to nearest Emergency Department Doppler assessment Other investigations Not applicable - patient was not seen by HCP in primary care prior to presentation to hospital	"Yes - from an urger "Yes - Other" or "Una	nt treatment centre" able to answer" to [', "Yes - from non-speci	
ie prior to presentation at spoke hospital for transfer or prior to presentation at hub hospital if presented directly, please select all that apply 6 'P's Diagnosis of suspected Acute Limb Ischaemia Rutherford score Anticoagulants Referral to Vascular hub Referral to nearest Emergency Department Doppler assessment Other investigations Not applicable - patient was not seen by HCP in primary care prior to presentation to hospital	"Yes - from an urger	nt treatment centre"		
Please specify any additional options here	In your opinion did t	this affect the outco		

E. Attendance at referring, non-specialist "spoke" hospital

E1 Mode of prese	entation	
•		red to vascular centre / "hub" hospital for treatment ospital for treatment
ne patient did no	ot initially present at	a spoke hospital, please skip to next section
bulance		
f answered "Pre nospital for treat	tment" to [1] then:	spital, transferred to vascular centre / "hub"
	O No	O Unknown
		oned on the patient report form (PRF)?
◯ Yes	O No	○ Unknown
n your opinion,	would the patient ha	ve benefitted from being taken directly to a vascular
◯ Yes	O No	Unable to answer
		(delay presenting to spoke hospital)
f answered "Pre	sented at "spoke" ho	spital, transferred to vascular centre / "hub"
Yes Yes	O No	O Unable to answer
		(delay in triage)
	Presented at "s Presented at vi Presented "Presented answered "Presented answered "Presented answered "Presented answered "Presented answered answere	Presented at vascular centre / "hub" he patient did not initially present at bulance If answered "Presented at "spoke" ho hospital for treatment" to [1] then: E2 Was this patient transferred to ho Yes

	atment" to [1] then:	al, transferred to vascular centre / "hub"
appropriate?	was the grade / specialty (of the person making the initial assessment
O Yes	O No	O Unable to answer
hospital for trea	esented at "spoke" hospita atment" to [1] then: inion, was there a delay in	al, transferred to vascular centre / "hub" initial assessment?
O Yes	O No	Unable to answer
b. If answered "Ye E11b How long		
ic. If answered "Ye E11c What was	s" to [5a] then: the reason for the delay	
Clinical Examinatio	n and investigations	
hospital for trea E21a In your op	atment" to [1] then: inion were all necessary as	al, transferred to vascular centre / "hub" ssessments, investigations, imaging and brmed at the non-specialist "spoke" hospital??
O Yes	O No	Unable to answer
h If answered "No	U. A	
but were not: Answers may be i Assessment o Assessment o	multiple, please select all that f Limb pulses f sensation	Assessment of Limb powerAssessment of Compartment Syndrome
but were not: Answers may be in the second of the second	e specify which assessment multiple, please select all that f Limb pulses f sensation	☐ Assessment of Limb power ☐ Assessment of Compartment Syndrome ☐ NEWS2 score
but were not: Answers may be i Assessment o Assessment o	e specify which assessment multiple, please select all that f Limb pulses f sensation	☐ Assessment of Limb power ☐ Assessment of Compartment Syndrome
but were not: Answers may be in the second of the second	e specify which assessment multiple, please select all that f Limb pulses f sensation	Assessment of Limb power Assessment of Compartment Syndrome NEWS2 score Vascular ultrasound
E17 If NO, pleas but were not: Answers may be it Assessment of Doppler asses ECG CTA DSA	e specify which assessment multiple, please select all that f Limb pulses f sensation	Assessment of Limb power Assessment of Compartment Syndrome NEWS2 score Vascular ultrasound MRA
E17 If NO, pleas but were not: Answers may be it Assessment of Doppler asses ECG CTA DSA	te specify which assessment multiple, please select all that if Limb pulses if sensation esment	Assessment of Limb power Assessment of Compartment Syndrome NEWS2 score Vascular ultrasound MRA
E17 If NO, pleas but were not: Answers may be note: Assessment of Assessment of Doppler asses ECG CTA DSA Please specify any a. If answered "Prehospital for trea	re specify which assessment multiple, please select all that f Limb pulses f sensation ssment y additional options here esented at "spoke" hospital atment" to [1] then:	Assessment of Limb power Assessment of Compartment Syndrome NEWS2 score Vascular ultrasound MRA
E17 If NO, pleas but were not: Answers may be note: Assessment of Assessment of Doppler asses ECG CTA DSA Please specify any a. If answered "Prehospital for trea	re specify which assessment multiple, please select all that f Limb pulses f sensation ssment y additional options here esented at "spoke" hospital atment" to [1] then:	Assessment of Limb power Assessment of Compartment Syndrome NEWS2 score Vascular ultrasound MRA other
E17 If NO, pleas but were not: Answers may be not: Assessment of Assessment of Doppler asses ECG CTA DSA Please specify any a. If answered "Prohospital for treatin your opinion Yes b. If answered "Yes	e specify which assessment multiple, please select all that f Limb pulses f sensation sment y additional options here esented at "spoke" hospital then: the twee any assessments on the No. No. S" to [8a] then:	Assessment of Limb power Assessment of Compartment Syndrome NEWS2 score Vascular ultrasound MRA other al, transferred to vascular centre / "hub" r investigations undertaken unnecessarily?
E17 If NO, pleas but were not: Answers may be in the second of the seco	especify which assessment multiple, please select all that for the following please select all the selections are selected at "spoke" hospital then: No No S" to [8a] then: se specify which of the following please selected at "spoke" hospital then: No S" to [8a] then: se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected all that the selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then:	Assessment of Limb power Assessment of Compartment Syndrome NEWS2 score Vascular ultrasound MRA other al, transferred to vascular centre / "hub" r investigations undertaken unnecessarily? Unable to answer
E17 If NO, pleas but were not: Answers may be in the second of the seco	especify which assessment multiple, please select all that for the following please select all the selections are selected at "spoke" hospital then: No No S" to [8a] then: se specify which of the following please selected at "spoke" hospital then: No S" to [8a] then: se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected all that the selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then: Se specify which of the following please selected at "spoke" hospital then:	Assessment of Limb power Assessment of Compartment Syndrome NEWS2 score Vascular ultrasound MRA other al, transferred to vascular centre / "hub" investigations undertaken unnecessarily? Unable to answer lowing investigations were carried out CT arteriogram

