



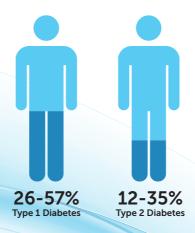
## Pancreatic Exocrine Insufficiency (PEI) and Diabetes

#### What is it?

Pancreatic exocrine insufficiency (PEI) occurs when the pancreas does not produce enough digestive enzymes, resulting in maldigestion, malabsorption and possible malnutrition.<sup>1</sup>

PEI increases the risk of malnutrition, which in turn may affect mortality, morbidity and quality of life.<sup>2</sup>

Emerging evidence suggests that PEI may be prevalent in diabetes.3-5



### What are the signs and symptoms?

PEI may go undetected because the signs and symptoms are similar to those of other gastrointestinal diseases. 1,6,7



### How do I diagnose and manage PEI in people with diabetes?

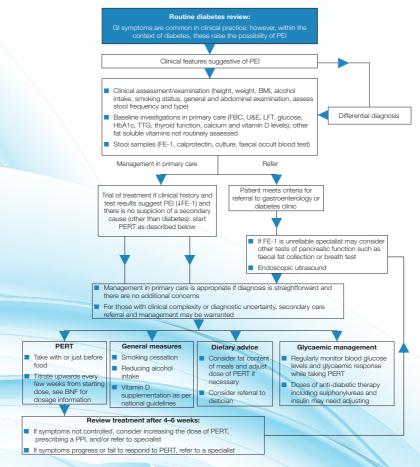
Turn over to view the management algorithm for *gastrointestinal disorders in diabetes - could it be pancreatic exocrine insufficiency?* Developed by a multidisciplinary expert panel and supported by an educational grant from Mylan.<sup>8</sup>

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# Gastrointestinal disorders in diabetes could it be pancreatic exocrine insufficiency?8



## For a copy of this algorithm, please contact Mylan via info@mylan.co.uk

- Smith RC, Smith SF, Wilson J, Pearce C, Wray N, Vo R et al. Australasian guidelines for the management of pancreatic exocrine insufficiency. Australasian Pancreatic Club, October 2015. pp 1-122.

- October 2015, pp.1-122.

  Ockenga J. Importanceôr nutritional management in diseases with exocrine pancreatic insufficiency, HPB (Oxford) 2009; 11 (Suppl 3): 11-15 (cls A. Haastert B. Giani G. et al. Low fecal elastase-1 in type I diabetes mellitus. Z Castroenterol 2001; 39: 823-30.

  Hardt PD, Krauss A. Bretz L. et al. Pancreatic exocrine function in patients with type 1 and type 2 diabetes mellitus. Acta Diabetol 2000; 37: 105-10.

  Rathmann W, Haastert B, Icks A, et al. Low faecal elastase 1 concentrations in type 2 diabetes mellitus. Scand J Gastroenterol 2001; 36: 1056-61.

  Ho T-W, Wu JM, Kuo TC, Yang CY, Lia HS, Hsien SH, et al. Change of both endocrine and exocrine insufficiencies after acute pancreatitis in non-diabetic patients: a nationwide population-based study. Medicine (Baltimore) 2015; 94 (27): e1123

  Sikkens EC, Cahen DT, de Wit J, Looman CW, van Eijck C, Bruno MJ. A prospective assessment of the natural course of the exocrine pancreatic function in patients with a pancreatic head turnor. J Clin Gastroenterol 2014; 48 (5): e43-6.

  Hambling et al, Gastrointestinal disorders in diabetes could it be pancreatic exocrine insufficiency?, Guidelines, July 2018

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