Reviewer's report

Title: Risk Of Intracranial Hemorrhage Associated With Autosomal Dominant Polycystic Kidney Disease In Patients With End Stage Renal Disease

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Reviewer: Maria Irazabal

Reviewer's report:

In this retrospective study, the authors reported differences in risk of ICH among the ADPKD vs. non-ADPKD patients by analyzing the United States Renal Data System (USRDS) database. They found that ADPKD had a subhazard ratio 2.97 for ICH. Furthermore, adjusted cox analysis showed that ADPKD patients had an AHR for death of 0.59 vs. non-ADPKD patients, suggesting that ADPKD is a significant risk factor for ICH among patients on maintenance dialysis.

General comments:
The manuscript is well written and the study well designed. Data are clearly presented. However, there are several limitations (acknowledged by the investigators) which represent a potential weakness in this study and are also a problem for the relevance of conclusion.

Specific comments:
Abstract: The abstract is well written and major results are highlighted. The study hypothesis should be stated in this section.
Introduction: This section is too short. It would be nice to expand it by adding the reasons why ADPKD patients have increased risk for ICH.
Materials and methods: Please provide a list of exclusion criteria used for the selection of the study patients. NOS and AF have to be spelled-out in page 5. Which non-parametric tests were used? Please define BMI at first mention.
Results: A p value is needed in page 8 after the sentence “… ADPKD patients vs. 2.36 years for non-ADPKD patients”.
Discussion: The authors analyzed objectively their study and its limitations. A reference is needed at the end of the sentence “… dialysis population are likely not related to ruptured intracranial aneurysm”. Please discuss whether screening for ICA is recommended in ADPKD patients entering dialysis.

Level of interest: An article of importance 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