Reviewer's report

Title: Collectives of diagnostic biomarkers identify high risk subpopulations of haematuria patients: exploiting heterogeneity in large-scale biomarker data

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Reviewer: John Fitzpatrick

Reviewer's report:

This is an elegant study into an important area of research, by a well-respected group of researchers. I enjoyed reading it, but would suggest that two comments might be helpful.

1. Is the cohort of patients an all-comer, sequential series, or have patients with, for example, urinary tract infection or nephrotic syndrome been excluded by other investigations?

2. From the point of view of the clinician who would like something to help in the clinical setting (which this analysis sets out to do), is this really clinically applicable? when one sees a number of mathematical formulae, the reader may well feel that there is a separation between scientific endeavour and user-friendliness in the clinical setting.

I am aware that this is a mainly scientific study, but I believe that these two suggestions might be helpful.

Quality of written English: Acceptable

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

Declaration of competing interests:

I have no competing interests