Reviewer’s report

Title: "Unique trend" and "contradictory trend" in discrimination of primary synchronous lung cancer and metastatic lung cancer

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Reviewer: Mitsuhiro Takenoyama

Reviewer’s report:

This manuscript entitled ""Unique trend" and “contradictory trend" in discrimination of primary synchronous lung cancer and metastatic lung cancer" has reported the usefulness of polymorphic microsatellite markers to distinguish intrapulmonary metastasis from primary lung cancer. This approach and the data are interesting and potentially contain useful information for the readers of BMC cancer but there are several points to be clearly answered before acceptance.

Major remarks:
1. Table 4 should be deleted because of the same content in Table 5-7.
2. Discussion is too redundant and should be much more concise.
3. Papers reporting other molecular markers and protein expression in cancer-related genes for the discrimination of primary lung cancer and intrapulmonary metastasis should be added in the discussion section.
4. Tumors of Patient 4 and 5 in Table 7 could be double primary lung cancer from the results of microsatellite pattern. If so, prognosis of these two patients are expected to be better than the other patients. The prognosis of 8 patients would be added in Table 7.

Minor remarks:
Several mistakes, grammatical errors and spelling miss are found as follows:
On page 1: conquence # consequence
On page 2 in line 26: grammatical error
On page 2: similarity # similar
On page 4: stude # study
On page 8: up # upper
On page 8: low # lower
On page 9 in line 4: D22S689#D10S1239
On page 9 in line 11: Table 4#Table 7
On page 9 in line 15: Patient 6 and 9 (Table 4) #Patient 3 and 7 (Table 7)
Microsatellite markers D10S1239 of Patient 5 was reduced in Table 5, however in the text, it was described to be not detected on page 6.
**Level of interest:** An article of importance in its field

**Quality of written English:** Needs some language corrections before being published

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests.