Reviewer’s report

Title: Autoimmune Pulmonary Alveolar Proteinosis Developed During Immunosuppressive Treatment in Polymyositis with Interstitial Lung Disease : a case report

Version: 0 Date: 21 Feb 2020

Reviewer: Cormac McCarthy

Reviewer's report:

This is an interesting case and adds to the field. I have some comments.

Case presentation: When the patient first presented, she had GGO in her lungs and although she did not have cytological findings in keeping with PAP how do we know she did not have aPAP then, was GMAb checked at this time? Perhaps she had aPAP in a mild form there. Histology can be patchy and is non diagnostics in ~25% of confirmed aPAP cases, cytology is even weaker finding.

Page 4 Line 45: "Pulmonary alveolar proteinosis (PAP) is a rare diffuse lung disease", please change this to say is a rare syndrome as PAP comprises many diseases, of which aPAP is one, please check this for consistency throughout the manuscript.

Page 4 Line 54-55: "Only a few cases can be found in registry studies and case reports", please also refer to the association recently described in Juvenile Idiopathic Arthritis . (Schulert et al Arthritis Rheumatol , 71 (11), 1943-1954 Nov 2019)

Minor Comments: PSL is not a standard abbreviation for prednisolone and is not helpful to the reader, please spell out prednisolone throughout the manuscript instead of abbreviating.

Page 7 Line 104: Please reference which method was used or a reference for the cut-offs for GM-CSF antibody level, as different cut-offs apply with different methods.

Discussion: Please refer to the recent Schulert report regarding JIA and also comment on the lack of HLA association reported by Anderson et al, PLOS One 2019 (https://doi.org/10.1371/journal.pone.0213179)

Discussion: Please also refer to the fact that GMAb was not checked in 2004 and she may have had aPAP then.

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.

Yes
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.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

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None

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