

Considering Surgery for Prostate Cancer?

Learn about minimally invasive
da Vinci® Surgery



da Vinci.Surgery

Surgery Options

Prostate cancer is the second most common cancer in men in the United States.¹ Fortunately, with early detection and proper treatment, the 5-year survival rate is almost 100%.² Your doctor will discuss all treatment and surgery options with you.

According to the American Urological Association's Guidelines for the Clinical Management of Prostate Cancer, "The major potential benefit of prostatectomy [surgery to remove the prostate] is a cancer cure in patients in whom the prostate cancer is truly localized."³

A prostatectomy can be performed with open surgery or minimally invasive surgery (robotic-assisted or laparoscopic).

Open Surgery: Surgery is done through one large incision (cut) in the abdomen which allows doctors to touch your organs as they operate.



Minimally Invasive Surgery: During minimally invasive surgery (robotic-assisted or traditional laparoscopic), surgeons operate through a few small incisions using long instruments and a tiny camera to guide doctors during surgery.

Robotic-assisted **da Vinci Surgery** also features fully wristed instruments – meaning they bend and rotate far greater than the human hand. Other key features of the *da Vinci* Surgical System:

- 3D HD vision system that gives surgeons a magnified view inside the body
- Enhanced vision, precision and control during the entire operation



da Vinci Surgery:

A Minimally Invasive Surgical Option

da Vinci Prostatectomy offers the following potential benefits compared to open surgery:

- › Lower positive surgical margin rates* 4,5,6,7
- › Faster return of erectile (sexual) function 8,9
- › Better chance for return of urinary continence within 6 months 7,8,9
- › Less blood loss 4,7,8,9,10 or need for a transfusion 4,7,9,10
- › Fewer complications 7,10
- › Lower risk of wound infection 4,10
- › Shorter hospital stay 4,7,8,14
- › Less chance of hospital readmission 20,21
- › Fewer days with catheter 8,23
- › Less risk of deep vein thrombosis** 4,24

da Vinci Prostatectomy offers the following potential benefits compared to traditional laparoscopy:

- › More patients return to pre-surgery erectile function at 12-month checkup 12,13
- › Faster return of urinary continence 13,15
- › Fewer complications 4,27
- › Better nerve sparing rate 28,29
- › Shorter hospital stay 4,11

Your doctor controls the *da Vinci* System, which translates his/her hand movements into smaller, precise movements of tiny instruments inside your body.

The *da Vinci* System has brought minimally invasive surgery to more than 3 million patients worldwide.

Risks & Considerations Related to Radical

Prostatectomy: Leaking of urine, urgent need to urinate, cannot get or keep an erection, rectal or bowel injury, narrowing of the urethra, pooling of lymph fluid in the pelvic area or legs.

Important Information for Patients:

Serious complications may occur in any surgery, including *da Vinci*[®] Surgery, up to and including death. Risks include, but are not limited to, injury to tissues and organs and conversion to other surgical techniques. If your doctor needs to convert the surgery to another surgical technique, this could result in a longer operative time, additional time under anesthesia, additional or larger incisions and/or increased complications. Individual surgical results may vary. Patients who are not candidates for non-robotic minimally invasive surgery are also not candidates for *da Vinci* Surgery. Patients should talk to their doctor to decide if *da Vinci* Surgery is right for them. Patients and doctors should review all available information on non-surgical and surgical options in order to make an informed decision. Please also refer to www.daVinciSurgery.com/Safety for important safety information.

* Surgical margin: Surrounding tissue that is removed with the tumor. If cancer cells are found in this tissue, it's called a "positive surgical margin". If cancer cells are not found, it's called a "negative" or "clear margin".

** Deep vein thrombosis: Dangerous condition that occurs when a blood clot forms deep in the body.

For more information and to find a
da Vinci surgeon near you, visit:
www.daVinciSurgery.com

