World Journal of Clinical Cases

World J Clin Cases 2020 October 6; 8(19): 4280-4687





Contents

Semimonthly Volume 8 Number 19 October 6, 2020

OPINION REVIEW

4280 Role of monoclonal antibody drugs in the treatment of COVID-19

Ucciferri C, Vecchiet J, Falasca K

MINIREVIEWS

- 4286 Review of simulation model for education of point-of-care ultrasound using easy-to-make tools Shin KC, Ha YR, Lee SJ, Ahn JH
- 4303 Liver injury in COVID-19: A minireview

Zhao JN. Fan Y. Wu SD

ORIGINAL ARTICLE

Case Control Study

4311 Transanal minimally invasive surgery vs endoscopic mucosal resection for rectal benign tumors and rectal carcinoids: A retrospective analysis

Shen JM, Zhao JY, Ye T, Gong LF, Wang HP, Chen WJ, Cai YK

4320 Impact of mTOR gene polymorphisms and gene-tea interaction on susceptibility to tuberculosis

Wang M, Ma SJ, Wu XY, Zhang X, Abesig J, Xiao ZH, Huang X, Yan HP, Wang J, Chen MS, Tan HZ

Retrospective Cohort Study

4331 Establishment and validation of a nomogram to predict the risk of ovarian metastasis in gastric cancer: Based on a large cohort

Li SQ, Zhang KC, Li JY, Liang WQ, Gao YH, Qiao Z, Xi HQ, Chen L

Retrospective Study

4342 Predictive factors for early clinical response in community-onset Escherichia coli urinary tract infection and effects of initial antibiotic treatment on early clinical response

Kim YJ, Lee JM, Lee JH

4349 Managing acute appendicitis during the COVID-19 pandemic in Jiaxing, China

Zhou Y, Cen LS

4360 Clinical application of combined detection of SARS-CoV-2-specific antibody and nucleic acid

Meng QB, Peng JJ, Wei X, Yang JY, Li PC, Qu ZW, Xiong YF, Wu GJ, Hu ZM, Yu JC, Su W

Prolonged prothrombin time at admission predicts poor clinical outcome in COVID-19 patients 4370

Wang L, He WB, Yu XM, Hu DL, Jiang H

World Journal of Clinical Cases

Contents

Semimonthly Volume 8 Number 19 October 6, 2020

4380 Percutaneous radiofrequency ablation is superior to hepatic resection in patients with small hepatocellular carcinoma

Zhang YH, Su B, Sun P, Li RM, Peng XC, Cai J

4388 Clinical study on the surgical treatment of atypical Lisfranc joint complex injury

Li X, Jia LS, Li A, Xie X, Cui J, Li GL

4400 Application of medial column classification in treatment of intra-articular calcaneal fractures

Zheng G, Xia F, Yang S, Cui J

Clinical Trials Study

4410 Optimal hang time of enteral formula at standard room temperature and high temperature

Lakananurak N, Nalinthassanai N, Suansawang W, Panarat P

META-ANALYSIS

4416 Meta-analysis reveals an association between acute pancreatitis and the risk of pancreatic cancer

Liu J, Wang Y, Yu Y

SCIENTOMETRICS

4431 Global analysis of daily new COVID-19 cases reveals many static-phase countries including the United States potentially with unstoppable epidemic

Long C, Fu XM, Fu ZF

CASE REPORT

4443 Left atrial appendage aneurysm: A case report

Belov DV, Moskalev VI, Garbuzenko DV, Arefyev NO

4450 Twenty-year survival after iterative surgery for metastatic renal cell carcinoma: A case report and review of literature

De Raffele E, Mirarchi M, Casadei R, Ricci C, Brunocilla E, Minni F

4466 Primary rhabdomyosarcoma: An extremely rare and aggressive variant of male breast cancer

Satală CB, Jung I, Bara TJ, Simu P, Simu I, Vlad M, Szodorai R, Gurzu S

4475 Bladder stones in a closed diverticulum caused by Schistosoma mansoni: A case report

Alkhamees MA

4481 Cutaneous ciliated cyst on the anterior neck in young women: A case report

Kim YH. Lee J

4488 Extremely rare case of successful treatment of metastatic ovarian undifferentiated carcinoma with highdose combination cytotoxic chemotherapy: A case report

