

Pseudohypoaldosteronism

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Pseudohypoaldosteronism

(PHA) is a condition that mimics [hypoaldosteronism](#).^[1] However, the condition is due to a failure of *response* to [aldosterone](#), and levels of [aldosterone](#) are actually elevated, due to a lack of feedback inhibition.

This syndrome was first described by Cheek and Perry in 1958.^[2] Later pediatric endocrinologist Aaron Hanukoglu reported that there are two independent forms of PHA with different inheritance patterns: Renal form with autosomal dominant inheritance exhibiting salt loss mainly from the kidneys, and multi-system form with autosomal recessive form exhibiting salt loss from kidney, lung, and sweat and salivary glands.^[3]^[4]

Treatment of severe forms of PHA requires relatively large amounts of [sodium chloride](#).^[5] These conditions also involve [hyperkalemia](#).^[6]

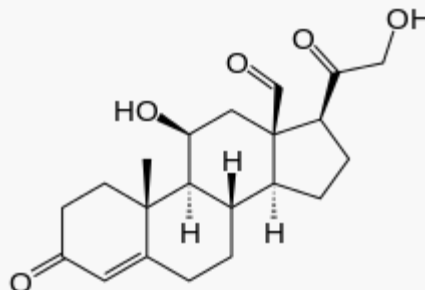
Types include:

Type	OMIM	Gene	Description
PHA1AD	177735	MLR	with sodium wasting
PHA1AR	264350	SCNN1A , SCNN1B , SCNN1G of the epithelial sodium channel	with sodium wasting
PHA2	145260	WNK4 , WNK1	without sodium wasting. TRPV6 may be involved. ^[7]

References

- ↑ "Pseudohypoaldosteronism: Overview - eMedicine Pediatrics: General Medicine" . Retrieved 2009-03-06.
- ↑ Boyle WA, Nerbonne JM (Apr 1991). "A novel type of depolarization-activated K⁺ current in isolated adult rat atrial myocytes" . *The American Journal of Physiology* **260** (4 Pt 2): H1236–47. doi:10.1136/adc.33.169.252 . PMC 2012226 . PMID 13545877 .
- ↑ Hanukoglu A (Nov 1991). "Type I pseudohypoaldosteronism includes two clinically and genetically distinct

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In pseudohypoaldosteronism, [aldosterone](#) is elevated ([hyperaldosteronism](#)), but because the body fails to respond to it, it appears similar to [hypoaldosteronism](#).

Classification and external resources

OMIM [177735](#) [614495](#) [614491](#) [614496](#) [614492](#) [145260](#) [264350](#) [177735](#) [614495](#) [614491](#) [614496](#) [614492](#) [145260](#)

DiseasesDB =

[\http://apps.who.int/classifications/icd10/browse/2016/en#/N25.8
[N25.8](#) .htm ICD10 = [N25.8](#)]

eMedicine [article/924100](#)

MeSH [D011546](#)

[[edit on Wikidata](#)]

entities with either renal or multiple target organ defects". *The Journal of Clinical Endocrinology and Metabolism* **73** (5): 936–44. doi:10.1210/jcem-73-5-936. PMID 1939532.

4. ^ Hanukoglu I, Hanukoglu A (Jan 2016). "Epithelial sodium channel (ENaC) family: Phylogeny, structure-function, tissue distribution, and associated inherited diseases.". *Gene* **579** (2): 95–132. doi:10.1016/j.gene.2015.12.061. PMID 26772908.
5. ^ Hanukoglu A, Hanukoglu I (2010). "Clinical improvement in patients with autosomal recessive pseudohypoaldosteronism and the necessity for salt supplementation.". *Clinical and Experimental Nephrology* **14** (5): 518–519. doi:10.1007/s10157-010-0326-8. PMID 20661616.
6. ^ [Pseudohypoaldosteronism](#) at the US National Library of Medicine [Medical Subject Headings](#) (MeSH)
7. ^ Yang SS, Hsu YJ, Chiga M, Rai T, Sasaki S, Uchida S, Lin SH (Apr 2010). "Mechanisms for hypercalciuria in pseudohypoaldosteronism type II-causing WNK4 knock-in mice". *Endocrinology* **151** (4): 1829–36. doi:10.1210/en.2009-0951. PMID 20181799.

External links [[edit](#)]

- [GeneReviews/NCBI/NIH/UW entry on Pseudohypoaldosteronism Type II](#)
- [Pseudohypoaldosteronism support page on Facebook](#)

See also [[edit](#)]

- [Hyperchloremic acidosis](#)
- [Pseudohyperaldosteronism](#)

V · T · E ·	Diseases of the endocrine system (E00–E35, 240–259)	[show]
V · T · E ·	Diseases of the urinary system (N00–N39, 580–599)	[show]
V · T · E ·	Genetic disorder, protein biosynthesis: Transcription factor/coregulator deficiencies	[show]
V · T · E ·	Diseases of ion channels	[show]
V · T · E ·	Deficiencies of intracellular signaling peptides and proteins	[show]

*This article about an endocrine, nutritional or metabolic disease is a **stub**. You can help Wikipedia by [expanding it](#).*

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