

Progestin Contraceptives

PILLS · INJECTION · IMPLANT · IUD · EMERGENCY

NCLEX-RN 2026

PHARMACOLOGY · MATERNITY



Definition & Overview

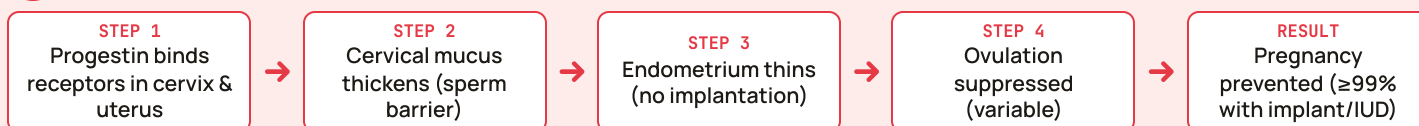
01 / OVERVIEW

- ▶ **Progestin-only contraceptives (POCs)** use synthetic progesterone to prevent pregnancy **without estrogen** — making them safer for clients in whom estrogen is contraindicated.
- ▶ **Five delivery forms:** oral mini-pill (POP), IM/SQ injection (Depo-Provera), subdermal implant (Nexplanon), levonorgestrel IUD (Mirena, Kyleena, Liletta, Skyla), and emergency contraception (Plan B).
- ▶ **Ideal candidates:** breastfeeding mothers, women >35 who smoke, history of DVT/PE, hypertension, migraine with aura, estrogen-sensitive cancers, or post-partum <6 weeks.



Pathophysiology / Mechanism

02 / MOA



Key concept: Higher-dose methods (Depo, Nexplanon) reliably suppress ovulation. The mini-pill (POP) primarily works by mucus thickening — which is why **timing within 3 hours daily is critical**.



Side Effects & Warning Signs

03 / S&S

COMMON · EXPECTED

- ▶ **Irregular bleeding / spotting** (most common — esp. first 3–6 months)
- ▶ Amenorrhea (50% Depo users at 1 year)
- ▶ Weight gain (esp. Depo-Provera)
- ▶ Mood changes, depression, decreased libido
- ▶ Headache, breast tenderness, acne
- ▶ Nausea, bloating, fatigue



RED FLAGS · REPORT NOW

- ▶ **Severe one-sided abdominal pain** → ectopic pregnancy
- ▶ **Heavy/prolonged bleeding** with dizziness
- ▶ Calf pain, swelling, chest pain, SOB → DVT/PE
- ▶ Severe headache, vision changes, hemiparesis → stroke
- ▶ Worsening depression / suicidal ideation
- ▶ IUD: missing strings, pelvic pain, fever, foul discharge

● FDA BLACK BOX WARNING — DEPO-PROVERA

Prolonged use causes **significant loss of bone mineral density**. Reassess need after 2 years; encourage calcium 1,200 mg + Vitamin D 400–800 IU daily and weight-bearing exercise.



Priority Nursing Interventions

04 / NURSING

- ▶ **Assess pregnancy status** before initiating any method (urine hCG).
- ▶ **Screen for contraindications:** active breast cancer, undiagnosed vaginal bleeding, severe liver disease, current DVT/PE, pregnancy.
- ▶ **Take POP at the SAME time daily** — within a 3-hour window. If late >3 hr: take ASAP + use backup × 48 hr.
- ▶ **Depo-Provera:** administer deep IM (gluteal/deltoid) or SQ q11–13 weeks; **do not massage** the site.
- ▶ **Nexplanon:** insert subdermal in non-dominant arm during menses or first 5 days of cycle; verify by palpation.
- ▶ **IUD:** teach client to **check strings monthly** after menses; assess for expulsion or perforation.
- ▶ **Plan B:** most effective <72 hr (works up to 120 hr but efficacy ↓); does NOT terminate established pregnancy.
- ▶ Monitor BP, weight, mood at follow-up; reinforce **condom use for STI protection**.



Pharmacology — The Five Methods

05 / PHARM

Norethindrone **PO DAILY**

CLASS: Progestin-only pill (POP / mini-pill)

MOA: Thickens cervical mucus; thins endometrium

KEY SE: Irregular spotting, breast tenderness

NURSING: 🕒 **SAME time q24h within 3-hr window.** If late: backup × 48 hr. Safe in lactation.

Medroxyprogesterone **IM / SQ**

BRAND: Depo-Provera (DMPA)

MOA: Suppresses ovulation; thickens mucus

KEY SE: 🕒 Bone density loss, weight gain, delayed return to fertility (up to 10 mo)

NURSING: q11–13 weeks; deep IM (no massage); Ca²⁺ + Vit D supplementation; reassess use after 2 yr.

Etonogestrel Implant **SUBDERMAL**

BRAND: Nexplanon

MOA: Suppresses ovulation; thickens mucus

KEY SE: Irregular bleeding, weight gain, mood changes

NURSING: Inserted upper inner non-dominant arm; effective **3 years**; palpate to confirm.

