

中文題目：病例報告：骨泥滲漏模仿血管內導管滑脫

英文題目：A Mimicking Dislodged Catheter in Inferior Vena Cava

作者：劉郁嵐，許清裁，林錦生，林維祥

服務單位：國防醫學院三軍總醫院 心臟內科

Case Report

A 77-year-old woman with hypertension and type 2 diabetes mellitus presented with fever, urinary frequency, and dizziness. Complicated urinary infection with sepsis was impressed. Due to persistent fever despite of broad-spectrum antibiotics treatment, computed tomography of abdomen was performed, which demonstrated a catheter-like material in right ventricle and inferior vena cava (IVC) (Figure 1A and 1B). Retention of broken wire of previous central venous catheter was tentatively diagnosed. Venography with removal of the broken wire was attempted. Surprisingly, one fragment of bone cement was retrieved (Figure 2). Traced back her history, she had undergone vertebroplasty 2 years ago for the compression fracture of T-spine. After the procedure, she is now asymptomatic under regularly outpatient follow up.

Figure 1

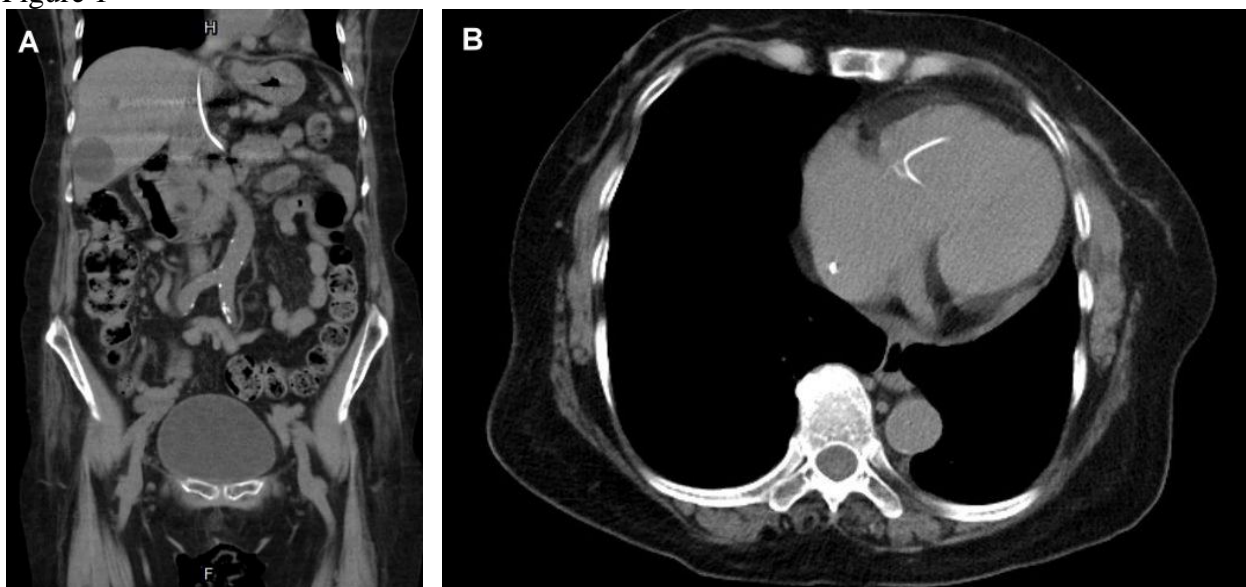


Figure 2



Discussion

Percutaneous injection of bone cement is widely used in augmentation procedures for thoracolumbar compression fracture of vertebra.^[1] Cement leakage to paravertebral venous system was reported with incidence of 24% venous leaks from total 73% leaks.^[2] Most of the patients are asymptomatic although some of them may present with abdominal pain, back pain, and even chest pain and dyspnea resulting from venous thromboembolism. The management of IVC cement, including anti-coagulants and/or surgical intervention, in asymptomatic patient is still controversial, even though it may be associated with severe complications including pulmonary embolism and cardiac tamponade.^[3, 4, 5] Although endovascular intervention for the retention bony cements is not effective, significantly symptomatic improvement is achievable in successful cases.

In conclusion, we highlight the possibility of cement leakage in patients with image findings of foreign materials retention in IVC, especially in those who had the history of vertebroplasty. Endovascular removal of bony cements may be practical in selected cases.

References

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