

**Supplementary File 1. Physician questionnaire. English translation.  
Questionnaires were developed and completed in Japanese language.**

S1. Have you treated patients with pancreatic exocrine insufficiency (PEI) in the last month?

- Treatment is being implemented
- No treatment is in place

S2. What is the actual number of PEI patients (based on medical records) that you have treated in the last month?

- 1
- 2
- 3
- 4
- 5
- 6–9
- ≥ 10

Q1. Assuming that the percentage of patients with PEI you treated in the last month is 100%, what percentage of PEI was caused by chronic pancreatitis and pancreatectomy? If other diseases may have caused the PEI, please specify the disease(s) and provide the corresponding percentage of patients.

- Chronic pancreatitis
- Pancreatectomy
- Other – Please specify

Q2. Which of the following items do you regard as indicative of showing symptomatic improvement in PEI patients (multiple answers allowed)?

- Improvement of PEI-related symptoms
  - Steatorrhea
  - Abdominal distension
  - Anorexia
  - Number of defecations
  - Diarrhoea
  - Foul-smelling stool
- Improvement of nutritional status

- Improvement of quality of life
- Other
- Not evaluated

Q3. Which of the following items do you use to assess nutritional status in patients with PEI (multiple answers allowed)? Which of the items is most important to you?

- Body mass index
- Albumin
- Haemoglobin
- Total cholesterol
- Weight loss (more than 10% in the last 6 months)
- Other
- Not evaluated

Q4. Which of the following items would you use to evaluate digestive and absorptive disorders in patients with PEI (multiple answers allowed)?

- Pancreatic function test
- Weight loss
- Presence of steatorrhea
  
- Other
- Not evaluated

Q5. What is the status of your own dietary guidance for PEI patients?

- Implemented
- Not implemented

If the response is “Not implemented” please answer Q6.

Q6. What are your reasons for not providing dietary guidance for PEI patients?

Q7. Who is primarily responsible for teaching your PEI patients about diet? Response limited to physicians who provide dietary guidance to PEI patients.

- Physician
- Nutritionist
- Nurse
- Other

Q8. How are you using different dietary guidance for patients with compensated chronic pancreatitis and patients with uncompensated chronic pancreatitis? Response limited to physicians who provide dietary guidance to PEI patients.

- I use it properly
- I don't use it properly

If the response is "I don't use it properly" please answer Q9.

Q9. What are your reasons for not properly using different dietary guidance for patients with compensated chronic pancreatitis and patients with uncompensated chronic pancreatitis?

Q10. What is the status of your own guidance on lipid intake for PEI patients? Response limited to physicians who provide dietary guidance to PEI patients.

- Implemented low-fat diet
- Implemented normal diet (no restriction on lipid ingestion)
- Not implemented

If the response is "Not implemented" please answer Q11.

Q11. What are your reasons for not providing guidance on lipid intake to patients with PEI?

Q12. What is the status of your own guidance on caloric intake for patients with PEI? Response limited to physicians who provide dietary guidance to PEI patients.

- Implemented low-calorie diet
- Implemented normal diet (no restriction on caloric intake)
- Not implemented

If the response is "Not implemented" please answer Q13.

Q13. What are your reasons for not providing guidance on caloric intake to patients with PEI?

Q14. If the percentage of PEI patients you have treated in the last month is 100%, what is the percentage of malnourished patients?

Q15. If the percentage of malnourished PEI patients you have treated in the last month is 100%, what is the percentage of patients who were prescribed pancreatic digestive enzyme drugs? Response limited to physicians with malnourished patients.

Q16. If the percentage of PEI patients with malnutrition who received digestive enzyme drugs in the last month is 100%, what percentage were prescribed pancreatic digestive enzyme drugs according to their potency? Response limited to physicians who have treated PEI patients in the last month and who have prescribed pancreatic digestive enzyme drugs.

- Prescribed low potency only
- Prescribed both low and high potency
- Prescribed high potency only

Q17. What are your reasons for prescribing pancreatic digestive enzyme drugs according to their potency? Response limited to physicians who have treated PEI patients in the last month and who have prescribed pancreatic digestive enzyme drugs.

