## **PARENTERAL NUTRITION AUDIT**

National Confidential Enquiry into Patient Outcome and Death (NCEPOD)

Data Collection Tool

Hospital number
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A. PA	TIENT AND ADMISSION DETAILS		
1.	Age at time of admission	years	
	If less than 2 years old	months	weeks days
	If premature baby	Gestation	weeks days
2.	Gender:	Male	Female
3. a	. Weight: g or	. Kg	Not recorded
b	. Height:	cm	Not recorded
4. a	Date of admission:	d d m m	уууу
		Day of week	(MON, TUE, etc)
b	. Was the admission: A planned ad	_	Inter-hospital transfer
	An emergence	y admission	Unknown
С	Time of first medical : : : : : : : : : : : : : : : : : : :	Date d	d m m y y y y
	☐ Not recorded	Day of week	(MON, TUE, etc)
5. a.	Grade of above doctor:	FY1	Staff grade
			Consultant
	Г	_ 7 sнo/sт1-2	Other
	Γ	_ ] FTSTA	Not documented
		SpR/ST3 or higher	
b.	Specialty of admitting doctor:		
V.	openately of duffitting dooter.		
B. INI	DICATION FOR PN		
6. a.	Under what specialty was the patient when the decision was made to commence PN?		Not documented
b.	Under what specialty was the patient when the PN administered?		Not documented
7.	Had the patient previously been given PN?	Yes	□ No □ Unknown

		On what type of ward was the PN initially administered?  What level of care was this ward?  Was an indication for PN documented in the case not	Adult Surgical New	ediatric Critical care onatal unit (SCBU) dicated Nutrition ward/area ner known Level 3 (e.g. ICU)  Unknown
	b.	If yes what was documented Immaturity of GI function Congenital anomalies; gut Congenital anomalies; non gone Necrotizing enterocolitis  Non functioning gut Perforated/leaking gut Short bowel Dysphagia  Obstruction	d (answers may be multiple)?  Dysmotility Fistulae	Chemotherapy Post-surgical complications Volvulus Crohn's disease Cancer Radiation damage Post-op ileus
	Ш с.	Other (please specify  In your opinion was the PN appropriate indication?	administered for an	Yes No
	d.	If No please expand on your answer		Unknown
10	. a.	Was there an unreasonable patient required PN?	e delay in recognising that the	Yes No Unknown
	b.	If Yes please expand on your answer		
11	. a.		e delay between making the decision and the commencment of PN?	☐ Yes ☐ No ☐ Unknown
	b.	If Yes please expand on your answer		



12. a.	Time PN first administered (24hr clock)	: h h	m m	Date	d d	/ m m	/ууу	y
	[	☐ Not re	ecorded	Day of wee	k 🔲	(N	ION, TUE, etc)	)
b.	Was the PN started at a reasonable time of day?		Yes		☐ No	)		Unknown
13 a.	Was a treatment goal docume	ented?	Yes		□ N	0		
b.	If yes what was this? e.g. optimisation of nutrition pre-su	ırgery						
14. a.	Had the patient received any of enteral feeding in the week to the decision to commence	prior	Yes		<u> </u>	No		Unknown
b.	If Yes, what:		☐ Nasoga	pplements astric feeding ejunal feedin	g	RIG PEG-J Surgical j Distal fee	ejunostomy ding	
c.	Why was it not possible to co to feed the patient enterally?	ntinue						
d.	Was adequate consideration to using enteral nutrition as a alternative to PN?		Yes		<u> </u>	No		
e.	If no please expand on your a	inswer?						
C. PA	TIENT ASSESSMENT							
15 a.	Did the patient have an asses made for the need for PN?	ssment	Yes		<u></u>	No		
b.	If Yes what did the assessme involve?	ent	Micro Macro Weigh	I assessmer piochemical biochemical t m circumfere	review review	fold	cep circumfe d thickness o strength al of enteral n	
C.	In your opinion was this adec for the patient	quate	Yes			No		



