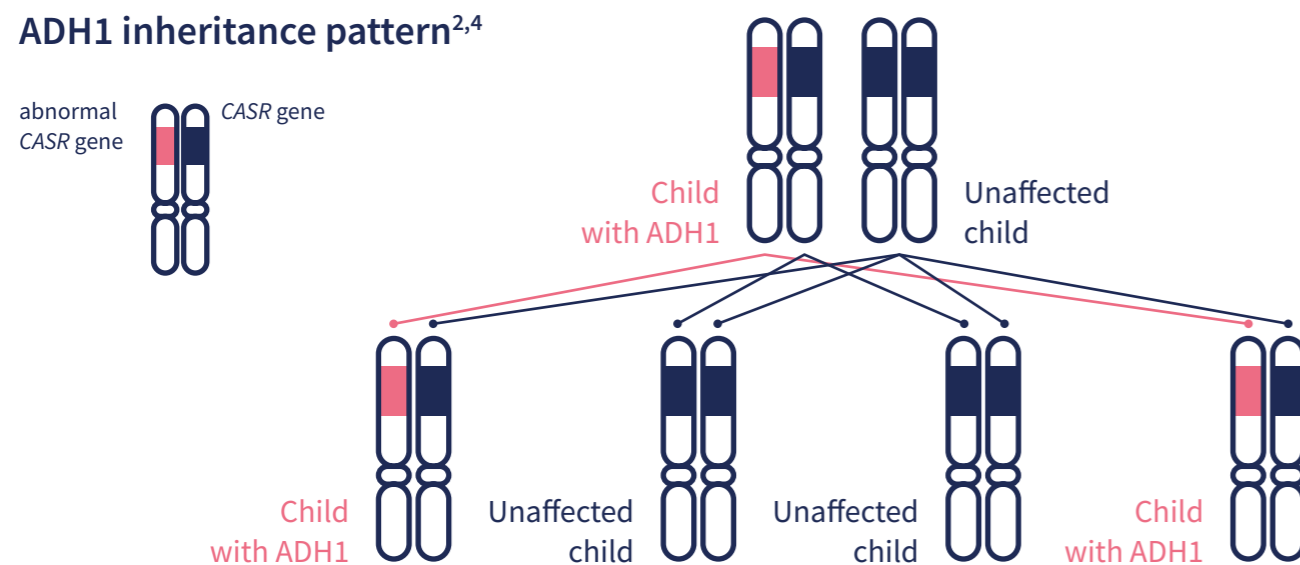


## Who gets or passes down ADH1?

ADH1 is inherited, or passed from one generation to the next, in an autosomal dominant pattern.<sup>2,4</sup> In an autosomal dominant inheritance pattern, one copy of the *CASR* gene with an abnormal change is enough to cause the condition.<sup>2</sup> In most cases, a person with ADH1 gets the abnormal *CASR* gene from one parent with ADH1.<sup>2</sup> Each child of someone with ADH1 has

a 50% chance of inheriting the abnormal gene for ADH1.<sup>9</sup> Some people do not inherit ADH1. Instead, ADH1 can be caused by a spontaneous change in the *CASR* gene. Thus, people can develop ADH1 with no history of the condition in their family.<sup>2</sup> If someone is diagnosed with ADH1, their parents also should be tested for the abnormal *CASR* gene.<sup>10</sup>

### ADH1 inheritance pattern<sup>2,4</sup>



Whether you're seeking more information, navigating diagnostic uncertainty, or wish to share a patient story, we invite you to get in touch.