II

Kim HB, Lee HJ, Hong R, Park SG

Contents

Semimonthly Volume 8 Number 19 October 6, 2020

4494 Acute amnesia during pregnancy due to bilateral fornix infarction: A case report Cho MJ, Shin DI, Han MK, Yum KS 4499 Ascaris-mimicking common bile duct stone: A case report Choi SY, Jo HE, Lee YN, Lee JE, Lee MH, Lim S, Yi BH 4505 Eight-year follow-up of locally advanced lymphoepithelioma-like carcinoma at upper urinary tract: A case report Yang CH, Weng WC, Lin YS, Huang LH, Lu CH, Hsu CY, Ou YC, Tung MC 4512 Spontaneous resolution of idiopathic intestinal obstruction after pneumonia: A case report Zhang BQ, Dai XY, Ye QY, Chang L, Wang ZW, Li XQ, Li YN 4521 Successful pregnancy after protective hemodialysis for chronic kidney disease: A case report Wang ML, He YD, Yang HX, Chen Q 4527 Rapid remission of refractory synovitis, acne, pustulosis, hyperostosis, and osteitis syndrome in response to the Janus kinase inhibitor tofacitinib: A case report Li B, Li GW, Xue L, Chen YY 4535 Percutaneous fixation of neonatal humeral physeal fracture: A case report and review of the literature Tan W, Wang FH, Yao JH, Wu WP, Li YB, Ji YL, Qian YP 4544 Severe fundus lesions induced by ocular jellyfish stings: A case report Zheng XY, Cheng DJ, Lian LH, Zhang RT, Yu XY 4550 Application of ozonated water for treatment of gastro-thoracic fistula after comprehensive esophageal squamous cell carcinoma therapy: A case report Wu DD, Hao KN, Chen XJ, Li XM, He XF 4558 Germinomas of the basal ganglia and thalamus: Four case reports Huang ZC, Dong Q, Song EP, Chen ZJ, Zhang JH, Hou B, Lu ZQ, Qin F 4565 Gastrointestinal bleeding caused by jejunal angiosarcoma: A case report Hui YY, Zhu LP, Yang B, Zhang ZY, Zhang YJ, Chen X, Wang BM 4572 High expression of squamous cell carcinoma antigen in poorly differentiated adenocarcinoma of the stomach: A case report Wang L, Huang L, Xi L, Zhang SC, Zhang JX Therapy-related acute promyelocytic leukemia with FMS-like tyrosine kinase 3-internal tandem 4579 duplication mutation in solitary bone plasmacytoma: A case report

Metastasis of esophageal squamous cell carcinoma to the thyroid gland with widespread nodal

Ш

4588

Hong LL, Sheng XF, Zhuang HF

involvement: A case report Zhang X, Gu X, Li JG, Hu XJ

World Journal of Clinical Cases

Contents

Semimonthly Volume 8 Number 19 October 6, 2020

4595 Severe hyperlipemia-induced pseudoerythrocytosis - Implication for misdiagnosis and blood transfusion: A case report and literature review

Zhao XC, Ju B, Wei N, Ding J, Meng FJ, Zhao HG

4603 Novel brachytherapy drainage tube loaded with double 125I strands for hilar cholangiocarcinoma: A case report

Lei QY, Jiao DC, Han XW

- 4609 Resorption of upwardly displaced lumbar disk herniation after nonsurgical treatment: A case report Wang Y, Liao SC, Dai GG, Jiang L
- 4615 Primary hepatic myelolipoma: A case report and review of the literature Li KY, Wei AL, Li A
- 4624 Endoscopic palliative resection of a giant 26-cm esophageal tumor: A case report Li Y, Guo LJ, Ma YC, Ye LS, Hu B
- 4633 Solitary hepatic lymphangioma mimicking liver malignancy: A case report and literature review Long X, Zhang L, Cheng Q, Chen Q, Chen XP
- 4644 Intraosseous venous malformation of the maxilla after enucleation of a hemophilic pseudotumor: A case report

Cai X, Yu JJ, Tian H, Shan ZF, Liu XY, Jia J

4652 Intravesically instilled gemcitabine-induced lung injury in a patient with invasive urothelial carcinoma: A case report

Zhou XM, Wu C, Gu X

4660 Bochdalek hernia masquerading as severe acute pancreatitis during the third trimester of pregnancy: A case report

Zou YZ, Yang JP, Zhou XJ, Li K, Li XM, Song CH

- 4667 Localized primary gastric amyloidosis: Three case reports Liu XM, Di LJ, Zhu JX, Wu XL, Li HP, Wu HC, Tuo BG
- 4676 Displacement of peritoneal end of a shunt tube to pleural cavity: A case report Liu J, Guo M
- 4681 Parathyroid adenoma combined with a rib tumor as the primary disease: A case report Han L, Zhu XF

