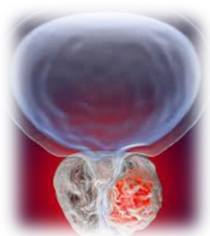


Prostate Cancer Focal Therapy Program



	Nanoknife	HIFU	
Full name	Irreversible Electroporation of the Prostate	High Intensity Focal Ultrasound of the Prostate	
Mechanism of action	Non-thermal ablation using short, high-voltage electric pulses to permanently permeabilize cell membranes (irreversible electroporation)	Thermal ablation: focused ultrasound waves concentrate energy to heat and coagulate tissue in target zones.	
Overall effectiveness	<input type="checkbox"/> Negative in-field biopsy rate of 71–84% at 12 months <input type="checkbox"/> Median PSA reduction of 68% at 6 months.	Failure-free survival (FFS) rates of 88–90% at 5 years	
Preparation	✓ Stop blood thinners prior ✓ PCP clearance with labs ✓ Enema night before procedure	✓ Stop blood thinners prior ✓ PCP clearance with labs ✓ Enema night before procedure	
Procedure Length	~2 hour	2–4 hours depending on volume	
Urinary incontinence rate	~100% continence rate at 12 months	<input type="checkbox"/> Whole Gland: 2-10% <input type="checkbox"/> Partial gland: <2%	
Erectile dysfunction rates	~16% ED rate at 12 months	<input type="checkbox"/> Whole Gland: 44% <input type="checkbox"/> Partial gland: 15%	
Common side effects	Urinary retention Dysuria Pelvic pain	Urinary retention Dysuria Pelvic pain	UTI Hematuria Epididymitis Hematuria
Days with catheter	3-5 days	3-5 days	
Follow-up schedule	PSA: 3, 6, 12 mo, then q6-12mo pMRI: 6-12 months Repeat biopsy: 6-12 month	PSA: 3, 6, 12 mo, then q6-12mo pMRI: 6-12 months Repeat biopsy: 6-12 month	