**References:** 1. Roszko et al. *J Bone Miner Res.* 2022;37:1926–1935. 2. MedlinePlus. <https://medlineplus.gov/genetics/condition/autosomal-dominanthypocalcemia/>. Accessed July 24, 2023. 3. Cinque et al. *J Clin Endocrinol Metab.* 2017;102:3961–3969. 4. Mannstadt et al. Poster presented at: ENDO 2023; June 15-18, 2023; Chicago, IL, USA. 5. Mannstadt et al. *J Bone Miner Res.* 2022;37:2615–2629. 6. Rejnmark et al. *Endocrinol Metab (Seoul).* 2015;30:436–442. 7. MedlinePlus. <https://medlineplus.gov/genetics/gene/casr>. Accessed July 24, 2023. 8. Johns Hopkins Medicine. <https://www.hopkinsmedicine.org/research/understanding-clinical-trials/clinical-research-what-is-it.html>. Accessed July 24, 2023. 9. National Human Genome Research Institute. <https://www.genome.gov/genetics-glossary/Autosomal-Dominant-Disorder>. Updated March 4, 2026. Accessed March 4, 2026. 10. MedlinePlus. <https://medlineplus.gov/ency/article/002049.htm>. Accessed March 4, 2026.

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# About ADH1

## What is ADH1?

**ADH1**, or **Autosomal Dominant Hypocalcemia Type 1**, is a form of hypoparathyroidism. It is an **inherited, lifelong condition**; can be found in children and adults; and is rare, affecting approximately 1 in 25,000 individuals.<sup>1</sup>

## What are other names for ADH1?

- Autosomal dominant hypocalcemia (ADH)<sup>2,3</sup>
- Autosomal dominant hypoparathyroidism<sup>2</sup>
- Familial hypercalciuric hypocalcemia<sup>2</sup>
- Familial hypocalcemia<sup>2</sup>
- Familial isolated hypoparathyroidism<sup>3</sup>
- Idiopathic hypoparathyroidism<sup>4</sup>

## People with ADH1:<sup>2</sup>

- Will usually have low levels of calcium in the blood, known as hypocalcemia
- Have low levels of a hormone called parathyroid hormone, which helps control the amount of calcium in the blood
- Can have high levels of calcium in their urine, known as hypercalciuria, which can lead to calcium building up in the kidneys or the formation of kidney stones
- May also have the wrong amount of other important minerals in their body, such as too much phosphate or too little magnesium

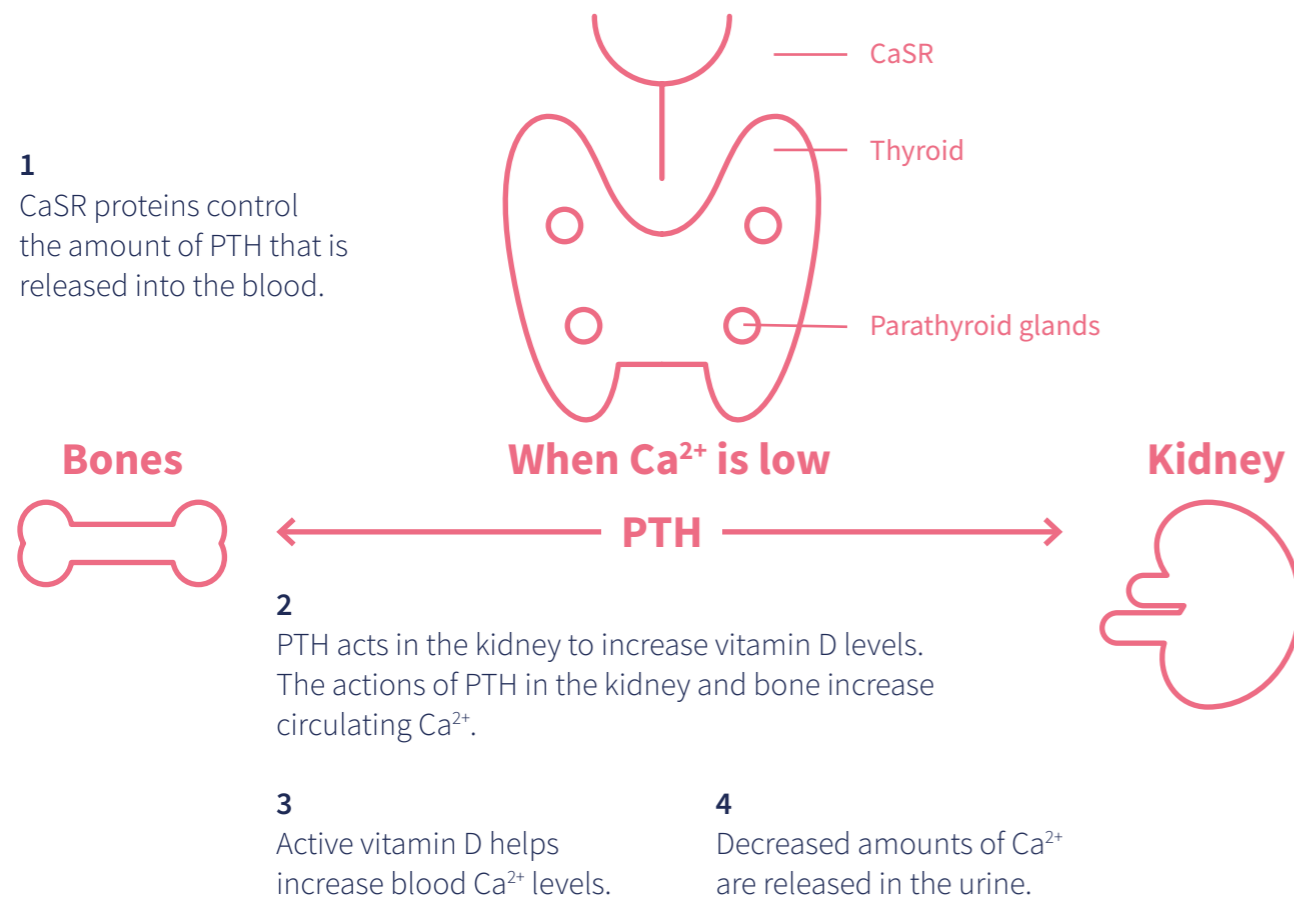
## What causes ADH1?

