# World Journal of Clinical Cases

World J Clin Cases 2023 June 26; 11(18): 4210-4457





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#### **RESPONSIBLE EDITORS FOR THIS ISSUE**

Production Editor: Ying-Yi Yuan; Production Department Director: Xu Guo; Editorial Office Director: Jin-Lei Wang.

#### NAME OF JOURNAL

World Journal of Clinical Cases

#### ISSN

ISSN 2307-8960 (online)

#### LAUNCH DATE

April 16, 2013

#### **FREQUENCY**

Thrice Monthly

#### **EDITORS-IN-CHIEF**

Bao-Gan Peng, Jerzy Tadeusz Chudek, George Kontogeorgos, Maurizio Serati, Ja

#### **EDITORIAL BOARD MEMBERS**

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

#### **PUBLICATION DATE**

June 26, 2023

#### COPYRIGHT

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

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#### **GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH**

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#### **PUBLICATION ETHICS**

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#### **PUBLICATION MISCONDUCT**

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

#### ARTICLE PROCESSING CHARGE

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

#### STEPS FOR SUBMITTING MANUSCRIPTS

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

#### **ONLINE SUBMISSION**

https://www.f6publishing.com

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World J Clin Cases 2023 June 26; 11(18): 4406-4411

DOI: 10.12998/wjcc.v11.i18.4406

ISSN 2307-8960 (online)

CASE REPORT

# Primary prostate Burkitt's lymphoma resected with holmium laser enucleation of the prostate: A rare case report

Yu-Fan Wu, Xiang Li, Jun Ma, Dan-Yu Ma, Xue-Ming Zeng, Qi-Wei Yu, Wei-Guo Chen

Specialty type: Urology and nephrology

#### Provenance and peer review:

Unsolicited article; Externally peer reviewed.

Peer-review model: Single blind

# Peer-review report's scientific quality classification

Grade A (Excellent): A Grade B (Very good): B Grade C (Good): C Grade D (Fair): 0 Grade E (Poor): 0

P-Reviewer: Gaman MA, Romania; Sarier M, Turkey

Received: March 27, 2023

Peer-review started: March 27, 2023

First decision: May 8, 2023 Revised: May 10, 2023 Accepted: May 24, 2023 Article in press: May 24, 2023 Published online: June 26, 2023



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# **Abstract**

# **BACKGROUND**

Primary prostate Burkitt's lymphoma is a rare and aggressive condition with a poor prognosis. Its clinical presentation can be challenging to differentiate from benign prostatic hyperplasia. Given the rarity of primary prostate Burkitt's lymphoma, its diagnosis and treatment remain unclear.

#### CASE SUMMARY

This report presents a case of a 57-year-old male with primary prostate Burkitt's lymphoma, initially misdiagnosed as prostatic hyperplasia. This case's operative process, intraoperative findings and postoperative management are discussed in detail.

#### **CONCLUSION**

Primary prostate lymphoma is difficult to distinguish from other prostate diseases. Holmium laser enucleation of the prostate (HoLEP), a minimally invasive procedure, is crucial in diagnosing and treating this rare disease. Clinicians should remain vigilant and thoroughly combine physical examination, imaging and test results when encountering patients of younger age with small prostate size but a rapid progression of lower urinary tract symptoms. HoLEP is an essential diagnostic and therapeutic tool in managing primary prostate Burkitt's lymphoma.

Key Words: Primary prostate Burkitt's lymphoma; Holmium Laser enucleation of the prostate; Prostate hyperplasia; Case report

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**Core Tip:** Primary prostate Burkitt's lymphoma is a rare and aggressive condition with a poor prognosis. Combined with the analysis of the cases indexed in PubMed and RCA, Only three reports have previously documented Burkitt's lymphoma of the prostate. Holmium laser enucleation of the prostate (HoLEP) is an essential diagnostic and therapeutic tool in managing primary prostate Burkitt's lymphoma. Clinicians should remain vigilant and thoroughly combine physical examination, imaging and test results when encountering patients of younger age with small prostate size but a rapid progression of lower urinary tract symptoms.

