## HTPN PATIENT REGISTRY FORM 2013

Informed conse	ent signed?   Yes	No			
	Patient code: For the center followed by		s, e.g. TGH0	0001)	
HTPN CENTE	R (Full name):				
Code:	Province:				
Date of data ex	traction:	(mm/dd/	уууу)		
(Enter this val	ue for all forms on the	website)			
NOTE: If patie	nt expired or is weaned o	off TPN, use the	day of death	or the last	visit to the
TPN clinic, resp	pectively, as date of data	extraction!			
Type of record	l (please check):				
☐ Baseline	Follow up: □ 2 year	□ 4 yr □ 6	yr □8 yr	□ 10 yr	□ yr
PATIENT B	ASIC				
This is □ an a	dult record □ a pediat	ric record			
Has this patient	been seen previously in	your clinic?	$\square$ Yes	$\square$ No	
	☐ M Date of birth:				
Age:					
•					
=	f education attained (if k				

## Please note:

- Suggested document source: clinic or hospital charts over the past 12 months
- If patient expired or is weaned off TPN, use the day of death or the last visit to the TPN clinic, respectively, as date of data extraction! When previous 12 months are asked in the form, use the 12 months before death/weaning.
- Pages 1-2 are permanent patient information. If there are changes from one year to the next, only write the change, e.g. change in anatomy due to additional surgery).
- For the entire form, write "NA" if data is not available.

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	Patient Initials:	Registry Code:
ANATOMY (Website: click ANA	TOMY)	
What type of record is this? ☐ Base	line   Follow-Up	years
Is the anatomy known? $\Box$ Yes $\Box$ N	o	
If baseline, enter information below If follow-up, has there been any cha If yes, enter information below. If n diagnosis	nge in GI anatomy since las	•
Does the entire small bowel remain?	☐ Yes ☐ No	
If no, is the length of the small bowe	el known? □ Yes □ I	No
If yes, what is the total length of small known, describe the small bowel in		
Does the full colon remain?	□ Yes □ No	
Only part of the colon remains?	□ Yes □ No	
If yes, describe:		
Only rectum remains? ☐ Yes	$\square$ No	
Remaining colon? ☐ Yes ☐ No		
Is the gastrointestinal tract in continu	uity (re-anastomosed)? $\Box$ Y	es □ No
Is there an ostomy bag? $\Box$ Yes	$\square$ No	
If yes, what type (Gastromy Venting Colostomy, Other:Specify)?	Tube, Duodenostomy, Jeju	•
Describe other GI surgery (e.g. whip	ople, cholecystectomy, etc.)	:
Other medical diagnosis:		

NUTRITION ASSESSMENT (Website: click NUTRITION)
What type of record is this? □ Baseline □ Follow-Up: years
Anthropometry
Actual Body Weight (ABW):kg Heightcm BMI:kg/m <sup>2</sup>
Weight at start of TPN:kg BMI at start of TPN:kg/m <sup>2</sup> (If patient had an interruption in TPN, please enter here weight at <b>re-start</b> of TPN)
Estimated Nutrient Requirement
Current Total Estimated Energy Requirement (TEER)(kcal/day) calculated by Harris-Benedict (HB) HB Male: [66.5 + 13.7 W (kg) + 5.0 H (cm) – 6.7 A (y)]: kcal/d
HB Female: [655 + 9.5 W (kg) + 1.8 H (cm) – 4.7 A (y)]: kcal/d
Multiply HB by Stress factor (1.0 if sedentary – 2.5 if physically active)  Stress factor used:
TEER = HB x Stress factor: kcal/day (Enter this value in website)
Protein Requirements (g/kg):
Nutrient Intake TPN:
Energy (kcal/day): (If TPN < 7 days/week, indicate average per day)  Protein (g/day): (If TPN < 7 days/week, indicate average per day)
Oral (Estimate only. If applicable, include nutritional supplements):  Energy (kcal/d)Protein (g/d):
Specify Oral Diet Type (low oxalate, short gut, post-gastrectomy, lactose restricted, modified fibre, DAT, anti-dumping, other)
Enteral Diet (if applicable):  [France: (Iracl/day)]  [France: (Iracl/day)]  [France: (Iracl/day)]
Energy (kcal/day): (If < 7 days/week, indicate average per day)  Protein (g/day): (If < 7 days/week, what is average per day)
Name of enteral product:
Specify tube site: ☐ Gastrostomy ☐ Gastrojejunostomy ☐ Jejunostomy ☐ Other (specify):
Alcohol (g/week): (e.g. 1 glass wine; 1 beer; or 2 oz. liquor = 10 g) or: □ Alcohol intake unknown
Smoking (# cigarette/day): or: □ unknown

