Reviewer's report

Title: Determination of the best method for estimating glomerular filtration rate from serum creatinine in adult patients with sickle cell disease: a prospective observational cohort study

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Reviewer: CHANGCHUN CAO

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The study has compared Cockcroft-Gault, MDRD and CKD-EPI with the standard measurement of GFR using iohexol plasma clearance in Sickle cell disease. The manuscript is interesting, but need minor revision.

1. In the KIDGO recommendation, high GFR is suggest to be more than 105 mL/minute/1.73 m². Arlet JB and colleague define glomerular hyperfiltration as mGFR higher than 110 mL/min/1.73 m², as did Haymann and coll mentioned in the paper. What is the "coll"? A author?

2. Serum and urine creatinine were measured using an alkaline picrate assay with calibration traceable to IDMS. How to standardise it traceable to IDMS?

3. In addition to the mean difference, ±1.96 SD are needed to represented by the dashed line in the Bland and Altman analysis.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

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.