Citation: Wu YF, Li X, Ma J, Ma DY, Zeng XM, Yu QW, Chen WG. Primary prostate Burkitt's lymphoma resected with holmium laser enucleation of the prostate: A rare case report. World J Clin Cases 2023; 11(18): 4406-4411

URL: https://www.wjgnet.com/2307-8960/full/v11/i18/4406.htm

**DOI:** https://dx.doi.org/10.12998/wjcc.v11.i18.4406

#### INTRODUCTION

Primary malignant lymphoma of the prostate is exceedingly rare, accounting for a mere 0.09% of all prostate neoplasms and 0.1% of all non-Hodgkin's lymphomas[1]. In the majority of cases, patients are diagnosed with prostatic hyperplasia at the time of surgery, making preoperative diagnosis extremely challenging. While there have been several reports on primary malignant lymphomas of the prostate, most of these malignancies are diffuse large B-cell lymphomas[2]. Only three reports have previously documented Burkitt's lymphoma of the prostate, found through the electronic databases PubMed using the keywords 'Burkitt's lymphoma' and 'prostate' [3-5]. The details of these cases are provided as a supplementary document. Notably, all of the aforementioned patients were identified within the youth population. This report presents a case of primary prostate Burkitt's lymphoma in a middle-aged patient who initially presented with prostatic hyperplasia. The timeline of the case report was shown in Figure 1.

Holmium laser enucleation of the prostate (HoLEP), first introduced by Gilling et al[6] in 1998, has been established as a minimally invasive technique. HoLEP is now considered a reference technique for the surgical treatment of prostatic hyperplasia, offering the same curative effect as transurethral prostatectomy but with a reduced morbidity and complication rate[7].

#### CASE PRESENTATION

#### Chief complaints

A 57-year-old Chinese man presented to the urology clinic with unable to self-urinate for two weeks.

#### History of present illness

After two weeks of having the catheter in place and consistently taking tamsulosin, the patient remained unable to self-urinate.

# History of past illness

A 57-year-old male initially visited an outpatient clinic specialising in urological surgery due to urinary urgency and frequency. In October 2022, the patient was diagnosed with benign prostatic hyperplasia (BPH). Despite treatment with tamsulosin, an α-blocker, his symptoms rapidly worsened within two months. Subsequently, he was admitted to the emergency department for acute urinary retention and received an indwelling catheter. After two weeks of having the catheter in place and consistently taking tamsulosin, the patient remained unable to self-urinate. He revisited the urological surgery outpatient clinic in December 2022 and was admitted for BPH. Over the previous two months, the patient experienced no other symptoms, such as fever or weight loss.

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#### Personal and family history

The patient denied any family history of malignant tumours.

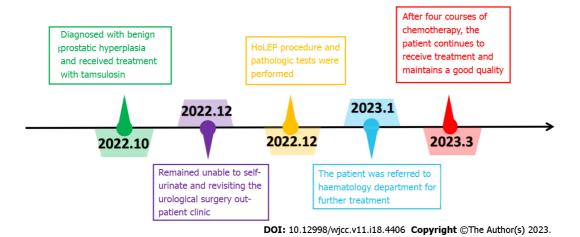


Figure 1 Timeline of the case report. HoLEP: Holmium laser enucleation of the prostate.

#### Physical examination

The patient's physical examination revealed no apparent abnormalities. Digital rectal examination indicated a Grade II prostate, characterised by a firm texture, smooth surface, lack of tenderness and an absent central groove.

#### Laboratory examinations

Blood routine examination and liver and kidney function test results were within normal limits. The serum total prostate-specific antigen measured 4.30 ng/mL (normal < 4 ng/mL), and the free prostatespecific antigen was 0.42 ng/mL. Routine urine analysis presented no significant abnormalities.

# Imaging examinations

Ultrasound examination of the urinary system demonstrated normal left and right kidneys. Computerised tomography (CT) estimated the prostate size to be approximately 57 mm × 36 mm × 34 mm, with a volume of around 36 mL. The bladder's residual urine volume was approximately 552 mL, as illustrated in Figure 2A. The preoperative international prostate symptom score was 27, and the quality of life (QOL) score was 5. Urodynamic examination indicated a maximum urine flow rate of 6.4 mL/s and an average urine flow rate of 5.2 mL/s.

