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ABOUT COVER

Peer Reviewer of World Journal of Clinical Cases, Narendra Pamidi, PhD, Assistant Professor, Department of Anatomy, Melaka Manipal Medical College, Karnataka 576104, India. narendra.pamidi@gmail.com

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CASE REPORT

Heterochronous multiple primary prostate cancer and lymphoma: A case report

Jin-Long Liang, Yu-Qing Bu, Li-Li Peng, Hong-Zhen Zhang

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Jin-Long Liang, Yu-Qing Bu, Li-Li Peng, Hong-Zhen Zhang, Department of Oncology, Hebei General Hospital, Shijiazhuang 050051, Hebei Province, China

Corresponding author: Hong-Zhen Zhang, PhD, Doctor, Department of Oncology, Hebei General Hospital, No. 348 Heping West Road, Xinhua District, Shijiazhuang 050051, Hebei Province, China. 1256596529@qq.com

Abstract

BACKGROUND

Multiple primary malignant tumors (MPMTs) are rare type of cancer, especially when solid tumors are the first and lymphoma is the second primary malignancy. We report a patient with heterochronous MPMTs consisting of prostate cancer and rectal diffuse large B-cell lymphoma (DLBCL).

CASE SUMMARY

We report a 77-year-old male patient diagnosed with prostate cancer who was treated with radiation therapy and one year of endocrine therapy with bicalutamide (50 mg per day) and an extended-release implant of goserelin (1/28 d). Seven years later, rectal DLBCL with lung metastases was found.

CONCLUSION

Although rare, the possibility of prostate cancer combined with a double primary cancer of DLBCL can provide a deeper understanding.

Key Words: Multiple primary malignant tumors; Radiation therapy; Diffuse large B-cell lymphoma; Prostate cancer; Non-Hodgkin lymphoma; Case report

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Core Tip: We report the case of a 77-year-old male patient diagnosed with prostate cancer presenting with dysuria with hematuria. He received radiation therapy and 1 year of endocrine therapy with an efficacy evaluation of partial response. 7 years later, he was diagnosed with diffuse large B-cell lymphoma of the rectum with lung metastases presenting with lower abdominal pain and constipation, and was treated with 2 cycles of chemotherapy on the CHOP regimen with an efficacy evaluation of remission. He was not treated again for personal reasons and unfortunately, the patient died 1 year later.

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INTRODUCTION

Multiple primary malignant tumors (MPMTs) are defined as two or more histologically distinct malignancies in one individual[1]. According to the time interval of diagnosis, it is divided into simultaneous and heterochronic MPMTs. Simultaneous MPMTs are diagnosed within 6 months of the primary cancer, and heterochronous MPMTs are defined as the detection of another malignancy more than 6 months after the diagnosis of the first one [2].

Symptoms of heterochronic MPMTs are similar to those of a single malignant tumor, but the prognosis is worse. MPMTs are diagnosed based on pathological, histological, and immunohistochemical examinations, and there are no standardized treatment guidelines. Treatment plan is mainly based on the patient's pathological staging, clinical staging, and tolerance. Finally, a radical or palliative treatment plan will be chosen. Treatment methods include surgery and systemic therapy, including chemotherapy, endocrine therapy, immunotherapy, targeted therapy, and so on. Adverse drug reactions, overlap between the effects of drugs, and the accumulation of drug toxicity should be considered.

Here, we report a 77-year-old male patient diagnosed with prostate cancer who was treated with radiation therapy and one year of endocrine therapy. Seven years later, rectal diffuse large B-cell lymphoma (DLBCL) with lung metastases was detected.

CASE PRESENTATION

Chief complaints

A 77-year-old man who was treated in another hospital due to dysuria, hematuria, and bloating was transferred to Hebei General Hospital as his symptoms did not improve despite treatment.

History of past illness

Two weeks before admission, the patient developed intermittent dysuria and hematuria. For six months, he had abdominal distension and constipation without significant weight loss, fever, and night sweats. Due to persistent symptoms, the patient was referred to our hospital for further treatment.

