

POSTER PRESENTATION



Pseudoaldosteronism due to mutation of SCNN1A gene: a case report

Can Thi Bich Ngoc^{1*}, Vu Chi Dung¹, Bui Phuong Thao¹, Nguyen Ngoc Khanh¹, Maria-Christina Zennaro², Stefan A Wudy³

From 8th APPES Biennial Scientific Meeting Darwin, Australia. 29 October – 1 November 2014

Introduction

Pseudohypoaldosteronism type 1 (PHA1) is a rare inherited disease characterized by resistance to the actions of aldosterone. It was first described in 1958 by Cheek and Perry, and common clinical manifestations include salt wasting, hyperkalaemia, metabolic acidosis and elevated plasma aldosterone levels in the neonatal period.

Objective

To describe clinical characteristics, laboratory features and management of one Vietnamese patient with pseudohypoaldosteron.

Subject and methods

Clinical features, biochemical finding, mutation analysis and management in a 1 months-old-boy was studied. Based on analysis of this patient's clinical symptoms associated with biochemical examination, the urinary steroid metabolomics analysis was performed using gas chromatography spectrometry and mutation analysis of SCNN1A was performed using PCR & direct sequencing.

Results

Patient is the first child normal delivery with the gestation age of 41 weeks, birth weight of 3200 g, and onset of the disease at 7 days of age. He presented with lost weight, dehydration without vomit, diarrhea or hyperpigmentation. He was admitted with the features of cyanosis, allorhythmic, electrolyte imbalance with sodium of 119 mmol/l, potassium of 7.4 mmol/l. Investigation show pH 7.26, PCO2 34 mmHg, PO2 110 mmHg, HCO⁻₃ 18mmol/l, BE -10, plasma 17OHP level: 2,4 ng/ml, testosterone level: 1.94 nmol/l, Cortisol 8am: 2662,8 pmol/l,



Written informed consent was obtained from the patient's parent or guardian for publication of this Case report (and any accompanying images). A copy of the written consent is available for review by the Editor-in-Chief of this journal.

Authors' details

¹Department of Endocrinology, Metabolism & Genetics; National Hospital of Pediatrics, Hanoi, Vietnam. ²Departement de Genetique; Hopital Europeen-Pompidou, Paris, France. ³Pediatric Endocrinology & Diabetology; Center of Child and Adolescent Medicine; Justus Liebig University, Giessen, Germany.

Published: 28 April 2015

doi:10.1186/1687-9856-2015-S1-P127 Cite this article as: Ngoc *et al.*: Pseudoaldosteronism due to mutation of SCNN1A gene: a case report. International Journal of Pediatric Endocrinology 2015 2015(Suppl 1):P127.



© 2015 Ngoc et al; licensee BioMed Central Ltd. This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited. The Creative Commons Public Domain Dedication waiver (http:// creativecommons.org/publicdomain/zero/1.0/) applies to the data made available in this article, unless otherwise stated.

¹Department of Endocrinology, Metabolism & Genetics; National Hospital of Pediatrics, Hanoi, Vietnam

Full list of author information is available at the end of the article