ABOUT COVER

Peer-reviewer of World Journal of Clinical Cases, Prof. Adrián Ángel Inchauspe, obtained his MD in 1986 from La Plata National University (Argentina), where he remained as Professor of Surgery. Study abroad, at the Aachen and Tubingen Universities in Germany in 1991, led to his certification in laparoscopic surgery, and at the Louis Pasteur University in Strasbourg France, led to his being awarded the Argentine National Invention Award in 1998 for his graduate work in tele-surgery. He currently serves as teacher in the Argentine Acupuncture Society, as Invited Foreigner Professor at the China National Academy of Sciences and Hainan Medical University, and as editorial member and reviewer for many internationally renowned journals. (L-Editor: Filipodia)

AIMS AND SCOPE

The primary aim of World Journal of Clinical Cases (WJCC, World J Clin Cases) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

WJCC mainly publishes articles reporting research results and findings obtained in the field of clinical medicine and covering a wide range of topics, including case control studies, retrospective cohort studies, retrospective studies, clinical trials studies, observational studies, prospective studies, randomized controlled trials, randomized clinical trials, systematic reviews, meta-analysis, and case reports.

INDEXING/ABSTRACTING

The WJCC is now indexed in Science Citation Index Expanded (also known as SciSearch®), Journal Citation Reports/Science Edition, PubMed, and PubMed Central. The 2020 Edition of Journal Citation Reports® cites the 2019 impact factor (IF) for WJCC as 1.013; IF without journal self cites: 0.991; Ranking: 120 among 165 journals in medicine, general and internal; and Quartile category: Q3.

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Yan-Xia Xing, Production Department Director: Yun-Xiaojian Wu; Editorial Office Director: Jin-Lei Wang.

NAME OF JOURNAL

World Journal of Clinical Cases

ISSN 2307-8960 (online)

LAUNCH DATE

April 16, 2013

FREQUENCY

Semimonthly

EDITORS-IN-CHIEF

Dennis A Bloomfield, Sandro Vento, Bao-Gan Peng

EDITORIAL BOARD MEMBERS

https://www.wignet.com/2307-8960/editorialboard.htm

PUBLICATION DATE

October 6, 2020

COPYRIGHT

© 2020 Baishideng Publishing Group Inc

INSTRUCTIONS TO AUTHORS

https://www.wjgnet.com/bpg/gerinfo/204

GUIDELINES FOR ETHICS DOCUMENTS

https://www.wjgnet.com/bpg/GerInfo/287

GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH

https://www.wjgnet.com/bpg/gerinfo/240

PUBLICATION ETHICS

https://www.wignet.com/bpg/GerInfo/288

PUBLICATION MISCONDUCT

https://www.wjgnet.com/bpg/gerinfo/208

ARTICLE PROCESSING CHARGE

https://www.wjgnet.com/bpg/gerinfo/242

STEPS FOR SUBMITTING MANUSCRIPTS

https://www.wjgnet.com/bpg/GerInfo/239

ONLINE SUBMISSION

https://www.f6publishing.com

© 2020 Baishideng Publishing Group Inc. All rights reserved. 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA E-mail: bpgoffice@wjgnet.com https://www.wjgnet.com





Submit a Manuscript: https://www.f6publishing.com

World J Clin Cases 2020 October 6; 8(19): 4505-4511

DOI: 10.12998/wjcc.v8.i19.4505

ISSN 2307-8960 (online)

CASE REPORT

Eight-year follow-up of locally advanced lymphoepithelioma-like carcinoma at upper urinary tract: A case report

Che H Yang, Wei C Weng, Yi S Lin, Li H Huang, Chin H Lu, Chao Y Hsu, Yen C Ou, Min C Tung

ORCID number: Che H Yang 0000-0003-2251-3379; Wei C Weng 0000-0002-8844-4882; Yi S Lin 0000-0003-0592-0036; Li H Huang 0000-0003-4337-7230; Chin H Lu 0000-0003-3707-6423; Chao Y Hsu 0000-0001-9809-7442; Yen C Ou 0000-0002-6080-7231; Min C Tung 0000-0002-

Author contributions: Yang CH was the reviewer of medical charts of this case and responsible for the original draft; Weng WC was the patient's urologist, reviewing the literature; Ou YC provided comments to the original draft; Lin YS and Huang LH were responsible to the follow-up; Lu CH was responsible for the literature searching and the rationale on writing; Hsu CY and Tung MC were responsible for the important intellectual content and supervisor; Informed consent was conducted by Weng WC and the document was signed under the confirmation of the duty doctor.

Informed consent statement:

Informed written consent was obtained from the patient for publication of this report and any accompanying images.

Conflict-of-interest statement: The authors declare that they have no conflict of interest.

