

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 58468

Manuscript Type: CASE REPORT

6
Congenital nephrogenic diabetes insipidus due to the mutation in AVPR2 (c.541C>T) in a neonate: A case report

Congenital nephrogenic diabetes insipidus in a neonate

Fatao Lin, Jing Li, Bangli Xu, Xiuxiu Yang, Fang Wang

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Objective: Congenital nephrogenic diabetes insipidus (CNDI) is a rare inherited disorder characterized by a renal insensitivity to arginine vasopressin (AVP). In the majority of the cases, CNDI is caused by mutations in the arginine vasopressin receptor 2 (AVPR2) gene. Our objective is to report a novel mutation in the AVPR2 gene causing CNDI in a 6-year-old boy, presenting with growth failure ...

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Congenital nephrogenic diabetes insipidus (NDI) is a rare inherited disorder, mostly caused by AVPR2 mutations. Less than 10% of cases are due to mutations in the aquaporin-2 (AQP2) gene. Diagnosis and management of this condition remain challenging especially during infancy. Here, we report two unr ...

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About 90 percent of all cases of hereditary nephrogenic diabetes insipidus result from mutations in the AVPR2 gene. To date, more than 250 mutations have been identified comprising missense, nonsense, small insertions and deletions, large deletions and complex rearrangements in AVPR2 gene.

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Publish Year: 2018

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1 INTRODUCTION. Congenital nephrogenic diabetes insipidus (NDI) is a rare disease that is characterized by the excretion of abnormally large volumes of urine, due to the inability of the kidneys to concentrate urine in response to arginine vasopressin (AVP) (Sasaki, 2004; Wesche, Deen, & Knoers, 2012). Patients with congenital NDI typically present in infancy with severe polyuria, polydipsia ...

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