		inion, were there any o ne spoke hospital?	delays in the examina	tions/ investigations/imaging
	O Yes	O No	Unknown	
b.	If answered "Ye E24b Duration a	s" to [9a] then: and details of delays		
)a.	hospital for trea	esented at "spoke" hos atment" to [1] then: ial/ working diagnosis		vascular centre / "hub" nia made in the spoke
	O Yes	O No	Unable to ar	nswer
)b	hospital for trea In your opinion,	esented at "spoke" hos atment" to [1] then: was there a delay in d e non-specialist "spoke	iagnosing that the pa	vascular centre / "hub" atient had acute limb
	O Yes	O No	Unable to ar	nswer
	•	•	•	
c.		s" to [10b] then: pinion, did this impact	on the outcome?	
C.		s" to [10b] then: pinion, did this impact No	on the outcome? Unable to ar	
	Yes If answered "Prohospital for trea	pinion, did this impact	Unable to an spital, transferred to	nswer vascular centre / "hub"
	Yes Yes If answered "Prohospital for treate14a Was a Rut	Pinion, did this impact No esented at "spoke" host	Unable to an spital, transferred to	nswer vascular centre / "hub"
la.	If YES, in your o Yes If answered "Prehospital for treated "Add link here Yes If answered "No	esented at "spoke" hose atment" to [1] then: herford classification of No	Unable to an spital, transferred to given at the referring Unknown	nswer vascular centre / "hub"
la	If YES, in your o Yes If answered "Prehospital for treated "Add link here Yes If answered "No	esented at "spoke" hose atment" to [1] then: herford classification of No	Unable to an spital, transferred to given at the referring Unknown	nswer vascular centre / "hub" "spoke" hospital?
la.	If YES, in your o Yes If answered "Prohospital for treated and link here Yes If answered "No F* If No, based of Unknown	esented at "spoke" hose the set of the set o	Unable to an spital, transferred to given at the referring Unknown Se estimate the Ruther	nswer vascular centre / "hub" "spoke" hospital? erford score at this time:
La.	If YES, in your o Yes If answered "Prehospital for treate 14a Was a Ruth Add link here Yes If answered "No F* If No, based of Unknown If not listed above	esented at "spoke" hose the street at "spoke" hose the street at "spoke" hose the street at "spoke" hose the side of the side of the symptoms please of the symptoms please specify here	Unable to an spital, transferred to given at the referring Unknown Se estimate the Ruther	nswer vascular centre / "hub" "spoke" hospital? erford score at this time:
la.	If YES, in your o Yes If answered "Prehospital for treate 14a Was a Ruth Add link here Yes If answered "No F* If No, based o Unknown If not listed above If answered "Ye	esented at "spoke" hose the street at "spoke" hose the street at "spoke" hose the street at "spoke" hose the side of the side of the symptoms please of the symptoms please specify here	Unable to an spital, transferred to given at the referring Unknown Se estimate the Ruther	nswer vascular centre / "hub" "spoke" hospital? erford score at this time:
La. Lb.	If YES, in your o Yes If answered "Prehospital for treated a Was a Ruth Add link here Yes If answered "No F* If No, based o Unknown If not listed above If answered "Yee E14b What was If answered "Yee If answered "Yee If answered "Yee	esented at "spoke" hose atment" to [1] then: herford classification of the symptoms please	Unable to an spital, transferred to given at the referring Unknown See estimate the Ruthe Ulb	vascular centre / "hub" "spoke" hospital? erford score at this time:

to [11d] then: not done or was incore at this time: Rutherford score	rrect, based on the symptoms, please estimate the
diately threatened, salv	ned geable if promptly treated ageable with immediate re-vascularization ssue loss/ permanent nerve damage inevitable
please specify here	
tment" to [1] then:	spital, transferred to vascular centre / "hub" in the referring "spoke" hospital?
O No	Unable to answer
tment" to [1] and "Ye:	spital, transferred to vascular centre / "hub" s" to [12a] then: admit the patient appropriate?
O No	O Unable to answer
tment" to [1] then:	spital, transferred to vascular centre / "hub" erring "spoke" hospital?
O No	O Unable to answer
" to [13a] then: nent provided approp	riate?
O No	O Unable to answer
to [13a] then: twas carried out at the e been?	ne referring "spoke " hospital, in your opinion,
O No	Unable to answer
" to [13c] then: details:	
tment" to [1] then:	spital, transferred to vascular centre / "hub" analgesia (at the referring, non-specialist "spoke"
O No	Unable to answer
	not done or was income at this time: Rutherford score not immediately threater not immediately threater nolly threatened, salvaddiately threatened,

Re	ferral to Hub Hospital	(Specialist Vascular Ce	entre)
15a	hospital for treatmen	t" to [1] then:	transferred to vascular centre / "hub"
	O Yes	O No	O Unknown
15b	.If answered "Yes" to E28c In your opinion,	[15a] then: was this appropriate?	
	O Yes	O No	O Unknown
15c	. If answered "No" to [E28c In your opinion,	15a] then: should a discussion ha	ve happened?
	O Yes	O No	O Unknown
	.If answered "Present hospital for treatmen	ve been done instead?	Who should have been involved? transferred to vascular centre / "hub" ar specialist centre?
	O Yes	O No	O Unknown
	ambulance delay, ima	ails (including duration aging required pretrans	of delay, reasons (e.g. lack of beds, ifer), patient deterioration)
16 c	If answered "Yes" to	[16a] then: he delay impact on the	outcome?
	Yes	No	Unable to answer
	O les	O NO	O oliable to allower