CARE Checklist (2016) statement:

Che H Yang, Wei C Weng, Yi S Lin, Li H Huang, Chin H Lu, Chao Y Hsu, Yen C Ou, Min C Tung, Department of Surgery, Division of Urology, Tungs' Taichung MetroHarbor Hospital, Taichung City 435403, Taiwan

Corresponding author: Wei C Weng, MD, PhD, Attending Doctor, Dean, Surgeon, Surgical Oncologist, Department of Surgery, Division of Urology, Tungs' Taichung MetroHarbor Hospital, No. 699, Sec. 8, Taiwan Blvd., Wuqi Dist, Taichung City 435403, Taiwan. wcweng27@gmail.com

Abstract

BACKGROUND

Urinary tract lymphoepithelioma-like carcinoma is rarely seen. Although it is termed after lymphoepithelioma at the nasopharynx, it behaves more like high grade urothelial carcinoma by immunohistochemical features. Most published literatures focused on its rarity but few discussed results of long-term follow-ups. As no available guidelines are applicable, we postulated that principles should be similar to that of urothelial carcinoma at urinary tract. As of now, this work features the longest follow-up of this cancer at the upper urinary tract.

CASE SUMMARY

A 63-year-old female had a chief complaint of intermittent left flank pain for 2 mo, along with accompanying symptoms including vomiting and body weight loss, about 7 kg over 2 mo. Laboratory data showed normocytic anemia, mildly poor renal function, and hyperparathyroidism. Urine analysis showed mild hematuria. Computed tomography showed a 4.2-cm-width irregular mass over left renal pelvic and enlarged lymph node at the left renal hilum. Whole-body bone scan was negative of active bone lesions. Biopsy from ureteroscopy showed urothelial carcinoma. Specimen from laparoscopic nephroureterectomy with bladder cuff resection showed lymphoepithelioma-like carcinoma with muscular invasion (pT3). She took adjuvant chemotherapies of 2 cycles and full courses of radiation therapy. No recurrence was observed with designed investigative programs.

CONCLUSION

Locally advanced urinary tract lymphoepithelioma-like carcinoma could benefit from nephroureterectomy and bladder cuff excision in terms of recurrence-free

Key Words: Urologic neoplasms pathology; Kidney pelvis; Tomography X-ray computed;

The authors have read the CARE Checklist (2016), and the manuscript was prepared and revised according to the CARE Checklist (2016).

Open-Access: This article is an open-access article that was selected by an in-house editor and fully peer-reviewed by external reviewers. It is distributed in accordance with the Creative Commons Attribution NonCommercial (CC BY-NC 4.0) license, which permits others to distribute, remix, adapt, build upon this work non-commercially, and license their derivative works on different terms, provided the original work is properly cited and the use is non-commercial. See: htt p://creativecommons.org/licenses /by-nc/4.0/

Manuscript source: Unsolicited manuscript

Received: May 10, 2020 Peer-review started: May 10, 2020 First decision: June 7, 2020 **Revised:** June 18, 2020 Accepted: September 2, 2020 Article in press: September 2, 2020 Published online: October 6, 2020

P-Reviewer: Thanindratarn P

S-Editor: Zhang H L-Editor: A P-Editor: Xing YX



Carcinoma mortality; Kidney neoplasms mortality; Case report

©The Author(s) 2020. Published by Baishideng Publishing Group Inc. All rights reserved.

Core Tip: Although urinary tract lymphoepithelioma-like carcinoma is rarely seen and no published guideline can be offered, we could still outline feasible principles from immunohistochemical evidence. In our previous experience, guideline of urothelial carcinoma at urinary tract can provide us a promising result. The case in this work comprises of most of the worst scenarios, including mixed histological type, muscular invasion, and involvement of lymph node. However, with left nephroureterectomy with bladder cuff resection and postoperative radiation therapy, our result stands superior to those other published literatures. Thus, in our experiences, the operative methods play the definite roles on patients' prognosis.

