Reviewer's report

**Title:** Evaluation of dual-wavelength excitation autofluorescence imaging of colorectal tumours with a high-sensitivity CMOS imager: a cross-sectional study

**Version:** 1 **Date:** 9 June 2015

**Reviewer:** Elena V Filonenko

**Reviewer's report:**

Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct).

The manuscript is dedicated to evaluation of dual-wavelength excitation autofluorescence imaging of colorectal tumours with a high-sensitivity CMOS imager.

I have issues I would like addressed:

1. 34 and further as the text goes. In order to facilitate comprehension of the work the group of lesions should be renamed: adenoma/M-ca into adenoma+M-ca or adenoma and M-ca, SSA/Ps into SSA+Ps or SSA and Ps.

2. 34 vs 91 and further as the text goes. In the text both “Ps” and “P” are used, one variant should be chosen.

3. 36-37. The specimens were irradiated with excitation light at 365 nm and 405 nm, and autofluorescence images were obtained using a new, high-sensitivity CMOS imager. It is necessary to represent the wavelength in which autofluorescence registration was performed using high-sensitivity CMOS imager.

4. 91. The sentence should be written as “adenocarcinoma (M-ca), adenoma, and sessile serrated adenoma (SSA), polyp (P) specimens”.

5. 101. The study included 98 patients. However, authors indicated that there were 64 men and 36 women, (n=100).

6. 171. There is misspelling: “u” in the word “florescence” is missed.

7. 220. Literature older than 5 year is 75,7% of given references, thus do not reflect the reality of modern colon cancer diagnosis (inc. fluorescence diagnosis), and given statistics may not correspond to up-to-date situation.

**Level of interest:** An article of outstanding merit and interest in its field

**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