# think PE

Insights on Pancreatic Exocrine Insufficiency (PEI)

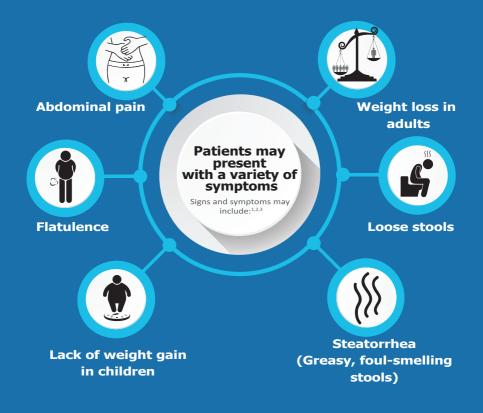
#### **Clinical considerations and potential outcomes**

PEI can occur in several distinct patient groups.<sup>1</sup> This brochure provides details on the most common symptoms you should look out for, patients who are at the greatest risk of developing PEI, and the importance of treatment.

Know the symptoms and implications—THINK PEI.

#### PEI: A CAUSE OF MALNUTRITION

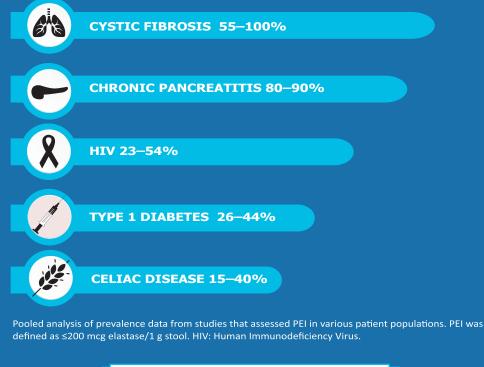
The pancreas plays an important role in maintaining effective digestion and nutrient absorption through the secretion of specific enzymes.<sup>1,2</sup> PEI occurs when the pancreas fails to secrete sufficient amounts of these enzymes to maintain normal digestive processes, resulting in fat maldigestion and malabsorption.<sup>1,2,3</sup>

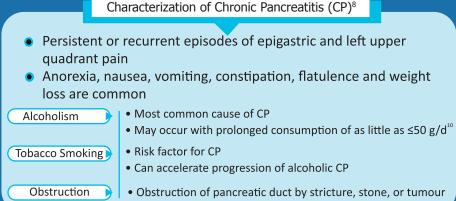


Pancreatic enzyme replacement therapy (PERT) is recommended as the FIRST-LINE treatment for PEI.<sup>1</sup>

#### PEI OCCURS AS A RESULT OF SEVERAL MEDICAL CONDITIONS

Prevalence of mild to moderate PEI in various patient populations<sup>4–7</sup>

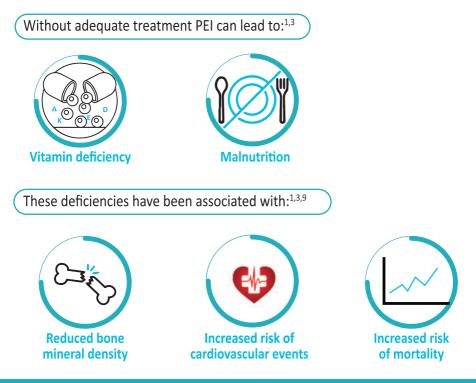




When treating any of these patients, remember to THINK PEI.

### **CLINICAL CONSEQUENCES OF PEI**

PEI is not just associated with gastrointestinal complaints. Left untreated it may be associated with malnutrition-related morbidity and increased risk of mortality.<sup>9</sup>



## If your patients are presenting with any of the symptoms discussed in this brochure, be sure to THINK PEI.

1. Toouli J et al. Management of pancreatic exocrine insufficiency: Australasian Pancreatic Club recommendations. Med J Aust. 2010;193(8):461–7. 2. Fieker A et al. Enzyme replacement therapy for pancreatic insufficiency: present and future. Clin Exp Gastroenterol. 2011;4:55–73. Sikkens ECM et al. Pancreatic enzyme replacement therapy in chronic pancreatitis. Best Pract Res Clin Gastroenterol. 2010;24(3) : 33 – 47. 4. Carroccio A et al. Pancreatic dysfunction and its association with fat malabsorption in HIV infected children. Gut. 1998;43:558–63. 5. Carroccio A et al. Exocrine Pancreatic Function and Fat Malabsorption in Human Immunodeficiency Virus-Infected Patients. Scand J Gastroenterol. 1999;34(7):729–34. 6. Keller J and Layer P. Human pancreatic exocrine response to nutrients in health and disease. Gut. 2005;54(Suppl 6):vi1–28. 7. Leeds J et al. The role of fecal elastase-1 in detecting exocrine pancreatic disease. Nat Rev Gastroenterol Hepatol. 2011;8(7):405–15. 8. Friedman LS et al. (2016) Liver, Biliary Tract, & Pancreas Disorders. In Current Medical Diagnosis & Treatment (55th edition). McGraw-Hill. 9. Lindqvist B. Diagnosis and treatment of pancreatic exocrine insufficiency. World J Gastroenterol. 2013;19(42):7258–66. 10. Lankisch 2001, Alcohol and CP

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