

Reviewer 2 (Sterling Nesbitt)

Basic reporting

The paper describes a tooth from the Upper Triassic Chinle Formation of Utah. The authors conduct a pretty thorough investigation of the identification of the tooth. The paper is pretty well written but requires some work prior to publication. A few points:

- remove the story telling sentences. For example, we don't need to know that the id of the tooth was not figured out when the tooth was found.
- a description of the actual wear facet is needed in the description.
- when making comparisons, make sure to summarize why the tooth may not belong to a certain clade. For example, even though the new tooth does not belong to *Coelophysis bauri*, it could belong to a theropod dinosaur.
- be specific as possible. When saying smaller, how much smaller?
- many comments were made of the MS doc

Figures

fig 2. Where is the specific bed? Can you see teeth in situ? What is the A?

fig. 3. Where are the labels? Also, the photographs of the top two and the bottom left corner need to be retaken. They are out of focus and I can not make out the details of the description in the fig.

fig. 4. Use a different color for the missing enamel and the wear fact. Right now, they look identical. Also, shouldn't there be missing enamel in the apical view?

fig. 5. I don't think this figure is needed. Only the comparison to teeth is needed.

Experimental design

No comment

Validity of the findings

-the absence of keel on the mesial edge may be an artefact of preservation and this needs to be looked at very carefully given your comparisons. The keel could be within the eroded enamel completely, so it is possible it had a keel.

-the comparison to the phytosaur jaws is not really useful. Compare the teeth and remember size may not matter sometimes.

-justification of the minimal clade level needs to be much better supported. This will be difficult, but possible. Think about the construction and feature of the tooth.

-what about variation across teeth? Please discuss.

Comments for the author

This paper is a great start and I can see it published after some revisions.