Citation: Yang CH, Weng WC, Lin YS, Huang LH, Lu CH, Hsu CY, Ou YC, Tung MC. Eightyear follow-up of locally advanced lymphoepithelioma-like carcinoma at upper urinary tract: A case report. World J Clin Cases 2020; 8(19): 4505-4511

URL: https://www.wjgnet.com/2307-8960/full/v8/i19/4505.htm

DOI: https://dx.doi.org/10.12998/wjcc.v8.i19.4505

INTRODUCTION

Urinary tract lymphoepithelioma-like carcinoma (LELC) is termed after lymphoepithelioma (LE) at the nasopharynx but is actually a variant of urothelial carcinoma (UC). LELC is infrequently, 2% occurrence, identified at both upper and lower urinary tract. Malignancy is constituent of epithelial parts and inflammatory cells, such as myeloid cells or lymphoid cells under hematoxylin and eosin stain, making chemotherapy feasible. Immunohistochemical analysis differentiates urinary tract LELC from LE at the nasopharynx. No hybridization to Epstein-Barr virus, which is thought to be essential in cell expression and maintenance in LE of the nasopharynx, could be found in urinary tract LELC[1]. On the other hand, other characteristics such as presence of p53 make urinary tract LELC more resembling to high grade UC. In our previous published literature^[2], we deliberated our postulation on urinary tract LELC, applying the same therapeutic principle as UC. From our experiences^[2], nephroureterectomy with bladder cuff excision without adjuvant therapies on urinary tract LELC showed no recurrence within one year after surgery. However, most published literatures tend to have more discussion on the lower and few on the upper urinary tract. Among case studies of upper urinary tract LELC, few had discussions on longterm follow-ups. Furthermore, compared to stages T1 and T2 upper urinary tract LELC, stage T3 is proved to be worse in terms of overall survival^[3]. To date, this documentation has the longest investigations on the locally advanced upper urinary tract LELC.

CASE PRESENTATION

Chief complaints

On July 2012, a 63-year-old female came to the urology office with symptoms of intermittent left flank pain for 2 mo.

History of present illness

The pain was described to be localized at left fank. Neither precipitating factors nor exaggerating factors were mentioned. It occurred randomly without any special time or occasions, and can be suppressed by painkillers. Accompanying symptoms include vomiting and body weight loss, about 7 kg over 2 mo. She denied having visible red color urine, neither fever. Appetite was not changed. Neither specific travel histories nor cluster histories were mentioned.

History of past illness

She had uterine prolapse diagnosed 2 years before this episode, but did not have any interventions about it.

Physical examination

Her temperature was 35.9 °C, and heart rate was 74 bpm. Respiratory rate was 17 breaths per minute, and blood pressure was 127/81 mmHg. Oxygen saturation in room air was 98%. She ranked the pain subjectively 4 out of 10 on visual analog scale pain score. No knocking pain was examined at costovertebral angle, neither the tenderness on abdomen.

Laboratory examinations

Normocytic anemia was seen on complete blood cell (White blood cell: 4 500/UL, Red blood cell: 3370000/UL, Hemoglobulin: 10.4 g/DL, Mean corpuscular volume: 93.5 FL). Mildly insufficiency was seen on renal functions tests (Creatinine: 1.4 mg/DL, Blood urea nitrogen: 16.2 mg/DL). Elevated Intact parathyrin (EIA/LIA) was 245 pg/ML. Free T4 (EIA/LIA) was 1.070 ng/DL, and TSH (EIA/LIA) was 1.5 UIU/ML. Tumor markers of carcino-embryonic antigen, CA-199, and alpha-fetoprotein were all within normal limits. Urine examination showed hematuria (red blood cell 5-10/HPF) and pyuria (white blood cell: 10-20/HPF). Urine cytology was gained, but no atypical cells were examined.

Imaging examinations

Left side hydronephrosis was evident on ultrasound. Intravenous pyelography showed a non-enhanced left kidney (Figure 1) and then computed tomography urogram was arranged (Figure 2) for comprehensive studies, which showed an enlarged lymph node close to the left renal pedicle and one irregularly ill-defined 4.2cm width mass at the left renal pelvic.

Further diagnostic work-up

Ureteroscopy was arranged and biopsy was done to this 4.2-cm mass at left renal pelvis. Pathology from the biopsy was proved to be high-grade (grade III) UC, which is invasive to lamina propria.

FINAL DIAGNOSIS

The final diagnosis of this case is upper urinary tract UC with clinical stage of T3N1Mx at left renal pelvis.

TREATMENT

A whole-body bone scan showed a negative finding (Figure 3). After securing informed consent, the patient underwent laparoscopic left nephroureterectomy with bladder cuff excision.

A tumor size of 3 cm × 2.5 cm × 2.5 cm from left nephroureterectomy with bladder cuff resection was examined as undifferentiated LELC (Figure 4), high grade (undifferentiated type, grade IV), and invasive into muscle at renal pelvis and peripelvic fat (pT3). Surgical margin, Gerota's fascia, ureter, and resected bladder cuff were all free of tumor. No lymph node was identified from the specimen. Tissues from the other non-tumor kidney displayed chronic pyelonephritis with focal global sclerosis.

