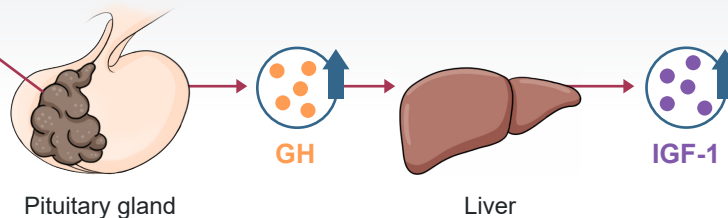


Recognizing the Diverse Manifestations of Acromegaly

Cause of acromegaly:

95% of cases caused by chronic hypersecretion of growth hormone (GH) from a pituitary adenoma, which leads to increased insulin-like growth factor 1 (IGF-1) levels¹



Epidemiology:

Women and men equally affected² ♀ ♂

Incidence
2–11
cases per million per year²

Prevalence
28–137
cases per million²

Patients with acromegaly exhibit diverse clinical manifestations³

- Carpal tunnel syndrome⁴
- Colorectal cancer⁵
- Enlarged feet³
- Enlarged hands³
- Fatigue³
- Frontal bossing, prognathism, enlarged nose, lips, tongue^{3,6}
- Headache^{3,4}
- Hypertension⁴
- Joint pain⁴
- Metabolic disorders, including type 2 diabetes⁴
- Sexual dysfunction³
- Sleep apnea and respiratory disease^{3,4}
- Stroke⁷



Changes in facial features occur slowly, making them easy to miss

This broad range of manifestations⁸ and similarity to common conditions,³ makes diagnosis challenging and can lead to a mean delay in diagnosis of ~10–11 years⁹

Patients often don't feel like themselves and notice changes in their physical features, prompting them to seek medical attention⁸

Patients may visit different medical specialists before diagnosis³

Average number of physicians consulted before diagnosis¹⁰ **3.4**



Gradual physical changes⁶ and slow development of clinical signs³

A patient reporting changes in shoe or ring size, fatigue, and sleep apnea, could be indicative of acromegaly.⁸

Prolonged exposure to excess GH and IGF-1 is associated with significant co-morbidity, increased mortality and impaired health-related quality of life¹¹

Mortality in uncontrolled acromegaly is **2x** higher than the general population⁵



Normalizing GH and IGF-1 levels is associated with reduced mortality¹²



Early diagnosis and treatment can prevent many irreversible comorbidities,¹³ but when left untreated acromegaly may lead to premature death¹⁴

To reduce comorbidities and mortality associated with acromegaly, early diagnosis and prompt treatment are needed.⁴

GH, growth hormone; IGF-1, insulin-like growth factor.

1. Katznelson L et al. *J Clin Endocrinol Metab.* 2014;99:3933-3951. 2. Lavrentaki A et al. *Pituitary.* 2017;20:4-9. 3. Caron P et al. *Endocrine.* 2019;63:120-129. 4. Ershadinia N, Tritos NA. *Mayo Clin Proc.* 2022;97(2):333-346. 5. Bolfi F et al. *Eur J Endocrinol.* 2018;179:59-71. 6. Boguszewski CL. *Eur J Endocrinol.* 2020;183(1):C1-C4. 7. Osorio RC et al. *Front Endocrinol (Lausanne).* 2022;13:1064216. 8. Colao A et al. *Nat Rev Dis Primers.* 2019;5(1):20. 9. Zahr R, Fleseriu M. *Eur Endocrinol.* 2018;14(2):57-61. 10. Kreitschmann-Andermahr I et al. *Pituitary.* 2016;19(3):268-276. 11. Chiloiro S et al. *Pituitary.* 2022;25(6):831-841. 12. Melmed S et al. *Nat Rev Endocrinol.* 2018;14(9):552-561. 13. Celik D et al. *Pak J Med Sci.* 2021;37(4):1161-1165. 14. Albarel F et al. *J Endocr Soc.* 2022;6(9):bvac114.