Personal and family history

He had a history of prostate cancer diagnosed 7 years before his visit. Pathology of puncture biopsy confirmed vesicular adenocarcinoma with a Gleason score of 8. Immunohistochemical staining showed the following results: Prostate-specific antigen (PSA) (++++), P504s (++), 34βΕ12 (-), P63 (-), androgen receptor (++++), and Ki-67 positive rate of about 5%. Radiotherapy combined with endocrine therapy was given. Gross tumor volume (GTV): Visible tumor in the prostate, CTV: Pelvic lymphatic drainage area. Prescribed dose: 100 % GTV: 6400 cGy, 98% CTV: 5800 cGy. Endocrine therapy regimen included bicalutamide (50 mg per day) and goserelin extended-release implant (1/28 d). Efficacy was assessed as a partial response at the end of radiotherapy. Endocrine therapy was performed for 1 year. Then, it was discontinued for personal reasons. There was no specific family history.

Physical examination

Physical examination on admission showed coarse breath sounds, rales, scattered dry rales at the base of both lungs and pressure pain in the right epigastric region without rebound and muscle tension. In anal palpation, we also found pressure pain in the front of the anus and irregular swelling with brittle texture. The finger sleeve was stained with blood.

Laboratory examinations

After admission, serum total protein was 66.2 g/L (normal range: 65-85 g/L) and serum albumin was 38.3 g/L (normal range: 40-55 g/L). Total PSA was 0.835 ng/mL (normal range: < 4.4 ng/mL). Lactate dehydrogenase was 426.2 (normal range: 109-245 U/L). Coagulation was normal except for mildly elevated D-dimer level (0.94 mg/L, normal range < 0.55 mg/L). Urine analysis showed 3+ occult blood. Screening for human immunodeficiency virus, syphilis, and hepatitis B were negative.

Imaging examinations

Computed tomography (CT) scan showed marked thickening of the rectal wall and a space-occupying lesion in the apical posterior segment of the upper lobe of the left lung (Figure 1). Colonoscopy showed narrowing of the rectal lumen from the dentate line to 5 cm above the dentate line, with congestive and swollen infiltrative changes in the mucosa, irregular surface structure, and brittle texture.

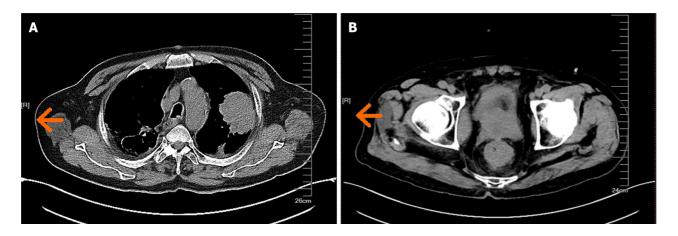


Figure 1 Computed tomography images. A: Occupational lesion of the posterior segment of the upper lobe of the left lung; B: Prostate enlarged, surface not smooth and indistinctly demarcated from bladder on the anterior surface; wall of rectum markedly thickened.

FINAL DIAGNOSIS

Pathological assessment of rectal biopsy revealed extruded damaged heterogeneous cells in the mucosal mesenchyme. Immunohistochemical staining revealed CD3 (-), CD20 (+), CD21 (-), CD (10-), Bcl-2 (+), Bcl-6 (+), MUM1 (+), c-MYC (20%+), CD5 (-), Cyclin D1 (-), EBNA2 (-), P504s (-), PSA (-), CKpan (-), vimentin (-), CgA (-), CD56 (-), Syn (-), and Ki-67 (90%+) (Figure 2). Miscellaneous in situ component (rectal biopsy) showed EBER (-). Combined with immunohistochemical staining, the diagnosis was confirmed to be diffuse large B-cell lymphoma. CT-guided puncture biopsy of the left lung mass suggested Non-Hodgkin's lymphoma (NHL). Immunohistochemical staining of the lung tissue revealed CD3 (-), CD20 (+), CD21 (-), Bcl-2 (+), Bcl-6 (+), CD10 (-), MUM1 (+), c-MYC (40%+), and Ki-67 (approximately 90%+) (Figure 3). Combined with immunohistochemical staining, the diagnosis was confirmed to be DLBCL.