OUTCOME AND FOLLOW-UP

She received two cycles of gemcitabine (1000 mg/m²) and cisplatin (35 mg/m²) chemotherapy after the operation but stopped due to unbearable adverse effects, which was assessed to be grade I nausea and vomiting on World Health Organization criteria. Palliative radiation therapy (RT) was targeted to the enlarged lymph node at the left renal pedicle which had no proven pathologies. A total dosage of 5580 cGy was divided into 31 doses. However, 2 mo later, she suffered from low back pain and

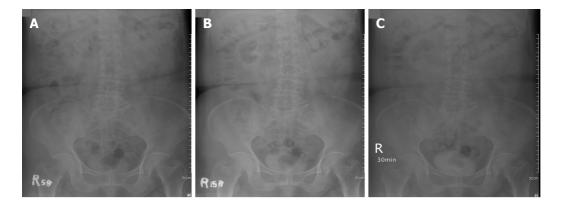


Figure 1 Intravenous pyelography. No enhancement of urinary tract at 5 min (A), 15 min (B) and 30 min (C) after administration of the contrast.

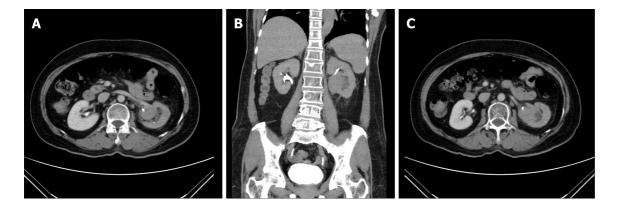


Figure 2 Computed tomography urogram. One 4.2 cm irregular mass was seen occupying the left renal pelvis on computed tomography urogram (A) (B); One enlarged lymph node was observed at the left renal pedicle (C).

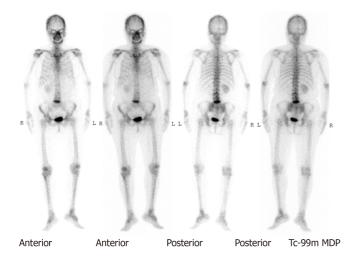


Figure 3 No observed active lesions were demonstrated on whole-body bone scan.

osteoporotic compression fractures were shown on X-ray and magnetic resonance imaging (Figure 5) of the L-spine (L2 and L5), which was a suspicious pathological change secondary to LELC. A second whole-body bone scan revealed no new onset changes compared to the preoperative one. The orthopedist performed palliative resection of the bone lesions and fixation with cages for symptomatic treatment. Fortunately, the specimen taken from bones showed null of metastatic cancer. Active follow-ups with urine cytology and cystoscopy every three months were planned. Computed tomography scan was done every six months postoperatively in the succeeding five years. After five years, biannual cystoscopy and annual computed

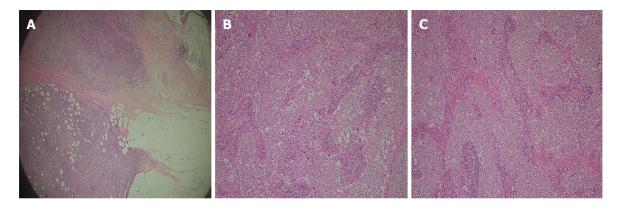


Figure 4 Hematoxylin and eosin stain. A: Generally, with hematoxylin and eosin stain the tumor was seen with invasion to muscular layer; B and C: Under augmentation (400 x), the tumor was examined with epithelial cells and lymphoid cells.

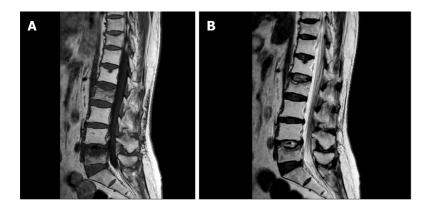


Figure 5 Magnetic resonance imaging. T1-weight (A) and T2-weight (B) image revealed destructive L2 and L5 spine. Related involvement of nearby spinal cord was also noted

tomography scan were done. She has no evidence of tumor recurrence postoperatively for 8 years till now. In conclusion, this pathological T3N1Mx mixed LELC with two cycles' adjuvant chemotherapy and a full dose of palliative RT can lead to a recurrence-free survival up to 8 years after left nephroureterectomy with bladder cuff excision.

