

LOWER LIMB AMPUTATION STUDY

National Confidential Enquiry into Patient Outcome and Death (NCEPOD)

ORGANISATIONAL	_ QUESTIONNAIRE
CONFID	ENTIAL
Name of Trust: Name of Hospital: Who completed this questionnaire? Name: Position: What is this study about?	How to complete the form:
NCEPOD are undertaking a study to examine remediable factors in the processes of care which might influence the quality of care offered to patients requiring lower limb amputation (above or below knee) for complications of peripheral vascular disease and/or diabetes mellitus. This study does not include patients undergoing a major lower limb amputation for either trauma or malignancy. Data is being collected over a 6 month period from all sites where lower limb amputation is undertaken across England, Wales, Northern Ireland, Jersey, Guernsey and the Isle of Man, from both the public and the independent sector (where applicable).	Information will be collected using two methods; box cross and free text, where your opinion will be requested. This form will be electronically scanned. Please use a black or blue pen. Please complete all questions with either block capitals or a bold cross inside the boxes provided e.g. Does your hospital have an emergency department? Yes No If you make a mistake, please "black-out" the incorrect box and re-enter the correct information, e.g. Yes No Unless indicated, please mark only one box per question.
Who should complete this form?	Questions or help?
This questionnaire should be completed by the Medical Director of the Trust or person(s) nominated by them who would have the knowledge to complete it accurately or be able to seek help to complete it accurately. People who should help with	A list of definitions is provided on page 2 of the questionnaire. If you have any queries about this study or this questionnaire, please contact

To ensure confidentiality of the data, completed questionnaire must be returned directly to

the completion of this form include clinical leads for

NCEPOD in the SAE provided.

vascular surgery and diabetology.

amputation@ncepod.org.uk

Or telephone: 020 7251 9060

Thank you for taking the time to complete this questionnaire. The findings of the study will be published in Autumn 2014.

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	DEFINITIONS
Medical/Surgical Assessment Unit (MAU, SAU, etc)	An area where emergency patients are assessed and initial management undertaken by inpatient hospital teams. The patient is only in this area while early assessment is made and is then moved to another ward or discharged. The working of these units varies; some are purely for medical or surgical cases (Medical Assessment Unit, Surical Assessment Unit etc.) while some function across various specialties (Clinical Decision Unit, Acute Admission Unit).
Vascular unit	A vascular service providing 24/7 access to vascular surgeons and interventional Radiologists. This would be defined as a hub in a network that relies on a hub and spoke relationship to provide vascular services for a number of hospitals.
Diabetic unit	A diabetes service providing a range of specialist multidisciplinary outpatient clinics and inpatient diabetes care led by consultant diabetes specialists supported by diabetes specialist nurses and dietitians.
Diabetic foot clinic	A multidisciplinary clinic providing assessment and management of acute and ongoing diabetic foot lesions including ulcers, foot infection, neuropathic lesions, Charcot neuroarthropathy and lower limb ischaemia. This team also focuses on ulcer prevention and prevention of recurrence, through education and ongoing foot care. This team would usually include a consultant diabetologist, diabetes specialist nurse and or tissue viability nurse, specialist podiatrist, working alongside or with timely access to vascular surgeons, interventional radiologists, orthopaedic surgeons, orthotist and microbiologist.
Levels of Wad Care	Level 0/1: Normal ward care in an acute hospital Level 2: High Dependency Unit for patients requiring more detailed observation or intervention including support for a single failing organ system or post-operative care and those 'stepping down' from higher levels of care e.g. ICU Level 3: For patient requiring advanced respiratory support alone or monitoring and support for two or more organ systems. Includes all complex support for multi-organ failure e.g. Intensive Care Unit
Formal regional care networks	Formal hub and spoke relationship between vascular or diabetic services and linked district general hospitals.
Informal regional care network	Ad hoc arrangements for the transfer of individual patients requiring more specialist care (vascular, diabetic, renal, anaesthetic) than is available at either a spoke or hub hospital which is outside the usual referral pathway.