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Patient Init	ials:	Registry Code:
BONE MINERAL DENSITY (Website: o	click BONE MII	NERAL DENSITY)
What type of record is this? $\Box$ Baseline $\Box$ Fol	low-Up:	years
If baseline, enter information below.		
If follow-up, did this patient have a bone mineral Yes □ No If yes, enter information below. If no, go to Bone	• •	med since last data entry?
n yes, enter information below. If no, go to bor	<u>ie Fractures</u>	
Date of BMD:	mm/dd/yyyy)	
Spine: BMD (g/cm <sup>2</sup> ): T-score: Z-	·score:	
Femoral neck: BMD (g/cm <sup>2</sup> ): T-score:	Z-score: _	
Total hip: BMD (g/cm <sup>2</sup> ): T-score:	_ Z-score:	_
Bone Fractures		
Risk of fracture: Average Minimal Increase: Moderate	ate Increase:	High Risk:
Has the patient had bone fractures?	es □ No	
If yes, number of fractures over past 12 months	or since last reco	ord:
Type of fracture:		

• See medication section to record bone medications

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Patient Initials:	Registry Code:
QUALITY OF LIFE (Website: click QUALITY OF L	IFF)
QUILLIT OF EITE (WEDSHE, CHER QUILLIT OF E	<i>)</i>
Date of home TPN start? (mm/dd/yyyy)	
What type of record is this? □ Baseline □ Follow-Up:	years
Is patient alive? $\square$ Yes $\square$ No	
If no, date of death? (mm/dd/yyyy)	
Is patient still on Home TPN? $\Box$ Yes $\Box$ No	
If no, when was TPN stopped? (mm/dd/yyy	yy)
Determine the Karnofsky Performance Scale at:  • Present time:  • Start of Home TPN (if available or estimated retrospection)	pectively):
Karnofsky Performance Scale:	

- 100 Normal, no complaints, no evidence of disease
- 90 Able to carry normal activity, minor signs/symptoms
- 80 Normal activity with effort, some signs/symptoms
- 70 Cares for self, unable to carry normal activity/active work
- 60 Requires occasional assistance, able to care for most needs
- 50 Requires considerable assistance, frequent medical care
- 40 Disabled, requires special care and assistance
- 30 Severely disabled, hospitalization indicated, death not imminent
- 20 Hospitalization necessary, very sick, active supportive treatment
- 10 Moribund, fatal processes progressing rapidly
- 0 Dead

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HOSPITALIZATION (Website: click HOSPITALIZATION)
What type of record is this? □ Baseline □ Follow-Up: years
Is the number of hospitalizations available over past 12 months? $\Box$ Yes $\Box$ No
If yes, number of hospitalizations over past 12 months:
Total number of days in hospital over past 12 months:
How many of those hospitalizations are due to TPN-related complications?

How many of those total days in hospital are due to TPN-related complications? \_\_\_\_\_

Patient Initials: \_\_\_\_\_ Registry Code: \_\_\_\_\_

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HTPN REGIMEN (Website: click HTPN REGIMEN)
What type of record is this? □ Baseline □ Follow-Up: years
Is this patient still on Home TPN? $\Box$ Yes $\Box$ No
When did Home TPN regimen start? (mm/dd/yyyy)
When did Home TPN regimen end? (if applicable) (mm/dd/yyyy)
Has there been an interruption in HTPN since last entry? $\Box$ Yes $\Box$ No
If yes, how many months?
Has there been any change (macronutrients, micronutrients, volume, calories, days per week) in HTPN regimen since the last entry? $\Box$ Yes $\Box$ No
Reasons HTPN regimen ended:
□ Weaned
<ul> <li>□ Deceased</li> <li>If death:</li> <li>• Is it TPN-related? □ Yes □ No</li> <li>If yes, cause(s) of TPN-related death:</li> </ul>
☐ Sepsis ☐ Thrombosis/embolus ☐ Liver failure ☐ Other (specify)
Is it non-TPN related death? □ Yes □ No  If yes, cause(s) of non-TPN related death:  □ The latest transfer of the second o
☐ Underlying disease ☐ Cardiovascular ☐ Cancer ☐ Other (specify):
☐ Intestinal transplantation
☐ TPN-related complications Specify
□ Non-TPN related complications Specify
□ Other Specify
Current HTPN Regimen Details Please note: If patient expired or off TPN, record the last available TPN prescription
Is the TPN bags/month known? ☐ Yes ☐ No Number of bags per month:  TPN regimen cycled? ☐ Yes ☐ No

