

BENIGN PROSTATIC HYPERTROPHY (BPH) AND TREATMENT



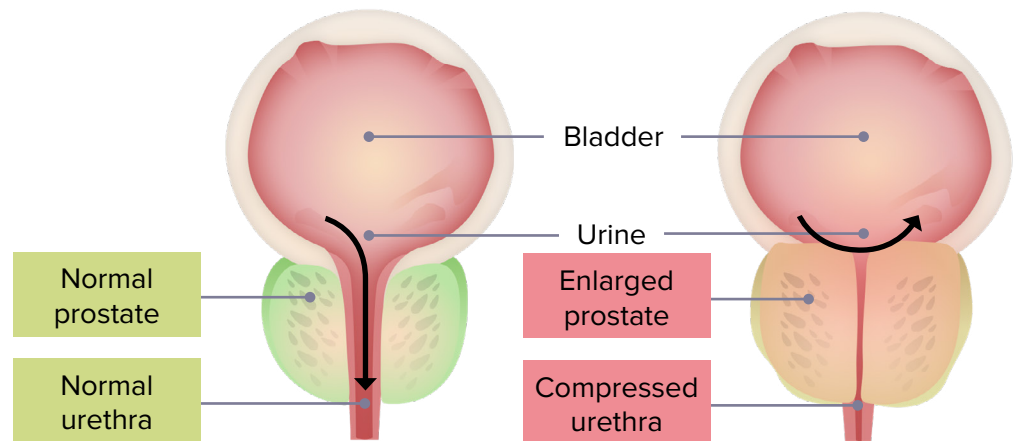
Benign prostatic hypertrophy (BPH) is the nonmalignant growth of prostate tissue. BPH increases in prevalence with age, affecting 50%–60% of men in their 60s and 70%–80% of men in their 80s.

Other risk factors for BPH include:

- Genetic predisposition
- Metabolic syndromes
- Hypertension
- Obesity

Common symptoms:

- Difficulty starting, stopping, maintaining urine stream
- Difficulty emptying bladder
- Urgency, frequency, nocturia



Prostate enlargement leads to bladder outlet obstruction, with both static and dynamic components:

Static/mechanical	Dynamic
<ul style="list-style-type: none"> • Enlarged prostate tissue compresses urethra. • Distortion of bladder outlet 	<ul style="list-style-type: none"> • Increased tension in prostate smooth muscle • Decreased elasticity in prostatic urethra

Pharmacologic Management

5- α -reductase inhibitors	α -1 adrenergic antagonists
Drug names: finasteride or dutasteride	Drug name: tamsulosin
<ul style="list-style-type: none"> • Shrinks prostate epithelial tissue • Best for mechanical obstruction 	<ul style="list-style-type: none"> • Relaxes smooth muscle in the prostate—prostate capsule, urethra, bladder neck (trigone & sphincter) • Helps with dynamic obstruction

Treatment is most effective when both classes of medication are used in combination therapy.

Other Treatment Options

- Transurethral resection (TURP)
- Prostatectomy
- Laser anucleation (HoLEP)
- Urolift

Client Education

Reducing caffeine and strategic timing of fluid intake may help manage urinary symptoms.

A-1 adrenergic antagonists have first-dose effect, which may decrease blood pressure during first 8 weeks of therapy (should be taken at bedtime during this period).

NOTES

