A CASE OF CHANCE FINDING OF DISTAL PANCREATIC TUMOUR DURING THE PROCEDURE FOR CHRONIC PANCREATITIS

Probhas Kumar Sarkar1, Saurabh Das2, Partha Sarathi Mandal3, Kumar Dheeraj4

1Professor, Department of General Surgery, IPGME&R, SSKM Hospital, Kolkata.
2Assistant Professor, Department of General Surgery, IPGME&R, SSKM Hospital, Kolkata.
3Postgraduate Trainee, Department of General Surgery, IPGME&R, SSKM Hospital, Kolkata.
4Postgraduate Trainee, Department of General Surgery, IPGME&R, SSKM Hospital, Kolkata.

ABSTRACT

BACKGROUND
Chronic pancreatitis is not a rare surgical entity. Again isolated malignant pancreatic neoplasm is also not a rare entity. But occurrence of malignant pancreatic neoplasm in existing chronic pancreatitis is a rare incidence. Above all making a diagnosis and satisfactory successful treatment in such dual contrasting conditions is difficult and challenging. Preoperative diagnosis, excision of tumour with oncological clearance, simultaneous pancreaticodocholithotomy with successful drainage procedure are complex. Decision making is difficult if the tumour is detected peroperatively on table without preoperative diagnosis or even hints and suspicion. We are going to present such a case of chronic pancreatitis with preoperative diagnosis of dilated main pancreatic duct (MPD) with multiple stones in MPD. There was no hint of mass lesion in pancreas on imaging (USG whole abdomen and CECT whole abdomen).

MATERIALS AND METHODS
A 40-year-old gentleman, known smoker for over 20 years, was admitted with chief complaint of frequent attacks of epigastric pain for 7 months with imaging findings suggestive of chronic pancreatitis (USG and CECT whole abdomen- dilated main pancreatic duct with multiple macrocalculi). Our preoperative diagnosis was chronic pancreatitis for which we planned for Frey procedure. Peroperatively, an exophytic mass of about 5 cm in diameter was seen in the body of pancreas encroaching to dilated main pancreatic duct with multiple macrocalculli. We are going to present such a case of chronic pancreatitis with preoperative diagnosis of dilated main pancreatic duct (MPD) with multiple stones in MPD. There was no hint of mass lesion in pancreas on imaging (USG whole abdomen and CECT whole abdomen).

RESULTS
Postoperative recovery was uneventful. Histopathological report revealed moderately differentiated adenocarcinoma of pancreas (pt2N0Mx).

CONCLUSION
Pancreatic body neoplasm with chronic pancreatitis is seen rarely and if it is detected peroperatively it is a challenge. This type of dual contrasting condition can best be dealt with this logical and aggressive approach like in our patient.

KEYWORDS
Pancreatic Neoplasm, Chronic Pancreatitis, Frey Procedure, Distal Pancreatectomy with Splenectomy.


BACKGROUND

History of Present Illness

A 40-year-old gentleman, known smoker for over 20 years, was admitted in surgical ward on 30/07/2016 with a chief complaint of frequent attacks of epigastric pain for 7 months with imaging findings suggestive of chronic pancreatitis (USG and CECT whole abdomen- dilated main pancreatic duct with multiple macrocalculi). There was no history of weight loss and anorexia.

Past History

No history of hospital admission for any ailment previously.

Examination

General Survey- Mild pallor was present, no enlarged neck glands, no dependent oedema. Local Examination- Abdomen- soft, flat, no organomegaly.

Investigations

Haemoglobin- 10.3 g%, TLC- 6200 (P71, L27, M1, E1), FBS – 95 mg%, PPBS – 135 mg%, Urea – 27 mg%, Creatinine – 0.98 mg%, Total Bilirubin – 0.4 mg%, SGPT – 19 U/L, SGOT – 23 U/L, Alkaline phosphatase – 36 IU/L, Total protein – 8 g%, Albumin – 4.4 g%. USG whole abdomen (on 12-07-16) – Pancreas normal in size and shape, homogeneous in echotexture, 2-3 calculi seen within the pancreatic duct and the pancreatic duct measures 8 mm (dilated) – suggestive of chronic pancreatitis.
CECT whole abdomen (on 20-07-16) - Pancreas is normal in size and shape, no focal area of altered density or enhancement is noted, pancreatic duct is dilated and shows multiple large irregular calculi within.

Our preoperative diagnosis was chronic pancreatitis for which Frey procedure was planned.

Peroperative Findings were:
- a) Multiple calculi felt in the pancreatic head.
- b) An exophytic mass of about 5 cm in diameter was seen in the body of pancreas encroaching to the tail.
- c) No ascites.
- d) No liver metastases.

Procedure
We planned and performed distal pancreatectomy with splenectomy, segmental omentectomy, pancreaticococholedochotomy, head coring, closure of distal cut end of residual pancreas and lateral pancreaticojejunostomy with cholecystectomy.

Post-Operative Period
Postoperative recovery was uneventful. There was minimum serosanguineous fluid in drainage bag. On 4th postoperative day, drain fluid sent for amylase which showed 28 U/L (normal). Patient was discharged on 14th postoperative day in stable condition.

Histopathological Report
1. Sections from the growth of pancreatic body and tail shows moderately differentiated adenocarcinoma of pancreas (pT2N0MX).
2. Sections from pancreatic head shows-normal parenchyma.

DISCUSSION
The annual incidence of chronic pancreatitis ranges from 5 to 12 per 1 lakh\(^1\)\(^,\)\(^2\) and the prevalence is about 50 per 1 lakh population.\(^2\)\(^,\)\(^3\) The global annual incidence rate for pancreatic cancer is about 8 per 1 lakh population.\(^4\) Adenocarcinoma is the most frequent type of pancreatic cancer.

In a large multicentre historical cohort study conducted by the International Pancreatitis Study Group, the cumulative risk of pancreatic cancer in patients with chronic pancreatitis was reported as 1.8% and 4% at 10 and 20 years respectively.\(^5\) After extensive search we have not found any literature regarding the incidence of chance finding of distal pancreatic neoplasm during the procedure for chronic pancreatitis.

CT scan is the basic workhorse in suggesting and identifying cancer in chronic pancreatitis and is the most commonly used tool in this setting. Even though multi-detector contrast enhanced CT has improved pancreatic resolution and diagnosis – most features of contour and vascular or ductal abnormalities occur in advanced disease. Early pancreatic lesions can still be missed by imaging whilst still curable.

In our case, a neoplasm was detected in the body of pancreas peroperatively without any clue from preoperative USG whole abdomen and CECT whole abdomen. On table we planned and performed distal pancreatectomy with splenectomy, segmental omentectomy, pancreaticococholedochotomy, head coring, closure of distal cut end of residual pancreas and lateral pancreaticojejunostomy with cholecystectomy. Histopathological report confirmed our diagnosis that is the neoplasm was malignant and our approach was logical.
CONCLUSION
Pancreatic body neoplasm with chronic pancreatitis is seen rarely and if it is detected peroperatively, the plan for modality of treatment is challenging. This type of dual contrasting condition can best be dealt with this logical and aggressive approach like in our patient.

REFERENCES