

Penile Reconstruction (Phalloplasty / Penile Rebuilding)

“Restoring dignity, function, and confidence.”

What is Penile Reconstruction?

Penile reconstruction refers to **surgical procedures used to rebuild or recreate the penis** when it is damaged, deformed, absent, or removed.

Why is it needed?

Penile reconstruction may be required due to:

- **Trauma** (accidents, burns, animal bites)
- **Cancer surgery** (penile cancer removal)
- **Congenital absence or deformity** (e.g., micropenis)
- **Gender-affirming surgery** (female-to-male transition)
- **Infections or complications** (e.g., Fournier’s gangrene)

Reconstruction Options

The choice of technique depends on the **extent of damage**, **goal of reconstruction**, and **patient preference** (especially in gender-affirming surgeries).

1. Local Tissue Flaps

- Uses available skin and tissue from nearby areas
- Suitable for **minor injuries or partial defects**
- Can restore skin cover and cosmetic appearance
- Limited in restoring full size or erectile function

2. Free Flap Phalloplasty

Used for **complete penile reconstruction** (after total loss, cancer removal, or gender-affirming surgery)

Common flap types:

◆ Radial Forearm Free Flap (FRAFF)

- Skin, fat, and blood vessels from the forearm
- Allows for **good sensation and shaping**
- Can be connected to nerves and vessels microscurgically
- Often includes **urethral reconstruction** for urination

◆ Anterolateral Thigh (ALT) Flap

- Thicker skin, fewer visible donor scars
- Used for larger phallus size
- May not have as good sensation as forearm flap

3. Neourethra Construction

- Creating a new **urine passage** within the phallus
- Allows **standing urination**
- May require multiple stages and **additional grafts**

4. Penile Prosthesis (Implant)

- For patients seeking **rigidity for sexual function**
- Implant is placed inside the reconstructed phallus
- Done in a **second stage**, once healing is complete

5. Glans Sculpting & Tattooing

- Final cosmetic refinements
- Involves shaping the glans (head) of the penis
- Medical tattooing used to match natural skin tone

Goals of Penile Reconstruction

- Allow **urination in standing position**
- Restore **sexual function and sensation** (when possible)
- Achieve **natural appearance** and **body confidence**
- Preserve **dignity and identity**

Recovery and Expectations

- Multistage process (especially for complete reconstruction)
- Requires close follow-up and sometimes revision surgery
- Results vary based on the technique and patient condition
- Psychological support is often an important part of recovery



Final Word:

Penile reconstruction is life-changing. Whether due to trauma, cancer, or gender transition, it helps restore **function, appearance, and personal identity** — and most importantly, **hope**.

Expert surgeons and modern microsurgical techniques now make this possible with **satisfying outcomes**.