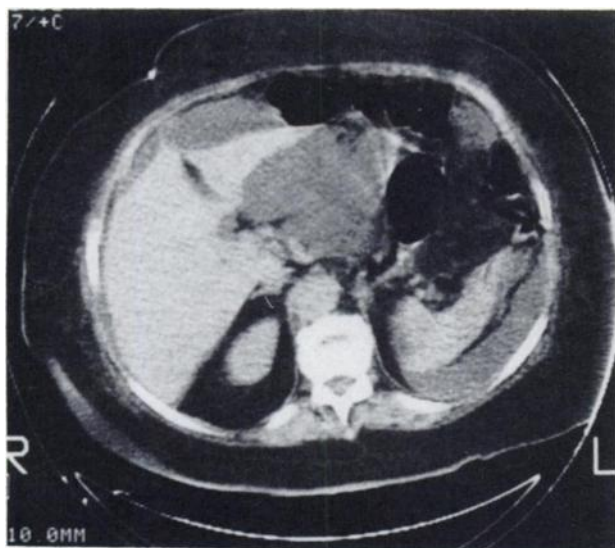


10. Mark AS, McCarthy SM, Moss AA, et al. Detection of abdominal aortic graft infection: Comparison of CT and In-labeled white blood cell scans. *AJR* 1985; 144:315-318.
11. Dries DJ, Alazraki N, Lawrence PF, et al. Detection of acute synthetic vascular graft infection with ¹¹¹In-labeled leukocyte scanning: an animal study. *AJR* 1985; 145:1053-1056.
12. Brunner MC, Mitchell RS, Baldwin JC, et al. Prosthetic graft infection: limitations of indium white blood cell scanning. *J Vasc Surg* 1986; 3:42-47.
13. Williamson MR, Boyd CM, Read RC, et al. ¹¹¹In-labeled leukocytes in the detection of prosthetic vascular graft infections. *AJR* 1986; 147:173-176.
14. Becker W, Dusel W, Berger P, et al. The ¹¹¹In-granulocyte scan in prosthetic vascular graft infections: imaging technique and results. *Eur J Nucl Med* 1987; 13:225-229.
15. Bhat DJ, Tellis VA, Kohlberg WI, et al. Management of sepsis involving expanded polytetrafluorethylene grafts for hemodialysis access. *Surgery* 1980; 87:445-450.
16. Hawker RJ, Hall CE, Reeder TE, et al. Leukocyte scanning in abdominal surgery. *Br Med J* 1981; 282:1324.
17. Serota AL, Williams RA, Rose JG, Wilson SE. Uptake of radiolabeled leukocytes in prosthetic graft infection. *Surgery* 1981; 90:35-40.
18. Ascher NL, Ahrenholz DH, Simmons RL, et al. Indium-111 autologous tagged leukocytes in the diagnosis of intraperitoneal sepsis. *Arch Surg* 1979; 114:386-392.
19. Sfakianakis GN, Al-Sheikh W, Heal A, et al. Comparisons of scintigraphy with In-111 leukocytes and Ga-67 in the diagnosis of occult sepsis. *J Nucl Med* 1982; 23:618-626.
20. Palestro CJ, Needle LB, Fineman D, et al. Indium WBC imaging: effect of antibiotic therapy and duration of symptoms. *Eur J Nucl Med* 1988; 14:327.



FIRST IMPRESSIONS

PURPOSE:

Postcholecystectomy evaluation of bile duct patency. The interesting sequential images presented here demonstrate a biliary leak. Following the first impression that the scan was abnormal, consideration of the changing pattern of the radiotracer distribution led to the final diagnosis of a biliary leak. In this case, the CT scan supported the diagnosis, which was confirmed at autopsy.

TRACER:

[^{99m}Tc]DISIDA

ROUTE OF ADMINISTRATION:

Intravenous injection

TIME AFTER INJECTION:

5, 15, and 30 minutes

INSTRUMENTATION:

Gamma Camera ("Picker")

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