Author's response to reviews

Title: Increased Risk of Cancer among Relatives of Patients with Lung Cancer in China

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Version: 5 Date: 3 October 2005

Author's response to reviews: see over
We would like to proceed with publication in BMC cancer.

We complete the revisions of our MS follow as:

The response to first Comments by reviewer Chikako Kiyohara

**Major Compulsory Revisions**

1) We delete the unsuitable sentence in “Background section”, see Page 2; We rewrite completely the Methods in “Abstract section”, see Page 1.
2) “For the 4378 first-degree relative……” was corrected to “There were 109 (2.5%) lung cancer cases and 103 (2.4%) non-lung cancer cases among the 4378 first-degree relatives of the spouses.”, see Page 7;
   “There was, however, a significant risk……” was corrected to “However, the risk for cancers of all anatomic sites was significantly increased among the relatives of lung cancer probands (p<0.001). “, see Page 8.
4) “retrospective case-control study” was changed to “case-control study” and “lung cancer proband” was changed to “lung cancer case (proband)”, see Page 1 in abstract”.

**Minor Essential Revisions**

1) ”further” was deleted and “study” was corrected to “study”, see Page 5;
2) Fonts more than two kinds do not exist;
3) Space between the lines is consistent.

The response to second Comments by reviewer Joan E Bailey-Wilson

**Major Compulsory Revisions**

**Minor Essential Revisions**

1) we renew the recent reference[26] and add related information “Furthermore, the recent findings show that the homozygous GSTP1 Ile105Val genotype was significantly under-represented in NSCLC compared with controls especially in females, and neither GSTM1 nor MPO genotypes affected the overall risk of NSCLC, and the MPO and CYP1A1 risk genotypes interacted to increase overall risk of NSCLC[26]. Multiple genes of modest effect interact to confer genomic-based susceptibility to lung cancer.”, see Page 9;
2) ” the proband’s spouse who had not lung cancer and must be a farmer was selected to control group” was changed to “spouses of probands were included in the control group if these spouses were themselves unaffected with lung cancer and were farmers”, see Page 3;
3) ”Logistic regress analysis” was corrected to “Logistic regression analysis” and “coefficinets” was corrected “coefficients”, see Page 4;

The third revisions by us:

1) see Page 1: “correspondence” was changed to “corresponding author”; the
upmark:a,b,c were changed to upmark:1,2,3; “grant sponsor” was deleted and place it to back acknowledgements; rewrite the abstract specially “Methods”;
2) see Page 2: “remarkably” was corrected to “remarkable”
3) see line 4 in Methods (Page 3): “China” was better changed to “Anhui”; add “20 years age” into first sentence in second paragraph;
4) see Page 4: “selected three communes VS other communes” was changed to “selected three counties VS other counties”; “separated” was corrected to “separated”;
5) see Page 5: “samlpe” was corrected to “sample”; “in the cases and control groups” was changed to “in the case and control groups”; in rural regions of Anhui,China” was deleted in all tables;
7) “Proband families were 1.67 times more likely to have one family member with cancer and 2.56 times more likely than spouse families to have two family members with cancer (table 2).” was changed to “Proband families were 1.67 times more likely to have one family member with cancer and 2.56 times more likely to have two family members with cancer than spouse families (table 2).”;
8) “They found no increased risk for lung cancer when considered separately.” “They found no increased risk for lung cancer when considered separately.”;
9) We add “Authors’ contributions YJ designed the study and drafted the manuscript. YX carried out the statistical analysis. MX collected the data of lung cancer cases and controls. SX participated in the design of the study and helped to draft the manuscript. All authors read and approved the final manuscript. Competing interests The author(s) declare that they have no competing interests. Acknowledgements We thank those families who took part in the investigation. This work was supported by National Natural Science Foundation of China (NSFC) grants 30471427.” to end of our paper;
10) We corrected the typy of references to suitable status.

P.S.
We let a native English teacher go through our paper.