F. Admission to vascular specialist "Hub" Hospital & Initial Management

1.	F1 How did the patie	ent present to the	e hub hospital / specialist vascular centre?
	O Referral from GP/P	rimary Care transfe	r
	O Referral from NHS	111	
	Emergency Depart	· ·	
		ergency Department	•
	Ambulance attendOther ambulance a	-	U
	Referral from vasc		
	Referral from anot	• •	
		•	
	If not listed above, ple	ase specify here	
An	nbulance		
2.	If answered "Ambula	ance attendance.	blue light to ED" or "Other ambulance attendance"
	to [1] then:		-
	F3 Was a bypass pro	otocol to transfer	direct to vascular centre / hub hospital used?
	O Yes	O No	O Unknown
3.	If answered "Ambulato [1] then:	ance attendance,	blue light to ED" or "Other ambulance attendance"
	F4 Was acute limb is	schaemia mentior	ned on the PRF?
	O Yes	O No	O Unknown
4a.			ry Department (other hospital)", "Ambulance
			er ambulance attendance" to [1] then: Fer to hospital by ambulance?
	O Yes	O No	O Unable to answer
4b.	If answered "Yes" to	o [4a] then:	
	F please provide de	tails:	
		_	
Pre	esentation to Hospit	al	
5a.	F In your opinion did	d any triage or str	reaming process delay assessment?
	O Yes	O No	O Unable to answer

nitial Assessmeı	nt in Vascular Specialist "h	ub" hospital
	-	Ity of the person making the initial clinical
assessment a		,
O Yes	O No	Unable to answer
a. F26a In your c	pinion, were there delays	in the initial assessment at the hub hospital
O Yes	O No	O Unknown
h If answered "	res" to [7a] then:	
	and details of delays	
F26b Duration	ion, was the initial assessi	ment satisfactory?
F26b Duration	ion, was the initial assessi	ment satisfactory? O Unable to answer
a. F In your opin in terms of time Yes b. If answered "I	ion, was the initial assessieframe and content	Unable to answer
a. F In your opin in terms of time Yes b. If answered "IF In your opin"	ion, was the initial assessing the second content No No" to [8a] then: ion did this impact the out	Unable to answer
a. F In your opin in terms of time Yes b. If answered "I	ion, was the initial assessieframe and content	Unable to answer
a. F In your opin in terms of time Yes b. If answered "I F In your opin Yes 9. F10 In the em	ion, was the initial assession and content	Unable to answer Come? Unable to answer the case discussed with the duty / on call senion
a. F In your opin in terms of time Yes b. If answered "I F In your opin Yes 9. F10 In the em	ion, was the initial assession of the content of the latest of the lates	Unable to answer Come? Unable to answer the case discussed with the duty / on call senion
a. F In your opin in terms of time. Yes b. If answered "I F In your opin. Yes 9. F10 In the em vascular surge. Yes	ion, was the initial assession of the content of the latest of the lates	Unable to answer Come? Unable to answer the case discussed with the duty / on call senion plogist?
a. F In your opin in terms of time Yes b. If answered "I F In your opin Yes 9. F10 In the em vascular surge Yes NA- patient	ion, was the initial assessing frame and content No No No No" to [8a] then: ion did this impact the out No ergency department, was seen or Interventional radio	Unable to answer Come? Unable to answer the case discussed with the duty / on call senion plogist? No

_	O No	Unknown	
	No" to [10a] then: Id have been done better?		
- 1			£
	ion, were all necessary inv		tormea?
O Yes	O No	O Unable to answer	
	No" to [11a] then: e following investigations v	was missing?	
	been carried out for this patie		
_	rasound CTA	☐ MRA	☐ ECG
Doppler			
Please specify a	ny additional options here		
.F In your opin	ion, were any investigation	ns/imaging performed un	inecessarily?
.F In your opin	ion, were any investigation No	ns/imaging performed un O Unable to answer	inecessarily?
O Yes	_		inecessarily?
Yes	O No	O Unable to answer	
Yes If answered "Y Which of the f	O No Yes" to [12a] then:	O Unable to answer	
Yes If answered "Yes Which of the f	○ No Yes" to [12a] then: Following investigations we rasound □ CT arteriogram	Unable to answer	arily?
Yes If answered "Yes Which of the f	○ No Yes" to [12a] then: following investigations we	Unable to answer	arily?
Yes If answered "Yes Which of the f	○ No Yes" to [12a] then: Following investigations we rasound □ CT arteriogram	Unable to answer	arily?
Yes If answered "Yes Which of the f	○ No Yes" to [12a] then: Following investigations we rasound □ CT arteriogram	Unable to answer	arily?
Yes If answered "Yes Which of the f	○ No Yes" to [12a] then: Following investigations we rasound □ CT arteriogram	Unable to answer	arily?
Yes If answered "Yes Which of the f Vascular ult Please specify a agnosis of ALI If In your opin	○ No Yes" to [12a] then: Following investigations we rasound □ CT arteriogram	Unable to answer	arily?
Yes If answered "Yes Which of the f Vascular ult Please specify a agnosis of ALI If In your opin	○ No Yes" to [12a] then: Following investigations we are assound □ CT arteriogram any additional options here	Unable to answer	arily?
Yes o.If answered "Yes which of the f Vascular ult Please specify a agnosis of ALI o.F In your opin Vascular Specify Yes No	No Yes" to [12a] then: Following investigations we reasound	Unable to answer	arily?
Yes If answered "Yes Which of the f Vascular ult Please specify a agnosis of ALI Fin your opin Vascular Specify Yes No Unable to a	No Yes" to [12a] then: Following investigations we reasound	Unable to answer	arily?

	If answered "Yes F Please provide	s" to [13a] then: details (delay in d	iagnosis)	
	F17 Was the Rut hospital)?	herford Acute Limb	o Ischaemia category doc	umented (at the Hub
	O Yes	○ No	O Unknown	
	If answered "No'		ase estimate the Rutheri	iord score at this time:
	O IIb- Limb imme	ediately threatened, s	vageable if promptly treated alvageable with immediate in or tissue loss/ permanent ner	re-vascularization
	If not listed above,	please specify here		
	If answered "Yes F If YES was the	s" to [14a] then: Rutherford score c	orrect?	
	O Yes	O No	Unable to ans	swer
	If answered "Yes F18 What was it?			
	O I	○ Ila	O IIp	O III
	If answered "No' F If the score wa score at this time	s incorrect, based	on the symptoms please	estimate the Rutherford
	O I	○ IIa	O IIp	O III
	F In your opinion ST3 (or equivalent	n, was there a delay o) or above	y in senior review?	
	O Yes	○ No	O Unable to ans	swer
	If answered "Yes Please give deta	" to [14f] then: ils (delay senior re	view)	
 5a.	F Did the patient	t undergo a consult	ant review prior to unde	rgoing a procedure for ALI?
	○ Yes ○ No	-	p. 10. 10 and	. gog
	Unable to answNot applicable	ver (no consultant reviev	v but no procedure)	
	If answered "No'	' to [15a] then:		io mationt base bases
	Fif not reviewed Yes	No	n your opinion, should th () Unable to ans	-
	O 163	O NO	O chable to ans	> VV € I