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Is the TPN hours of infusion/day	known? □ Yes □ No	
Number of hours of infusion/day	:	
Number of days/week on TPN: _		
□ 3-in-1 system □ 2-in-1 syste	em   Hydration only	
micronutrients as daily averages	describe the quantity of the following macro and over a one-week period. For example: multiply nutrient f days per week the patient receives HTPN, then divide the verage.	
TPN daily average: Amino acid content (g/day): Lipids (mL/day):	Dextrose (g/day):  Concentration □ 10% □ 20% □ 30%	
Name of fipid:	Concentration   10%   20%   30%	
•	acid + dextrose + lipids) (kcal/day):* stein - 4 kcal/g, lipid 20% - 2 kcal/mL)	
Additional IV fluids (average over Describe additional IV fluids	er 7 days) (mL):	
Additives: Multi-12 - □ Yes □ No Other TPN vitamins: Heparin (units):	Vitamin K - □ Yes □ No	
	N bag: None	
Trace elements/electrolytes conv	erted to umol/day and mmol/day, respectively?	
Trace elements contents (umol/da	ay) daily average:	
Zinc:	Manganese:	
Selenium:	Chromium:	
Copper:	Iodide:	
Iron:		
Electrolytes contents (mmol/day)	daily average:	
Na:	Cl:	
K:	Ca:	
Phosphate:	Acetate:	
Mg:	Other (specify):	
	` i	

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INDICATIONS FOR HTPN (Website: click II	NDICATIONS FOR HTPN)		
What type of record is this? □ Baseline □ Follow-	Up: years		
If baseline, enter information below.			
If follow-up, has the indications for HTPN changed s If yes, enter information below. If no, proceed to the	3		
1. Short bowel syndrome: - $\square$ Yes $\square$ No If y	es, choose the cause(s):		
$\Box$ Volvulus	□ Trauma		
☐ Crohn's disease	□ Necrotizing Enterocolitis		
<ul> <li>☐ Mesenteric infarction due to</li> <li>☐ venous thrombosis or</li> <li>☐ arterial thrombosis/embolus</li> </ul>	☐ Intestinal atresia		
<ul> <li>□ arterial thrombosis/embolids</li> <li>□ Surgical complication</li> <li>□ Other(specify):</li></ul>	☐ Gastrochesis		
2. Mucosal defects: ☐ Yes ☐ No If yes, choose	e the cause(s)·		
•	☐ Microvillus inclusion		
☐ Celiac disease	□ Radiation Enteritis		
☐ Autoimmune enteritis	☐ Other(specify):		
3. Motility disorder: $\Box$ Yes $\Box$ No If yes, choose the cause(s):			
<ul><li>□ Pseudo-obstruction</li><li>(□ Primary □ Secondary)</li></ul>	Cause of pseudo-obstruction:		
☐ Aganglionosis / Hirschprung's Disease	□ Visceral myopathy		
	☐ Neuronal Intestinal Dysplasia		
4. Tumour/cancer: ☐ Yes ☐ No If yes, choose diagnosis:			
□ Desmoids	□ Carcinoid		
☐ Gardner's syndrome	□ Ovarian		
☐ Familial Polyposis	☐ GI tract		
<b>71</b>	(specify location):		
☐ Other cancer(specify location):			
5. Surgical complications: ☐ Yes ☐ No If yes	, define:		
☐ Enterocutaneous fistula	□ Obstruction		
□ Other (specify)			
6. Pancreatic Disorders: ☐ Yes ☐ No Cause:			

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7. Other (specify):

VASCULAR ACCESS (Website: click VASCULAR ACCESS)
What type of record is this? □ Baseline □ Follow-Up: years
If baseline, enter information below.
If follow-up, has there been any change in vascular access since last entry?  ☐ Yes ☐ No If yes, enter information below. If no, proceed to LINE SEPSIS section below.
Type of catheter:
PICC  Tunnelled Catheter (e.g. Hickman):  Implanted Catheter (e.g. PortaCath):  Other (specify):
Number of lumens:
Inserted □ surgically □ radiologically □ Other (specify): □ unknown
Date of insertion: (mm/dd/yyyy)
Line Sepsis
<b>NOTE:</b> If patient expired or off TPN, look at the 12 months prior to death/weaning, i.e. 12 months from the extraction date, which might not be the actual day you are filling out this form (see also first page).
Is the number of line sepsis over last 12 months available: $\Box$ Yes $\Box$ No
If yes, number of documented line sepsis over past 12 months (positive line blood culture + fever):
Number of changes in vascular access over past 12 months: unknown:
Reason for line change:
How many times has the line been changed for each of the following reasons over the past 12 months?  • Sepsis:  • Break:  • Occlusion:

