

# Surgery in Metastatic Seminoma: Negative Trial Should Be Treated as Negative

## TO THE EDITOR:

With great interest, we have read an article by Daneshmand et al<sup>1</sup> describing outcomes after retroperitoneal lymph node dissection (RPLND) for testicular seminoma with limited retroperitoneal lymphadenopathy. The idea of surgical treatment is to avoid cytotoxic cisplatin-based chemotherapy and decrease the risk of late toxicities to maintain quality of life. The authors enrolled 55 patients with either nonbulky stage IIA-IIB diseases (n = 19; 35%) or metachronous retroperitoneal metastases after regional recurrence of stage I seminoma (n = 36; 65%).<sup>1</sup>

With a median follow-up of 33 months, 12 patients eventually experienced disease recurrence. The primary end point of the trial was not reached, and the authors assumed to achieve a 2-year recurrence-free rate (RFS) of  $\geq 90\%$  with 90% power and 10% one-sided type I error to reject the null hypothesis of  $\text{RFS} \leq 75\%$ , whereas the trial has shown a 2-year RFS of 81% and overall recurrence rate (RR) of 22%. Short follow-up time for relapsed patients in the trial does not allow adequately assessing the long-term oncological safety of this approach.

Long-term complications were detected in four patients (7%), including three patients (5%) with anejaculation. In conclusion, the authors claimed that RPLND is a treatment option for patients with testicular seminoma with low long-term morbidity.

According to the primary end point, this is a negative trial, and we think the achieved results should be approached in this way. The reported RR appears to be unacceptably high and far exceeding the RR with standard approaches. Furthermore, nine operated patients (16%) did not have tumor in the resected retroperitoneal lymphatic nodes, clearly representing pitfalls in the preoperative diagnosis. Excluding these patients, we have 26% RR in the population with retroperitoneal lymph nodes. Similar high relapse rate (30%) was reported in the PRIMETEST trial with RPLND as a single treatment option.<sup>2</sup>

For comparison, Tandstad et al<sup>3</sup> reported zero recurrences (0%) in patients with clinical stage II seminoma treated with modern cisplatin-based chemotherapy. One should also note short follow-up time for relapsed patients in the trial by Daneshmand et al,<sup>1</sup> which does not allow us to establish long-term oncological safety of this approach. Complications, as noted by the authors, including anejaculation, may affect quality of life of the patients. We agree

that immediate and late toxicity related to chemotherapy may be troublesome for patients receiving treatment with curative intent; however, benefits of surgery are arguable in this setting.

If there are contraindications for this kind of treatment, other less aggressive approaches are emerging. The SAKK 01/10 trial (n = 120) demonstrated a 3-year RFS of 93.7% in patients with stage IIA or IIB classic seminoma (either at primary diagnosis or equivalent clinical finding at relapse during active surveillance for stage I seminoma).<sup>4</sup> Interestingly, this trial also failed to achieve the primary end point of 3-year RFS  $\geq 95\%$ ; however, this estimate exceeds the expectations of the authors of the current trial.

In conclusion, we think it is quite early to recommend primary RPLND for stage II seminoma as a possible treatment option outside the clinical trials, and the patients have to be informed about the potential survival harms of this intervention. Further trials should focus on opportunities for treatment de-escalation for these patients.

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## AUTHORS' DISCLOSURES OF POTENTIAL CONFLICTS OF INTEREST

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## REFERENCES

1. Daneshmand S, Cary C, Masterson T, et al: Surgery in early metastatic seminoma: A phase II trial of retroperitoneal lymph node dissection for testicular seminoma with limited retroperitoneal lymphadenopathy. *J Clin Oncol* 41:3009-3018, 2023
2. Hiester A, Che Y, Lusch A, et al: Phase 2 single-arm trial of primary retroperitoneal lymph node dissection in patients with seminomatous testicular germ cell tumors with clinical stage IIA/B (PRIMETEST). *Eur Urol* 10.1016/j.eururo.2022.10.021
3. Tandstad T, Smaaland R, Solberg A, et al: Management of seminomatous testicular cancer: A binational prospective population-based study from the Swedish Norwegian Testicular Cancer Study Group. *J Clin Oncol* 29:719-725, 2011
4. Papachristofilou A, Bedke J, Hayoz S, et al: Single-dose carboplatin followed by involved-node radiotherapy for stage IIA and stage IIB seminoma (SAKK 01/10): A single-arm, multicentre, phase 2 trial. *Lancet Oncol* 23:1441-1450, 2022

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