Reviewer's report

Title: Recurrent tertiary hyperparathyroidism due to supernumerary parathyroid glands in a patient receiving long-term hemodialysis: A Case Report

Version: 0 Date: 22 Nov 2018

Reviewer: Thomas Oates

Reviewer's report:

This manuscript describes a case of ectopic retrosternal parathyroid tissue mediating tertiary hyperparathyroidism in a haemodialysis patient. The case is of interest to both endocrinologists and nephrologists and forms a useful lesson for clinical practice.

Points that need to be addressed prior to publication are:

1) The relevant imaging abnormalities in Figure 1B should be indicated by arrows or similar

2) There is no mention of a MIBI scan being performed prior to the initial surgical resection. This should at least be referred to in the case report, and the potential implications of this omission discussed.

3) The discussion section (Pg 8 line 147-8) suggests that parathyroidectomy without autotransplantation is indicated for haemodialysis patients. This patient underwent transplantation of the right superior parathyroid gland at initial operation. Do the authors know the reason for this? Do they have any comment to make about the appropriateness of this autotransplantation in the initial operation?

4) The use of "chronic renal failure" is outdated and should be substituted with CKD throughout the manuscript.

5) Although hungry bone syndrome is referred to, it would be useful to state numerical values usually used in the diagnosis of this syndrome: CCa < 2.1mmol/l prolonged past the 4th post-operative day (see e.g. PMID 23152439)

Minor point: There are few errors in written English that could be corrected to make the manuscript easier to read.
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

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

Needs some language corrections before being published

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