

# BRISSAUD'S INFANTILISM

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## BRISSAUD'S INFANTILISM

**Primary Disciplinary Field(s):** Endocrinology, Pediatrics, Developmental Medicine

### 1. Core Definition

**Brissaud's Infantilism** is a historical medical designation referring to a severe developmental disorder caused by acquired, profound hypothyroidism (underactivity of the thyroid gland) that begins during early childhood, post-natally. This condition is characterized by a significant and prolonged inhibition of both physical growth and cognitive development, resulting in failure to progress past the prepubescent stage, often leading to a form of proportionate dwarfism and intellectual impairment.

The syndrome represents the extreme clinical manifestation of untreated juvenile hypothyroidism, specifically distinguishing it from congenital hypothyroidism (cretinism), which arises *in utero* or immediately after birth. In Brissaud's Infantilism, the thyroid deficiency is often acquired in infancy or early childhood, allowing for relatively normal initial development before the hormonal deficit begins to exert its deleterious effects on somatic and neurological maturation. The alternative, non-eponymous term for this condition is **infantile myxedema**, highlighting one of its key symptomatic features.

### 2. Etymology and Historical Development

The term is an eponym honoring the French neurologist and physician, Edouard Brissaud (1852-1909), who published seminal clinical descriptions of the syndrome toward the close of the 19th century. Brissaud's observations were crucial in refining the classification of developmental disorders linked to endocrine dysfunction.

Prior to his work, various forms of developmental arrest were often grouped without clear differentiation between pituitary, genetic, or glandular etiologies. Brissaud's contribution helped isolate the specific presentation caused by post-natal thyroid failure, thereby solidifying the understanding that the timing of the hormonal deficit significantly dictates the resulting pathology. This historical context placed Brissaud's Infantilism within the evolving field of endocrinology, which was rapidly identifying specific hormones responsible for regulating growth, metabolism, and maturation.

### 3. Key Characteristics

The clinical presentation of Brissaud's Infantilism encompasses a cluster of symptoms derived directly from systemic metabolic slowdown and impaired tissue development due to lack of thyroxine. These characteristics distinguish it profoundly from other forms of developmental delay.

**Growth Retardation:** The most conspicuous feature is severe linear growth failure, resulting in a proportionate dwarfism where skeletal maturation is significantly delayed. Crucially, the patient fails to undergo the typical growth spurt associated with adolescence and does not achieve sexual maturity (infantilism).

**Myxedema:** The term "infantile myxedema" emphasizes the frequent presence of myxedema, a specific pathological edema caused by the deposition of hydrophilic mucopolysaccharides in the skin and subcutaneous tissues. Clinically, this manifests as a dry, waxy, non-pitting swelling, particularly notable in the facial region, around the eyes, nose, and lips, giving the face a characteristic puffy, coarse appearance.

**Cognitive Impairment:** Untreated, the sustained lack of thyroid hormone during crucial periods of brain development leads to significant delays in mental function and intellectual development. The severity of intellectual disability is highly correlated with the age of onset and the duration of the untreated hormonal deficiency.

**Metabolic Dysfunction:** Patients exhibit classical symptoms of hypothyroidism, including generalized sluggishness, lethargy, reduced appetite despite weight gain, constipation, low body temperature, cold intolerance, and a slow heart rate (bradycardia), reflecting the severely depressed basal metabolic rate.

#### 4. Significance and Impact

The recognition of Brissaud's Infantilism was historically pivotal because it underscored the critical necessity of thyroid hormone for post-natal growth and neurological integrity. Unlike congenital hypothyroidism, where damage is often unavoidable without immediate treatment, the acquired nature of Brissaud's type offered a clearer therapeutic target and highlighted the potential for intervention.

In modern medicine, the syndrome serves as a severe benchmark illustrating the damaging consequences of delayed diagnosis in childhood endocrine disorders. The clinical awareness generated by the initial descriptions of Brissaud and others ultimately paved the way for systematic screening protocols. Today, routine neonatal screening for hypothyroidism is standard practice worldwide, drastically reducing the incidence of severe acquired juvenile hypothyroidism and preventing the manifestation of the full Brissaud's phenotype.

#### 5. Debates and Criticisms

While historically important, the diagnostic term **Brissaud's Infantilism** is considered largely obsolete in contemporary clinical endocrinology. Modern diagnostic taxonomy favors an etiological approach, classifying the condition not merely by its appearance (infantilism), but by the underlying cause of the thyroid failure (e.g., juvenile Hashimoto's thyroiditis, specific iodine deficiency, or central/pituitary causes).

The term persists primarily in historical medical literature to describe the classic, severe clinical presentation of untreated juvenile hypothyroidism. However, modern treatment protocols--which involve prompt and sustained thyroid hormone replacement therapy, typically with levothyroxine--ensure that new cases presenting with the complete, extreme picture of Brissaud's Infantilism are exceedingly rare in developed healthcare systems, turning the syndrome into a topic of historical study rather than a current primary diagnosis.

### Further Reading

[Hypothyroidism - Wikipedia](#)

[Édouard Brissaud - Wikipedia](#)

[Levothyroxine - Wikipedia](#)

[Neonatal screening - Wikipedia](#)

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