

NGN NCLEX 2026 · STUDY CARD

Benign Prostatic Hyperplasia (BPH)

Non-cancerous enlargement of the prostate gland that compresses the urethra, producing lower urinary tract symptoms (LUTS). High-yield topic for pharmacology, prioritization, and post-operative TURP care.

 System: Genitourinary

 Pharm-heavy

 Post-op focus (TURP)

 NCJMM Integrated

1 Definition & Overview

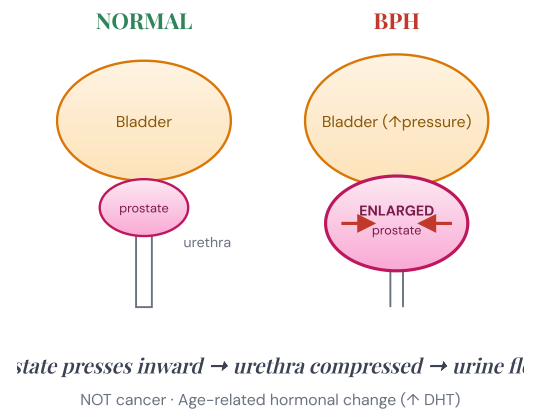
- **Non-cancerous** (benign) hyperplasia of prostate gland cells → gland enlarges inward, compressing the urethra.
- Result: **bladder outlet obstruction** → LUTS, urinary retention, and ↑ risk of UTI / hydronephrosis / renal damage.
- BPH is **NOT** prostate cancer, but both can coexist. Screening still matters.

50+

TYPICAL AGE OF ONSET

~90%

MEN BY AGE 80 AFFECTED



2 Pathophysiology (Simplified)

1



Aging + hormonal shifts (↑ DHT)

2



Prostate cells hyperplasia → gland enlarges

3



Urethra compressed → bladder outlet obstruction

4



Bladder works harder → hypertrophy, residual urine

5



Retention → UTI, stones, hydronephrosis, AKI

3

Signs & Symptoms

OBSTRUCTIVE (Voiding)

Weak, dribbling stream

Hesitancy — hard to start

Straining to void

Incomplete emptying

Post-void dribbling

Intermittent stream (stops & starts)

IRRITATIVE (Storage)

Frequency (bladder never empties)

Urgency

Nocturia — up multiple times at night

Dysuria (if UTI develops)

Urge incontinence

RED FLAGS

Acute urinary retention

EMERGENCY

Gross hematuria with clots

Recurrent UTI / fever / flank pain

Bladder distension — suprapubic mass/pain

Hydronephrosis / ↑ BUN / creatinine

Overflow incontinence (leak from full bladder)

4

Priority Nursing Interventions

NCLEX
PRIORITY

Safety & bladder decompression first — acute retention is a urologic emergency. Use bladder scan, catheterize as ordered.

Assessment & Monitoring

Assess voiding pattern: frequency, stream, hesitancy, nocturia.

Actions

Catheterize for acute retention (may need coude tip — straight tip often fails with enlarged prostate).

Monitor I & O — track output vs intake; watch for < 30 mL/hr.

Bladder scan for post-void residual (PVR). >100 mL = concerning.

Palpate suprapubic area for distension; assess for pain.

Monitor BUN, creatinine, PSA (rule out cancer; PSA may also ↑ in BPH).

Drain bladder slowly — clamp after 1000 mL → wait → release to avoid vasovagal response / bleeding.

Administer meds (alpha blockers at bedtime — orthostatic risk).

Encourage scheduled voiding, double voiding technique.

Prepare/educate for procedures (TURP, laser, TUMT, open prostatectomy).

POST-OP TURP

Continuous Bladder Irrigation (CBI) — Key Points

EXPECTED DRAINAGE

Light pink / rosé. Titrate CBI rate fast enough to keep urine light pink & free of clots.

⚠ BRIGHT RED + CLOTS = HEMORRHAGE

Notify HCP immediately. Increase CBI, assess VS.
Do NOT take catheter out.

💧 IRRIGATION FLUID

0.9% Normal Saline ONLY (never sterile water — causes hemolysis & TURP syndrome).

🧠 TURP SYNDROME

Dilutional hyponatremia from absorbed hypotonic irrigant → confusion, HTN, bradycardia, seizures. Report immediately.

🔧 I & O

True output = total output – CBI amount infused.
Document separately.

🚫 AVOID

Straining, rectal temps/enemas/suppositories, anticoagulants — all ↑ bleeding risk.

5 Pharmacology

Alpha-1 Adrenergic Blockers

RELAX SMOOTH MUSCLE · FAST RELIEF

EXAMPLES

Tamsulosin (Flomax),
Terazosin, Doxazosin, Alfuzosin,
Silodosin

MECHANISM

Relax smooth muscle in prostate & bladder neck → easier urine flow. Works in days.

SIDE EFFECTS

Orthostatic hypotension, dizziness, "first-dose" syncope, retrograde ejaculation, nasal congestion

NURSING

Give at **bedtime**. Rise slowly. Fall precautions. Monitor BP. Caution w/ PDE-5 inhibitors (additive hypotension).

5-Alpha Reductase Inhibitors

SHRINK THE PROSTATE · SLOW ONSET

EXAMPLES

MECHANISM

SIDE EFFECTS

NURSING

Finasteride (Proscar),
Dutasteride (Avodart)

Block conversion of
testosterone → DHT →
prostate actually **shrinks**.
Takes **3–6 months**.

↓ libido, ED, ↓ ejaculate
volume, gynecomastia. **Lowers
PSA by ~50%** (factor into
cancer screening).