1.American Cancer Society: Key statistics for prostate cancer. Available from: <http://www.cancer.org/cancer/prostatecancer/detailedguide/prostate-cancer-key-statistics> 2.American Cancer Society: Survival rates for prostate cancer. Available from: <http://www.cancer.org/cancer/prostatecancer/detailedguide/prostate-cancer-survival-rates> 3.Prostate cancer clinical guideline update panel. Guideline for the management of clinically localized prostate cancer: 2007 update. Linthicum (MD): American Urological Association Education and Research, Inc. 2007; 82. 4.Tewari A. et al., Positive surgical margin and perioperative complication rates of primary surgical treatments for prostate cancer: a systematic review and meta-analysis comparing retropubic, laparoscopic, and robotic prostatectomy. *Eur Urol.* 2012 Jul;62(1):1-15. Epub 2012 Feb 24 5.Weerakoon M. et al., Predictors of positive surgical margins at open and robot-assisted laparoscopic radical prostatectomy: a single surgeon series. *J Robotic Surg.* 2011. <http://dx.doi.org/10.1007/s11701-011-0313-4> 6.Coronato E.E. et al., A multiinstitutional comparison of radical retropubic prostatectomy, radical perineal prostatectomy, and robot-assisted laparoscopic prostatectomy for treatment of localized prostate cancer. *J Robotic Surg* (2009) 3:175-178. DOI: 10.1007/s11701-009-0158-2. 7.Health Information and Quality Authority (HIQA), reporting to the Minister of Health-Ireland. Health technology assessment of robot-assisted surgery in selected surgical procedures, 21 September 2011. <http://www.hiqa.ie/system/files/HTA-robot-assisted-surgery.pdf> 8Rocco B. et al., Robotic vs open prostatectomy in a laparoscopically naive centre: a matched pair analysis. *BJU Int.* 2009 Oct;104(7):991-5. Epub 2009 May 5. 9.Ficarra V. et al., A prospective, non-randomized trial comparing robot-assisted laparoscopic and retropubic radical prostatectomy in one European institution. *BJU Int.* 2009 Aug;104(4):534-9. 10.Carlsson S. et al., Surgery-related complications in 1253 robot- assisted and 485 open retropubic radical prostatectomies at the Karolinska University Hospital, Sweden. *Urology.* 2010 May;75(5):1092-7 11.Ho C. et al., Robot- Assisted Surgery Compared with Open Surgery and Laparoscopic Surgery: Clinical Effectiveness and Economic Analyses [Internet]. Ottawa: Canadian Agency for Drugs and Technologies in Health (CADTH); 2011 (Technology report no. 137). 12.Asimakopoulos A.D. et al., Randomized comparison between laparoscopic and robot-assisted nerve-sparing radical prostatectomy. *J Sex Med.* 2011 May;8(5):1503-12. doi: 10.1111/j.1743-6109.2011.02215.x. Epub 2011 Feb 16. 13.Porpiglia F. et al., Randomised Controlled Trial Comparing Laparoscopic and Robot-assisted Radical Prostatectomy. *Eur Urol.* 2012 Jul 20. [Epub ahead of print] 14.Lott F. et al., Is previous experience in laparoscopic necessary to perform robotic radical prostatectomy? A comparative study with robotic and the classic open procedure in patients with prostate cancer. *Acta Cirurgica Brasileira.* 2015;30(3):229-234. doi:10.1590/s0102-8650201500300000011. 15.Moran P. et al., Robot-assisted radical prostatectomy compared with open and laparoscopic approaches: A systematic review and meta-analysis. *International Journal of Urology.* 2013;20(3):312-321. doi:10.1111/iju.12070. 20.Fabbro E. et al., Robot-assisted laparoscopic prostatectomy: an economic analysis for decision-making in a university hospital of Northern Italy. *Epidemiology Biostatistics and Public Health - 2015, Volume 12, Number 1.* 21.Pilecki M.A. et al., National Multi-Institutional Comparison of 30-Day Postoperative Complication and Readmission Rates Between Open Retropubic Radical Prostatectomy and Robot-Assisted Laparoscopic Prostatectomy Using NSQIP. 2013, DOI: 10.1089/end.2013.0656 23.Ryu J. et al., Retropubic Versus Robot-Assisted Laparoscopic Prostatectomy for Prostate Cancer: A Comparative Study of Postoperative Complications. 2013, *Korean J Urol* 2013;54:756-761. 24.Davis J.W. et al., Learning Curve Assessment of Robot-Assisted Radical Prostatectomy Compared with Open-Surgery Controls from the Premier Perspective Database. 2013, DOI: 10.1089/end.2013.0534. 27.Sugihara T. et al., Robot-assisted versus other types of radical prostatectomy: Population-based safety and cost comparison in Japan, 2012–2013. *Cancer Sci* (2014) doi: 10.1111/cas.12523 28.Wagenhoffer R. et al., Switching from Endoscopic Extraperitoneal Radical Prostatectomy to Robot-Assisted Laparoscopic Prostatectomy: Comparing Outcomes and Complications. 2015, *Urol Int* DOI: 10.1159/000376587. 29.Park J.W. et al. Comparative Assessment of a Single Surgeon's Series of Laparoscopic Radical Prostatectomy: Conventional Versus Robot-Assisted. 2011, *Journal of Endourology.* DOI: 10.1089=end.2010.0229.