## European (ESPEN/ESNM) Survey on Clinicians' Perspectives on the Diagnosis and Management of Severe Gastrointestinal Dysmotility in adults

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Name: optional if you would like your participation to be acknowled	lged at the end of the published manuscript
What is the name of your institution?	
n which country is your unit based? *	
Please Select V	
Which department(s) do you work in?* Select at least 1.	
☐ Intestinal Failure	
☐ Gastroenterology	
Upper GI surgery	
Colorectal surgery	
General surgery	
☐ Intestinal Transplantation	
☐ Neurogastroenterology and Motility	
Other, please specify	
What is your role?*	
Clinical Academic (Professor/Associate Professor)	
Consultant (Attending) physician/surgeon	
Clinical Trainee/ Fellow	
Other, please specify	

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6.	Which description best fits your hospital/unit?*
	National referral centre for intestinal failure and/or intestinal transplantation
	Regional referral centre for intestinal failure and/or intestinal transplantation
	○ Teaching hospital, non-referral centre for intestinal failure and/or intestinal transplantation
	☐ General hospital, non-referral centre for intestinal failure and/or intestinal transplantation
	Other, please specify
	Curior, produce opening
_	
7.	What is your background?
	☐ Physician
	Surgeon
	Other, please specify
8.	Which of the following multidisciplinary team members do you have in your unit/hospital?
0.	
	Intestinal failure clinician
	Gastroenterologist with a sub-specialty interest in Functional/ Neurogastroenterology and Motility disorders
	Specialist dietician
	Clinical Psychologist
	Chronic Pain management team
	Histopathologist with specialist interest in GI neuromuscular disorders
	Intestinal Transplant surgeons
	Clinical Pharmacist with specialist interest in parenteral nutrition
	☐ None of the above
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	○ > 50								
11.	Based upon your response to question 10, approximately what percentage of these patients meet the clinical and radiological criteria for CIPO?* Please see definitions of CIPO and ED above  ○ 0-25%  ○ 25-50%  ○ 50-75%  ○ 75-100%								
12.		clinical practice?*	recent increase in	the relative prop	ortions of ED vs.	CIPO patients			
13.	which of the followard of the incidence	owing statements of CIPO appears to of ED appears to b	e rising proportion of CIPO	*		D vs. CIPO,			
14.	Please estimate CIPO and ED?*	(in your experien	ce) the typical time	e interval from or	set of symptoms	to diagnosing			
		<6	6-12	1-5	5-10	> 10			
	OIDO	months	months	years	years	years			
	CIPO	0	0	0	0	0			
	ED	O	O	O	O	O			
15.	that you see who	o have a recogniz	with CIPO or ED ued <u>secondary</u> can as opposed to idio	use (i.e. a system	nic disease such				

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16. In your clinical practice, have you noticed a change in the frequency CIPO or ED referrals in association with any of the following list of disorders? Please select the statement that best reflects your recent experiences.\*

The frequency

The frequency

The frequency

		of this condition in referrals with CIPO/ED is	of this condition in referrals with CIPO/ED is the	of this condition in referrals with CIPO/ED is
	Coloredores	increasing	same	decreasing
	Scleroderma Neurological disorders (e.g. mitochondrial disorders)	0	0	0
	Endocrine disorders	$\circ$	$\circ$	$\circ$
	Ehlers-Danlos syndrome/ joint hypermobility disorders	0	0	0
	Paraneoplastic disorders	$\circ$	$\circ$	$\circ$
	Autoimmune disorders	$\circ$	$\bigcirc$	$\bigcirc$
	Autonomic dysfunction (e.g. postural orthostatic tachycardia syndrome)	0	0	0
	Hirchsprung's disease	$\circ$	$\circ$	$\circ$
	<ul> <li>Ehlers-Danlos syndrome/ joi</li> <li>Paraneoplastic disorders</li> <li>Autoimmune disorders</li> <li>Autonomic dysfunction (e.g.</li> <li>Hirchsprung's disease</li> <li>Other, please specify</li> </ul>		rdia syndrome)	
Diaç adu	opean (ESPEN/ESNM gnosis and Managements  C. Diagnosing CIPO and EE  When comparing your experistatements best reflects your  CIPO is a more difficult diagnosing comparing to the comparing of the comparing your experistatements best reflects your	ent of Severe Gas  D in clinical practice iences making the diagnost opinion?*	trointestinal Dys	motility in Page 5
	○ ED is a more difficult diagnor ○ Both CIPO and ED are equa	sis to make	e	

