Reviewer’s report

Title: Immunohistochemical profiling of benign, low malignant potential and low grade serous epithelial ovarian tumors

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Reviewer: Viqar Syed

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Summary: The authors have used six previously identified candidates from their studies know to be implicated in ovarian cancer and evaluated their protein expression in tissue array composed of benign (BOV), low malignant potential (LMP) or borderline and invasive (TOV) tumors. They find significant difference in the expression of Ccnb1 in BOV tumors compared to LMP tumors. The authors observed that TRAIL was expressed at a higher level in G1 TOV tumors compare to BOV. The authors showed that the expression of p21 was significantly lower in G1 tumors when compared with either BOVs or LMP and also showed association of p21 expression with or non-invasive compared to invasive implants.

Critique: Overall, this manuscript shows differential expression of candidate proteins in benign, borderline and low grade tumors. The weakness of this study is that out of selected candidates only one member is showing differential expression between groups. Authors have done similar studies before. Thus, the novelty of the findings is limited.

Level of interest: An article of limited interest

Quality of written English: Acceptable

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'