Acute Limb Ischaemia (ALI)?					
O Yes	O No	O Unable to answer			
. F Was this pati	ent admitted to a war	d in the Vascular Specialist "Hub" hospital?			
•	appropriate for this patie				
•	y opinion, they should not				
•	-	tre and this was appropriate tre but this was not appropriate			
O Unknown					
If not listed above	e, please specify here				
ecision making -	treatment planning				
a.Was the patien	it's care plan discussed	d with appropriate clinicians?			
() Yes	O No	O Unable to answer			
•	o" to [18a] then:				
If not, please e					
a.Did this discuss	sion occur within an a	ppropriate timeframe?			
_	sion occur within an ap				
O Yes	O No	opropriate timeframe? O Unable to answer			
O Yes	○ No o" to [19a] then:	O Unable to answer			
O Yes	O No	O Unable to answer			
O Yes	○ No o" to [19a] then:	O Unable to answer			
O Yes b.If answered "No If no, please gi	○ No o" to [19a] then: ve details (timeframe	O Unable to answer of discussion)			
Yes o.lf answered "No lf no, please gi	○ No o" to [19a] then: ve details (timeframe	O Unable to answer of discussion)			
Yes o.lf answered "No lf no, please give a.F In your opinion	No o" to [19a] then: ve details (timeframe on was there a delay in	O Unable to answer of discussion) The decision making/ treatment planning for this			
Yes o.lf answered "No lf no, please give serious give seri	No o" to [19a] then: ve details (timeframe on was there a delay in	O Unable to answer of discussion)			
Yes o.lf answered "No lf no, please give a.F In your opinion patient? Yes o.lf answered "Yes	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then:	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			
Yes o.lf answered "No lf no, please give a.F In your opinion patient? Yes o.lf answered "Yes	No o" to [19a] then: ve details (timeframe on was there a delay in	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			
Yes o.lf answered "No lf no, please give a.F In your opinion patient? Yes o.lf answered "Yes	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then:	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			
Yes o.lf answered "No lf no, please give a.F In your opinion patient? Yes o.lf answered "Yes	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then:	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			
Yes o.lf answered "No lf no, please give a.F In your opinion patient? Yes o.lf answered "Yes	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then:	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			
Yes o.lf answered "No lf no, please give a.F In your opinion patient? Yes o.lf answered "Yes	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then:	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			
Yes o.lf answered "No lf no, please give a.F In your opinion patient? Yes o.lf answered "Yes	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then:	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			
Yes o.lf answered "No lf no, please give a.F In your opinion patient? Yes o.lf answered "Yes	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then:	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			
Yes o.lf answered "No lf no, please give a.F In your opinion patient? Yes o.lf answered "Yes	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then:	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			
Yes o.lf answered "No lf no, please give a.F In your opinion patient? Yes o.lf answered "Yes	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then:	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			
Yes o.lf answered "No lf no, please give a.F In your opinion patient? Yes o.lf answered "Yes	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then:	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			
o.If answered "No If no, please gives." a.F In your opinion patient? O Yes b.If answered "Yes F Please provid	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then: de details (delay in dec	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			
o. If answered "No If no, please gives." a.F In your opinion patient? O Yes b. If answered "Yes F Please provides." c. If answered "Yes F Did the delay	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then: le details (delay in dec	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer sision making)			
o.If answered "No If no, please gives." a.F In your opinion patient? O Yes b.If answered "Yes F Please provides."	No o" to [19a] then: ve details (timeframe on was there a delay in No es" to [20a] then: le details (delay in dec	O Unable to answer of discussion) The decision making/ treatment planning for this O Unable to answer			

O Yes	O No	Unable to answer
	o" to [21a] then: le details (inappropria	te/ missing medical interventions)
.F Did the patie	nt receive appropriate	e analgesia (in the vascular specialist "hub" hospital
O Yes	O No	Unable to answer
	o" to [22a] then: le details (analgesia)	
r riease provid	e details (allaigesia)	
		lay in the starting of any of these treatments? O Unknown
.F29a In your op O Yes .If answered "Yes	oinion, was there a de	○ Unknown
.F29a In your op O Yes o.lf answered "Yes	oinion, was there a del	○ Unknown
.F29a In your op O Yes o.lf answered "Yes	oinion, was there a del	○ Unknown
.F29a In your op O Yes O.If answered "Yes	oinion, was there a del	○ Unknown
.F29a In your op O Yes o.lf answered "Yes	oinion, was there a del	○ Unknown
.F29a In your op O Yes O.If answered "Yes	oinion, was there a del	○ Unknown

G. Specialist Management: First Procedure

	tient had no surg			e only, p	olease select 'NO' for Questio
		en skip to Section I		- '	
2a. G0a I	Did this patient	: undergo a surg	ical/IR/hybrid procedur	re	
O Ye	es	O No	Unknown		
G In	swered "No" to your opinion, w edure?		iate decision to not tre	eat this	patient with surgery/ IR
O Ye	es	O No	O Unable to a	nswer	
	swered "No" to Please give det				
	swered "Yes" to your opinion, w		n appropriately?		
O Ye	es	O No	O Unable to a	nswer	O Not applicable
	swered "Yes" to /hich procedure				
Si Th Fe Ai IR Si St	urgical: Fogarty / hrombolysis emoral endartect ngioplasty R Mechanical Thro urgical thromboe	omy ombectomy mbolectomy	mbolytic therapy y / Over the wire embolec	ctomy/ th	nrombectomy
Please	e specify any add	ditional options her	·e		
1.1003	- speen y any aut				

4b.	If answered "Amputa Type of amputation	tion" to [4a] then:		
	O Above knee O Transmetatarsal	O Below knee O Digital	O Above elbow	O Below elbow
	If not listed above, plea	se specify here		
4c.	If answered "Yes" to H In your opinion, wa	s the correct proced	-	
4d.	Yes If answered "No" to [○ No 4a] then:	Unable to answer	
	G Please provide det	ails (incorrect proced	dure)	
_				
4e.	If answered "No" to [G In your opinion, co		ed on the outcome for th	nis patient?
	O Yes	O No	O Unable to answer	
4f.	If answered "Yes" to		dure impact outcome)	
	Trease provide deal	uns (meorreet proces	dure impact outcome,	
5a.	If answered "Yes" to G3 Location procedu	- <u>-</u>		
	O Hybrid theatre		O Surgical theatre	
	Radiology theatresUnknown		Surgical theatre wit	th mobile image intensifier
	If not listed above, plea	se specify here		
5b.	If answered "Yes" to G In your opinion, wa		formed in the correct loc	cation?
	O Yes	O No	Unable to answer	
5c.	If answered "No" to [G Please provide deta		on)	
6a.	If answered "Yes" to G Was the grade of the		n appropriate?	
	O Yes	O No	O Unable to answer	
6b.	If answered "Yes" to G Was the specialty of		cian appropriate?	
	O Yes	O No	Unable to answer	