All three tumors had consistent pathological and immunohistochemical findings. The rectal and pulmonary tumors were not considered to be metastases of prostate cancer. Thus, the diagnosis of MPMTs of prostate cancer and rectal DLBCL with lung metastases was confirmed.

TREATMENT

After 2 cycles of chemotherapy with the CHOP regimen, a partial response was obtained (Figure 4).

OUTCOME AND FOLLOW-UP

Subsequently, the patient discontinued treatment due to personal reasons. Unfortunately, the patient died after 1 year.

DISCUSSION

Prostate cancer is a malignancy of men and significantly increases mortality rates globally. In 2020, GLOBOCAN reported approximately 1.41 million new cases of prostate cancer, resulting in nearly 380000 deaths worldwide, with higher prevalence in developed countries[3]. Late diagnosis of prostate cancer and treatment failure are the main factors leading to the increased mortality rate of prostate cancer[4]. Genetic susceptibility, ethnicity, age, obesity, and other environmental factors are risk factors for prostate cancer. Prostate cancer is diagnosed based on digital rectal examination, prostate-specific antigen analysis, and prostate biopsies.

NHL is a hematologic malignancy originating from lymphoid tissue. The pathogenesis of NHL is unclear and may be related to hepatitis B, human immunodeficiency virus, EBV infection, elevated lactate dehydrogenase, or weak immune response[5]. DLBCL is the most common subtype of NHL, accounting for nearly 30% of cases[6]. Gene expression profiling (GEP) can differentiate between favorable germinal center B-cell (GCB), unfavorable activated B-cell (ABC), and intermediate unclassifiable signatures in DLBCL[7]. Because GEP is not routinely available in clinical practice, immunohistochemical signatures were developed to capture the distinction between the GCB-like DLBCL subgroup and the ABClike DLBCL subgroup[8]. In 2005, Hans et al[9] applied tissue microarray technology for typing, and established the typing pattern of IHC by detecting CD10, BCL6, and d MUM1. It classified DLBCL into GCB type and non-GCB type. The prognosis of the former was significantly better than that of the latter (P < 0.001). There was 84% consistency between this typing method and the gold standard. This case belonged to the non-GCB type, with a relatively poor prognosis. The international prognostic index of the patient was 5, indicating a high risk and poor prognosis.

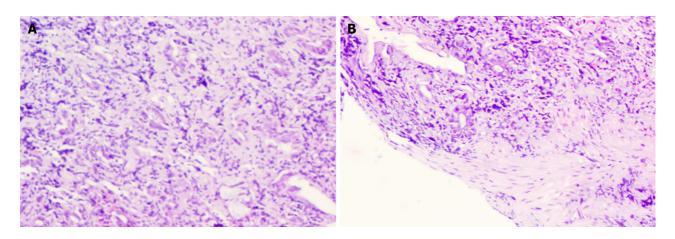


Figure 2 Rectal biopsy: Heterogeneous cells with extrusion injury are seen in the mucosal interstitium. A: Original magnification: × 100; B: Original magnification: × 100.

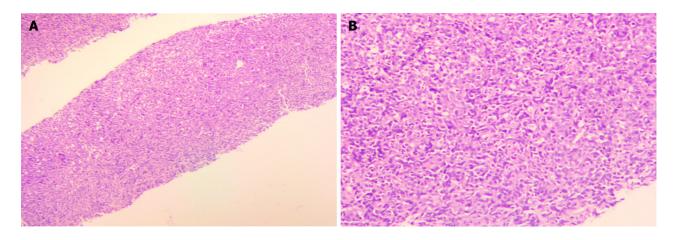


Figure 3 Lung biopsy: Malignant tumour, consider non-Hodgkin's lymphoma. A: Original magnification: × 40; B: Original magnification: × 100.