OIPO and ED are not difficult diagnoses to make

19.	Based on your answer to question 18, in your opinion, how often do the following factors contribute to difficulties or delays in the diagnosis of CIPO or ED?*							
	,	Never (0%)	Sometimes (<50% cases)	Often (50- 99% cases)	Always (100% of cases)			
	Non-specific nature of symptoms	$\circ$	$\circ$	0	0			
	Difficulty excluding mechanical obstruction	$\circ$	$\circ$	$\circ$	$\circ$			
	Limitations of diagnostic tests	$\circ$	0	$\circ$	$\circ$			
	Difficulty in eliminating opiates as the cause	0	0	$\circ$	$\circ$			
	Psychological Comorbidity in CIPO/ED	0	0	0	0			
	Difficulty obtaining histopathology	$\circ$	0	$\circ$	0			
	Lack of awareness of CIPO/ ED amongst non- specialists	0	0	0	0			
20.	How often do you perform ED?*	the following inves	tigations when establisl	ning the diagnosi	s of CIPO or			
		Never (0%)	Sometimes (<50% cases)	Often (50- 99% cases)	Always (100% of cases)			
	Oesophageal Manometry	$\circ$	$\circ$	0	0			
	Small Bowel Manometry	$\circ$	$\circ$	$\circ$	$\circ$			
	Colonic Manometry	$\circ$	$\circ$	$\circ$	$\circ$			
	Anorectal Manometry	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$			
	Gastric emptying study (scintigraphy)	$\circ$	$\circ$	$\circ$	$\circ$			
	Motility Small Bowel MRI (Cine MRI)	$\circ$	$\circ$	$\circ$	$\circ$			
	MRI Enterography (MRE)	$\circ$	$\circ$	$\bigcirc$	$\circ$			
	Barium Meal and Follow through	$\circ$	$\circ$	$\circ$	$\circ$			
	Wireless Motility Capsule (SmartPill)	0	$\circ$	$\circ$	$\circ$			
	Lactulose/Hydrogen breath test (Orocaecal transit time)	0	0	$\circ$	$\circ$			
	X-ray colonic transit study	$\circ$	0	$\circ$	$\circ$			
	Full thickness jejunal biopsies	$\circ$	0	$\circ$	$\circ$			
	Plain X-ray Abdomen	$\circ$	$\circ$	$\circ$	$\circ$			
	Breath tests for Small Intestinal Bacterial Overgrowth	0	0	$\circ$	0			
		0	$\circ$	$\circ$	$\circ$			

