

da Vinci®

HYSTERECTOMY

FOR EARLY STAGE GYNECOLOGIC CANCER



Solutions for minimally invasive gynecologic surgery

The *da Vinci*[®] Surgical System

- › High definition 3D vision
- › *EndoWrist*[®] instrumentation
- › *Intuitive*[®] motion

da Vinci[®] HYSTERECTOMY FOR EARLY STAGE GYNECOLOGIC CANCER

Enables the most precise, comprehensive minimally invasive surgery for early stage gynecologic cancer

The unsurpassed visualization, dexterity and control allows surgeons:

- ✘ To treat early stage gynecologic cancer minimally invasively – safely, reproducibly and following open surgical technique
- ✘ Greater access, precision and control for improved dissections – with lower EBL^{1,2}
- ✘ Improved radicality³, margins and lymph node harvest for a more comprehensive cancer surgery & staging procedure^{1,2}
- ✘ Control of the camera and all three operative arms for the ultimate in surgical autonomy and efficiency
- ✘ The potential to improve practice efficiency with simplified post-operative care

POTENTIAL PATIENT BENEFITS INCLUDE

- ✘ Significantly less pain
- ✘ Less blood loss
- ✘ Fewer transfusions
- ✘ Less risk of wound infection
- ✘ Shorter hospital stay
- ✘ Quicker recovery and return to normal daily activities
- ✘ Smaller incisions for improved cosmesis
- ✘ Better clinical outcomes and patient satisfaction, in many cases



¹ Source: Statement from Dr. John F. Boggess, reference PN 871391

² Source: Statement from Dr. John F. Boggess, SGO 2007 Debate "Radical Hysterectomy: Robotics versus Laparoscopy"

³ Source: Statement from Dr. John F. Boggess, Robotic Surgery In Gynecologic Oncology: Evolution of A New Surgical Paradigm, J Robotic Surg. 2007 March; 1(1):35

Procedure Highlights



Para-aortic Lymphadenectomy

The visualization and dexterity provided by the *da Vinci* System facilitate anatomical dissection of tissue planes and isolation of pedicles for greater precision and control when dissecting the lymph node bundle off the internal iliac and vena cava. This allows for superior lymph node harvest with greater surgical ease compared to open and conventional laparoscopic technique.



Pelvic Lymphadenectomy

A more precise, controlled dissection of the lymph node bundle can be achieved off the external iliac artery, out to the pelvic side wall and psoas muscle, and into the obturator space. A complete en bloc lymphadenectomy can be achieved, increasing lymph node yield for pathology evaluation.



Circumferential Vaginotomy

Compared to conventional laparoscopy, the *da Vinci* System allows the surgeon to work easily and efficiently, 360 degrees around the uterus, to perform circumferential vaginotomy along the edge of the colpotomy ring while transecting cardinal and uterosacral ligaments using the *EndoWrist Hot Shears™* (Monopolar Curved Scissors). Additionally, *da Vinci* allows the surgeon to drive the camera in, close to the vagina, enhancing visualization and facilitating a more precise dissection.



Vaginal Cuff Closure

EndoWrist Instrument articulation provides surgeons with greater dexterity, precision and control to suture the vaginal cuff closed compared to conventional laparoscopy.








Radicality and Margins

The 3D visualization and 10X magnification combined with wristed instruments allow surgeons to perform comprehensive, radical dissections to achieve desired margins for complete cancer removal.

