Reviewer's report

Title: Chronic kidney disease among high school students of Kinshasa, the Democratic Republic of Congo.

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Reviewer: Radovan Hojs

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Authors presented in their paper entitled »Chronic kidney disease among high school students of Kinshasa, the Democratic Republic of Congo« the prevalence of CKD in adolescent and young adults. CKD was estimated with Schwartz formula. Authors found also excellent agreement between Schwartz formula and MDRD formula and not with C&G. The paper is interesting and well written.

Major comments:

1) As stated by authors in limitations for proteinuria – the definition of CKD requires persistence of kidney damage for at least 3 months (K/DOQI). The same is true also for decreased eGFR – this should be also mentioned in the limitations of the study.

2) Serum creatinine was measured by Jaffe – was it compensated method? (according to discussion probably not – uncalibrated versus calibrated) – this should be clear in methods

3) In results – b. Prevalence of CKD: in the text the prevalence is from 1.5% - 6.5%; in the table 2 and in the discussion it is from 1.5 to 6.7% (which number is correct?) Is the prevalence of CKD only according to the eGFR or eGFR + proteinuria – it is not clear

4) Very important drawback of this paper is that authors compared eGFR in ml/min/1.73m2 (Schwartz and MDRD formula) to eGFR in ml/min (C&G). They should first adjust results from C&G formula to standardized 1.73m2 (standardized BSA) and then they can compare C&G with other formulas. This might change the results and also the discussion.

5) Girls have higher creatinine than boys –do they have more muscles? (they had different BMI – fat?, muscles?; higher waist circumference ?) – authors should comment on this

6) What is about consent (signed? ) from students; authors declare only consent from »political, administrative and school authorities«

Level of interest: An article whose findings are important to those with closely related research interests

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