Levonorgestrel IUD **INTRAUTERINE**

BRANDS: Mirena (8 yr) · Liletta (8 yr) · Kyleena (5 yr) · Skyla (3 yr)

MOA: Local progestin → thickens mucus, thins endometrium

KEY SE: Cramping, spotting, expulsion (2–10%), perforation risk (rare)

NURSING: Check strings monthly; report PAINS warning signs.

Levonorgestrel **PO × 1**

BRAND: Plan B One-Step (emergency contraception)

MOA: Delays/inhibits ovulation if taken pre-ovulation

KEY SE: Nausea, fatigue, menstrual changes

NURSING: Most effective <72 hr (up to 120 hr); OTC; does **NOT** abort an established pregnancy.

Ulipristal Acetate **PO Rx**

BRAND: Ella (SPRM — progestin-receptor modulator)

MOA: Delays ovulation; effective up to 120 hr

KEY SE: Headache, nausea, abdominal pain

NURSING: Prescription only; more effective than Plan B in obese clients (BMI >30).



NCLEX Test Traps & Distractors

06 / TRAPS

"POP can be taken within 12 hours"

✓ **POP window is 3 HOURS** — not 12 like combined OCs. After 3 hr → use backup × 48 hr.

"Depo causes permanent infertility"

✓ **Return to fertility is DELAYED** — average 10 months after last injection. Not permanent.

"Plan B causes abortion"

✓ **Plan B prevents/delays OVULATION.** It does NOT terminate an established pregnancy.

"Estrogen is OK while breastfeeding"

✓ **Estrogen ↓ milk supply.** Choose progestin-only methods in lactating clients.

"Massage Depo site to absorb faster"

✓ **Do NOT massage** after Depo IM/SQ — alters absorption rate.

"IUD strings should not be felt"

✓ **Strings SHOULD be palpable** monthly. Missing/longer strings = displacement → notify HCP.

"Progestin protects against STIs"

✓ **NO STI protection** with any hormonal method. Always teach barrier (condom) use.

"Severe abdominal pain = normal cramping"

✓ **One-sided severe pain = ECTOPIC** until proven otherwise. Priority assessment.



Patient Education

07 / TEACH

- ▶ **Mini-pill (POP):** set a daily alarm. Take same time every day; if >3 hr late, use condoms × 48 hr.
- ▶ **Depo:** return for injection q11–13 weeks. Take Ca²⁺ 1,200 mg + Vit D 400–800 IU; weight-bearing exercise; limit caffeine/tobacco.
- ▶ **Nexplanon:** palpate site monthly; replace at 3 yr. Bruising and tenderness × 1 week is normal.
- ▶ **IUD:** check strings after each period. Bleeding lightens over time (often amenorrhea by year 1).
- ▶ **Plan B:** take ASAP after unprotected sex; if vomiting <2 hr, repeat dose. Backup contraception × 7 days.
- ▶ **All methods:** condoms required for STI prevention.
- ▶ **Spotting first 3–6 months is normal** – do not discontinue without HCP guidance.
- ▶ **Report immediately:** severe abdominal pain, missed period (with prior regular cycles), heavy bleeding, calf pain, chest pain, severe HA, vision changes.



Memory Boosters & Mnemonics

08 / RECALL

PAINS — IUD Warning Signs

- ▶ **P** — Period late, abnormal spotting
- ▶ **A** — Abdominal pain, dyspareunia
- ▶ **I** — Infection (fever, foul discharge)
- ▶ **N** — Not feeling well, chills
- ▶ **S** — String missing, shorter, or longer

ACHES — Hormonal Red Flags

- ▶ **A** — Abdominal pain (severe)
- ▶ **C** — Chest pain, SOB → PE
- ▶ **H** — Headache (severe), dizziness
- ▶ **E** — Eye changes, vision loss
- ▶ **S** — Severe leg pain → DVT

"3-Hour Rule" — POP Timing

- ▶ POP = **3-hour** window (NOT 12 hr like COCs)
- ▶ Late >3 hr → take pill + use **backup × 48 hr**
- ▶ Combined OC = 12-hour grace period
- ▶ Set a daily phone alarm 📱

Depo "DEPRESS BONES"

- ▶ Depression risk — screen mood
- ▶ Bone density loss (Black Box)
- ▶ **11–13 weeks** — injection interval
- ▶ Calcium + Vit D + weight-bearing exercise
- ▶ Fertility return delayed up to **10 months**

"PIMP" — The 4 Routine Methods

- ▶ **P** — Pill (POP / mini-pill, daily)
- ▶ **I** — Injection (Depo, q11–13 wk)
- ▶ **M** — iMplant (Nexplanon, 3 yr)
- ▶ **P** — uterine Progestin-IUD (3–8 yr)

"Plan B = Backup, NOT abortion"

- ▶ Works **BEFORE ovulation** — delays egg release
- ▶ Most effective **<72 hr**; up to 120 hr
- ▶ Does **NOT** end an existing pregnancy
- ▶ OTC, no prescription required

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