DISCUSSION

Generally speaking, urinary tract LELC can be categorized into pure (100% LELC) or mixed type (predominant: > 50% LELC), and pure type is reported to have more favorable prognosis. The case, described in this article, comprises of some of the worst scenarios of LELC at the upper urinary tract, with muscular invasion, lymph node involvement, and undifferentiated mixed type histology. Lopez-Beltran et al[3] issued the largest series of follow-ups on upper urinary tract LELC[3] with a maximal 4.8-year span. Their data suggests that the overall survival rate is comparable to conventional UC at the upper urinary tract (about 60% survival rate and 40% cancer-related death) across all stages. However, in their statistics, all cancer-related deaths are at pT3 stage. They also find that prognosis will be influenced by T stage, and T3 stage (time before cancer-related death: 15 ± 16.2 mo; median: 8.5 mo; range: 4-39 mo) will significantly be worse than T1 and T2. The other related reports about LELC at the upper urinary tract in the past 20 years are listed in Table 1[3-11].

Among most publications, very few are documented with follow-ups long enough to represent meaningful survival analysis[3,4,8,10,11]. In article by Lopez-Beltran et al[3], radical nephrectomy with adjuvant chemotherapy is performed to all pT3N1 predominant LELC, which is similar to our case, at renal pelvis but they all die from cancer within 7 ± 3 mo. Judging from our case, literature from Lopez-Beltran et al^[3] and case reports from Valverde et al^[8] and Tamas et al^[11], patients can benefit more from the operative method of nephroureterectomy than nephrectomy in terms of recurrence-

Table 1 Published literatures of upper urinary tract lymphoepithelioma-like carcinoma

Ref.	Case amount	Gender, Age	Site and pathological TNM stage	LELC type	Treatment	Documented follow-up period
Lopez- Beltran et al ^[3]	10	68 yr old (Range: 54-85); male: 8; female: 2	All high grade; T stage: pT1: 2 (20%) pT2: 2 (20%) pT3: 6 (20%); renal pelvis: 4 (pT3N1: 3); ureter: 6 (pT3N1: 2,pT3N0: 1)	Pure type: 3 (pT3: 1); predominant type: 7 (pT3: 5)	Radical nephrectomy + adjuvant chemotherapy: 4 (all pT3); radical nephrectomy: 1; nephroureterectomy+ chemotherapy: 1(pT3); nephroureterectomy:2(pT3:1); ureterectomy: 2; all pT3N1predominant LELC at renal pelvis received radical nephrectomy+ adjuvant chemotherapy	Maximal 4.8 yr; cancer-related death: 4 (40%) (all pT3); overall survival of pT3N1 predominant LELC at renal pelvis: 7 ± 3 mo (range: 4-10 mo)
Haga et al ^[4]	1	75-year-old female	Left renal pelvis; pT1N1M0	Pure	Laparoscopic nephroureterectomy; no adjuvant therapies	3 yr, no recurrence
Yamada et al ^[5]	1	75-year-old female	Left renal pelvis; pT3N0M0	Not mentioned	Left nephrectomy; no adjuvant therapies	6 mo; no recurrence
Modi et al ^[6]	1	75 year-old female	Right renal pelvis; pT3N1M0	Mixed; predominant	Right radical nephroureterectomy; no adjuvant therapies	6 mo; no recurrence
Ahn et al ^[7]	1	65-year-old female	Right renal pelvis; pT3N0M0	Mixed; predominant	Laparoscopic right radical nephroureterectomy; no adjuvant therapies	6 mo; no recurrence
Valverde Martínez et al ^[8]	2 (one is at low urinary tract)	74-year-old female	Left renal pelvis; pT4N1M0	pure	Left radical nephrectomy + adjuvant chemotherapy(cisplatin, gemcitabine)	Recurrent at the 5 th yr
Wen et al ^[9]	1	64-year-old male	Right middle ureter	Mixed, predominant	Rght radical nephroureterectomy with bladder cuff excision; no adjuvant therapies	6 mo; no recurrence
Terai et al ^[10]	1	73-year-old male	Right ureter; pT2N0M0	Pure	Right laparoscopic nephroureterectomy; no adjuvant therapies	30 mo; no recurrence
Tamas et al ^[11]	30 (only 1 at renal pelvis; the rests are at low urinary tract)	Not mentioned	Renal pelvis; pT3Nx	Mixed	Radical nephrectomy + adjuvant chemotherapy	34 mo; no recurrence

4510

LELC: Lymphoepithelioma-like carcinoma.

free survival and overall survival. Adjuvant chemotherapy and palliative RT, by comparing our case with T1 from Haga et al^[4] and T2 from Terai et al^[10], might provide beneficial credits to prolong the recurrence-free survival for those with unfavorable advanced stage. However, there are still some examples with radical nephrectomy and adjuvant chemotherapy^[8] that demonstrated patients could live without recurrence to a maximal 5-year interval. This phenomenon of prognostic variations might imply that some other factors will further affect recurrence-free survival.