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LABORATORY RESULTS (Web	bsite: click LABORATORY RESULTS)
What type of record is this? $\square$ Baseline	□ Follow-Up: years
	patient has been stable over 2 months and not com the same period of time every year unless vailable. Please enter in specified units.
Date of Lab Results: (mm	n/dd/yyyy)
Hb (g/L): WBC (x 10 <sup>9</sup> /L): Platelets (x 10 <sup>9</sup> /L):	MCV (fL): Neutrophils (x 10 <sup>9</sup> /L):
Na (mmol/L): K (mmol/L): Mg (mmol/L): Phosphate (mmol/L): Creatinine (umol/L): ALP(U/L): AST(U/L): Total protein (g/L): INR: PT(s): PTT(s): PTT(s)	Cl (mmol/L): Bicarbonate (carbon dioxide)(mmol/L): Ca (mmol/L): BUN (urea) (mmol/L): Random Glucose(mmol/L): TBILI(umol/L): ALT(U/L): Albumin (g/L): Pre-albumin (if available)(g/L):
Cholesterol (mmol/L): Ferritin (ug/L): Iron Sat: RBC Folate (nmol/L): PTH (pmol/L):	Triglycerides (mmol/L): Iron (umol/L): Transferrin (g/L): Vit B12 (pmol/L): 25-OH vit D (nmol/L):
Plasma trace elements: Zinc (umol/L): Chromium (umol/L): Copper (umol/L):	Selenium (umol/L): Manganese (nmol/L):
24-H Urine: Total Oxalates(umol/d): Total Calcium(umol/d): Total urine volume(mL):	Total Citrate(mmol/d): Total Creatinine(mmol/d):

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I IVED COMPLICATIONS WITH A LIVER COMPLICATION					
LIVER COMPLICATIONS (Website: click LIVER COMPLICATION)					
What type of record is this?   Baseline   Follow-Up: years					
If baseline, enter information below.					
If follow-up, has there been any change in liver condition since last entry?  ☐ Yes ☐ No If yes, enter information below. If no, proceed to CURRENT THERAPY FOR LIVER DISEASE					
<u>Liver disease</u> ? □ Yes □ No					
In the physicians judgement, is the liver disease TPN-related? $\Box$ Yes $\Box$ No					
If TPN-related, diagnosis of liver disease (specify):					
• If non-TPN related, diagnosis of liver disease:					
$\Box$ Viral Hepatitis: $\Box$ Hepatitis A $\Box$ Hepatitis B $\Box$ Hepatitis C					
☐ Autoimmune ☐ Hemachromatosis ☐ Alcohol-induced ☐ Metastasis					
Liver biopsy? ☐ Yes ☐ No  If yes, date of biopsy: (mm/dd/yyyy)  Results: ☐ TPN cholestasis ☐ Steatosis ☐ Fibrosis ☐ Cirrhosis					
Other diagnosis (specify):					
Abdominal Ultrasound/Computed Tomography?					
Other causes of liver disease excluded?   Yes   No					
CURRENT THERAPY FOR LIVER DISEASE					
Has there been change in TPN Regimen for liver disease? ☐ Yes ☐ No If yes, what was the action taken: Reduce dextrose in TPN? ☐ Yes ☐ No Reduce lipids in TPN? ☐ Yes ☐ No Reduce TPN days/week? ☐ Yes ☐ No Discontinue TPN? ☐ Yes ☐ No					
Changes to Enteral:   Yes  No  Changes to Oral:  Yes  No  Define changes:  See mediagtion section to record liver mediagtions					
See medication section to record liver medications.					

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MEDICATIONS (Website: click MEDICATIONS)						
What type of record is this? □ Baseline □ Follow-Up: years						
Type/name of current oral and IV medications:  Immuno suppressors (specify):  Motility agents (specify):  Antidepressors (specify):  Narcotics (specify):  Antidiarrheal medication (specify):  Sedatives (specify):  Reason (specify):  Reason (specify):  Insulin medication (specify):  Subcutaneous						
Liver Medications:  URSO:						
Bone Medications:  Oral calcium:						
Other medications:						

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ADDITIONAL DIAGNOSIS (Website: click Additional Diagnosis)					
What type of record is this? □ Baseline			□ Follow-Up:	years	
Date of last assessment:			(mm/dd/yyyy)		
Other medical diagnos	i <u>is</u>				
Seizures:	$\square$ Yes	$\square$ No			
Stroke:	□ Yes	$\square$ No			
Heart disease:	$\square$ Yes	$\square$ No			
Artificial heart valve:	□ Yes	$\square$ No			
Organ transplant:	□ Yes	$\square$ No			
High blood pressure:	□ Yes	$\square$ No			
Blood disorder:	□ Yes	$\square$ No			
Liver disease:	□ Yes	$\square$ No			
Diabetes:	□ Yes	$\square$ No			
Pacemaker:	□ Yes	$\square$ No			
Kidney disease:	□ Yes	$\square$ No			

Arthritis/Joint:  $\Box$  Yes  $\Box$  No

Other:  $\square$  Yes  $\square$  No