

간담췌질환에서의 최소침습수술

Minimally Invasive Surgery in Hepato - Biliary - Pancreatic Disease

300
Ho Seong Han, M.D.
Department of General Surgery
Seoul National University College of Medicine, Bundang Hospital
E - mail : hanhs@SNUBH.org

Abstract

The indication of laparoscopic procedure is continuously extending in the field of hepato - biliary - pancreatic surgery. Laparoscopic cholecystectomy has become a standard treatment for the disease of the gallbladder. Its application has widened to include conditions that once considered to be relative contraindications of laparoscopic cholecystectomy such as acute cholecystitis, complicated cholecystitis, previous operation history, and old age. Recently, a laparoscopic CBD exploration has been used for the treatment of CBD stone disease with good results. This operation may obviate the risk of immediate and long - term problem of sphincterotomy of the Ampulla of Vater resulting from endoscopic extraction of the CBD stone. For the biliary tract disease, pioneering operation of the laparoscopic IHD exploration and Roux - en - Y choledochojejunostomy have been successfully performed in our country. In terms of laparoscopic pancreatic surgery, a cystogastrostomy and a distal pancreatectomy are feasible operations. However, its indication is limited to benign or pre - malignant diseases. A pancreaticoduodenectomy with a laparoscopic technique is still not recommended. For the laparoscopic surgery of the liver, it has been initially applied to unroofing of a liver cyst or wedge resection. However, anatomic liver resections were successfully performed. The parenchymal dissection of the liver has been possible with the development of innovative laparoscopic equipments. Liver resection can be done with a laparoscopy - assisted method or a totally laparoscopic method. With accumulation of experience and the development of equipments, laparoscopic surgery has become a major operative tool in the hepato - biliary - pancreatic disease with an advantage of minimal invasiveness.

Keywords : Laparoscopic surgery; Cholecystectomy; CBD exploration; Pancreatic disease; Liver resection

· ; ; ; ;

19⁸⁷ Mouret (1)

가

가

가

가

.

,

.

10%

가

가

,

가

가

가

.

가

.

,

가

.

(11, 12).

.

-

,

-

,

가

-

Roux limb

.

.

가

-

가

,

.

.

가

,

가

(13).

,

. 가

가

.

1994 Soper (14)

가

가

Cuschieri (16)

1996 Gagner (15)

12 5

EHL(electrohydraulic lithotripsy)

Gagner

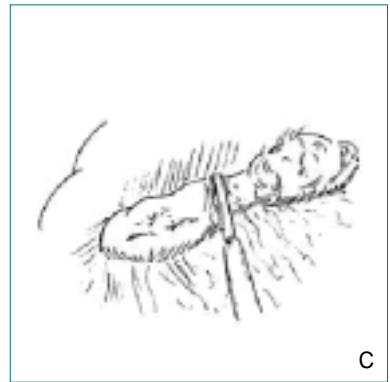
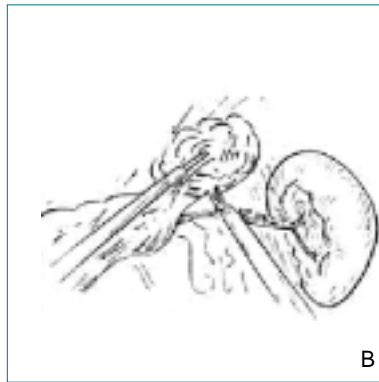
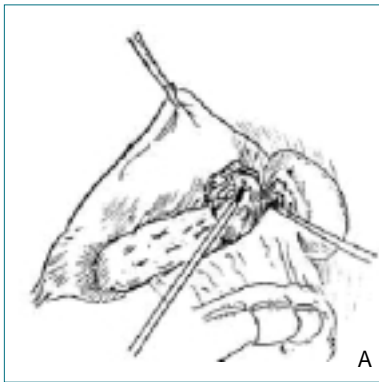
(15) 12

8

3

,

4



A)
B)
C) endo - GIA

1.

(Enucleation) 1
1 (Whipple), 2 Negative
exploration 4.5
5
2000 (17)
(1).

(18, 19).

. 1994

가 1990

Ferzli (22)

9 cm

가 Ka-

가

neko (23)

11

. 1995 staple

가

(20),

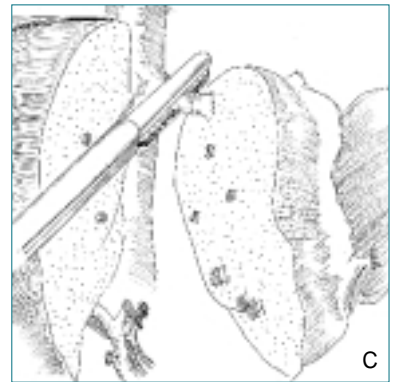
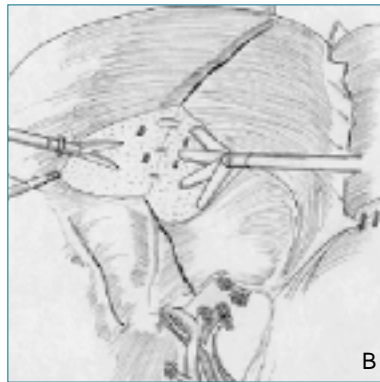
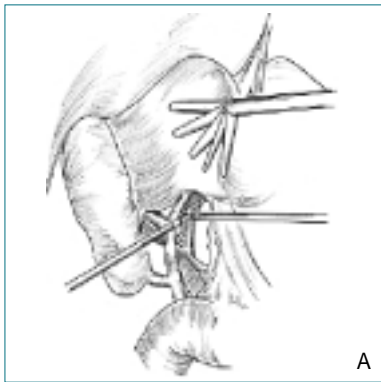
. 1998

2000

(21),

staple

, 1990



A)
B)
C)

endo - GIA
2.

