To the editor,

Recently, Yang et al. (1) published the abdominal computed tomography (CT) images showing diffuse gas within the bladder wall and a prominent air-fluid level as the typical manifestation of emphysematous cystitis. However, it’s not only involved in the bladder wall but also in the bladder lumen (2, 3). We hereby present a case of gaseous bladder tamponade causing obstructive uropathy - a rarely severe complication of emphysematous cystitis.

Our patient is a 81-year-old man who presented to the emergency department with 2 days of history of fever, progressed low abdominal distention and decreased urine output. He had type 2 diabetes mellitus and flaccid neurogenic bladder with long-term indwelling Foley catheter for the preceding two years. Laboratory studies revealed bacteriuria, leukocytosis, an elevated C-reactive protein level, high fasting blood glucose (302mg/dL), and an elevated creatinine level (2.05mg/dL). Radiography of the kidneys, ureters, and bladder revealed a low density over the whole bladder area and linear collection of gas along bladder wall (Figure-1). Abdominal CT was subsequently arranged, which showed gas tamponade in the bladder with bilateral obstructive hydronephrosis (Figure-2). A new Foley catheter was changed, and bladder irrigation was performed to extract pus and gas. He was treated with broad-spectrum antibiotics and strict blood sugar control. Both blood and urine cultures grew Klebsiella pneumonia. He responded with defervescence and recovery of renal function (creatinine=1.39mg/dL) after a full course of antibiotics treatment.

Emphysematous cystitis is an uncommon disease characterized by the presence of air within the bladder wall and lumen, and primarily observed in diabetic patients. In this
case, gaseous bladder tamponade with bilateral obstructive hydronephrosis is a rarely emergency complication of emphysematous cystitis. Prompt diagnosis by radiography, broad-spectrum antibiotics, immediate drainage and intensively underlying diseases control are critical. Importantly, we suggest that all patients with long-term indwelling catheters and immunosuppression should note this rare sequela.

CONFLICT OF INTEREST
None declared.

REFERENCES


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