

Metastatic prostate cancer involving the right testicle

Daniel Landau, John Graham

CASE REPORT

A 55-year-old male diagnosed with prostate cancer in 2010 and underwent radical prostatectomy followed by salvage radiation therapy to the prostatic fossa. He was found to have bone metastasis and since had been treated with hormonal therapy, enzalutamide, abiraterone, radium-223, and taxotere. In April 2016, the patient's PSA was >1500 ng/dL. In August 2016, the patient was found to have bone marrow involvement with anemia (hemoglobin 6.1 g/dL) and thrombocytopenia (platelets $32 \times 10^3/\text{ul}$). In November 2016, the patient began complaining of scrotal pain. Physical examination demonstrated an enlarged scrotum with palpable mass and magnetic resonance imaging (MRI) scan revealed a right testicular hydrocele containing multiple enhancing nodules (Figures 1–4). At last follow-up on November 10, 2016, the patient continued to have scrotal pain, and required transfusions for anemia and thrombocytopenia and is currently being treated with carboplatin and cabazitaxel.

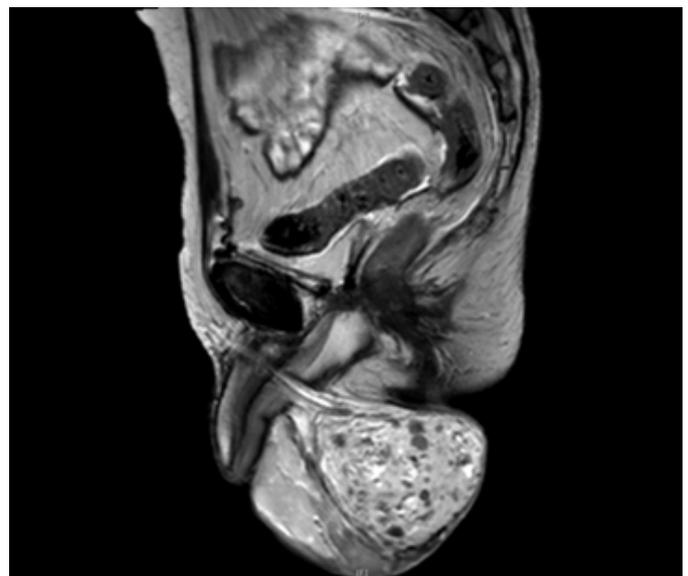


Figure 1: T2 magnetic resonance imaging scan sagittal view showing right testicle with multiple enhancing lesions.

DISCUSSION

Secondary solid tumor testicular neoplasms are a rare occurrence with the prostate being the most common originating site followed by the lungs and kidneys [1]. Malignant hematogenous spread from the prostate after radical prostatectomy at fifth year was found to occur in

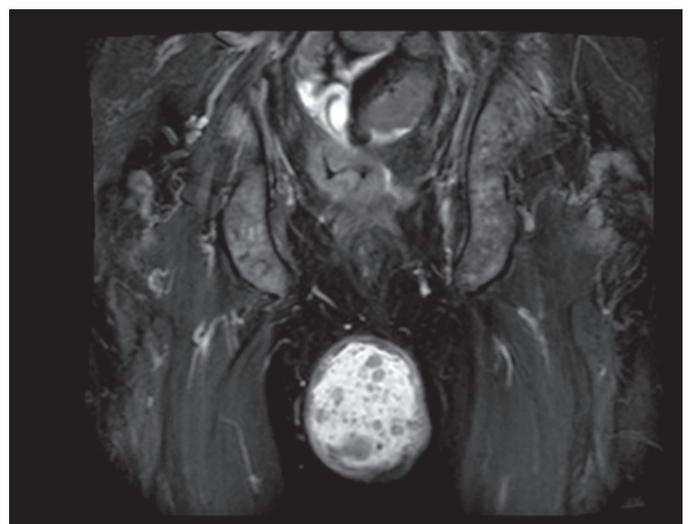


Figure 2: STIR magnetic resonance imaging scan coronal view showing multiple cystic masses within the right testicle.

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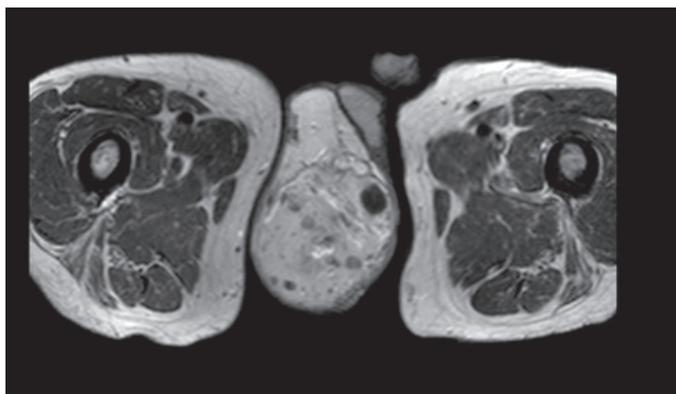


Figure 3: T2 magnetic resonance imaging scan axial view showing a dominant right testicle with multiple cystic lesions.

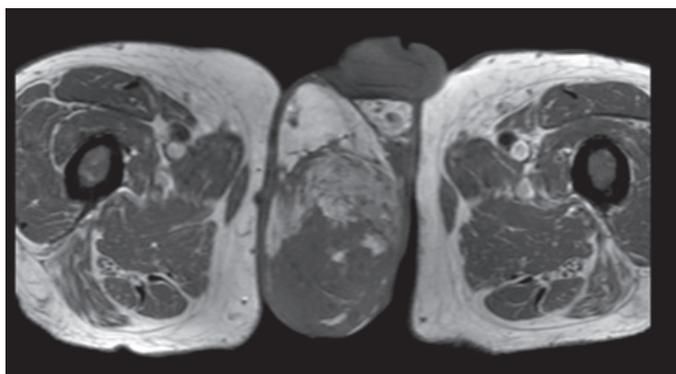


Figure 4: T1 magnetic resonance imaging scan axial view showing enlarged right testicle occupying most of the scrotal space.

22% of patients, with spread to the testes being most rare [2, 3]. This patient already had other sites of metastasis prior to the discovery of his right testicular involvement. Median survival time for patients with testicular metastasis of prostate cancer is less than one year and typically represents aggressive disease [4]. Our patient has progressed through multiple lines of therapy and has been recommended to undergo right orchiectomy as mean survival postorchiectomy for patients with metastatic prostate cancer was 12.8 months and also for palliative pain control [5].

CONCLUSION

While rare, developing scrotal pain in a male patient with prostate cancer should raise concern for metastasis. Imaging evaluation with ultrasound and/or magnetic resonance imaging scan to look for metastatic foci should be pursued. Surgical resection should be considered to provide both symptomatic relief and to potentially prolong survival.

Keywords: Metastasis, Prostate cancer, Scrotal pain, Testes, Testicular, Testicular neoplasms

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Daniel Landau – Substantial contributions to conception and design, Acquisition of data, Analysis and interpretation of data, Drafting the article, Revising it critically for important intellectual content, Final approval of the version to be published

John Graham – Analysis and interpretation of data, Revising it critically for important intellectual content, Final approval of the version to be published

Guarantor

The corresponding author is the guarantor of submission.

Conflict of Interest

Authors declare no conflict of interest.

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