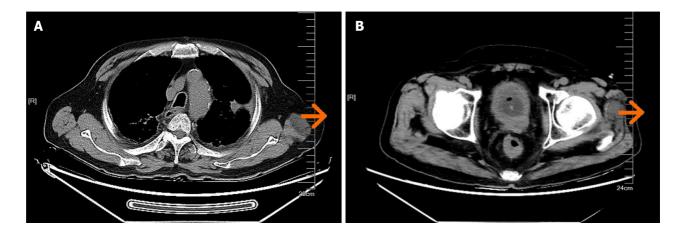


Figure 4 Tumor changes after 2 cycles of chemotherapy with the CHOP regimen. A: Changes of chest lesions after chemotherapy; B: Changes of rectal lesions after chemotherapy.

MPMTs are rare type of cancer, and despite the increasing incidence, it is rare to have a solid tumor as the first malignancy and lymphoma as the second primary malignancy. In addition to the rarity of prostate cancer combined with DLBCL, it is also rare for a second primary malignancy to develop after radiotherapy for prostate cancer.

In general, cancer survival is increasing by 3%-5% annually. Therefore, MPMTs are becoming increasingly important for cancer diagnosis as survival rates improve [10]. The increase in the incidence of MPMTs can be attributed to the increased number of cancer survivors, the long-term side effects of chemotherapy and radiotherapy, and the role of genetic, environmental, and endocrine factors[11]. The results of a meta-analysis showed that patients with prostate

cancer treated with radiotherapy have an increased risk (OR) of developing rectal cancer compared with patients treated with non-radiotherapy measures (OR: 1.45, 95%CI: 1.07-1.97, P = 0.02)[12]. This suggests that radiation therapy may increase the risk of a second primary malignancy. In this case report, a patient with prostate cancer developed rectal DLBCL with lung metastases after radiation therapy and endocrine therapy. The patient had no risk factors, such as genetic and environmental risk factors, and it was hypothesized that radiation therapy and endocrine therapy might have increased the risk of MPMTs.

CONCLUSION

Although rare, the possibility of prostate cancer combined with a double primary cancer of DLBCL can provide a deeper understanding.

FOOTNOTES

Author contributions: Liang JL wrote the article; Bu YQ collected the literature; Peng LL revised the format of the article; Zhang HZ revised and is responsible for the full text.

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Country/Territory of origin: China

ORCID number: Jin-Long Liang 0000-0002-0105-8728; Yu-Qing Bu 0000-0002-1220-2406; Hong-Zhen Zhang 0000-0003-3226-9744.

