Reviewer’s report

Title: Gastropathy associated with lanthanum phosphate deposition that was endoscopically tracked for 3 years: a case report

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Reviewer's report:

In this paper, the authors describe annual chronological change of the endoscopic findings in a patient with long-term administration of lanthanum carbonate, which seems to be worth reporting. However, several worrisome points below are to be considered.

More detailed histopathologic findings of the biopsy material are needed: Deposited materials containing lanthanum seem to show more variable findings, not just "eosinophilic granular deposits". The gastric mucosa in Figure 2, which is reportedly a biopsy from the erosive lesion, seems to show regenerative change in addition to intestinal metaplasia.

Only a biopsy material obtained at the third endoscopy is reported. Were any biopsies obtained at the first, second, or forth endoscopy? If there are other biopsy materials, their histopathologic findings should be described in comparison with the biopsy of the third endoscopy, and should be discussed with the corresponding endoscopic findings.

The authors' discussion about the relationship between the lanthanum deposition and intestinal metaplasia in Pages 7-8 is insufficient. The authors point that the spread mode of the lanthanum deposition and progressive atrophy of the gastric mucosa described by Takemoto et al. are similar. Is the lanthanum deposition followed by intestinalization of the gastric epithelium, or is the intestinal metaplasia caused by the lanthanum deposition?
The relationship between alteration of tight junction proteins such as claudins and the increased permeability is not directly studied in the cited references (1, 6, 7), which should be more correctly discussed.

The description of "scanning electron microscopy-energy dispersive x-ray spectroscopy (SEM-EDX)" in the test is not inconsistent and incorrect: "energy dispersive X-ray analysis" in Figure 3 legend, and "energy dispersion type X-rays (SEM-DEX) analysis" in Figure 4 legend. This is the case for the main text in Page 6. "SEM-DEX" seems to be "SEM-EDX".

In Keywords, "histrocyte" seems to be "histiocyte".

In Reference 5, an author name seems to be described just as an initial "TT".

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

Unable to assess

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

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Needs some language corrections before being published

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