Reviewer’s report

Title: The Association between Biochemical Control and Cardiovascular Risk Factors in Acromegaly

Version: 0 Date: 15 Dec 2016

Reviewer: Kevin Yuen

Reviewer's report:

This paper by Carmichael et al. describes the experience of management of acromegaly in a single center and demonstrate a higher number of comorbidities in those not controlled biochemically compared to their controlled counterparts. They also report that almost a third of such patients remain uncontrolled even after > 8 yrs of treatment.

There are several points that the authors need to clarify:

1. The authors report the presence of the comorbid conditions. How did the authors define a patient as having LVH, cardiomyopathy, CHF, sleep apnea, colon polyps and cancer. Where these patients formally assessed by Cardiologists, Sleep Medicine and GI providers? Was hypertension and diabetes defined based on the fact that patients were on anti-hypertensives and anti-diabetes meds, or were they defined based on high BP, fasting glucose and HbA1c levels? Was LVH defined based on ECG changes? Was mild CHF defined based on echocardiogram studies?

2. Can the authors provide the methodology of how GH and IGF-I were measured? As this study dates back to 1985, the authors need to also discuss the changes in assays used, and different cut-points to define those biochemically controlled vs thos who are uncontrolled.

3. Can the authors provide the IGF-I SDS data so that readers can see whether the patients were just under control, or even if they had any IGF-I SDS < -2 suggestive that they may have GH deficiency.

4. The authors state that there were 18 patients who had adrenal insufficiency. How was adrenal insufficiency defined?

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

No
Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

No

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

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Acceptable

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