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REFERENCES

- Zhai C, Cai Y, Lou F, Liu Z, Xie J, Zhou X, Wang Z, Fang Y, Pan H, Han W. Multiple Primary Malignant Tumors A Clinical Analysis of 15,321 Patients with Malignancies at a Single Center in China. J Cancer 2018; 9: 2795-2801 [PMID: 30123347 DOI: 10.7150/jca.25482]
- Mukaiyama Y, Suzuki M, Morikawa T, Mori Y, Takeshima Y, Fujimura T, Fukuhara H, Nakagawa T, Nishimatsu H, Kume H, Homma Y. Multiple primary malignant neoplasms of the glottis, renal pelvis, urinary bladder, oral floor, prostate, and esophagus in a Japanese male patient: a case report. World J Surg Oncol 2014; 12: 294 [PMID: 25245383 DOI: 10.1186/1477-7819-12-294]
- Sung H, Ferlay J, Siegel RL, Laversanne M, Soerjomataram I, Jemal A, Bray F. Global Cancer Statistics 2020: GLOBOCAN Estimates of 3 Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. CA Cancer J Clin 2021; 71: 209-249 [PMID: 33538338 DOI: 10.3322/caac.21660]
- Sekhoacha M, Riet K, Motloung P, Gumenku L, Adegoke A, Mashele S. Prostate Cancer Review: Genetics, Diagnosis, Treatment Options, and Alternative Approaches. *Molecules* 2022; 27 [PMID: 36080493 DOI: 10.3390/molecules27175730]
- Wu J, Zhou Y, Li Q, Zhang J, Mao Y. Primary biliary non-Hodgkin's lymphoma: A case report. Medicine (Baltimore) 2021; 100: e26110 5 [PMID: 34087857 DOI: 10.1097/MD.0000000000026110]
- Sehn LH, Salles G. Diffuse Large B-Cell Lymphoma. N Engl J Med 2021; 384: 842-858 [PMID: 33657296 DOI: 10.1056/NEJMra2027612] 6
- Rosenwald A, Wright G, Chan WC, Connors JM, Campo E, Fisher RI, Gascoyne RD, Muller-Hermelink HK, Smeland EB, Giltnane JM, Hurt EM, Zhao H, Averett L, Yang L, Wilson WH, Jaffe ES, Simon R, Klausner RD, Powell J, Duffey PL, Longo DL, Greiner TC, Weisenburger DD, Sanger WG, Dave BJ, Lynch JC, Vose J, Armitage JO, Montserrat E, López-Guillermo A, Grogan TM, Miller TP, LeBlanc M, Ott G, Kvaloy S, Delabie J, Holte H, Krajci P, Stokke T, Staudt LM; Lymphoma/Leukemia Molecular Profiling Project. The use of molecular profiling to predict survival after chemotherapy for diffuse large-B-cell lymphoma. N Engl J Med 2002; 346: 1937-1947 [PMID: 12075054 DOI: 10.1056/NEJMoa0129141
- Carbone A, Gloghini A, Kwong YL, Younes A. Diffuse large B cell lymphoma: using pathologic and molecular biomarkers to define subgroups for novel therapy. Ann Hematol 2014; 93: 1263-1277 [PMID: 24870942 DOI: 10.1007/s00277-014-2116-y]



- Hans CP, Weisenburger DD, Greiner TC, Gascoyne RD, Delabie J, Ott G, Müller-Hermelink HK, Campo E, Braziel RM, Jaffe ES, Pan Z, Farinha P, Smith LM, Falini B, Banham AH, Rosenwald A, Staudt LM, Connors JM, Armitage JO, Chan WC. Confirmation of the molecular classification of diffuse large B-cell lymphoma by immunohistochemistry using a tissue microarray. Blood 2004; 103: 275-282 [PMID: 14504078 DOI: 10.1182/blood-2003-05-1545]
- 10 Chowdhry AK, Fung C, Chowdhry VK, Bergsma D, Dhakal S, Constine LS, Milano MT. A population-based study of prognosis and survival in patients with second primary thyroid cancer after Hodgkin lymphoma. Leuk Lymphoma 2018; 59: 1180-1187 [PMID: 28862484 DOI: 10.1080/10428194.2017.1369063
- Bray F, Ferlay J, Soerjomataram I, Siegel RL, Torre LA, Jemal A. Global cancer statistics 2018: GLOBOCAN estimates of incidence and 11 mortality worldwide for 36 cancers in 185 countries. CA Cancer J Clin 2018; 68: 394-424 [PMID: 30207593 DOI: 10.3322/caac.21492]
- Nugent TS, Low EZ, Fahy MR, Donlon NE, McCormick PH, Mehigan BJ, Cunningham M, Gillham C, Kavanagh DO, Kelly ME, Larkin JO. Prostate radiotherapy and the risk of secondary rectal cancer-a meta-analysis. Int J Colorectal Dis 2022; 37: 437-447 [PMID: 35037077 DOI: 10.1007/s00384-021-04075-6]



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