⚠️ TERATOGENIC. Pregnant
women must **NOT** touch
crushed/broken tablets or
handle semen of patient. Wear
gloves. Adherence essential —
effects reverse if stopped.

PDE-5 Inhibitors

DUAL BPH + ED · LOW-DOSE DAILY

EXAMPLE

Tadalafil (Cialis) — approved
for BPH

MECHANISM

Relaxes smooth muscle in
prostate/bladder neck via
cGMP pathway.

SIDE EFFECTS

Headache, flushing, back pain,
dyspepsia, priapism (>4h = ER)

NURSING

⚠️ NEVER with nitrates —
life-threatening hypotension.
Caution w/ alpha blockers.

⚠️ Drugs to AVOID in BPH (worsen retention)

- **Anticholinergics** — oxybutynin, diphenhydramine (Benadryl), TCAs, atropine
- **Decongestants** — pseudoephedrine, phenylephrine (constrict bladder neck)
- **Antihistamines (1st gen)** — Benadryl, hydroxyzine
- **Opioids** — can cause urinary retention

6 NCLEX Test Traps ⚠️

TRAP 1

BPH ≠ Prostate Cancer

Both cause urinary symptoms & ↑ PSA. **Symptoms alone can't distinguish them.** Diagnosis requires biopsy. Finasteride artificially lowers PSA by ~50%.

TRAP 2

First-Dose Syncope (Tamsulosin)

Students forget **orthostatic hypotension = a safety issue**. Always answer: give at bedtime, rise slowly, fall precautions. This beats "monitor urine output."

TRAP 3

CBI: Bright Red + Clots

✗ Students stop the irrigation. **✓** Correct: **increase CBI rate**, assess VS, notify HCP. Stopping lets clots form and occlude.

TRAP 4

Finasteride + Pregnancy

Teratogenic to male fetus. **Pregnant women must NOT handle** broken tablets. Patient must also use condoms during intercourse — key education point.

TRAP 5

Post-TURP: Rectal Temps FORBIDDEN

No rectal temps, enemas, or suppositories after prostate surgery — risk of hemorrhage. Students often miss this on "safe delegation" questions.

TRAP 6

TURP Syndrome ≠ Infection

Confusion + HTN + bradycardia + nausea after TURP = **dilutional hyponatremia** from absorbed irrigant. Check sodium — not antibiotics.

TRAP 7

Clamping Retention Catheter

On acute retention with huge bladder volume → drain slowly in increments. Emptying all at once = hypotension, hematuria, vasovagal.

TRAP 8

Cold & Allergy Meds

OTC cough/cold products contain decongestants + antihistamines — both cause urinary retention. Patient must read labels.

7 Patient Education



Void on schedule (every 2–3 hrs); try double-voiding to empty bladder fully.



Limit fluids after dinner to reduce nocturia; still drink 1.5–2 L total/day unless restricted.



Avoid caffeine & alcohol — both irritate bladder and worsen urgency/frequency.



Read OTC labels — avoid decongestants (pseudoephedrine) and antihistamines (Benadryl).



Take tamsulosin at bedtime; rise slowly to prevent orthostatic syncope and falls.



Finasteride takes 3–6 months to work; don't stop just because symptoms linger.



Pregnant partners must not touch crushed Finasteride; use condoms during therapy.



Stay active; prolonged sitting, cold, and stress can trigger acute retention.



Go to ER if unable to urinate, severe pain, fever, or blood with clots in urine.



Annual follow-up — DRE, PSA, symptom score (IPSS) to track progression.

8 Memory Boosters

LUTS MNEMONIC

FUN WISE

F

Frequency

U

Urgency

N

Nocturia

W

Weak stream

I

Incomplete empty

S

Straining

E

dribble / hesitancy

DRUG-CLASS HOOK

**"—OSIN
relaxes"
"—IDE
shrinks"**

Drugs ending in **—osin** (tamsulosin, doxazosin) → alpha blockers, **relax** prostate smooth muscle (fast).

Drugs ending in **—ide** (finasteride,

dutasteride) → 5-alpha reductase inhibitors, **shrink** the gland (slow, 3–6 mo).

🎯 Pattern-Recognition Cheats

- **Flomax = Flow Max** — opens the flow (alpha blocker).
- **"Rise slow, or you'll blow"** — remember orthostatic drop with alpha blockers.
- **Pink = Think** (good), **Red = Dread** (hemorrhage) for CBI urine color.
- **TURP → No NO's**: No rectal thermometer, No enemas, No straining.
- **TURP Syndrome = "Water intoxication of the OR"** — think dilutional Na^+ ↓.
- **Finasteride = Fin + side**: it cuts DHT (like a fin slicing) — and must be kept far from pregnant women.

9 NCJMM Clinical Judgment Framework

1

Recognize Cues

Weak stream, nocturia, distended bladder, ↑ PSA, ↑ residual on scan.

2

Analyze Cues

Obstructive vs irritative LUTS. Rule out retention, UTI, AKI. Consider cancer.

3

Prioritize Hypotheses

Acute retention → emergency. Chronic LUTS → med mgmt. Post-op TURP → bleeding/TURP syndrome.

4

Generate Solutions

Catheterize, bladder scan, alpha blocker, 5-ARI, CBI protocol, education on OTCs.

5

Take Action

Decompress bladder (slow), give meds at right time, monitor CBI color & Na^+ , fall precautions.

6

Evaluate Outcomes

Urine output restored, clear/pink urine, Na^+ WNL, IPSS score ↓, no falls, patient verbalizes teaching.



NGN NCLEX 2026 Study Card — Benign Prostatic Hyperplasia

Aligned with the NCSBN Clinical Judgment Measurement Model • For nursing education use