

Percutaneous Drainage Of Gallbladder Empyema And Liver Abscess To Treat Acute Cholecystitis Induced Liver Abscess

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Purpose

- To evaluate the efficacy of percutaneous drainage in the treatment of gallbladder empyema combined with liver abscess.

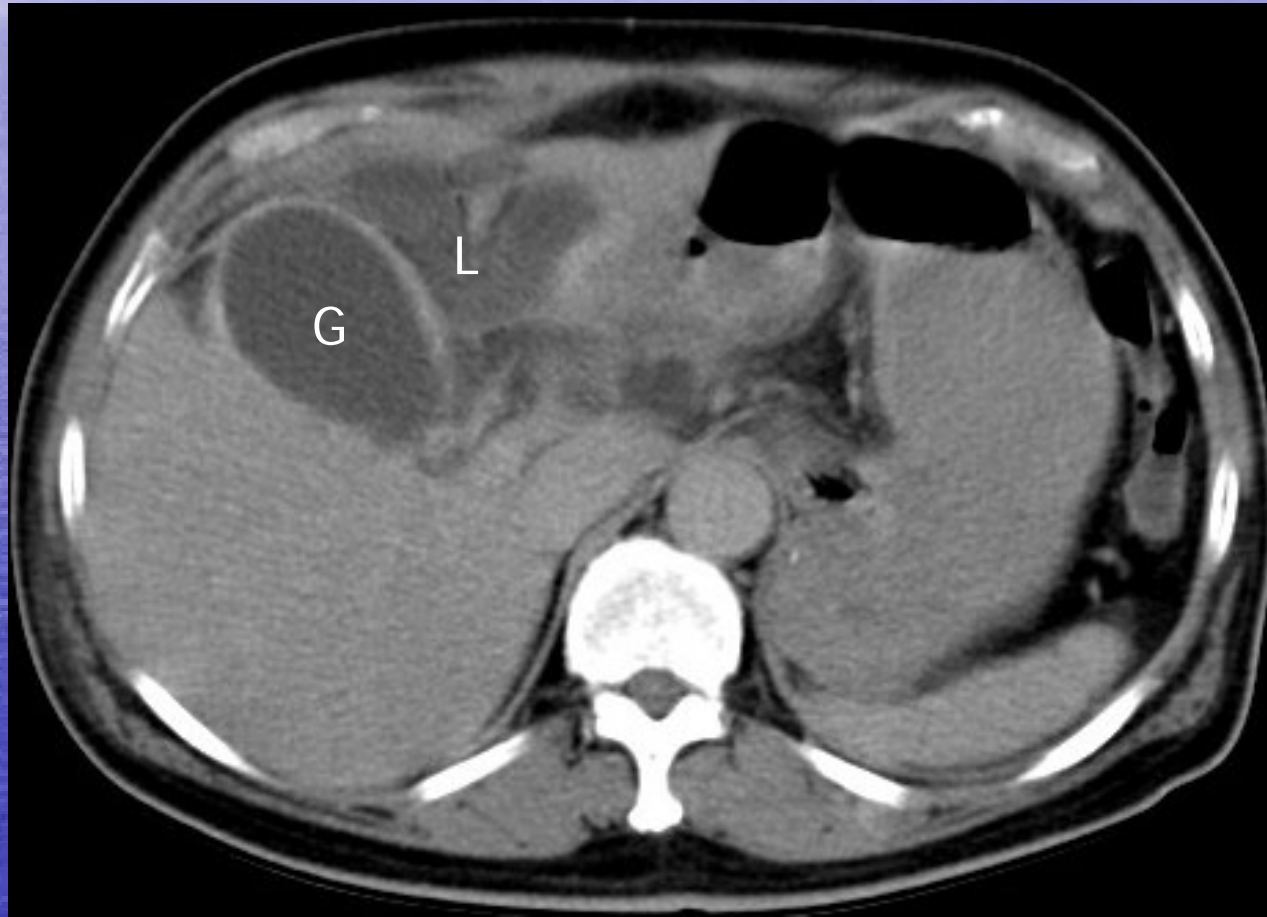


Materials and Methods

- Nine patients suffered from gallbladder empyema combined with liver abscess in the past 3 years.
- Four of them received percutaneous drainage of gallbladder empyema and subsequent drainage of liver abscess, and five patients only received drainage of gallbladder empyema.
- The clinical courses and CT scan image findings before drainage were compared.