CODES FOR SPECIALTY						
SURGICAL SPECIALTIES						
100 = General Surgery 101 = Urology 103 = Breast Surgery 104 = Colorectal Surgery 105 = Hepatobiliary & Pancreatic Surgery 106 = Upper Gastrointestinal Surgery	107 = Vascular Surgery 110 = Trauma & Orthopaedics 120 = Ear, Nose & Throat (ENT) 130 = Ophthalmology 140 = Oral Surgery 145 = Maxillo-Facial Surgery 150 = Neurosurgery 160 = Plastic Surgery	 161 = Burns Care 170 = Cardiothoracic Surgery 172 = Cardiac Surgery 173 = Thoracic Surgery 180 = Accident & Emergency 190 = Anaesthetics 192 = Critical/Intensive Care Medicine 				
MEDICAL SPECIALTIES						
300 = General Medicine 301 = Gastroenterology 302 = Endocrinology 303 = Clinical Haematology 306 = Hepatology 307 = Diabetic Medicine 314 = Rehabilitation 315 = Palliative Medicine 320 = Cardiology	330 = Dermatology 340 = Respiratory Medicine 350 = Infectious Diseases 352 = Tropical Medicine 360 = Genito-Urinary Medicine 361 = Nephrology 370 = Medical Oncology 400 = Neurology 410 = Rheumatology	430 = Geriatric Medicine 500 = Obstetrics & Gynaecology 501 = Obstetrics 502 = Gynaecology 800 = Clinical Oncology 810 = Radiology 820 = General Pathology 823 = Haematology				

CODES FOR GRADE 01 – Consultant 02 – Staff grade/Associate specialist 03 – Trainee with CCT 04 – Senior specialist trainee (ST3+ or equivalent) 05 – Junior specialist trainee (ST1&ST2 or CT equivalent) 06 – Basic grade (HO/FY1 or SHO/FY2 or equivalent) 07 - Other



	se note, this form should be completed for each hospital in your Tr d for pre-, and post operatively as well as those where vascular ser					
A.	THE HOSPITAL					
1.	Please indicate what type of hospital this questionnaire refers to: (Please tick one box only)					
	☐ District General Hospital (≤500 beds) ☐ District General	al Hospital (>500	beds)			
	Other (please specify) University Tea	ching Hospital				
2a.	Is lower limb amputation undertaken at this hospital	Yes	☐ No			
	If lower limb amputation IS UNDERTAKEN please answer the rem	nainder of this qu	estionnaire			
2b.	Is the rehabilitation of patients who have undergone lower limb amputation undertaken at this hospital?	☐ Yes	☐ No			
	If ONLY THE INPATIENT REHABILITATION of patients who have amputation is undertaken at this hospital (i.e. lower limb amputated complete only SECTIONS E & F.	_				
reha	ver limb amputation is not undertaken at this site or this hospital dobilitation services you do not need to complete any further question CEPOD; many thanks for taking the time to complete this question	ns and should re	•			
To b	e completed by hospitals where amputations are undertaken					
3a.	Does your hospital have an emergency department?	Yes	☐ No			
3b.	If YES, it is open 24 hours a day, 7 days a week (24/7)?	Yes	☐ No			
4a.	Does your hospital have a vascular unit on site providing 24/7 access vascular surgeons and/or interventional radiologists?	s to Yes	☐ No			
4b.	If YES, does your hospital routinely provide hub services for other hospitals that do not have a vascular unit?	☐ Yes	☐ No			
4c.	If YES, is this part of a formal network?	Yes	☐ No			
4d.	If YES, are there written protocols and/or pathways of care for the transfer of patients?	☐ Yes	☐ No			
5a.	If NO to Q4a, does your hospital have a vascular unit on site that has combined rota with vascular surgeons from a different hospital to pro 24/7 access to vascular surgeons and interventional radiologists?		☐ No			
5b.	If YES, is there a published rota that indicates to which hospital emergency or urgent patients should be referred?	Yes	☐ No			
6.	Are there written protocols and/or pathways of care for the transfer of patients between hospitals invloved in a shared vascular rota?	Yes	☐ No			
В.	STAFF & FACILITIES					
To b	e completed by hospitals where amputations are undertaken					
7.	How many consultant vascular surgeons (whole time equivalents) are employed by the hospital?		Unknowr			



