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### Emphysematous Pyelonephritis Cohort Study

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**Objectives:** mphysematous pyelonephritis (EPN) is a rare, but severe and life-threatening infectious disease in the kidney.

**Methods:** We conducted a retrospective study and enrolled all EPN patients from Taipei Veteran Hospital over the past decade. We identified 32 CT–confirmed EPN patients.

**Results:** Demographic analysis showed female individuals are prone to develop EPN, and up to 78.1 % of the cases with EPN have underlying diabetes mellitus. And the most common causative organism are *E coli* (50%).

In this cohort, the mortality rate was 12.5%(n=4/32), 18.75% of patient (n=6/32) received nephrectomy and 28.13% received only percutaneous drainage with antibiotics. There are four classifications of EPN based on radiological findings, in our cohort, there was 0% of class 1, 40.6% of class 2, 21.88% of class 3A, 28.13% of class 3B and 9.38% of class 4, however we cannot find association between EPN image classifications and advanced renal failure rate or mortality rate.

**Conclusions:** The results from the current study suggests early diagnosis and intervention are the keys to achieve a successful treatment in EPN.

Table 1\_baseline characteristics of EPN patients

Table 1. Baseline Characteristics of EPN patients

	no.
Total patients	32
Male/Female	9/23
Age(Years)	62.531±14.75 ( 32-91)
BMI	25.19±1.05(14-35)
Involved kidney	
Right	14/32 (43.75%)
Left	14/32(43.75%)
Bilateral	3/32(9.3%)
Graft	1/32(3.13%)
HTN	14/32 (43.8%)
DM	25/32(78.1%)
HbA1C	11.174±2.6028 (6.2-14.7)
Operation history	27/32(84.3%)
Malignancy	10/32(32.25%)

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