

Intestinal failure: definitions

Fleming & Remington, 1981

 Reduction in functioning gut mass below the minimum amount necessary for adequate digestion & absorption of nutrients

Nightingale, 2001

 Reduced intestinal absorption so that macronutrient and/or water & electrolyte <u>supplements</u> are needed to maintain health and/or growth

Pironi et al, 2014

- The reduction of gut function below the minimum necessary for the absorption of macronutrients and/or water & electrolytes
- Such that <u>intravenous</u> <u>supplementation</u> is required to maintain health and/or growth

Pironi et al. Clin Nutr 2015;34(2):171-80

Definitions

Intestinal failure

The reduction of gut function to below the minimum necessary for the absorption of macronutrients and/or water and electrolytes such that IV supplementation is required to maintain health and/or growth

Intestinal insufficiency

The reduction of gut absorptive function that does **NOT** require intravenous supplementation to maintain health and/or growth

Pironi et al. Clin Nutr 2015 Apr;34(2):171-80





Chronic IF requiring HP	num -			
Chronic (benign) IF: 2014 Orphanet list of rare diseases ²				
Incidence	Prevalence			
2–3 cases/million (Europe) ^{1,3}	0.4/million (Poland) ¹			
2-8 cases/million (UK) ^{3,4,5}	5/million (Spain) ¹			
	10–21/million (UK) ^{3,4,5}			
All to reather in o	30/million (Denmark) ¹			
2-8 cases/million (UK) ^{3,4,5}	34/million (Europe) ²			
HPN, home parenteral nutrition IF, intestinal failure	 Jeppesen. JPEN J Parenter Enteral Nutr 2014;38(1Suppl):85–135 Orphanet Report Series. Prevalence of rare diseases: Bibliographic data. May 2014 BANS Report 2011, BAPEN. <u>www.bapen.org.uk</u> BANS Report 2014, BAPEN. <u>www.bapen.org.uk</u> BANS Report 2016, BAPEN. <u>www.bapen.org.uk</u> 			













Short bowel: types

Mid small bowel resection	Jejunocolic anastomosis	Jejunostomy or high output fistula
Uncommon	Usually fluid balance maintained	Fluid balanceNet secretorsNet absorbers
Rarely problemsNutritionFluid balance	Nutritional issues when jejunal length <100 cm	Nutritional issues
	salvage 700–950 kcal/day ation and SCFA absorption)	ternon-ser
SCFA, short-chain fatty acids		Nightingale (ed). Intestinal failure. 2001:177–361
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Massive intestinal resection	SMA/SMV thrombosis	SMA embolus	Massive volvulus	Desmoid tumour	
Repeated SB resections	Crohn's disease	Post irradiation enteritis	Repeated surgery for surgical comps		
EC fistulae	High output				
Gastric bypass (obesity)	Volvulus	Ischaemia			
Paediatric causes	NEC	Intestinal atresia	Gastroschisis	Midgut Volvulus	Aganglionosis & tumours