8.	Please state the number of operating sessions allocated to the Vascular Unit?	(1 session = ½ day)		Unknown
9.	How many consultant vascular anaesthetists (we employed by the hospital?	hole time equivalents) are		Unknown
10.	How many interventional radiologists (performing are employed by the hospital?	ng vascular intervention)		Unknown
11.	Which of the following are available in the hosp	ital? (answers may be mult	iple)	
	Arterial duplex ultrasound	Conventional digital su	btraction and	giography
	Magnetic resonance angiography	CT angiography		
	Balloon angioplasty	Balloon angioplasty an	d endovascu	lar stenting
	Intra-arterial thrombolysis			
12a.	Does your hospital have specific vascular inpati	ient surgical beds?	Yes	☐ No
12b.	If YES, how many?			Unknown
13.	Is there a separate ward for vascular surgery th admit general surgical emergencies?	at does not routinely	Yes	☐ No
14a.	Does your hospital have specialist diabetes phy	vsicians?	Yes	☐ No
14b.	If YES, how many whole time equivalents?			Unknown
15a.	Does your hospital have a clinical (diabetes) nu who provides input for the management of diabetes.		Yes	☐ No
15b.	If YES, does the CNS/DNS routinely review pativascular unit?	ients under the care of the	☐ Yes	☐ No
16a.	Is there a specialist diabetes foot clinic in your h	nospital?	Yes	☐ No
16b.	If YES, who routinely staffs this?			
	Diabetes physician	Always	On req	uest
	Vascular surgeon	Always	On req	uest
	Foot & ankle surgeon (orthopaedic)	Always	On req	uest
	CNS/DNS	Always	On req	uest
	Podiatrist	Always	On req	uest
	Physiotherapist	Always	On req	uest
	Occupational therapist	Always	On req	uest
	Orthotist	Always	On req	uest
	Infection specialist	Always	On req	uest
	Other (please specify)	☐ Always	☐ On req	uest

17.	Which of the following services does the diabetes foot clinic provide?		
	 i) 24/7 access to the service for acute foot lesions as recommended by NICE CG119? 	Yes	☐ No
	ii) If not 24/7, is there access to the service for acute foot lesions within 24 hours during the working week?	Yes	☐ No
		∐ NA - a\	ailable 24/7
	iii) An emergency 'hot line' telephone number for patients, carers, and other health professionals to make contact in the working day?	Yes	☐ No
18.	Does your hospital have an outpatient parenteral (IV) antibiotic therapy (OPAT) service that accepts diabetic foot infection patients for treatment	nt? Yes	☐ No
19.	How many beds of the following type are available in your hospital?		
	Level 2: High dependency		Unknown
	Level 3: Intensive care		Unknown
C. /	ACTIVITY		
To be	completed by hospitals where amputations are undertaken		
20a.	Does the Vascular Unit submit data to the National Vascular Database?	Yes	☐ No
20b.	If YES, what was the total submission for each of the following in the last reliable data?	st full 12 months	s with
	Aortic revascularisation		Unknown
	Carotid revascularisation		Unknown
	Lower limb revascularisation		Unknown
21.	Do the interventional radiologists submit data to the British Society for Interventional Radiology (BSIR) database?	Yes	☐ No
22.	How many patients underwent either above-knee or below-knee amputathe last year (last 12 months with reliable data) for which you have full d		pital in
	Above-knee (transfemoral) (X09.3)		Unknown
	Below-knee (transtibial) (X09.5)		Unknown
	Through-knee (X09.4)		Unknown
	Hip disarticulation (X09.2)		Unknown
	Total		Unknown