Jejunal aspirates for Small Intestinal Bacterial overgrowth
At the time of CIPO

	Domperidone	(0%)	cases		ises	cases	100% cases
24.	How often do you find the	he following tre	eatment appro		ful in patient	s with CIPO o <b>50-75%</b>	75-
							Page 6
	opean (ESPEN/ES gnosis and Manaç	-	-		-		
	Can help determine patient prognosis	0	0	0	$\circ$	0	0
	Influences choice of prokinetic drug	0	$\circ$	0	$\circ$	0	0
	Influences surgical management decisions	0	0	$\circ$	$\circ$	$\circ$	0
	Influences nutritional management decisions (i.e. oral vs enteral vs parenteral)	0	0	0	0	0	0
	Can lead to targeted medical therapies e.g. immunosuppression	0	0	0	0	0	0
		Never	1- 25% of cases	25- 50% of cases	50- 75% of cases	75- 100% of cases	Not sure
23.	In your opinion, how opatients with CIPO or E		ckess biopsy	results alter	the folllowing	ng factors in m	nanaging
	When the diagnosis is  Other, please specify		evious of plant	ica sargical i	oroccure		
	<ul><li>○ Never</li><li>○ Routinely</li><li>○ Only if a specimen is a</li></ul>	available from n	revious or plan	ned surgical i	orocedure		
22.	When do you request fu	ull thickness bi	opsies in ED	or CIPO?*			
	○ 50-75% ○ 75-100%						
	0-10% 10-25% 25-50%						
21.	At the time of CIPO or E underwent surgeries that 0-10%					itients that pre	eviously
	-						

Metoclopromide	0	0	0	<u> </u>	0	
Erythromycin	0	0	O	0	0	
Prucalopride	<u> </u>	<u> </u>	<u> </u>	0	0	
Linaclotide	O	0	O	0	0	
Octreotide	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	
Neostigmine/ Pyridostigmine	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	
Cisapride	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	
Naloxegol	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	
Antibiotics for small intestinal bacterial overgrowth	0	0	0	0	0	
Neuropathic analgesics (e.g. Pregabalin, Gabapentin, antidepressants)	0	0	0	0	0	
Opiate analgesia	$\circ$	$\circ$	$\bigcirc$	$\bigcirc$	$\circ$	
Venting gastrostomy	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	
Venting Colostomy	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	
Enteral Tube feeding	0	$\circ$	$\circ$	$\circ$	$\circ$	
Parenteral Nutrition	$\circ$	$\circ$	$\circ$	$\circ$	$\circ$	
Clinical Psychology interventions (e.g. cognitive behavioural therapy, hypnotherapy)	0	0	0	0	0	
Surgery	0	$\circ$	$\circ$	$\circ$	$\circ$	
Have you noticed any difference in the prevalence of psychological co-morbidity between the ED and CIPO sub-types?  Patients with CIPO have higher prevalence of psychological co-morbidity compared to ED  Patients with ED have a higher prevalence of psychological co-morbidity compared to CIPO  The prevalence of psychological co-morbidity is similar in ED and CIPO						
Have you noticed any difference in the health care utilization between patients with ED and CIPO (select any that apply)?  Patients with CIPO have a higher readmission rate than patients with ED  Patients with ED have a higher readmission rate than patients with CIPO  Patients with ED and CIPO have similar readmission rates  Patients with CIPO have a longer length of inpatient stay than patients with ED.  Patients with ED have a longer length of inpatient stay than patients with CIPO  Patients with ED and CIPO have similar lengths of inpatient stay						

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	rage
	Functional/dysmotility patients who do not meet CIPO or ED criteria
27.	Have you ever referred patients for long term parenteral nutrition (PN) with suspected functional/dysmotility diagnoses who <b>do not</b> meet the diagnostic criteria for CIPO or ED?
	Please Select V
28.	If you answered yes to question 27, <b>what is the reason</b> that these patients do not meet the diagnostic criteria for ED or CIPO?
	If you answered NO to Question 27, then please proceed to question 29.
	☐ Small Bowel motility studies not available
	☐ Small Bowel motility studies not tolerated
	Small Bowel motility studies either normal or not done, but enteral tube feeding not tolerated
	Clinical decision not to order Small Bowel motility studies because these are not usually useful
	Other, please specify
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## E. Home Parenteral Nutrition (HPN) dependent patients with CIPO and ED

If you do not look after patients on HPN then please answer '0' in question 29 to complete the survey.