#### Further diagnostic work-up

Based on the aforementioned examinations and tests, the patient was preliminarily diagnosed with prostatic hyperplasia. Upon conducting a physical examination, laboratory tests and imaging, a HoLEP procedure was performed on the patient in December 2022.

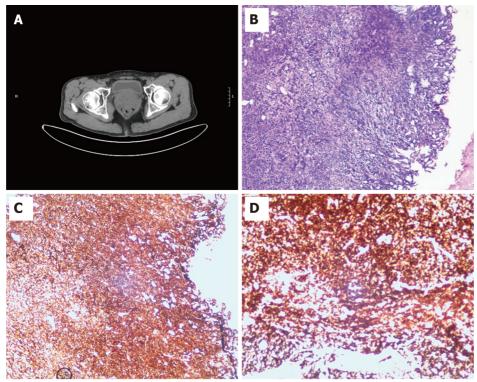
The surgeon observed that the patient's prostate tissue was notably swollen, with the left lobe of the prostate exhibiting significant oedema and protruding into the bladder. Additionally, extensive trabeculation was present within the bladder. The prostate tissue's texture was delicate, making it prone to bleeding upon contact. Once the bleeding from the prostate wound was controlled, the excised tissue was collected and submitted for examination. The patient experienced symptom regression following surgery.

#### FINAL DIAGNOSIS

Routine histological evaluation and immunohistochemical analysis of the postoperative specimens revealed a highly invasive malignant B-cell lymphoma, specifically Burkitt's lymphoma. The immunohistochemical assessment demonstrated positive CD20 and CD10 markers, while CD3, CD5, CD21 and CD23 were negative. In situ hybridisation for EBER was negative, and second-generation gene sequencing detected mutations in the MYC and TP53 genes (Figure 2B-D).

# TREATMENT

Following the primary prostate Burkitt's lymphoma diagnosis, the patient was immediately referred to our hospital's haematology department for further treatment. A whole-body PET-CT examination was conducted, revealing tumour invasion in the prostate, penis, gastric wall, right adrenal gland and bone



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Figure 2 The computed tomography imaging and pathologic findings. A: The computed tomography scan of the prostate; B: H&E staining of the resected left prostate (original magnification 100); C: Immunohistochemistry of the resected left prostate showed that CD20 and CD10 were positive, CD3, CD5, CD21 and CD23 were negative (original magnification 100); D: Immunohistochemistry of the resected left prostate showed that CD20 and CD10 were positive, CD3, CD5, CD21 and CD23 were negative (original magnification 400).

marrow, consistent with lymphoma (Figure 3). The patient's Lugano stage was identified as stage IV. Subsequently, the patient underwent a lumbar puncture, with cerebrospinal fluid (CSF) analysis indicating no tumour involvement.

In consultation with our hospital's haematology department, and considering the high invasiveness of the disease, the patient's age, multiple lesions throughout the body, and high tumour load, the haematology experts opted for the COP regimen to reduce tumour load. The specific treatment plan included the following: cyclophosphamide 0.56 g D1, vinorelbine 4 mg D1, dexamethasone 10 mg D0-D6, mesna to prevent cyclophosphamide toxicity and intrathecal injections of methotrexate and cytarabine to prevent central infiltration during a lumbar puncture. Following the COP pre-treatment, the R-COPDAM1 chemotherapy protocol was initiated: rituximab 700 mg D1, vinpocetine 4 mg D2, methotrexate 3.8 g D2, doxorubicin 50 mg D3, cyclophosphamide 0.93 g D3-D5 and dexamethasone 10 mg D2-D6.