ADH1 is caused by an abnormal change in the Calcium-Sensing Receptor (*CASR*) gene. The proteins made from this gene normally work together to detect and control the amount of calcium in the blood. In patients with ADH1, the proteins made from the abnormal *CASR* gene are more sensitive to calcium and do not work as well to control calcium levels, even when levels in the blood are low.<sup>2</sup> There are other abnormal genes that can cause forms of hypoparathyroidism similar to ADH1, but changes in the *CASR* gene are one of the most common.<sup>5</sup>

## What are the symptoms of ADH1?

The symptoms of ADH1 may be **different from person to person** and may affect children and adults differently. Symptoms can appear at any age and may change over time.<sup>4,6</sup> One of the most common symptoms of ADH1 is sudden, strong muscle tightening, known as **muscle spasms**, in the hands and feet.<sup>2,4</sup> Sensations of **muscle cramping; prickling or tingling**, known as paresthesia; or twitching of the nerves and muscles in various parts of the body are also common.<sup>2,4</sup> People with serious ADH1 may develop short periods of uncontrolled movements, known as **seizures**, usually in infancy or childhood.<sup>2,4</sup>

## How is CaSR involved in controlling calcium levels?



## Most common symptoms of ADH1

Brief or sudden symptoms of ADH1:<sup>4,7,8</sup>

### Symptoms affecting the brain and muscles:

- Seizures
- Intermittent muscular spasms, known as tetany
- Paresthesia
- Muscle cramps/spasms
- Pain in bones or where bones connect, known as joints
- Feeling tired all over, known as fatigue

### Symptoms affecting a person's thoughts:

- Fear or worry, known as anxiety
- Problems with thinking, remembering, or concentrating, known as brain fog

Long-term potential consequences of ADH1:<sup>2,4,7,8</sup>

### Affecting the kidneys:

- Kidney stones
- Too much calcium in the kidneys
- Damaged kidneys that can't properly filter blood, known as chronic kidney disease

### Affecting other parts of the body:

- A buildup of calcium on important regions of the brain
- Breaks in bones, known as bone fractures
- Feeling sad or hopeless and having little interest in activities, known as depression
- Heart beating too fast or too slow, known as arrhythmia