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=Abstract=

A case of gastric and colonic fistulas with pancreatic and peripancreatic abscess after acute necrotizing pancreatitis

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According to several reports, the incidence of pancreatic and peripancreatic abscess after acute pancreatitits is quoted at about 5 percentage and this rare complication may cause fistulas with multiple intra-abdominal organs. Mortality rates are nearly 100 per cent, mostly due to sepsis and hemorrhage in the abscence of surgical intervention and even with surgical drainage and celiotomy, death rate of 30 to 50 percentage are noted due to recurrence.

The pathogenesisi of these fistulas may be multifactorial; activated pancreatic enzyme and the products of secondary infection penetrating visceral wall directly, and vascular thrombosis and shock causing ischemic necrosis of the gastrointestinal wall.

The gastrointestinal fistulas after acute necrotizing pancreatitis have been reported rarely in Korea.

The authors experienced a sixty three year old male patient case of gastric and colonic fistulas in communication with retroperitoneal pancreatic abscess after acute pancreatitis. The patient received broad-spectrum antibiotics and percutaneous catheter drainage without surgical intervention. After treatment, he recovered well complete. Conservative care with drainage procedure may be a suitable alternative for managing the gastrointestinal fistulas with the pancreatic and peripancreatic abscess after acute nectrotizing pancreatitis.(Korean J Med 58:675-680, 2000)

Key Words: Pancreatitis; Abscess; Fistula; Drainage

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(Figure 1).

5% 가 가 100% 1-6) 11-17) 가 1 . 63 10 amylase lipase 가 : 40 1-2 가 95/50 mmHg, 37.5 , 120 / , 20 /

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20,510/ mm³ (seg 90.9%), 8.9 g/dL,
27.1%, 558,000/ mm³ .
Na/ K/ CV/ tCO2 132/ 3.1/90/ 32 mmoL/L ,

 $Ca/P = 8.1/3.3 \quad mg/dL, \quad BUN/Cr = 50.5/4.1 \\ mg/dL, \quad SGOT/SGPT = 15/4 \quad IU/l, \quad ALP = 106 \quad IU/l, \\ 5.1/1.8 \quad g/dL, \qquad \qquad 0.9 \quad mg/dL, \\ 125 \quad mg/dL, \quad amylase/lipase = 71/786 \quad IU/l, \quad LDH = 101 \quad IU/l, \\ prothrombin = 16.3 \quad sec = (INR = 1.4), \quad FDP = 16.5 \quad mg/dL = 1.5 \\ rac{1}{100} \quad rac{1$

Enterococcus faecalis, K.pneumonia, Acinetobacter baumannii, Pseudomonas aeruginosa
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Figure 1. Gadolinium enhanced coronal T1-weighted MR image (TR/TE,100/1.8/Fr) obtained at admission shows large retroperitoneal abscess in both anterior pararenal space.

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(Figure 2). 2

10Fr. pigtail
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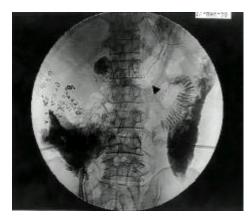


Figure 2. Bilateral retroperitoneal abscesses are drained via percutaneous catheter. Stomach was filled with contrast material injected through the catheter inserted into right retroperitoneal abscess (arrow:stomach).

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Figure 3. EGD shows sealing off of the fistulous opening at the posterior wall of the antrum(arrow).

20 (17) 22 (Figure 3), 7† . 34

Figure 4. A



Figure 4. B



Figure 4. C

Figure 4 A, B, C. Serial abdominal CT shows gradual decrease in size of the bilateral retroperitoneal abscess. A: Initial CT shows localized fluid collection and air around pancreatic tail(before admission). B: CT scan obtained at the time of demonstrates large bilateral retroperitoneal abscess.(Hospital Day #3) C: On HD #44, followed CT shows decrease in size of the abscess cavities.

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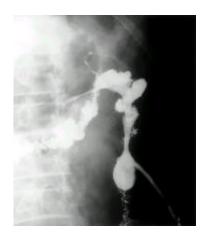


Figure 5. Fistulogram obtained through the left abscess cavity shows a fistulous opening into transverse colon.

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7} (Figure 4A-C) 45 .

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(Percutaneous cathether drainage)

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REFERENCES

- Pickleman J. Noncada R. The role of percutaneous drainage of pancreatic abscess. Am Surg 53:451-455, 1987
- Mason HDW, Andrew F, Henry HB, Intestinal fistular complicating pancreatic abscess. Surg Gynecol Obstet. 140:39-45, 1975
- Herbert CW, Richard AK, Terrence JB, David JP, L.William T, Patrick CF. Pancreatiocoenteric fistula: no longer a surgical disease? J Clin Gastroenterol 14:117-121, 1992
- Russel JC, Welch JD, Clark DG. Colonic complication of acute pancreatitis and pancreatic abscess. Am J Surg 146:558-564, 1983
- Abcarian H, Eftaiba M, Kraft AR, Nybus LM. Colonic compliation of acute pancreatitis. A rch Surg 114:995-1001, 1979
- 6) Andrew LW, Ashby CM, David WR. Gastrocutaneous fistulas associated with pancreatic abscess,

- Am Surg 210:603-607, 1989
- 7) Kukora JS. Extensive colonic necrosis complicating acute pancreatitis. Surgery 97:290-294, 1985
- Graves HA Jr, Nelson A, Byrd BF Jr. Gastrocutaneous fistula as postoperative complication. Ann Surg 171:656-662, 1970
- Pearlstein L, Jones CE, Polk HC Jr. Gastrocutaneous fistula; etiology and treatment. Ann Surg 187:223-226, 1978
- Scholefield JH, Goodman AJ, Morgan WP. A bdominal wall and gastric infarction in acute pancreatitis. Pancreas 3:494-496, 1988
- Adans DB, Harvey TS, Anderson MC. Percutaneous catheter drainage of infected pancreatic and pjeripancreatic fluid collection. A rch Surg 125:1554-1557, 1990
- 12) Warshaw AL, Jin GL. Improved survival in 45 patients with pancreatic abscess. Ann Surg 202:408-417, 1985
- Bardley EL 3rd. Management of infected pancreatic necreosis by open drainage. Ann Surg 206:542-550, 1987
- 14) Picklenam J, Moncada R. The role of percutaneous drainage of pancreatic abscesses. Am Surg 53:451-455, 1987
- 15) Malangoni MA, Richardson JD, Shallcross JC, Seiler JG, Polk HC Jr. Factors contributing to fatal outcome after treatment of pancreatic abscess. Ann Surg 203:605-613, 1986
- 16) Bruckner M, Grimm H, Nam VC, Soehendra N. Endoscopic treatment of pancreatic abscess originating from biliary pancreatittis. Surg Endosc 4: 227-229, 1990
- 17) Cooney DR, Jacobowitz L, Telander RL, Allen JE. Pancreatiocolonic fistula: a complication of pancreatic pseudocysts in childhood. J Pediatr Surg 13:492-496, 1978