Reviewer's report

Title: Autoantibodies to Tumor Associated Antigens as Early Detection Biomarkers for Lung Cancer or Noncalcified Nodules

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Reviewer: Jianying Zhang

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In this study, authors have used immunoassays to detect autoantibodies to a panel of 10 tumor-associated antigens (TAA) in sera from lung cancer patients, and controls. The logistic regression models based on the antibody biomarker levels among the high risk and lung cancer groups were also developed to identify the combinations of biomarkers that predict lung cancer. There are several suggestions as follows.

1. Author should give more description about ELISA test. How did you determine the cutoff value?
2. It is better to add another table showing frequencies of each anti-TAA antibodies in sera from lung cancer patients and controls.
3. Another minor concern: Whether or not all ELISA positive sera have been confirmed by additional assays, such as western blot or slot blot?

Overall, this is an interesting, and also a clinically relevant study. The manuscript was well written. If the author can follow reviewer’s suggestion, and make a minor revision, this manuscript should be accepted for publication.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.