Q18. If the percentage of malnourished patients with PEI who are currently prescribed high potency digestive enzyme drugs is 100%, what is the percentage according to dose? High titer prescribers: Response limited to physicians who have treated PEI patients in the last month and who have prescribed high potency pancreatic digestive enzyme drugs. High and low titer prescribers: Response limited to physicians who have treated PEI patients in the last month and who have prescribed high and low potency pancreatic digestive enzyme drugs.

Q19. What are your reasons for prescribing higher doses of high potency digestive enzyme drugs? Response limited to physicians who have treated PEI patients in the last month and who have prescribed high and low potency pancreatic digestive enzyme drugs.

- Main prescription dose of 900 mg/day

- Main prescription dose of 1800 mg/day
- Main prescription dose of 3600 mg/day
- Main prescription doses of 900 mg/day and 1800 mg/day
- Main prescription doses of 1800 mg/day and 2400 mg/day

**Supplementary File 1. Registered dietitian questionnaire. English translation. Questionnaires were developed and completed in Japanese language.**

S1. Is a board-certified instructor of the Japanese Pancreas Society (instructor category: chronic pancreatitis) affiliated with the medical institution you work for?

- Affiliated
- Not affiliated
- Don't know

If the response is "not affiliated" or "don't know" please answer Q2.

S2. Does your healthcare facility employ a physician who has treated one or more patients with chronic pancreatitis and pancreatic exocrine insufficiency (PEI) in the last month?

Q1. How do you currently implement dietary guidance for chronic pancreatitis patients with PEI?

- For outpatients only
- For outpatients and inpatients
- For inpatients only
- Not implemented

If the response is "Not implemented" please answer Q3.

Q2. What are your reasons for currently providing dietary therapy for PEI patients? Response limited to registered dietitians who provide dietary guidance to PEI patients.

Q3. What are your reasons for not currently providing dietary therapy to PEI patients?

Q4. What is the current status of your abstinence guidance for patients with chronic pancreatitis who are suspected of consuming alcohol? What is the implementation status of smoking cessation guidance for patients with chronic pancreatitis who are suspected of smoking? Response limited to registered dietitians who provide dietary guidance to PEI patients.

- For outpatients only

- For outpatients and inpatients
- For inpatients only
- Not implemented

Q5. Please provide the actual number of patients with chronic pancreatitis for whom you have provided dietary guidance in the last month (based on medical records). Response limited to registered dietitians who provide dietary guidance to PEI patients.

Q6. When you provide dietary guidance to patients with chronic pancreatitis, do you confirm the use of digestive enzyme medication? Response limited to registered dietitians who provide dietary guidance to PEI patients.

- For outpatients only
- For outpatients and inpatients
- For inpatients only
- Not implemented

Q7. Which of the following parameters do you use to assess nutritional status in patients with chronic pancreatitis (multiple answers allowed)? Which of the items is most important to you?

- Albumin
- Body mass index
- Hemoglobin
- Total cholesterol
- Weight loss
- Other

Q8. What dietary guidance do you provide to patients with compensated chronic pancreatitis? Response limited to registered dietitians who provide dietary guidance to PEI patients. Multiple answers allowed.

- Energy intake
  - Restrict
  - No limit (calculated in the same way as healthy people)
- Fat intake
  - Restrict
  - No limit (calculated in the same way as healthy people)
- Dietary supplements

- Others
- Nothing special

Q9. What dietary guidance do you provide to patients with uncompensated chronic pancreatitis? Response limited to registered dietitians who provide dietary guidance to PEI patients. Multiple answers allowed.

- Energy intake
  - Restrict
  - No limit (calculated in the same way as healthy people)
- Fat intake
  - Restrict
  - No limit (calculated in the same way as healthy people)
- Dietary supplements
- Others
- Nothing special

Q10. What sources have you used to acquire knowledge and information about dietary guidance for chronic pancreatitis? What medium are you currently using to acquire knowledge and information?

- In-hospital study session
- Study sessions and seminars outside the hospital
- Universities/Graduate schools
- Society
- Others
- Japanese Society of Parenteral & Enteral Nutrition (JSPEN)