Reviewer’s report

Title: RNSCLC-PRSP software to predict the prognostic risk and survival in patients with resected T1-3N0-2 M0 non-small cell lung cancer. Yunkui Zhang1,2, YaoChen Li3, Rongsheng Zhang2, Yujie Zhang2, Haitao Ma1* 1Department of thoracic surgery, The First Affiliated Hospital of Soochow University. No. 899 Pinghai Road, Suzhou 215006, China. 2Department of thoracic surgery, Shanxi Tumor Hospital. No. 3 Zhigongxin Street, Taiyuan 030013, China. 3The central laboratory of Cancer Hospital of Shantou University Medical College ; Guangdong Provincial Key Laboratory on Breast Cancer Diagnosis and Treatment Research. No. 7 Raoping Road, Shantou 515031, China. * Correspondence to: Haitao Ma, email: mahaitao7403@163.com. Yunkui Zhang email: zhangyunkui0308@163.com Yaochen Li email: yaochenli-2004@163.com Rongsheng Zhang email: zhangrongsheng6304@163.com Yujie Zhang email: zhangyujie19833@163.com

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Reviewer: Jiecong Lin

Reviewer's report:

This manuscript discuss the prognostic risk and survival prediction of the patients with resected T1-3N0-2 M0 non-small cell lung cancer. The main contribution of the manuscript is developing a website tool (RNSCLC-PRSP) to predict prognostic risk and survival based on the prognostic index equation. I have some objections which I believe should be addressed before this manuscript is ready for submission.

Major comments:

1. Authors should elucidate why to use PI=0.6 and PI=1 as the thresholds for grouping the patients. What if the PI threshold for low risk is 0.6 or 0.7? In terms of the prognosis risk and survival prediction for clinical decision-making, I believe more threshold analyses are needed.

2. Authors shouldn't conclude there is no association between the variates and the survival rate just because a P-value is larger than a threshold such as 0.05 [1]. Authors ought to use feature selection method like Information Gain Based Feature Selection, Correlation Based Feature Selection or Learner Based Feature Selection.

3. Authors should use an independent testing dataset to estimate the performance of prognostic index equation.

**Level of interest**
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An article of importance in its field

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Please indicate the quality of language in the manuscript:

Not suitable for publication unless extensively edited

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