CONCLUSION

From our experiences and published literature, operative methods still possess definite roles, and locally advanced LELC at the upper urinary tract could benefit from nephroureterectomy and bladder cuff excision over nephrectomy in terms of recurrence-free survival and overall survival. Adjuvant chemotherapy and palliative RT might have positive roles for locally advanced LELC at upper urinary tract to extend the recurrence-free survival parallel to those with T1 and T2 ones, but a largescale analysis is necessary to further prove the hypothesis.

ACKNOWLEDGEMENTS

We thank Chung Hsiao Chin (Pathologist, Tungs' Taichung MetroHarbor Hospital, Taiwan) for helping re-stain the pathological specimen.

REFERENCES

- Fukunaga M, Ushigome S. Lymphoepithelioma-like carcinoma of the renal pelvis: a case report with immunohistochemical analysis and in situ hybridization for the Epstein-Barr viral genome. Mod Pathol 1998; 11: 1252-1256 [PMID: 9872659]
- Yang CH, Lin YS, Weng WC, Ou YC, Hsu CY, Tung MC. Simultaneous upper and lower urinary tract invasive Lymphoepithelioma-like carcinoma with programmed death-ligand 1 full expression on combined positive score. Urol Case Rep 2020; 31: 101201 [PMID: 32322521 DOI: 10.1016/j.eucr.2020.101201]
- Lopez-Beltran A, Paner G, Blanca A, Montironi R, Tsuzuki T, Nagashima Y, Chuang SS, Win KT, Madruga L, Raspollini MR, Cheng L. Lymphoepithelioma-like carcinoma of the upper urinary tract. $\textit{Virchows Arch 2017}; \textbf{470}: 703-709 \ [PMID: 28455741 \ DOI: 10.1007/s00428-017-2117-z]$
- Haga K, Aoyagi T, Kashiwagi A, Yamashiro K, Nagamori S. Lymphoepithelioma-like carcinoma of the renal pelvis. Int J Urol 2007; 14: 851-853 [PMID: 17760754 DOI: 10.1111/j.1442-2042.2007.01846.x]
- Yamada Y, Fujimura T, Yamaguchi T, Nishimatsu H, Hirano Y, Kawamura T, Teshima S, Takeuchi T, Kitamura T. Lymphoepithelioma-like carcinoma of the renal pelvis. Int J Urol 2007; 14: 1093-1094 [PMID: 18036048 DOI: 10.1111/j.1442-2042.2007.01897.x]
- Modi H, Beckley I, Bhattarai S, Spencer J, Cartledge J. Lymphoepithelioma-like carcinoma of the renal pelvis: Pathological and therapeutic implications. Can Urol Assoc J 2013; 7: E590-E593 [PMID: 24069102
- Ahn H, Sim J, Kim H, Yi K, Han H, Chung Y, Rehman A, Paik SS. Lymphoepithelioma-like Carcinoma of the Renal Pelvis: A Case Report and Review of the Literature. Korean J Pathol 2014; 48: 458-461 [PMID: 25588641 DOI: 10.4132/KoreanJPathol.2014.48.6.458]
- Valverde Martínez S, Salcedo Mercado W, Rodríguez Cruz I, Prieto Nogal SB, Martín Hernández M, Gómez Tejeda LM. [Urinary tract lymphoepithelial carcinoma. Report of two cases and bibliographic review.]. Arch Esp Urol 2017; 70: 361-366 [PMID: 28422039]
- Wen SC, Shen JT, Jang MY, Tsai KB, Chang SF, Tsai LJ, Wu WJ. Lymphoepithelioma-like carcinoma of ureter-a rare case report and review of the literature. Kaohsiung J Med Sci 2012; 28: 509-513 [PMID: 22974672 DOI: 10.1016/j.kjms.2012.04.010]
- 10 Terai A, Terada N, Ichioka K, Matsui Y, Yoshimura K, Wani Y. Lymphoepithelioma-like carcinoma of the ureter. Urology 2005; 66: 1109 [PMID: 16286140 DOI: 10.1016/j.urology.2005.05.038]
- Tamas EF, Nielsen ME, Schoenberg MP, Epstein JI. Lymphoepithelioma-like carcinoma of the urinary tract: a clinicopathological study of 30 pure and mixed cases. Mod Pathol 2007; 20: 828-834 [PMID: 17541442 DOI: 10.1038/modpathol.3800823]



Published by Baishideng Publishing Group Inc

7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA

Telephone: +1-925-3991568

E-mail: bpgoffice@wjgnet.com

Help Desk: https://www.f6publishing.com/helpdesk

https://www.wjgnet.com