7	. If answered "Ye G Was the grade	s" to [2a] then: e of anaesthetist app	propriate?
	O Yes	○ No	O Unable to answer
8a		any delays in the pr	ocedure being carried out? rocedure had been made
	O Yes	O No	O Unable to answer
8b	. If answered "Ye G7b The delay wanswers may be in Medical stabil Availability of Availability of	vas due to: multiple, please select di isation theatre space	all that apply
	_	Surgeon/ Interventional nursing staff making on call team	ll Radiologist
	Please specify any	y additional options her	e
8d	. If answered "Ye G Did this delay	s" to [8a] then: impact the outcome	? O Unable to answer
	ost-Procedure . If answered "Ye		
	_	_	d and documented immediately post procedure?
9b		No s" to [2a] and "Yes" b condition improve?	
	O Yes	O No	O Unknown
10a	following surge	nion, was the patient ry/ IR?	t transferred to the most appropriate location
	O Yes	○ No	O Unable to answer

	and on your answer.	
If answered "Yes		following this procedure?
Yes	e any complications i	following this procedure? () Unknown
•	s" to [11a] then:	O ONKIOWII
	n, were any complica	ations avoidable?
O Yes	O No	Unable to answer
	s" to [11a] then:	tions managed appropriately?
Yes	No No	Unable to answer
•	s" to [11a] then:	G chance to another
		cations affect the outcome of this patient?
O Yes	O No	○ Unknown
	s" to [11d] then:	
G10d Please giv	e details	
If answered "Yes G18 Was an app O Yes - a comple O Yes, but incom O Monitoring pla	s" to [2a] then: propriate monitoring/ ete plan documenting fr nplete plan an without escalation pr	
If answered "Yes G18 Was an app O Yes - a comple O Yes, but incom O Monitoring pla O Escalation plan O Unknown	s" to [2a] then: propriate monitoring/ ete plan documenting fronplete plan	requency of monitoring and escalation protocols was enacted otocols
If answered "Yes G18 Was an app O Yes - a comple O Yes, but incom O Monitoring pla O Escalation plan O Unknown	s" to [2a] then: propriate monitoring/ ete plan documenting fr nplete plan an without escalation pr n but no complete mon	requency of monitoring and escalation protocols was enacted otocols
If answered "Yes G18 Was an app O Yes - a comple O Yes, but incom O Monitoring pla O Escalation plan O Unknown	s" to [2a] then: propriate monitoring/ ete plan documenting fr nplete plan an without escalation pr n but no complete mon	requency of monitoring and escalation protocols was enacted otocols
If answered "Yes G18 Was an app O Yes - a comple O Yes, but incom O Monitoring plate O Unknown If not listed above O I I I I I I I I I I I I I I I I I I	s" to [2a] then: propriate monitoring/ ete plan documenting from the plan in without escalation propriate monitoring from the plan in but no complete monitoring from the propriate from	requency of monitoring and escalation protocols was enacted otocols

			iate anticoagulation i.e. IV he	eparin , LMWH heparin,	
O res O wor applicable	O Yes	O No	O Unable to answer	Not applicable	

	ii. Specialist M	
a. H1 Did this patier	nt require further :	surgical/IR interventions?
O Yes	O No	O Unable to answer
b. If answered "Yes' H Did they under	" to [1a] then: go subsequent pro	ocedures?
O Yes	O No	O Unable to answer
c. If answered "No" H1b Please give o		to [1a] then: bsequent procedures)
Procedure 2 RE: 2nd procedure per	formed to treat ALI	
a. If answered "Yes' H In your opinion	" to [1b] then: , was consent take	en appropriately?
O Yes	O No	O Unable to answer O Not applicable
H If No, Please pr	ovide details (inap	ppropriate consent process)
3. If answered "Yes'		nut?
	" to [1a] then: dure was carried o	out?
H3b Which proced 2nd procedure		
#3b Which procedure 2nd procedure Percutaneous ca Surgical: Fogart	dure was carried o	
H3b Which proceed 2nd procedure Percutaneous co Surgical: Fogart Thrombolysis	dure was carried o atheter-directed thro ty / bypass	
H3b Which proced 2nd procedure Percutaneous co Surgical: Fogart Thrombolysis Femoral endarte	dure was carried o atheter-directed thro ty / bypass	
H3b Which proceed 2nd procedure Percutaneous call Surgical: Fogart Thrombolysis Femoral endarted Angioplasty	dure was carried on atheter-directed through ty / bypass ectomy	
H3b Which proceed 2nd procedure Percutaneous call Surgical: Fogart Thrombolysis Femoral endarted Angioplasty IR Mechanical T	dure was carried on atheter-directed through the directed through the di	
H3b Which proceed 2nd procedure Percutaneous Call Surgical: Fogart Thrombolysis Femoral endarted Angioplasty IR Mechanical T	dure was carried of atheter-directed throaty / bypass ectomy Thrombectomy booembolectomy	ombolytic therapy
H3b Which proceed 2nd procedure Percutaneous Call Surgical: Fogart Thrombolysis Femoral endarted Angioplasty IR Mechanical T	dure was carried on atheter-directed throaty / bypass ectomy Thrombectomy coembolectomy ical approach: Fogart	
H3b Which proceed 2nd procedure Percutaneous call Surgical: Fogart Thrombolysis Femoral endarte Angioplasty IR Mechanical TSurgical thrombolysis Hybrid mechanical	dure was carried on atheter-directed throaty / bypass ectomy Thrombectomy coembolectomy ical approach: Fogart	ombolytic therapy
H3b Which proces 2nd procedure Percutaneous ca Surgical: Fogart Thrombolysis Femoral endarte Angioplasty IR Mechanical T Surgical thromb Hybrid mechani Stent/ stent gra	dure was carried on atheter-directed throaty / bypass ectomy Thrombectomy coembolectomy ical approach: Fogart	ombolytic therapy
H3b Which proces 2nd procedure Percutaneous ca Surgical: Fogart Thrombolysis Femoral endarte Angioplasty IR Mechanical T Surgical thromb Hybrid mechani Stent/ stent gra Unknown Amputation	dure was carried of atheter-directed throaty / bypass sectomy Thrombectomy coembolectomy ical approach: Fogart afts	ombolytic therapy ty / Over the wire embolectomy/ thrombectomy
H3b Which proces 2nd procedure Percutaneous ca Surgical: Fogart Thrombolysis Femoral endarte Angioplasty IR Mechanical T Surgical thromb Hybrid mechani Stent/ stent gra Unknown Amputation	dure was carried on atheter-directed throaty / bypass ectomy Thrombectomy coembolectomy ical approach: Fogart	ombolytic therapy ty / Over the wire embolectomy/ thrombectomy
H3b Which proces 2nd procedure Percutaneous ca Surgical: Fogart Thrombolysis Femoral endarte Angioplasty IR Mechanical T Surgical thromb Hybrid mechani Stent/ stent gra Unknown Amputation	dure was carried of atheter-directed throaty / bypass sectomy Thrombectomy coembolectomy ical approach: Fogart afts	ombolytic therapy ty / Over the wire embolectomy/ thrombectomy
H3b Which proces 2nd procedure Percutaneous ca Surgical: Fogart Thrombolysis Femoral endarte Angioplasty IR Mechanical T Surgical thromb Hybrid mechani Stent/ stent gra Unknown Amputation Please specify any a	atheter-directed throaty / bypass ectomy Thrombectomy coembolectomy ical approach: Fogart ofts additional options he	ty / Over the wire embolectomy/ thrombectomy
H3b Which proces 2nd procedure Percutaneous ca Surgical: Fogart Thrombolysis Femoral endarte Angioplasty IR Mechanical T Surgical thromb Hybrid mechani Stent/ stent gra Unknown Amputation Please specify any a	atheter-directed throaty / bypass ectomy Thrombectomy coembolectomy ical approach: Fogart ofts additional options he	ombolytic therapy ty / Over the wire embolectomy/ thrombectomy

