Reviewer's report

Title: Ovarian metastases resection from extragenital primary sites outcome and prognostic factor analysis of 147 patients

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Reviewer: Ingiridur Skirnisdottir

Reviewer's report:

Reviewer 2012-04-03

This is an important work of clinical significance

Ovarian metastases resection from extragenital primary sites outcome and prognostic factor analysis of 147 patients

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Abstract

This paragraph could you condense as it difficult to understand

In univariate analyses, extragenital primary cancer site from gastrointestinal cancer compared to that of breast cancer (8.0 months vs. 41.0 months, \( P=0.000 \)) from gastric cancer compared to that of colorectal cancer (7.4 months vs. 8.8 months, \( P=0.036 \)), synchronous metastases (8.1 months vs. 10.2 months, \( P=0.027 \)), local invasion (8.0 months vs. 13.7 months, \( P=0.007 \)), massive intraoperative ascites (>1000 mL) (6.0 months vs. 9.9 months, \( P=0.005 \)), combined metastasis (5.9 months vs. 10.2 months, \( P=0.001 \)) were identified as significant poor prognosis factors.

to following: In univariate analyses, there was a significant (8.0 months vs. 41.0 months, \( P=0.000 \)) differences in OS between gastrointestinal cancer and breast cancer.

and so on ....................................................

Background

Approximately 7% of ovarian masses encountered clinically are metastatic lesions, the most common sites of origin include the gastrointestinal tract and breast. This increased the complexity when differential diagnosis for the ovarian mass are considered, as often time surgical exploration is necessary for the correct diagnosis. [1-4]

The structure of this paragraph could be better!

Statistical analysis
Overall survival (OS) was calculated from the date of ovarian metastatectomy to death or last follow-up time. In patients whose time interval between the diagnosis of the primary tumor and that of the ovarian metastasis exceeded 6 months were defined as metachronous metastasis in current study.

This paragraph should be moved to "Methods"

Results
Characteristics of ovarian metastases
Clinical characteristics The median age at diagnosis was 47 years old (range: 21-78 years), with 81 (55.1%) premenopausal. Among 147 patients, the origins of the ovarian metastases were colorectal (72, 48.9%), gastric (60, 40.8%), breast (12, 8.2%), biliary duct (2, 1.4%) and liver (1, 0.7%). There were more frequent colon (54/72, 75%) origins compared to that of rectal (18/72, 25%).

I would like a new Table 1 that could demonstrate only the most important clinical variables without any statistical information.

I would like a new Table 2) that could demonstrate the most important statistical findings in univariate analysis and the rest could be better described with words in the text in results as:

Pre-operation serum CA125
Pre-operation serum CEA
Pre-operation serum LDH.

The english language have to be better!

As
And the remaining 8 patients (20%) received the surgery due to other unknown individual reasons. The majority of the cases (105,.........................)

Should be: The remaining 8 patients....................

Discussion
I would like that the authors had more koncentrated focus to findings in this study

Conclusion
Ovarian metastases are more commonly seen to originate from primary gastrointestinal tract. In this study?

The prognosis of ovarian metastasis is dismal and the
benefit of ovarian metastatectomy is limited. Those with combined metastasis outside ovaries, locally invasion and massive intraoperative ascites were independent factors for predicting unfavorable overall survival. The identification of the primary tumor is required to plan for adequate treatment for this group of patients. HOW?

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

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

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

**Declaration of competing interests:**

'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.