23.	What was the average length of stay for this cohort of amputees?	Day:	s Unknow
24.	How many of the amputations listed in Q22 were performed	ed under the care of:	
	Vascular surgeons:		Unknow
	Foot and ankle surgeons (orthopaedic):		Unknow
	General surgeons:		Unknow
	Other specialties (please specify using specialty codes	on page 3):	
			Unknow
			Unknow
			Unknow
D. I	INPATIENT CARE		
To be	e completed by hospitals where amputations are underta	aken	
25.	Is there a policy for patients requiring a major lower limb a routinely transferred to a bed on the vascular ward either limmediately after surgery?	amputation to be	□ No
26.	Is there a discharge co-ordinator in the vascular unit/ward responsibility for amputees?	_	☐ No
27.	Do amputees on the vascular unit have inpatient access to	o:	
	Specialist physiotherapy services for amputees?	Yes	☐ No
	Specialist occupational therapy services for amputees?	? Yes	☐ No
	Podiatry services (care of the contralateral foot) if appli	icable Yes	☐ No
28.	Does the diabetic unit undertake:		
	A joint outpatient clinic with a vascular surgeon?	Yes	☐ No
	A joint ward round with a vascular surgeon for diabetic	inpatients?	☐ No
	A joint ward round with a vascular surgeon for vascular	r in-patients?	☐ No
	A joint outpatient clinic with a foot and ankle surgeon (o	orthopaedic)?	☐ No
29.	Which specialty predominantly provides amputation service	ces for the Diabetic Unit?	
	☐ Vascular surgery ☐ Foo	ot and ankle surgery (ortho	paedic)
30a.	Is there a multidisciplinary team responsible for the care of undergoing lower limb amputation in this hospital?	of patients Yes	☐ No
30b.	If YES, are they funded:		
	7 days a week 6 days a we	ek 🔲 5 da	ays a week
	Other (please specify)		



31.	In your hospital who would normally be present at a material patients for whom amputation is being considered (an			
	ı	Non-diabetic patients	Diab	etic patients
	Vascular surgeon			
	Foot and ankle surgeon (orthopaedic)			
	Interventional radiologist			
	Anaesthetist			
	Diabetologist			
	Medicine for the elderly physician			
	Consultant in rehabilitation medicine			
	Podiatrist			
	Trainees in vascular or general surgery			
	Vascular clinical nurse specialist			
	Diabetes specialist nurse			
	Vascular ward nurse			
	Physiotherapist			
	Occupational therapist			
	Representative from prosthetic service			
	Representative for intermediate care			
	Other (Please specify):			
32.	Are patients undergoing major amputation surgery us PRIOR to surgery?	ually reviewed by any o	of the follow	ving
	Consultant in rehabilitation medicine	[Yes	☐ No
	Rehabilitation physiotherapist	[Yes	☐ No
	Occupational therapist	[Yes	☐ No
	Podiatrist (care of the contralateral limb) if applicate	ole [Yes	☐ No
	Representative from prosthetics service	[Yes	☐ No
	Other (Please specify)		Yes	☐ No
33.	Does this hospital have written protocols or guidelines implementation of NICE CG119: Inpatient manageme problems?		☐ Yes	□ No
34.	Does this hospital have a policy or protocol for the cal undergoing major amputation	re of patients	Yes	☐ No

31.



35a.	Does this hospital have a policy or protocol for ar in diabetic patients with foot sepsis?	ntibiotic prescription	Yes	☐ No
35b.	Does this hospital have a policy or protocol for su prophylaxis for patients undergoing lower limb an		Yes	☐ No
36c.	Does this hospital routinely screen patients under amputation for MRSA?	rgoing lower limb	Yes	☐ No
36d.	Does this hospital routinely screen patients under amputation for MSSA (methicillin sensitive Staphy	0 0	Yes	☐ No
37.	Does this hospital have a policy or protocol for the pressure areas?	e risk assessment of	Yes	☐ No
E. F	POST AMPUTATION CARE			
To be	completed by hospitals where amputations are	e undertaken and rehabi	litation sites	
38a.	Does your hospital have medicine for the elderly	beds?	Yes	☐ No
38b.	If YES to 38a, do they accept amputees for rehab	oilitation?	Yes	☐ No
38c.	If YES to 38b, are there specific age restrictions of	on the service?	Yes	☐ No
38d.	If YES to 38c, please specify? Lower age	limit Up	per age limit	
38e.	If YES to 38b, are there specific inpatient beds for	or this?	Yes	☐ No
39a.	Does your hospital have specialist consultants in medicine?	rehabilitation	Yes	☐ No
39b.	If YES to 39a, do they routinely transfer amputees to an inpatient bed for rehabilitation?	s from the vascular unit	Yes	☐ No
39c.	If YES to 39a, do they manage patients after maje amputation only following discharge from the hos		Yes	☐ No
39d.	If YES to 39a, are there policies dictating referrals	s that they will see?	Yes	☐ No
39e.	If NO to 39a, (if there are no amputee rehabilitation hospital) how far away (in miles) is the nearest su		Miles	□ No
40a.	Are prosthetic services available in your hospital?	?	Yes	☐ No
40b.	If NO, how far away (miles) is the nearest such se	ervice?	Miles	☐ No
40c.	If NO, please state how referrals to the co-ordina may be multiple)	tor at the prosthetic centr	e are made?	(Answers
	By medical staff	By physiotherapists	;	
	By occupational therapists	By ward nurses		
40d.	If NO, are prosthetic services provided (answers	may be multiple):		
	At another hospital in the same Trust	By another Trust		
40e.	If NO, how do you access prosthetic services?			
	Formal arrangement (contract)	Informal arrangeme	ent	
	No arrangement	III		