	If answered "No" to H Please provide d		ect procedure impact ou	itcome)
	If answered "Yes" t H In your opinion, t		dure performed in the o	correct location?
	O Yes	O No	O Unable t	to answer
	If answered "No" to H Please provide d		ect location)	
	If answered "Yes" t		g clinician appropriate?	
	() Yes	() No	○ Unable t	
	If answered "Yes" t	to [1b] then:	ating clinician appropria	
	○ Yes	O No	O Unable t	to answer
	If answered "Yes" t H Was the grade of		appropriate?	
	O Yes	O No	O Unable t	co answer
	H9a Was there a do Yes If answered "Yes" the delay was	No [7a] then:	d procedure being carri	
	☐ Medical stabilisat☐ Lack of medical s	ion 🔲	Lack of theatre space Lack of nursing staff	☐ Lack of IR space ☐ Unknown / Not recorded
	Please specify any ac	Iditional options	s here	
	 If answered "Yes" t		_	
с.	H did this delay im	pact the outco	ome?	
C.	H did this delay im Yes	No No	ome?	to answer

8a. If answered "Yes" to [1a] then: H10a Was the limb condition assessed and documented immediately post-procedure? (No Unknown Not applicable 8b. If answered "Yes" to [8a] then: H10b Did the limb condition improve? O No Yes Unknown 9. If answered "Yes" to [1a] then: H21a In your opinion, was the patient transferred to the most appropriate location following surgery/ IR? Yes (No Unable to answer 10a.If answered "Yes" to [1a] then: H12a Were there any complications of the procedure O Yes (No Unknown 10b.If answered "Yes" to [10a] then: H In your opinion, were any complications avoidable? Yes (No Unable to answer 10c. If answered "Yes" to [10a] then: H12c In your opinion, did the complications affect the outcome of this patient? Yes (No Unknown 10d.If answered "Yes" to [10c] then: **H12d Please give details** 11. If answered "Yes" to [1b] then: H Was an appropriate monitoring/ escalation plan for deterioration documented? O Yes - a complete plan documenting frequency of monitoring and escalation protocols was enacted O Yes, but incomplete plan Monitoring plan without escalation protocols Escalation plan but no complete monitoring plan Unknown If not listed above, please specify here... 12. If answered "Yes" to [1a] then: H17a Did this patient receive appropriate analgesia post-operatively? Yes O No Unable to answer