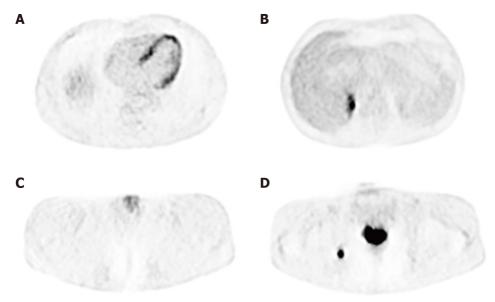
# **OUTCOME AND FOLLOW-UP**

To date, the patient has undergone four courses of standard treatment and has exhibited tolerability. After these four courses of chemotherapy, a follow-up whole-body CT scan demonstrated complete remission in response to the therapy. The patient continues to receive treatment and maintains a good quality of life.

# DISCUSSION

Primary malignant lymphoma of the prostate is a rare form of prostate malignancy, accounting for 0.09% of all prostate cancers[1]. In previous reports, most of these malignancies were documented as diffuse large B-cell lymphomas[2], with only three reports documenting Burkitt's lymphoma of the prostate[3-5]. This case presents several unique aspects compared to previous cases, enabling clinicians to better understand this rare disease.

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Figure 3 Positron emission tomography reveals increased 18F-fluorodeoxyglucose uptake at the gastric wal, right adrenal gland, penis and prostate. A: Tumor invaded the gastric wall; B: Tumor invaded the right adrenal gland; C: Tumor invaded the penis; D: Tumor invaded the the prostate.

First, patients with Burkitt's lymphoma are typically young people or minors, but in this case, a patient is a middle-aged man. This significant difference from previous literature reports increases the difficulty of preoperative diagnosis. Clinicians tend to misdiagnose such patients as having the more common condition of prostatic hyperplasia.

Furthermore, primary prostate lymphoma is difficult to distinguish from other prostate diseases. Symptoms, imaging and laboratory tests are not significantly different from BPH. To date, the only way to definitively diagnose this condition is through histopathological examination. In this case, the postoperative pathological results suggest Burkitt's lymphoma. A large-diameter core needle or surgical biopsy is necessary to distinguish Burkitt's lymphoma from other invasive lymphomas [8]. We believe that obtaining a large number of tissue samples through minimally invasive surgery, such as HoLEP with minimal trauma, plays a vital role in diagnosis. Our approach has also greatly improved the patient's lower urinary tract symptoms and quality of life. However, radical surgical tumour reduction is unnecessary for patients with Burkitt's lymphoma, as postoperative recovery may delay the start of systemic treatment, ultimately affecting disease management.

Regarding treatment, a consensus on the treatment plan for primary prostate lymphoma has not been reached. The conventional non-Hodgkin lymphoma chemotherapy plan is usually the mainstream method. In this case, the PET/CT of the patient showed multiple extranodal invasions, while bone marrow and CSF examinations were negative. Considering the high invasiveness of Burkitt's lymphoma, the COP chemotherapy plan is selected to reduce tumour burden, with the R-COPDAM1 chemotherapy plan employed for continued treatment. The patient's condition was favourable during follow-up.

#### CONCLUSION

In conclusion, early diagnosis and appropriate treatment can increase survival time and improve patients' QOL with prostate lymphoma. In this case, the patient's lower urinary tract obstruction symptoms were improved while obtaining pathological specimens via the HoLEP[9,10] minimally invasive method. Despite misdiagnosis before the operation, the patient achieved satisfactory results through multidisciplinary consultation and reasonable treatment. Clinicians should be vigilant and thoroughly combine physical examination, imaging and test results when encountering patients of a younger age with a small prostate but with a rapid progression of lower urinary tract symptoms.

# **FOOTNOTES**

Author contributions: Wu YF and Li X contributed to manuscript writing and editing, and data collection; Ma J, Ma DY, and Zeng XM contributed to data analysis; Yu QW and Chen WG contributed to conceptualization and supervision; all authors have read and approved the final manuscript.

Supported by the Kunshan Research and Development Project, No. KSZ2203; the Kunshan Research and Development Project, No. KZYY2205.

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 to disclose.

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

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Country/Territory of origin: China

ORCID number: Yu-Fan Wu 0009-0002-0390-2352.

S-Editor: Liu JH L-Editor: A P-Editor: Liu JH

#### **REFERENCES**

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