41.	Who makes the decision about a patient's suit multiple)	tability for prosthetic use? (a	answers may be
	Medical staff	Physiotherapists	
	Occupational therapists	Other (Please spe	cify)
42a.	For patients transferred from another hospital patients usually repatriated to the referring hospital		Yes No
42b.	Is there a formal written policy for this?		Yes No
43a.	Is there a local provision of intermediate care accepts amputees for further care?	in the community that	Yes No
43b.	If YES to 43a, does this include care in the co	mmunity (CIC) beds?	Yes No
43c.	Please give details of any other arrangements amputee rehabilitation units/beds.	in place, for example admi	ssion to specialist
44.	Who normally makes the decision that a patie a major amputation? (answers may be multiple		nward referral following
	☐ Vascular surgeon	Foot and ankle surge	on (orthopaedic)
	Diabetologist	Medicine for the elde	rly physician
	Consultant in rehabilitation medicine	Podiatrist	
	Trainees in vascular or general surgery	Vascular clinical nurs	e specialist
	Diabetes specialist nurse	☐ Vascular ward nurse	
	Physiotherapist	Occupational therapis	st
	Representative for intermediate care	Other (Please specify	<i>'</i>)
45 .	Following discharge do amputees have acces	s to:	
	Specialist OUTPATIENT physiotherapy ser	vices for amputees?	Yes No
	Specialist DOMICILIARY physiotherapy ser	vices for amputees?	Yes No
	Specialist OUTPATIENT occupational thera	apy services for amputees?	Yes No
	Specialist DOMICILIARY occupational then	apy services for amputees?	Yes No
	NHS Podiatry service (care of the contralat	eral foot) if applicable	Yes No