Post-Procedure 2

O Yes	○ No	Unable to answer
Procedure 3 etc		
4. If answered "Ye H22 Did this pa		r surgical/IR interventions?
O Yes	○ No	O Unknown
a.lf answered "Y H27 Procedure	es" to [14] then: s performed (after 1s	t 2 procedures)
_	s catheter-directed thro	mbolytic therapy
☐ Thrombolysis	s al Thrombectomy	
_	hombus extraction	
Surgical: Fog		
	mboembolectomy	
☐ Endartectom	у	
Bypass surge	ery	
Hybrid mech	anic approach: Fogarty ,	Over the wire embolectomy/ thrombectomy and Rx underlying
Amputation:	AK/ EKA/ Trans-metatars	sal/ digital/ other
Stents		
Angioplasty		
Unknown		
Dlooso specify or	av additional options has	
riease specify at	ny additional options her	е
h If answered "V	es" to [14] then:	mun and true in out numeral 2
	non, was the correct	
Hb In your opir		
	O No	Unable to answer
Hb In your opin Yes a.If answered "Yes	○ No es" to [14] then:	Unable to answer
Hb In your opin Yes a.If answered "Yes	○ No	O Unable to answer
Hb In your opin Yes a.If answered "Yes	○ No es" to [14] then:	O Unable to answer
Hb In your opin Yes Fa.If answered "Yes Hb In your opin	es" to [14] then: nion, was consent tak	O Unable to answer en appropriately?
Hb In your opin Yes Fa.If answered "Yes Hb In your opin Yes Sb.If answered "N	es" to [14] then: nion, was consent tak No o" to [16a] then:	O Unable to answer en appropriately?
Hb In your opin Yes Fa.If answered "Yes Hb In your opin Yes Sb.If answered "N	es" to [14] then: nion, was consent tak No o" to [16a] then:	Unable to answeren appropriately?Unable to answer
Hb In your opin Yes Fa.If answered "Yes Hb In your opin Yes Sb.If answered "N	es" to [14] then: nion, was consent tak No o" to [16a] then: e provide details (ina	Unable to answeren appropriately?Unable to answer
Hb In your opin Yes Fa.If answered "Yes Hb In your opin Yes Sb.If answered "N Hb If No, Pleas	es" to [14] then: nion, was consent tak No o" to [16a] then: e provide details (ina	Unable to answeren appropriately?Unable to answer
Hb In your opin Yes a.If answered "Yes Hb In your opin Yes b.If answered "N Hb If No, Pleas a.If answered "Yes	es" to [14] then: nion, was consent tak No o" to [16a] then: e provide details (ina es" to [14] then: procedure done	Unable to answeren appropriately?Unable to answer
Hb In your opin Yes Fa. If answered "Yes Fib. If answered "Nes Fib. If Answered "Nes Fib. If Answered "Nes Fib. If Answered "Yes F	es" to [14] then: nion, was consent tak No o" to [16a] then: e provide details (ina es" to [14] then: procedure done	en appropriately? Unable to answer Unable to answer ppropriate consent process)
Hb In your opin Yes Fa.If answered "Yes Sb.If answered "N Hb If No, Pleas Fa.If answered "Yes H25 Location p Hybrid theat	es" to [14] then: nion, was consent tak No o" to [16a] then: e provide details (ina es" to [14] then: procedure done	 Unable to answer en appropriately? Unable to answer ppropriate consent process) Radiology theatres
Hb In your opin Yes Fa.If answered "Yes Sb.If answered "N Hb If No, Pleas Fa.If answered "Yes Ga.If answered	es" to [14] then: nion, was consent tak No o" to [16a] then: e provide details (ina es" to [14] then: procedure done	 Unable to answer Unable to answer Unable to answer ppropriate consent process) Radiology theatres Surgical theatre with mobile image intensifier
Hb In your opin Yes Fa. If answered "Yes Fib. If answered "Nes Fib. If answered "Nes Fib. If answered "Yes F	es" to [14] then: nion, was consent tak No o" to [16a] then: e provide details (ina es" to [14] then: procedure done re atre	 Unable to answer Unable to answer Unable to answer ppropriate consent process) Radiology theatres Surgical theatre with mobile image intensifier
Hb In your opin Yes Fa. If answered "Yes Fib. If answered "Nes Fib. If answered "Yes	es" to [14] then: nion, was consent tak No o" to [16a] then: e provide details (ina es" to [14] then: procedure done re atre ee, please specify here es" to [14] then:	 Unable to answer Unable to answer Unable to answer ppropriate consent process) Radiology theatres Surgical theatre with mobile image intensifier

18a	.If answered "Yes" H28a Was there a			ing carried out	t?
	O Yes	O No		O Unable to a	nswer
18b	.lf answered "Yes" H28b The delay w		en:		
	☐ Medical stabilisa☐ Lack of medical		☐ Lack of thea☐ Lack of nurs		☐ Lack of IR space ☐ Unknown / Not recorded
	Please specify any a	dditional opt	ions here		
18c	.lf answered "Yes" Hb did this delay i				
	O Yes	O No		O Unable to a	nswer
19a	.lf answered "Yes" Hb In your opinior following surgery/	n, was the p		red to the mos	st appropriate location
	O Yes	O No		O Unable to a	nswer
19b	.lf answered "Yes" H31a Was the liml			documented im	nmediately post-procedure?
	O Yes	O No		O Unknown	O Not applicable
19c	.If answered "Yes" H31b Did the limb				
	O Yes	O No		O Unknown	
20a	.If answered "Yes" Hb Were there an			this procedure	?
	O Yes	O No		O Unable to a	answer
20b	.lf answered "Yes" Hb In your opinior			managed appro	opriately?
	O Yes	O No		O Unable to a	nswer
20c	.If answered "Yes" Hb In your opinior			avoidable?	
	O Yes	O No		O Unable to a	nswer
20d	.lf answered "Yes" Hb In your opinior			fect the outcor	ne of this patient?
	O Yes	O No		O Unable to a	nswer
21a	.If answered "Yes" Hb Did this patien			gesia perioper	ratively/ post-operatively?
	O Yes	O No		O Unable to a	nswer
21b	.lf answered "Yes" Hb Did the patient DOAC/NOAC, warf	t receive ap		coagulation i.e.	. IV heparin , LMWH heparin,
	O Yes	O No		O Unable to a	answer

I. Discharge Planning & Follow Up

			Unknown
 <u>2 -</u>	Discharge locatio	.n	
	Usual residence Home with pack Nursing / reside Died in hospital Step-down / Rel Back to "spoke" Other inpatient Unknown	e kage of care ential home habilitation unit hospital that referred	d the patient
	home", "Step-dov patient", "Other i	vn / Rehabilitation ι npatient unit" or "U	ne with package of care", "Nursing / residential unit", "Back to "spoke" hospital that referred the Unknown" to [2] then: ischarge planning for this patient?
	O Yes	O No	O Unable to answer
	If answered "Yes' I Please give deta	' to [3a] then: ails (RFI DCplanning))
	l Please give deta		
	l Please give deta	ails (RFI DCplanning	
a.	I Please give deta I Did the patient of Yes If answered "Yes"	die during this hosp No ' to [4a] then:	oital admission?
).	I Please give deta I Did the patient of Yes If answered "Yes"	die during this hosp No ' to [4a] then:	oital admission? O Unable to answer
a.	I Please give deta I Did the patient of the patien	die during this hosp No to [4a] then: tificate present in to No to [4b] then:	oital admission? O Unable to answer
).	I Please give deta I Did the patient of the patien	die during this hosp No to [4a] then: tificate present in to No to [4b] then:	oital admission? Unable to answer he case note record?
a. c.	I Please give deta I Did the patient of Yes If answered "Yes' I is the death cert Yes If answered "Yes' I what was listed	die during this hosp No to [4a] then: tificate present in the No to [4b] then: as the cause of dea	Dital admission? Unable to answer the case note record? Output Distribution of the case in the case
).).	I Please give deta I Did the patient of Yes If answered "Yes' I is the death cert Yes If answered "Yes' I what was listed	die during this hosp No to [4a] then: tificate present in to No to [4b] then: as the cause of dea	Dital admission? Unable to answer the case note record? Output Distribution of the case in the case
i.	I Please give deta I Did the patient of the patien	die during this hosp No to [4a] then: tificate present in the No to [4b] then: as the cause of dea to [4a] then: was the death avoi	bital admission? Unable to answer the case note record? ath (primary/ secondary) dable? Unable to answer
a. o.	I Please give deta I Did the patient of the patien	die during this hosp No to [4a] then: tificate present in to No to [4b] then: as the cause of dea to [4a] then: was the death avoi	bital admission? Unable to answer the case note record? ath (primary/ secondary) dable? Unable to answer
a. b.	I Please give deta I Did the patient of Yes If answered "Yes' I is the death cert Yes If answered "Yes' I what was listed If answered "Yes' I in your opinion, of Yes If answered "Yes' In answered "Yes' In your opinion, of Yes	die during this hosp No to [4a] then: tificate present in the No to [4b] then: as the cause of dea to [4a] then: was the death avoi No to [4a] then: was the death avoi No to [4a] then: vas the patient's de	Dital admission? Unable to answer The case note record? Oth (primary/ secondary) Idable? Unable to answer Path predictable? Unable to answer

