Reviewer's report

Title: Primary leiomyosarcoma of the seminal vesicle: case report and review of the literature

Version: 1 Date: 13 May 2011

Reviewer: Charles Rosser

Reviewer's report:

This is an interesting case report from Cauvin et al. entitled ‘Primary leiomyosarcoma of the seminal vesicle: case report and review of the literature’. In this case report, the authors describe a 59 year old WM who presented with a mass detected on rectal examination. The mass was biopsy proven to be a leiomyosarcoma, which was treated with radical surgery followed by adjuvant therapy. Fifty-one months after diagnosis the patient is alive with stable disease. In addition a brief review of the literature is provide. Overall this is an interesting and extremely rare case report. The manuscript would benefit from extensive editing. A point by point critique of the manuscript follows.

Title: No concerns
Abstract: No concerns
Background: No concerns
Case presentation: Please describe the size of the mass on rectal examination. Was the patient taken to the operating room for exam under anesthetic? Was the mass fixed or mobile in the pelvis?
Please describe the size of the mass on ultrasound. Were planes evident on ultrasound? Any signs of invasion on ultrasound?
Why was a transperineal biopsy done and not a transrectal? Any concerns with a transrectal?
Do you have a serum PSA at the time of presentation?
A radical prostatectomy and BPLND was performed. Was this an extended BPLND?
Did you consider giving neoadjuvant chemotherapy and radiation therapy? Usually it is tolerated better. Thought should have been given to this since your MRI demonstrated invasion into local structures.
Only 14 lymph nodes were removed. For this procedure and this tumor, the lymph node count is sub-par.
Typical sarcomas are quite aggressive locally, however in this case there was no local recurrence. Since 'standard' 1st line therapy did not work and there was no local recurrence and the metastatic lung lesions are not as much in the peripheral as usual, was another diagnosis (concurrent cancer) considered?
Discussion
Adequate review of the literature on this rare topic.

References – No concerns

Table 1 – No concerns

Figures 1-3 – Great images. No concerns

Overall this is an interesting case report of a rare tumor. The physicians should be applauded for their work on this case, but questions remain that must be answered.

**Level of interest:** An article of limited interest

**Quality of written English:** Not suitable for publication unless extensively edited

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests.