Reviewer's report

Title: Temperature Differences are Associated With Malignancy on Lung Lesions: a Clinical Study

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Reviewer: Prof NG Eddie YK

Level of interest: A paper of considerable general medical or scientific interest

Advice on publication: Unable to decide on acceptance or rejection until the authors have responded to the compulsory revisions

Discretionary revisions:

Sample size is rather low.
In the abstract: 11 had benign while 11 had malignant tumour. However, it was mentioned in the Results: it is 12 subjects had chronic inflammation and 10 had malignant infiltrated tumour. Rather low sensitivity although reasonably high specificity.
Pp. 4, 1st para.: Good to make clear what 4F in diameter meant?
Pp. 9: blank page
More details description of the following statements and cited those related references could be useful such as:
pp. 5: Steinhart-Hart equation;
pp. 6: Due to ...Mann-Whitney criterion
pp. 6: cut-off point analysis, how this method was used to determine the optimal point of the temperature differences.....
pp. 6: STATA release 6 [provide ref.]

Compulsory revisions:

Pp. 7: how small is the tumour size (diameter) or early carcinomas that are referred as frequently difficulty....?
Pp. 8: What is the correlation between the temperature differences and the size of tumours?
Pp.8, 1st para.: "......the direct measure of the local temperature of tumours...... has never been attempted, in vivo," should be amended. See the refs. [1] to [5] of previous work..
Some typo and grammatical errors in the script should be amended.

References:

Competing interests:

None declared.