4g. If answered "Ye Please give det		ı: ⁄e care provided			_
5. If answered "No J9 Did the patie		: 80 days of admis	sion		
O Yes	O No	(Unknown		
6a. If answered "No I Is there a disc		: ry in the case no	tes?		
O Yes	O No	(O Unable to ar	nswer	
6b. If answered "Ye I In your opinio		n: missing from the	e discharge su	ummary?	
O Yes	O No	(O Unable to ar	nswer	
6c. If answered "Ye I What is missin Please select all t	ng from the dis	n: scharge summar	y:		
Referral for p Risk of return Telephone nu Details of foll	advice ommunity service sychological sup of symptoms imber for patien ow-up appointmorescribed at dis	ces port t to call if they hav ent with vascular s	-	a result	
Please specify an	y additional opt	ions here			
7a. If answered "No J4 Long term ris					
☐ None docume ☐ Smoking cess ☐ Occupational ☐ Lipid lowering	sation Therapy	Exercise Vaping cessat Physiotherapy Diabetes man	,	☐ Antiplatelets ☐ COMPASS regimen ☐ Anti-coagulation ☐ Unknown	
Please specify an	y additional opt	ions here			7
7b. If answered "No			nco annue	ato?	_
Yes	erm risk mana () No	gement/ surveila	ance appropri O Unable to ar		
O .es	<u> </u>	`	O STABLE LO AL		

home", "Step-de patient", "Other	own / Rehabilitation r inpatient unit" or "	ne with package of care", "Nursing / residential unit", "Back to "spoke" hospital that referred the Unknown" to [2] and "No" to [7b] then: e risk management/ surveillange was inappropriate
8a. If answered "No		
_	_	ointment arranged at the time of discharge?
Yes 8b. If answered "No I If NO. in your	No " to [8a] then: opinion, should there	Unknown e have been?
() Yes	O No	O Unable to answer
8c. If answered "Ye	s" to [8a] then:	appointment happen at the right time?
O Yes O Unable to ans	wer	NoN/A - no FU appointment was offered
9a. I Was this case	discussed at a morb	idity & mortality (M&M) meeting?
O Yes	O No	O Unable to answer
	o" to [9a] then: opinion, should it ha	
O Yes	O No	O Unable to answer
9c. If answered "Ye I If YES, please	s" to [9b] then: provide details (not	dc at M&M)
.0a.If answered "No Was the patient	" to [4a] then: readmitted to hosp	ital within 30 days
O Yes	○ No	O Unknown
	•	_

information giv	e admission, in your open to)to the patient a	
information giv	en to)to the patient a	nd their family?

J. Overall Quality of care

GOOD PRACTICE: A standard that you would accept from yourself, your trainees and your institution ROOM FOR IMPROVEMENT: Aspects of CLINICAL care that could have been better ROOM FOR IMPROVEMENT: Aspects of ORGANISATIONAL care that could have been better ROOM FOR IMPROVEMENT: Aspects of CLINICAL AND ORGANISATIONAL care that could have been better LESS THAN SATISFACTORY: Several aspects of clinical and/or organisational care that were well below that you would accept from yourself, your trainees and your institution. INSUFFICIENT DATA: Insufficient information submitted to NCEPOD to assess the quality of care

Please rate the o	verall quality of care using the grading system provided:
Good practice	
O Room for impro	vement - clinical aspects of care
•	vement organisational aspect of care
•	vement - both clinical and organisational aspects of care
O Less than satisf	-
O Insufficient data	a to answer
for improvement and organisation	d practice", "Room for improvement - clinical aspects of care", "Room organisational aspect of care", "Room for improvement - both clinical al aspects of care" or "Less than satisfactory" to [1] then: easons for this grade:
. Are there any the report?	emes/ issues from this case you feel should be highlighted in the final
O Yes	○ No
. If answered "Yes'	' to [3a] then:
	your answer (illustrative vignette)

Cause for concern

Occasionally NCEPOD will refer cases that have been identified as 'LESS THAN SATISFACTORY' when it is felt that further feedback to the Trust/ Health Board concerned is warranted. This is usually due to an area of concern to the hospital or clinician involved, and not for issues highlighted across the body of case notes. This process has been agreed by the NCEPOD Steering Group and the GMC. The medical director of the

has been in operation for 10 years and the responses received have always been positive 4. Do you feel that this case should be considered for such action? Yes (No **Health inequalities** 5a. During review of this case did you notice any evidence of one or more health inequality or bias that impacted on the care provided? Unable to answer 5b. If answered "Yes" to [5a] then: What health inequalities exist in relation to this patient? Please select all that apply ■ Disability – physical □ Age ☐ Disability - learning/cognitive ☐ Gender reassignment □ Pregnancy and maternity □ Chronic respiratory disease □ Race ☐ Religion or belief □ Early cancer diagnosis ☐ Hypertension case finding ☐ English not first languag ☐ Geographic deprivation □ Sex □ Sexual orientation Part of a vulnerable or inclusion health group □ Severe mental illness ☐ Socioeconomic status Please specify any additional options here... 5c. If answered "Yes" to [5a] then: Please provide details on how the health inequalities impacted on the care received 6a. In your opinion, based on the evidence on the case notes, were there any other missed opportunities for intervention or avoidable factors prior to the current admission that could have contributed to the acute presentation at the index admission? Yes (No Unable to answer

Trust/ Health Board is written to by the Chief Executive of NCEPOD explaining our concerns. This process