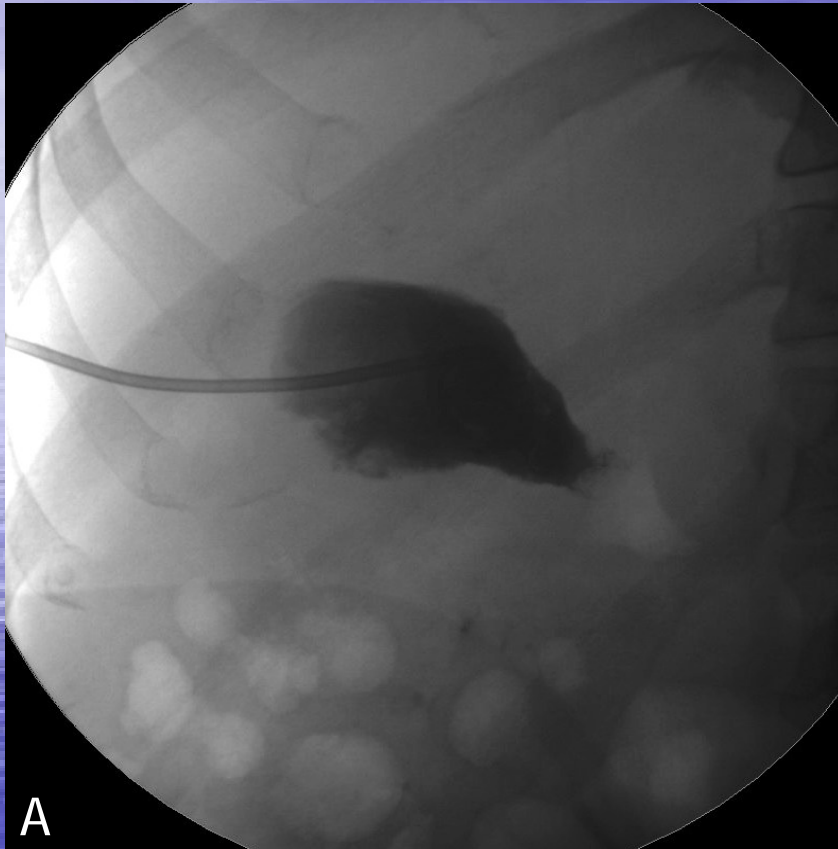
Results (1)



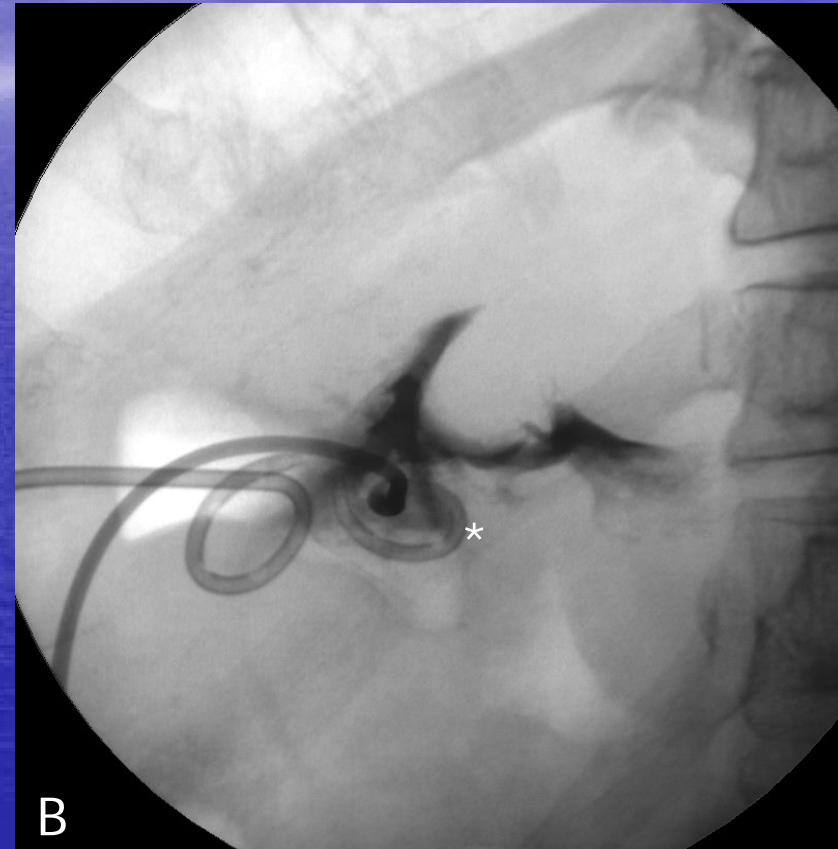
A 66 y/o male DM patient suffered from fever and RUQ pain intermittently for 1 week. CT study showed cholecystitis (G) and a 6.5cm subcapsular liver abscess (L).



Results (2)



A Drainage of gallbladder empyema, showed blackish fluid, and the culture result was *Klebsiella pneumonia* and *Morganella morganii*.



B After aspiration of gallbladder empyema, drainage of liver abscess with another pigtail (*) showed brownish abscess. The culture result was *Klebsiella pneumonia*, *Morganella morganii* and *E. coli*.



Results (3)

mean \pm SD	Hospitalized days after drainage	C-reactive protein level before drainage	C-reactive protein level 1 week after drainage
Drainage of gallbladder empyema and liver abscess	14.5 \pm 2.1	29.1 \pm 3.7	5.7 \pm 2.5
Only drainage of gallbladder empyema	17.2 \pm 2.9	27.9 \pm 3.9	6.3 \pm 3.3
	$p < 0.05$		



Results (4)

mean \pm SD	Gallbladder wall thickness (mm)	Liver abscess size (mm)
Drainage of gallbladder empyema and liver abscess	6.3 \pm 1.2	62.8 \pm 19.5
Only drainage of gallbladder empyema	6.1 \pm 2.5	23.6 \pm 11.4
		p < 0.05



Conclusions

- Percutaneous drainage is a safe and effective nonsurgical treatment for gallbladder empyema combined with liver abscess.
- If acute cholecystitis induces a liver abscess more than 4cm in size, percutaneous drainage of gallbladder empyema and liver abscess simultaneously will reduce hospitalized days significantly.



References

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2. Palliative percutaneous transhepatic gallbladder drainage of gallbladder empyema before laparoscopic cholecystectomy. Tseng LJ, Tsai CC, Mo LR, et al. *Hepatogastroenterology*. 2000 Jul-Aug;47:932-936.
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Thank You