**Reviewer:** Amrita Basu, CCRC (Complex Carbohydrate Research Center, University of Georgia, Athens, Georgia. USA

In the manuscript, “**PathoClock and PhysioClock in mice recapitulate human multimorbidity and heterogeneous aging**” the authors described about Pathoclock and PathoAge which can be used to capture biological changes that can predict BODN for comparing multimorbidity across species. This work may be published in after minor revisions / clarifications.

**Comments to Authors:**

Quite a well-articulated manuscript with a few minor changes.

1. As the studies are focused on PathoClock and PathoAge to capture biological changes and predict BODN which is a metric in humans and multimorbidity is being studied across species. Is there any other studies focused on any other models which could encompass the entire dictum of “across species”.
2. It would also be interesting to focus on multimorbidity in mammalian models as it is predictability for BODN.
3. It would also be interesting to know the physical examination results as the interpretation could also be related to age-/sex-/strain specific for the mice designed studies for further comparing to BODN.
4. Any other strains of mice which were used for similar studies must be included in the conclusion and future directives part as comparing only two mice models cannot be completely conclusive for predict BODN for comparing multimorbidity across species.

**To the editor in chief:**

This manuscript can be accepted to publish in journal after minor revisions/clarifications.