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Editorial Board Member of *World Journal of Clinical Cases*, Paul E Sijens, PhD, Associate Professor, Department of Radiology, University Medical Center Groningen and University of Groningen, Groningen 9713 GZ, Netherlands

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Rare primary lymphoepithelioma-like carcinoma of the renal pelvis

Shi-Cong Lai, Samuel Seery, Tong-Xiang Diao, Jian-Ye Wang, Ming Liu

ORCID number: Shi-Cong Lai (0000-0003-2172-6583); Samuel Seery (0000-0001-8277-1076); Tong-Xiang Diao (0000-0001-9527-9064); Jian-Ye Wang (0000-0002-5110-2731); Ming Liu (0000-0002-0944-9600).

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Shi-Cong Lai, Tong-Xiang Diao, Jian-Ye Wang, Ming Liu, Department of Urology, Beijing Hospital, Beijing 100730, China

Shi-Cong Lai, Tong-Xiang Diao, Jian-Ye Wang, Ming Liu, National Center of Gerontology, Beijing 100730, China

Shi-Cong Lai, Tong-Xiang Diao, Jian-Ye Wang, Ming Liu, Institute of Geriatric Medicine, Chinese Academy of Medical Sciences, Beijing 100730, China

Shi-Cong Lai, Jian-Ye Wang, Ming Liu, Graduate School of Peking Union Medical College and Chinese Academy of Medical Sciences, Beijing 100730, China

Samuel Seery, School of Humanities and Social Sciences, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing 100730, China

Tong-Xiang Diao, Peking University Fifth School of Clinical Medicine, Beijing 100730, China

Corresponding author: Ming Liu, MD, Chief Doctor, Professor, Surgeon, Department of Urology, Beijing Hospital, No. 1 Dahua Road, Dongdan, Dongcheng District, Beijing 100730, China. liumingbjh@126.com

Abstract

Lymphoepithelioma-like carcinoma (LELC) is a rare, malignant epithelial tumour which can arise within the upper urinary tract. This letter adds to a previous systematic review and cumulative analysis of 28 published upper urinary tract-LELC cases which provided insight into this disease; however, the current evidence does not provide clinicians with clear guidelines due to its rarity. Therefore, the aim was to report a new case of renal pelvis LELC presented in our hospital. In this instance, we were able to report treatment experience and long-term follow-up results. This patient presented with hypertension and haematuria which initiated further investigation. While ultrasound identified an hypoechoic mass, no malignant cells were detected using cytological testing. Abdominal magnetic resonance imaging identified a slightly enhanced mass in the left renal pelvis with no evidence of lymph node metastasis. Ureteroscopic tumor biopsy suggested the existence of urothelial carcinoma, hence, laparoscopic radical left nephroureterectomy with bladder cuff excision was performed. Through patient-practitioner consultations, we decided to adopt a 'watch and wait' approach after radical nephroureterectomy rather than administering chemotherapy. Although, we would encourage clinicians to record and publish cases to garner insight into this type of malignant disease.

Key words: Lymphoepithelioma-like carcinoma; Prognosis; Radical nephroureterectomy; Upper urinary tract; Treatment; Case report

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Core tip: Lymphoepithelioma-like carcinoma arising within the upper urinary tract are extremely rare, and currently only 28 cases have been published. However, the current evidence is insufficient to provide clinicians with clear guidelines due to its rarity. Sharing new case reports of renal pelvis lymphoepithelioma-like carcinoma and treatment experiences is necessary. Our treatment experience and long-term follow-up results adds to this small but growing evidence base which suggests that favorable prognosis can be achieved with radical nephroureterectomy based therapy, even for some with later stage tumors.

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TO THE EDITOR

Lymphoepithelioma-like carcinoma (LELC) is a rare, malignant epithelial tumour which can arise within the upper urinary tract (UUT)^[1,2]. Due to its rarity, little is known about this malignant neoplasm. We recently published a systematic review and cumulative analysis of all the 28 previously published UUT-LELC cases in an effort to support clinicians identifying and treating this disease^[3]. We found that administering a radical nephroureterectomy (RNU) treatment was associated with better disease-free survival, although our tentative recommendations were based on only a modicum of evidence. Therefore, we hope to share a new renal pelvis LELC case in our hospital with long-term follow-up, and to develop the existing evidence-base for clinicians treating this rare malignant disease.

In this instance, a 75-year-old woman with an history of hypertension presented at our urology department in February 2011 having experienced two weeks of gross haematuria. A 1 cm × 1.2 cm hypoechoic mass in the left renal pelvis was found through ultrasound; however, no malignant cells were detected through cytological urine tests. The patient was sent for abdominal magnetic resonance imaging, which identified a slightly enhanced mass in the left renal pelvis although there was no evidence of lymph node metastasis (Figure 1A). Ureteroscopic tumor biopsy suggested the existence of urothelial carcinoma, hence, laparoscopic radical left nephroureterectomy with bladder cuff excision was performed.

Microscopic examination confirmed abundant lymphoid stroma surrounding the large polygonal tumour cells (Figure 1B). Immunohistochemical staining of polygonal tumour cells were returned positive for cytokeratin 7 (Figure 1C). Further, analysis of lymphoid stroma also yielded positive results for CD3 and CD20, although, Epstein-Barr virus immunostaining was negative (Figure 1D). This histological picture is compatible with the criteria for lymphoepithelial carcinoma and eventually the pathological stage was determined to be pT3N0M0. In view of this patient's age and through a shared-decision making process which involved communicating the associated potential complications, we agreed to administer no additional therapy. Follow-up assessments including abdominal computed tomography scans and cystoscopies were taken during outpatient consultations. This lady remains in relative good health, without evidence of postoperative tumour recurrence at 93 mo.