d.	If No what was missing?		Macro biod	sessment hemical reviev chemical revie		fold thi Grip str	circumference/skin ickness rength enteral nutrition
16. a.	Who made the decision that PN should be commenced (answers may be multiple)?		Nurse Dietitian Pharmacis Unknown		(see p	Doctor cialty page 8) de page 8) Other	
b.	Were they members of the nutrition team?		Yes	☐ No		Unknov	vn
17. a.	What type of PN was first given?		Multi-chan e.g. vitami Bespoke b Single cha Other	amber bag	the she	ŕ	
b.	Was this appropriate for the patient's r	needs	<b>5</b> ?		_	es nknown	∐ No
C.	If No please expand on your answer						
18. a.	Were the patient's PN requirements documented in the casenotes?		Yes	☐ No			
b.	If yes were these of adequate detail?		Yes	☐ No			
19. a.	Who reviewed the patient with respect to their PN (answers may be multiple)?		Nurse Dietitian Pharmacis Unknown	st	(see p	page 8)  Other	
b.		Ш	Yes	∐ No		Unknov	vn 

20.	а.	How often was the patient reviewed with respect to PN?  Daily (7 days)  Daily (working wee 3-5 days/week		<b>(</b> )		1-2 days/week <1 day/week Unknown	
	b.	What was reviewed (answers may be multiple)?  In your opinion was there adequate		Constitution of PN Biochemical review Clinical status Ongoing need for P Weight Mid-arm circumfere	N		Tricep circumference/skin fold thickness Grip strength  Vascular access Other
	C.	monitoring of the patient during their PN?		Yes No			Unknown
	d.	If no what were the deficiencies (answers may be multiple)?		Constitution of PN Biochemical review Clinical status Ongoing need for P Weight			Mid-arm circumference  Tricep circumference/skin fold thickness Grip strength  Vascular access  Other
П	VF	NOUS ACCESS/LINE CARE					
21.		Was the type of central venous catheter documented in the casenotes?	(CVC	c) or peripheral line		Yes	☐ No
	b.	If Yes, was this appropriate?				Yes	☐ No
22.	a.	Was the insertion of the CVC documente	ed in	the casenotes?		Yes	☐ No
	b.	If yes did this include a description of the	e insertion technique?			Yes	☐ No
	c.	If Yes what was the designation of the o	perat	or?			Not documented
	d.	Was the position of the tip documented?	?			Yes	☐ No
	e.	If documented, was the tip in an appropr position?	riate			Yes	☐ No
	f.	How was the position of the catheter verified?	time	e intensifier at of insertion CXR		ECG Ultraso	Unknown
23.	a.	Is there evidence of inappropriate CVC of	are?			Yes	☐ No
	b.	If Yes please expand on your answer					

24	. a.	Is there evidence of the lumen being use other than PN?	ed for pur	rposes	Yes	<b>:</b>	☐ No		
	b.	If Yes what other purposes was the line used for							
25		Did the patient develop any CVC-related If Yes which complications?	d complica	ations?	Yes	:	☐ No		
		Line misplacement	Accidenta	l removal	☐ Pne	eumothorax			
		Suspected line infection	_ine occlu	sion	Haemothorax				
		Confirmed line infection	Line fractu	ure/rupture	TPN	TPN-oma/extravasation			
		Phlebitis \	√enous th	rombosis	☐ Neu	ıropraxia			
		Other							
	c.	Were any of the complications avoidable	?		Y	es	☐ No		
	d.	If Yes please expand on your answer							
	e.	Were the complications managed appropriate the complications managed appropriate the complications of the complica	priately			es	☐ No		
	f.	If No please expand on your answer	[						
Ε.	ME	TABOLIC COMPLICATIONS							
26	. a.	Did the patient develop any metabolic co	omplicatio	ons?	Y	es	☐ No		
	b.	If Yes which complications?	(with	ophosphataemia out re-feeding rome)	□н	lypermagnes	saemia		
			П Нурс	omagnesaemia	П	lyperphosph	ataemia		
			П Нурс	kalaemia	П	lyperkalaemi	ia		
			П Нурс	onatraemia	П	lyperglycaen	nia		
			Нуре	ernatraemia	re	e-feeding sy	ndrome		
	C.	Were any of the complications avoidable	e?			es	☐ No		
					□ U	Inknown	☐ NA		
	d.	If Yes please expand on your answer							
	e.	Were the complications managed appro	priately		Y	es	☐ No		
					□ U	Inknown	☐ NA		
	f.	If No please expand on your answer							
27	. a.	Did the patient develop abnormal LFT's			_	es Inknown	☐ No		
	b.	If Yes, in your opinion was this related t	o overfee	ding?		es	□ No		
				-	    <b>  </b>		░		
			5		2   7	602366	94852		
			-		۱ ۲	00200	/ T U J L		