2, 3, 4b, 5, 6

가

. 2000

10

가

(major resection of liver)

(26, 27).

(24~

가

26),

(27). De-

scottes (28)

1

가

. Fong (29) Hand -

Assisted Laparoscopic surgery

가

가

가

가 .

가 8 mmHg

Endo - GIA Linear stapler
(2).

roofing

가

가

1. Mouret P. From the first laparoscopic cholecystectomy. Digestive Surg 1987 ; 8 : 124 - 5
2. , , , , .
1992 ; 42 : 313 - 9
3. , , , , .
1991 ; 41 : 335 - 44
4. Dietzel M, Lippert H, Gastinger I, Schramm H. "Acute cholecystitis" - laparoscopic cholecystectomy is often possible. Result of a multicenter study by the East German Study Group for Performance Assessment and Quality Assurance in Surgery. Zentralbl Chir 2000 ; 125 : 547 - 51
5. Fabre JM, Fagot H, Domergue J, Guillon F, Balmes M, Baumel H, et al. Laparoscopic cholecystectomy in complicated cholelithiasis. Surg Endosc 1994 ; 8 : 1198 - 201
6. Gardacz TR, Talamini MA, Lillemore KD, Yeo CJ. Laparoscopic cholecystectomy. Surg Clin N Am 1990 ; 70 : 1249 - 62
7. , , , , , .
2001 ; 61 :
311 - 6
8. Lee JH, Han HS, Min SK, Lee HK. Laparoscopic repair of various types of biliary fistula - report of 3 cases Surgical Endosc, In publishing
9. , , , , , .
2002 ; 63 : 238 - 43
10. , , , , , .
60
2003 ; 64 : 396 - 401
11. Cetta F. Do surgical and endoscopic sphincterotomy prevent or facilitate recurrent common duct stone formation? Arch Surg 1993 ; 128 : 329 - 6
12. Yasuda I, Tomita E, Enya M, Kato T, Moriwaki H. Can endo-



- scopic papillary balloon dilatation really preserve sphincter of Oddi function? Gut 2001 ; 49 : 686 - 91
13. , , , . 2002 ; 63 : 416 - 22
14. Soper NJ, Brunt LM, Dunnegan DL, Meininger TA. Laparoscopic distal pancreatectomy in the porcine model. Surg Endosc 1994 ; 8 : 57 - 60
15. Gagner M, Pomp A, Herreta MF. Early experience with laparoscopic resections of islet cell tumors. Surgery 1996 ; 120 : 1051 - 4
16. Cuschieri A, Jakimowicz JJ, Van Spreeuwel J. Laparoscopic distal 70% pancreatectomy and splenectomy for chronic pancreatitis. Ann Surg 1996 ; 223 : 280 - 5
17. , , , . 2000 ; 3 : 45 - 8
18. , , . 2003 ; 64 : 521 - 5
19. Tagaya N, Ishikawa K, Kubota K. Spleen - preserving laparoscopic distal pancreatectomy with conserving of the splenic artery and vein for a large insulinoma. Surg Endosc 2002 ; 16 : 217 - 8
20. Trias M, Tagarona EM, Balague C, Cifuentes A, Taura P. Intraluminal stapled laparoscopic cystogastrostomy for treatment of pancreatic pseudocyst. Br J Surg 1995 ; 82 : 403
21. , , , . 가 - 1 . 2000 ; 59 : 699 - 702
22. Ferzli G, David A, Kiel T. Laparoscopic resection of a large hepatic tumor. Surg Endosc 1995 ; 9 : 733 - 5
23. Kaneko H, Takagi S, Shiba T. Laparoscopic partial hepatectomy and left lateral segmentectomy : Technique and results of a clinical series. Surgery 1996 ; 120 : 468 - 75
24. , , , . 2002 ; 5 : 75 - 9
25. , , , , , . 2002 ; 5 : 37 - 43
26. , , . 2002 ; 5 : 103 - 8
27. , , , , , . 2003 ; 64 : 390 - 5
28. Descottes B, Lachachi F, Sodji M, Valleix D, Fontanier SD, de Laclause B, et al. Early experience with laparoscopic approach for solid liver tumors : initial 16 cases. Ann Surg 2000 ; 232 : 641 - 5
29. Fong Y, Jarnagin W, Conlon KC, DeMatteo R, Dougherty E, Blumgart LH. Hand - assisted laparoscopic liver resection ; Lessons from an initial experience. Arch Surg 2000 ; 135 : 854 - 9