This current case presented with similar characteristics to those previously published which commonly describe gross hematuria as the initial symptom and negative Epstein-Barr Virus testing^[1,4,5]. However, pathological testing revealed two distinct histologic patterns, consisting of large predominant LELC and focal urothelial carcinoma in this case. Of note, the identified urothelial carcinoma was aggressive and may play a critical role in prognosis; although, previous literature suggests that predominant or pure subtype LELC have a relatively favorable prognosis compared to focal LELC^[3,6,7]. Even though the pathological stage was pT3N0M0, which would usually require chemotherapy, through discussion with our patient we decided not to administer this intervention after RNU. Follow-up examinations provided no evidence of disease recurrence or metastasis.

This experience adds to this small but growing evidence base. Despite the sparsity of available data to guide decisions, favorable prognosis can be achieved with RNU

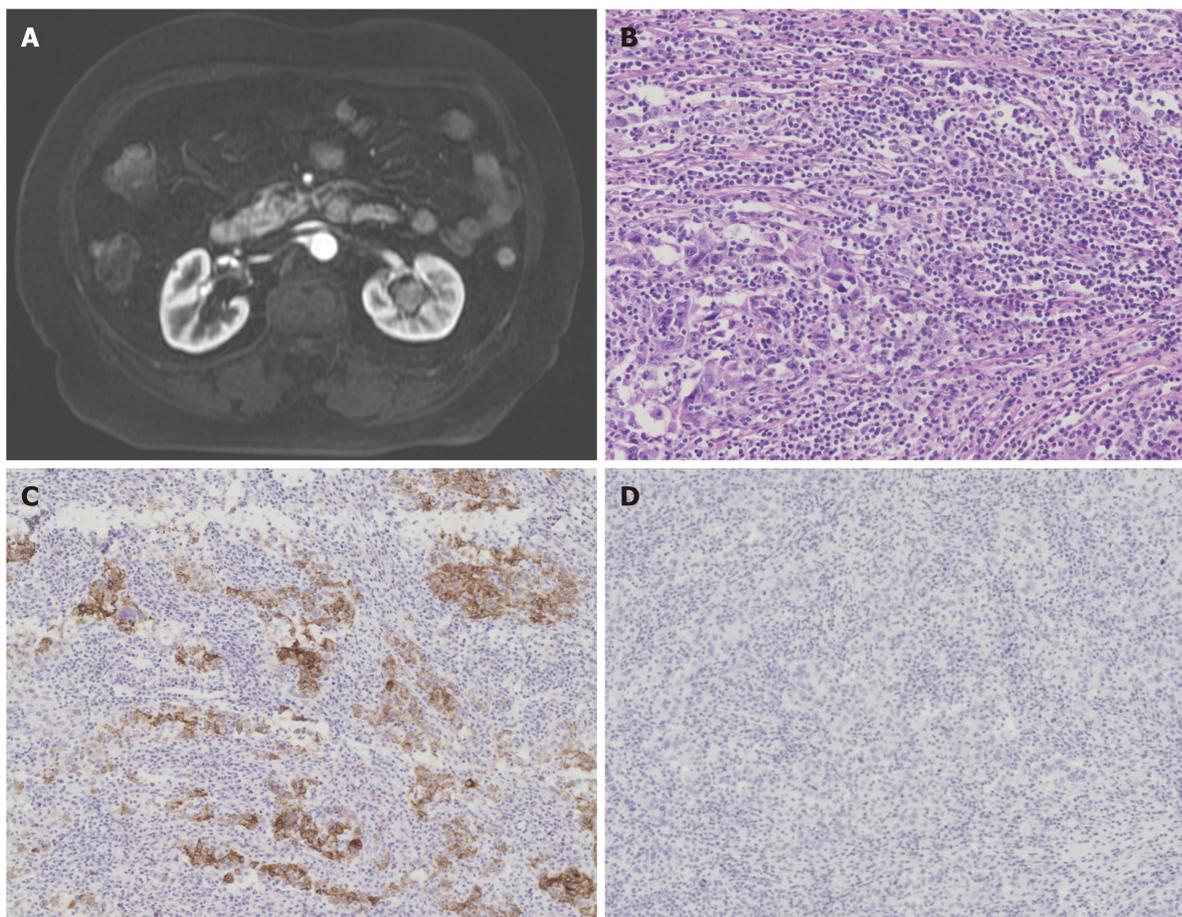


Figure 1 Clinical imaging and pathological features. A: Magnetic resonance imaging showing a slightly enhancing lesion within the left renal pelvis; B: Haematoxylin and eosin staining showing abundant lymphoid stroma surrounding the large polygonal tumour cells; C: Diffuse cytokeratin 7 immunoreactivity highlighting the epithelial component of the tumour; D: Immunohistochemical staining showing tumour cell without Epstein-Barr virus present.

based therapy which is evidence-based^[3,8,9]. Having said that, there remains insufficient data on renal pelvis LELC to distinguish differences, therefore we encourage urologists to record and report these rare cases with longer follow-up. It remains of paramount importance to further assess the biologic behavior of these tumors and to identify the optimal management regimen and particularly disease prognostics.

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