28.	a.	In your opinion was the patient at risk of re-fee syndrome?	eding			Yes Unknown	No NA
	b.	If Yes was this documented by the clinical tea	documented by the clinical team?				No
	C.	If Yes to 27b what precautions were taken to re-feeding syndrome?	preve	ent		IV vitamins IV phosphate i Reduced intial Other None Unknown	
29.	a.	Were IV fluids given in addition to the PN?		Yes		] No	Unknown
	b.	If Yes was this: (answers may be multiple)		Other	t ongoing	losses ice fluid provision	
	C.	If fluid was given, was the type given appropriate?		Yes		] No	NA
	d.	If No to 28c please expand on your answer					
		If fluid was given, was the volume given appropriate?  If No to 28e please expand on your answer		Yes		] No	NA
30.		What was the eventual outcome for this patient (answers may be multiple)?		Weaned of Home part Transfere Discharge Died during Other	renteral ned to othe	r unit	
			_				



## NATIONAL SPECIALTY CODES

<ul> <li>100 = General Surgery</li> <li>101 = Urology</li> <li>103 = Breast Surgery</li> <li>104 = Colorectal Surgery</li> <li>105 = Hepatobiliary &amp;</li></ul>	107 = Vascular Surgery 110 = Trauma & Orthopaedics 120 = Ear, Nose & Throat (ENT) 130 = Ophthamology 140 = Oral Surgery 145 = Maxillo-Facial Surgery 150 = Neurosurgery	<ul> <li>160 = Plastic Surgery</li> <li>161 = Burns Care</li> <li>170 = Cardiothoracic Surgery</li> <li>172 = Cardiac Surgery</li> <li>173 = Thoracic Surgery</li> <li>180 = Accident &amp; Emergency</li> <li>190 = Anaesthetics</li> <li>192 = Critical/Intensive Care Medicine</li> </ul>
300 = General Medicine 301 = Gastroenterology 302 = Endocrinology 303 = Clinical Haematology 306 = Hepatology 307 = Diabetic Medicine 314 = Rehabilitation 315 = Palliative Medicine 320 = Cardiology	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
171 = Paediatric Surgery 211 = Paediatric Urology 212 = Paediatric	<ul> <li>217 = Paediatric Maxillo- Facial Surgery</li> <li>218 = Paediatric Neurosurgery</li> <li>220 = Paediatric Burns Care</li> <li>221 = Paediatric Cardiac Surgery</li> <li>222 = Paediatric Thoracic Surgery</li> <li>242 = Paediatric Intensive Care</li> <li>251 = Paediatric Gastroenterology</li> </ul>	252 = Paediatric Endocrinology 253 = Paediatric Clinical Haematology 258 = Paediatric Respiratory Medicine 260 = Paediatric Medical Oncology 321 = Paediatric Cardiology 420 = Paediatrics 421 = Paediatric Neurology 422 = Neonatology

## **CLINICIAN GRADES**

Consultant = CONS

Non Consultant Career Grade = NCCG

Staff and Associate Specialist = SAS

Trainee with completed certificate of training = CCT

Senior specialist trainee (SpR 3+ or ST3+) = ST3

Junior specialist trainee (SpR 1&2 or ST 1&2) = ST2

Basic grade (FY, HO's, SHO's or CT's) = FY