EndoWrist® Instruments

Optimized for *da Vinci*® Hysterectomy to Treat Early Stage Gynecologic Cancer

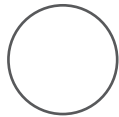
STANDARD/S PNs	TARGETED APPLICATION	FEATURE	POTENTIAL BENEFITS
 <p>Fenestrated Bipolar Forceps (Bipolar Cadiere) 400205/420205</p>	<ul style="list-style-type: none"> Grasping, dissection, and coagulation Lymphadenectomy 	<ul style="list-style-type: none"> Bipolar energy device Fenestrated wide jaw profile 	<ul style="list-style-type: none"> Localized coagulation with minimal thermal spread Allows for secure grasping and tissue-handling
 <p>Hot Shears™ (Monopolar Curved Scissors) 400179/420179 Requires Tip Cover: 400180</p>	<ul style="list-style-type: none"> Isolating ureters Creating vesico-uterine reflection Colpotomy 	<ul style="list-style-type: none"> Combined scissors and monopolar cautery Tapered tip-profile 	<ul style="list-style-type: none"> Fewer instrument exchanges Improved procedure efficiency Precise, clean tissue cutting Precise, localized hemostasis Blunt tissue dissection
 <p>Mega Needle Driver 400194/420194</p>	<ul style="list-style-type: none"> Secure grasping of CT-1 & CT-2 needles during vaginal cuff closure 	<ul style="list-style-type: none"> Strong grasping force Tapered, smooth outer jaw 	<ul style="list-style-type: none"> Secure grasping of larger needles (e.g., CT-1, CT-2) to drive through thick vaginal cuff Improved visualization at the tip compared to square jaw profile Facilitates suture sliding during knot-tying
 <p>SutureCut™ Needle Driver 400209/420209</p>	<ul style="list-style-type: none"> Vaginal cuff closure Interrupted suturing 	<ul style="list-style-type: none"> Strong grasping force Scissor blades at the base Tapered, smooth outer jaw 	<ul style="list-style-type: none"> Suturing & cutting capability in one instrument improves operative efficiency Secure grasping of larger needles (e.g., CT-1, CT-2) Facilitates suture sliding during knot-tying
 <p>Large Needle Driver 400006/420006</p>	<ul style="list-style-type: none"> Vaginal cuff closure 	<ul style="list-style-type: none"> Carbide-insert style jaws Diamond pattern jaw profile 	<ul style="list-style-type: none"> Delivers secure needle control Provides firm grip and secure needle control

Additional *EndoWrist* Instrument Options

 <p>EndoWrist PK™ Dissector 400227/420227</p>	<p>STANDARD/S PNs</p> <p>TARGETED APPLICATION</p> <ul style="list-style-type: none"> Grasping, dissection, and coagulation 	 <p>STANDARD/S PNs</p> <p>TARGETED APPLICATION</p> <ul style="list-style-type: none"> Grasping & dissection
 <p>Maryland Bipolar Forceps – Fenestrated 400172/420172</p>	<ul style="list-style-type: none"> Grasping, dissection, and coagulation 	 <p>Double Fenestrated Grasper 400189/420189</p> <ul style="list-style-type: none"> Firm, yet atraumatic grasping of bowel and other delicate structures
 <p>Permanent Cautery Spatula 400184/420184</p>	<ul style="list-style-type: none"> Dissection & coagulation (monopolar cautery) 	 <p>Cobra Grasper 400190/420190</p> <ul style="list-style-type: none"> Grasping & retraction

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Interactive Procedure Overview



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Technique Video



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INTUITIVE SURGICAL®

Taking Surgery Beyond the Limits of the Human Hand.™

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While clinical studies support the use of the *da Vinci* Surgical System as an effective tool for minimally invasive surgery, individual results may vary. Before performing any clinical procedure utilizing the System, physicians are responsible for receiving sufficient training and proctoring to ensure that they have the requisite training, skill, and experience necessary to protect the health and safety of the patient. For technical information, including full cautions and warnings on using the *da Vinci* System, please refer to the System User Manual. Read all instructions carefully. Failure to properly follow instructions, notes, cautions, warnings, and danger messages associated with this equipment may lead to serious injury or complications for the patient. © 2007 Intuitive Surgical. All rights reserved. *Intuitive*, *Intuitive Surgical*, *da Vinci*, *da Vinci S HD*, *InSite*, *TilePro* and *EndoWrist* are trademarks or registered trademarks of Intuitive Surgical. All other product names are trademarks or registered trademarks of their respective holders. PN 871555 Rev. C 11/07