

中文題目：產氣性腎盂腎炎與產氣性膀胱炎導致的空氣栓塞-病例報告  
英文題目：Air Embolism complicating Emphysematous Pyelonephritis in  
Combination with Emphysematous Cystitis: A Case Report

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We reported the first case of emphysematous pyelonephritis associated with emphysematous cystitis, in which venous bubbles in bilateral renal veins and inferior vena cava were detected.

In our study, incomplete glycolysis at the tissue in diabetic patients with poor hyperglycemic control resulted in increased glucose concentrations within the interstitial fluid. We believed that the venous air bubbles probably were derived from emphysematous pyelonephritis because the accumulation of air emboli within the kidney resulted in elevation of intra-renal pressure and bacterial injury of the renal parenchyma could contribute to the translocation of the gas into the venous system. Ultrasonography with plain radiography of genitourinary tract is strongly recommended in all patients with persistent poor glycemic control in combination with acute pyelonephritis. When differential diagnoses remained or if further localization or confirmation of tentative findings was needed, abdominal computed tomography should be considered the imaging modality of choice. Our patient had emphysematous pyelonephritis belonging to high risk group. Therefore, nephrectomy will be recommended as the first priority of management and should be promptly attempted for extensive emphysematous pyelonephritis with a fatal course.