

Hyperprolactinemia

- [Endocrine manifestations of lung adenocarcinoma with epidermal growth factor receptor mutation mimicking tuberculosis: A case report and literature review](#)
- [Baseline testosterone levels as a predictor of hypogonadism resolution in male patients with isolated hyperprolactinemia](#)
- [Pituitary Dysfunction Following Mild Traumatic Brain Injury in Female Athletes: Neuropsychological and Psychological Findings](#)
- [High Prolactin and Anemia as Factors in Female Infertility: A Cross-Sectional Study in Infertile Women of Balochistan, Pakistan](#)
- [Hyperprolactinemia caused by extra-pituitary prolactin secretion: a systematic review](#)
- [Cabergoline counteracts adipose and skeletal muscle lipid accumulation: A novel therapeutic approach to obesity?](#)
- [Bromocriptine in Rheumatic Diseases: A Review](#)
- [The hormonal regulation of men's sexual desire, arousal, and penile erection: recommendations from the fifth international consultation on sexual medicine \(ICSM 2024\)](#)

Hyperprolactinaemia or hyperprolactinemia (HP) is the presence of abnormally high levels of [prolactin](#) in the blood. Normal levels are less than 500 mIU/L [20 ng/mL or µg/L] for women, and less than 450 mIU/L for men.

Etiology

[Hyperprolactinemia Etiology](#)

Clinical Features

see [Lactotroph adenoma clinical features](#).

Differential diagnosis

1. pregnancy-related

a) during pregnancy: 10–400 ng/ml

b) postpartum: PRL decreases ≈ 50% (to ≈ 100 ng/ml) in the first week postpartum, and is usually back to normal in 3 weeks

c) in the lactating female: suckling increases PRL, which is critical for lactogenesis (once initiated, nonpregnant PRL levels can maintain lactation).

First 2–3 months postpartum: basal PRL = 40–50 ng/ml, suckling → increases × 10–20. 3–6 months postpartum: basal PRL levels become normal or slightly elevated, and double with suckling. PRL should normalize by 6 months after weaning

2. pituitary neuroendocrine tumor

a) prolactinoma: larger prolactin microadenomas and macroadenomas usually produce PRL > 100 ng/ml

b) stalk effect (p. 753): rule of thumb, the percent chance of an elevated PRL being due to a prolactinoma is equal to one half the PRL level

c) some tumors secrete both PRL and GH

3. drugs: dopamine receptor antagonists (e.g. phenothiazines, metoclopramide), oral contraceptives (estrogens), tricyclic antidepressants, verapamil, H2 antagonists (e.g. ranitidine), some SSRIs, in particular paroxetine (Paxil®)

4. primary hypothyroidism: TRH, a prolactin releasing factor (PRF) (p. 165), will be elevated

5. empty sella syndrome

6. transient elevations in human serum prolactin (HSP) levels occur following 80% of generalized motor, 45% of complex partial, and only 15% of simple partial seizures.¹⁶ Peak levels are reached in 15–20 minutes, and gradually return to baseline over the subsequent hour.

7. breast or chest-wall trauma/surgery: usually $\leq$ 50 ng/ml

8. excessive exercise: usually $\leq$ 50 ng/ml

9. stress: in some cases the stress of having the blood test is enough to elevate PRL, anorexia nervosa

10. ectopic secretion: reported in renal cell or hepatocellular tumors, uterine fibroids, lymphomas

11. infiltrating hypothalamic tumors

12. renal failure

13. cirrhosis

14. macroprolactinemia:

Treatment

[Hyperprolactinemia treatment.](#)

Complications

Hyperprolactinemia (HPRL) and [polycystic ovary syndrome](#) (PCOS) are common causes of [infertility](#) in women of reproductive age.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

<https://neurosurgerywiki.com/wiki/doku.php?id=hyperprolactinemia>

Last update: **2024/06/07 02:55**