46a. Is formal written advice or a care pathway routinely provided to those responsible for an amputee's management following discharge from hospital? (this may include GP, district nurse, intermediate care, specialist unit) 46b. If YES to 46a, does this include advice on the management of diabetes? Yes No 46c. If YES to 46a, does this include advice on the management of risk factors for cardiovascular disease (secondary prevention)? Yes No 46d. If YES to 46a, does this include advice on the management of risk factors for cardiovascular disease (secondary prevention)? Yes No 47. Are amputees with diabetes routinely followed up in the Diabetes Yes No 48. Does your hospital routinely collect post-operative surveillance data for surgical site infection in patients undergoing lower limb amputation? Yes No F. GENERAL CARE To be completed by hospitals where amputations are undertaken and rehabilitation sites 49a. Does this hospital have a palliative care team? Yes No 49b. If YES, does this include review of patients with non-malignant disease? Yes No 50a. Does this hospital have an acute pain management team? Yes No 50b. If YES, does this routinely see amputees prior to surgery? Yes No 51a. Does the vascular unit undertake regular Morbidity & Mortality meetings? Yes No 51b. If YES, how often do these occur? Mortify Morthly Other (please state) 51c. If YES, do they include: Ward nurses Occupational therapists Occupational therapists No 51d. Diabetologist Interventional radiologist Interventional radiologist Interventional radiologist Interventional radiologist				
46c. If YES to 46a, does this include advice on the management of the contralateral limb? 46d. If YES to 46a, does this include advice on the management of risk factors for cardiovascular disease (secondary prevention)? 47. Are amputees with diabetes routinely followed up in the Diabetes	46a.	responsible for an amputee's management hospital? (this may include GP, district n	ent following discharge from	Yes No
contralateral limb?	46b.	If YES to 46a, does this include advice of	on the management of diabetes?	Yes No
factors for cardiovascular disease (secondary prevention)?	46c.		on the management of the	Yes No
Foot Clinic? NA - no diabetic foot clinic NA - no diabetic foot clinic NA - no diabetic for surgical site infection in patients undergoing lower limb Yes No No	46d.		•	Yes No
48. Does your hospital routinely collect post-operative surveillance data for surgical site infection in patients undergoing lower limb amputation? F. GENERAL CARE To be completed by hospitals where amputations are undertaken and rehabilitation sites 49a. Does this hospital have a palliative care team?	47.		lowed up in the Diabetes	
To be completed by hospitals where amputations are undertaken and rehabilitation sites 49a. Does this hospital have a palliative care team?	48.	for surgical site infection in patients under	•	☐ foot clinic
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49b. If YES, does this include review of patients with non-malignant disease?	To be	completed by hospitals where amputa	tions are undertaken and rehab	ilitation sites
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50b. If YES, does this routinely see amputees prior to surgery?	49b.	If YES, does this include review of patier	nts with non-malignant disease?	Yes No
51a. Does the vascular unit undertake regular Morbidity & Mortality meetings? Yes No 51b. If YES, how often do these occur? Monthly Monthly Twice monthly Other (please state) 51c. If YES, do they include: Vascular surgeons Specialist nurses Physiotherapists Occupational therapists Podiatrists Ward nurses Surgical trainees Interventional radiologist	50a.	Does this hospital have an acute pain ma	anagement team?	☐ Yes ☐ No
51b. If YES, how often do these occur? Weekly Monthly Twice monthly Other (please state) 51c. If YES, do they include: Vascular surgeons Specialist nurses Physiotherapists Occupational therapists Podiatrists Ward nurses Surgical trainees Interventional radiologist	50b.	If YES, does this routinely see amputees	s prior to surgery?	Yes No
Weekly Monthly Twice monthly Other (please state) 51c. If YES, do they include: Vascular surgeons Specialist nurses Physiotherapists Occupational therapists Podiatrists Ward nurses Surgical trainees Interventional radiologist	51a.	Does the vascular unit undertake regular	r Morbidity & Mortality meetings?	Yes No
Twice monthly Other (please state) 51c. If YES, do they include: Vascular surgeons Physiotherapists Occupational therapists Podiatrists Ward nurses Surgical trainees Interventional radiologist	51b.	If YES, how often do these occur?		
51c. If YES, do they include: Vascular surgeons Physiotherapists Occupational therapists Podiatrists Ward nurses Interventional radiologist		Weekly	Monthly	
□ Vascular surgeons □ Specialist nurses □ Physiotherapists □ Occupational therapists □ Podiatrists □ Ward nurses □ Surgical trainees □ Interventional radiologist		Twice monthly	Other (please state	e)
☐ Physiotherapists ☐ Occupational therapists ☐ Podiatrists ☐ Ward nurses ☐ Surgical trainees ☐ Interventional radiologist	51c.	If YES, do they include:		
Podiatrists Ward nurses Surgical trainees Interventional radiologist		Vascular surgeons	Specialist nurses	
Surgical trainees Interventional radiologist		Physiotherapists	Occupational therapis	ts
		Podiatrists	Ward nurses	
Anaesthetist Diabetologist		Surgical trainees	Interventional radiolog	ist
		Anaesthetist	Diabetologist	
Other (Please specify)		Other (Please specify)		

Thank you for taking the time to complete this questionnaire



Funding for this study was provided by The Healthcare Quality Improvement Partnership (HQIP) as part of The Clinical Outcome Review Program into medical and surgical care.

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