

## Specialized Surgical Procedures Performed

Dr. Arunkumar Sengottaiyan has demonstrated exceptional expertise in performing highly specialized urological and pediatric urological surgeries, showcasing his advanced surgical acumen and commitment to managing complex and rare urological conditions. His proficiency in these intricate procedures underscores his dedication to delivering optimal patient outcomes through precision-based surgical interventions.

### Retroperitoneal Lymph Node Dissection (RPLND) for Intra-Abdominal Testicular Tumors

- **Clinical Context:** Performed in cases of advanced testicular malignancies with retroperitoneal lymph node involvement, particularly in post-chemotherapy residual masses or primary RPLND for high-risk nonseminomatous germ cell tumors (NSGCT).
- **Surgical Approach:** Executes both open and laparoscopic/robot-assisted RPLND, ensuring meticulous dissection of nodal tissues while preserving critical structures such as the sympathetic chain, aorta, and inferior vena cava to minimize postoperative complications like retrograde ejaculation.
- **Outcome Focus:** Aims for complete oncological clearance while maintaining functional outcomes, adhering to nerve-sparing techniques when feasible to preserve ejaculatory function.

### Pediatric Ureteral Reimplantation

- **Clinical Indications:** Expertly manages pediatric vesicoureteral reflux (VUR) and obstructive megaureter through ureteral reimplantation, preventing recurrent urinary tract infections (UTIs) and preserving renal function in children.
- **Surgical Technique:** Proficient in both intravesical (Cohen, Politano-Leadbetter) and extravesical (Lich-Gregoir) approaches, tailoring the method based on anatomical considerations and reflux severity.
- **Minimally Invasive Adaptations:** Incorporates laparoscopic and robotic-assisted reimplantation techniques when indicated, reducing postoperative pain and accelerating recovery in pediatric patients.