29.	Overall, approximately how many HPN dependent patients with any cause of Type III intestinal
	failure are currently under your care?*
	$\bigcirc$ 0

1-20 20-50 50-100 100-150 150-200 200-250 250-300

○>300

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30.	What proportion of you None (0%) 1-10% 10-25% 25-50% 50-75% 75-100%	ur total HPN dep	endent patients	have CIPO or ED	)?	
31.	What proportion of you diagnosis that does <u>not</u> None (0%)  1-10%  10-25%  25-50%  50-75%  75-100%			have a suspecte	d Functional/dy	smotility
32.	In your experience, ho ED related complication		PN have a role in	reducing any of 25-50%	the following CIF	75-
		(0%)	cases	cases	cases	100% cases
	Dehydration	$\bigcirc$	$\bigcirc$	$\circ$	$\circ$	$\circ$
	Metabolic impairments	$\circ$	$\bigcirc$	$\circ$	$\bigcirc$	$\circ$
	Quality-of-life	$\circ$	$\bigcirc$	$\circ$	$\circ$	$\circ$
	Bacterial Translocation	$\circ$	$\bigcirc$	$\circ$	$\bigcirc$	$\circ$
	Gastrointestinal symptoms	$\circ$	$\circ$	0	$\circ$	$\circ$
	Aspiration pneumonia	$\circ$	$\circ$	0	$\circ$	$\circ$
	Hospital admissions	$\circ$	$\circ$	0	$\circ$	$\circ$
33.	In your experience, on proportion of patients v  0-10%  10-25%  25-50%  50-75%  75-100%				and ED, approxin	nately what
34.	In your experience, ho patients with CIPO or		ollowing factors o	determine long-te	erm dependence	on HPN in
		Never (0%)	1-25% cases	25-50% cases	50-75% cases	75- 100% cases
	Primary vs. secondary CIPO or ED	0	0	0	0	$\circ$
	Histopathological diagnoses	$\circ$	0	0	0	$\circ$

	(Myopathy, neuropathy or normal)					
	Tolerance of oral or enteral intake	$\circ$	$\circ$	0	$\circ$	$\circ$
	Manometry findings	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$	$\bigcirc$
	Age at diagnosis	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$	$\circ$
	Long-term opiate use	$\circ$	$\circ$	0	$\circ$	$\circ$
	Psychological factors	0	0	0	$\circ$	0
	opean (ESPEN/ES gnosis and Manag Its	,		•		
35.	In your experience, how			in HPN depender	it patients with	CIPO or ED
	Catheter complication Complication rates are Complication rates are	rates are better than or similar to those obse	other causes of	causes of Chronic Ir	ntestinal Failure	
36.	In your experience, doe differ between patients Failure?					
	Rates of IFALD are be					
	<ul><li>Rates of IFALD are sin</li><li>Rates of IFALD are wo</li></ul>			_	nal Failure	
37.	How does the prevalence with ED and CIPO and				een patients d	iagnosed
		Higher prevalence of		Similar prevalence of	pro	Lower evalence of
		psychologica co-morbidit than others causes of Chronic Intestinal Failure	У	psychological co-morbidity to other causes of Chronic Intestinal Failure	co- con oth of In	chological morbidity napred to er causes Chronic itestinal Failure
	CIPO	$\circ$		$\circ$		$\bigcirc$
	ED	$\circ$		0		$\circ$
38.	In your experience, how CIPO or ED when comp  5 year survival outcom  5 year survival outcom  5 year survival outcom	pared to Črohn's dis es are better than Cro es are similar to those	sease related ohn's disease e observed in	Chronic Intestina related Chronic Inte Crohn's disease rel	I Failure? stinal Failure ated Chronic Int	estinal Failure

39.	What is your experience of intestinal transplantation in patients with CIPO or ED who require HPN (select any that apply)?
	$\square$ I would never consider referring a patient with CIPO or ED for intestinal transplantation
	☐ I would never consider referring a patient with ED for intestinal transplantation
	☐ I would never consider referring a patient with CIPO for intestinal transplantation
	☐ I have no experience in referring any patients with Chronic Intestinal Failure requiring HPN for intestinal transplantation
	☐ I would refer patients with CIPO or ED for intestinal transplantation if necessary.