# Parenteral Nutrition Audit – Regional

Hospital:	
Age:	
Gender:	

## Patient / Admission details

Weight:	ln Kilos		Not recorded				
Height:	In cm		Not recorded				
Date of admission							
Was the admission:	Αp	blanned admission		Inter			
was the aumission.	An emergency admission				Unknown		
Date of referral for PN					Not available		
Date of decision to commence of PN							
Date and time infusion commenced							
Was there a delay of more than 2 patient required PN and the com		-	on that t	he	Yes/No		
If 'Yes', please expand on your answer							
Day of week infusion commenced		Weekday		Week	end/Bank holiday		

## Patient Assessment

Was a nutritional assessment carried out before PN commenced				Yes/No		
If 'Yes', what did the assessment involve (tick all	Clinical assessm	nent		Malnutrition s (e.g. MUST)	screening tool	
that apply)?	Standard electrolytes Magnesium, phosphate Anthropometry			Ora		
					Other	
	Nutritional Require		Risk of re-feeding			
Where any electrolyte abnorm	alities corrected bef	ore com	mencin	g PN?	Yes/No	
Who made the decision that PN should be commenced	Nurse					

(tick multiple if required)?	Dietician		Grade/S		e/Speciality		
	Doctor			Grade/Speciality			
	Unknown						
	Other						
If 'Other', please state							
Were they members of the nu	trition team?					Yes/No	
	Multi-chamber ba the shelf')	ıg ('of	f		-	g specially ordered nanufacturer	
What type of PN was given first?	Multi-chamber ba the shelf') with ad					Other	
	Bespoke bag (ma hospital pharma				Not c	locumented	
Were intravenous vitamins (e.		,,	1		1	Yes/No	1
Were the PN prescription requ		ed in t	thec	ase no	otes?	Yes/No	
If 'Yes', were these of adequat					5105.	Yes/No	
Who reviewed the patient during the period they were	Nurse					163/10	
on PN (tick multiple if	Doctor			Gra	ade/Speciality		
	required)? Dietician			Grade/Speciality			
	Pharmacist						
	Unknown						
	Other						
If 'Other', please state				•			
How often was the patient reviewed with respect to PN	Daily (7 days	)			1-2	days/week	
in the first 2 weeks?	Daily (working w	veek)			<1 day/week		
	3-4 days/wee	ek			unknown		
What was reviewed (tick multiple if required) and	Constitution of	PN			Daily /weekly		
how frequently (delete as appropriate)?	Biochemical rev	view				Daily/ weekly	
	Clinical statu	S			Daily /weekly		
	Ongoing need for PN				Daily/ weekly		
	Weight				Daily /weekly		
	Vascular acce	SS				Daily/ weekly	
	Anthropomet	ry				Daily/ weekly	

#### **Indication for PN**

What was the indication (whether documented or not)	Congenital anomalies; gut			No access for enteral nutrition		
Please tick the box which is	Congenital anomalies; non gut		Pre	-operative nutrition		
most appropriate	Necrotizing enterocolitis			Radiation enteritis [		
	Non functioning gut	Infe	ection (e.g. C.difficile)			
	Perforated / leaking gut		Che	emotherapy		
	Short bowel		Pos	t-surgical complications		
	Dysphagia		Vol	vulus		
	Obstruction		Cro	hn's disease		
	Dysmotility		Can	icer		
	Fistulae		Pos	t-op ileus		
	Malabsorption		Oth	er		
If 'Other', please state						
Was an indication for PN recorde	ed in the case notes?			Yes/No		
Was the Nutrition team involved	in the decision to commence PN	٧?	Yes/No/Unknown			
If 'No', please expand on your answer						
Was a treatment goal documented?			Yes/No			
If 'Yes', what was this? e.g. optimisation of nutrition pre- surgery						
Was EN given to prior to PN?	Not possible			Trial of EN unsuccessful		
	Dual therapy					

## Venous Access / Line Care (where multiple, please use new page for each new line used)

Was the type line used for PN documented in the case notes?			Yes/No		
What type of line used (delete			Tunnelled/Not tunnelled		
details as appropriate for central					
line)?			Single/Multilumen		
Peripherally inserted central line					
	(PICC)				
Peripherally inserted long line		_			

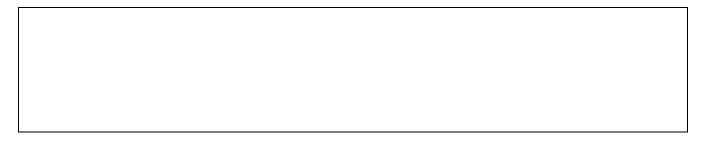
	Standard Peripheral cannula					
Was the insertion of the feeding line documented in the case notes?			Yes/No			
Was aseptic technique documented	35		Yes/No			
Speciality and grade of the			Not documented			
operator inserting the line?			Not documented			
Was the position of the tip docume	nted?		Yes/No			
Did the patient develop any line-rel	lated complications		Yes/No			
			1	n		
If 'Yes', which complications?	Line misplacement		Line occlusion			
	Line site infection		Venous thrombosis			
Suspected systemic line infection*			Line fracture/rupture			
	Confirmed systemic line infection *		Pneumothorax			
	Phlebitis		Haemathorax			
	Accidental removal		TPN extravasation			
	Nerve damage		Other			
Was PN interrupted by a line complication?	Yes		No			

### **Metabolic Complications**

Did the patient develop any	Yes		No	
metabolic complications?	103			
If 'Yes', which complications? (Please your hospital's reference	Hypopho	sphataemia	Hypermagnesaemia	
range for electrolytes to define abnormal results)	Hypoma	gnesaemia	Hyperphosphataemia	
	Hypol	kalaemia	Hyperkalaemia	
	Hypon	atraemia	Hyperglycaemia	
	Hypernatraemia		Abnormal LFTs (but not jaundice)	
			Jaundice	
If the patient had abnormal LFTs how much glucose cal/kg body weight/day did they receive from PN?				
If the patient had abnormal LFTs how	much Fat			
g/kg body weight/day did they receiv	e from PN?			
In your opinion were any of the complications avoidable?	Yes Unknown		No	
			N/A	
If 'Yes', please expand on your answer				

Were the complications managed appropriately?	Yes					No	
	Unknown					N/A	
If 'No', please expand on your answer							
Were IV fluids given in addition to the PN during the first 2 weeks of PN therapy?	Yes/No/Unknown						
If 'Yes', was this: (tick all that apply)	To correct deficit				Routin flui		
	To correct ongoing losses				Nc dc		
	Other, please state						
What type of fluid was given?	Saline		C	olliod		Hartmanns	
What volume of fluid was given?							
Duration of PN (days)							
What was the outcome for this patient at 30 days? (tick all that	Weaned onto oral/enteral feeding Home parenteral nutrition			Discharged		narged home	
apply)				Died during h		luring hospital stay	
	Transferred to	o other	unit				

#### Comments:



\*Suspected line infection: Positive blood cultures and evidence of sepsis (fevers, hypotension etc) with no obvious source other than line.

\*Confirmed line infection: A recognised pathogen cultured from one or more blood cultures and the organism cultured from blood is not related to an infection at another site. Or a common commensal (i.e., diphtheroids [*Corynebacterium* spp. not *C. diphtheriae*], *Bacillus* spp. [not *B. anthracis*], *Propionibacterium* spp., coagulase-negative staphylococci [including *S. epidermidis*], viridans group streptococci, *Aerococcus* spp., and *Micrococcus* spp.) cultured from two or more blood cultures drawn on separate occasions and evidence of sepsis and positive laboratory results are not related to an infection at another site