Vaginal promontofixation by robotic laparoscopy: Da Vinci system®

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February 9, 2007
Interlaken
Urology and mini-invasive surgery:

- radical prostatectomy
- nephrectomy (partial or total)
- Pyeloplasty
- uro-genital prolapse
- Cystectomy
- lymphadenectomy
- Spermatic vein ligation / ectopic testis
Laparoscopic prostatectomy (LP)

Sept. 1991  First intraperitoneal
WW. Schuessler, U.S.A

Nov. 1997  European first
R. Gaston, Bordeaux (followed by CC. Abbou, B. Guillonneau and G. Vallencien, Paris)

March 1999  Swiss first
C. H. Rochat, R. Gaston, Geneva

Dec. 1999  First retrograde extra-peritoneal
P. Dubernard, Lyon
The Da Vinci robot ®
3-D Image

2 cameras
2 sources of cold light
view in the axis of the arms
Precision

2:1 to 5:1

reduced movements

less shaking
History of Da Vinci ® at the Clinique Générale Beaulieu, Geneva

October 2002
Decision to test the Da Vinci robot at the CGB in Geneva

January 2003
11 interventions in 1 week and a broadcast with IRCAD-EITS (R. Gaston, C.-H. Rochat).

March - June 2003
Approval of the project and training of teams.

September 2003
Start of procedures
Robotic laparoscopic prostatectomies (RLP)

May 2000       J. Binder, Frankfurt
July 2000      C.C. Abbou, Paris
Sept. 2000   G. Vallencien, Paris
Nov. 2001      M. Menon, Detroit
Aug. 2002    H. John, Zürich
Number of procedures:

2003: 25
2004: 95
2005: 104
2006: 111

335 (206 radical prostatectomies)
Robotic better than conventional laparoscopy

3D vision
robotic instruments with 6 degrees of freedom
easy suture:

radical prostatectomy
pyeoplasty
ureteral reimplantation
promontofixation
Vaginal promontofixation by robotic laparoscopy

Indications

- symptomatic cystocele with rectocele
- hysterocele
- vaginal vault prolapse and enterocele
Vaginal promontofixation by robotic laparoscopy

Advantages

- excellent view of the anterior and posterior compartments
- solid cure with mesh prosthesis
Vaginal promontofixation by robotic laparoscopy

Installation
Vaginal promontofixation by robotic laparoscopy

Installation

Durée : 30 sec
Vaginal promontofixation by robotic laparoscopy
Da Vinci system®

C.H. Rochat, F. Taban
Geneva

Durée : 3min 10 sec
Vaginal promontofixation by robotic laparoscopy
Da Vinci system®

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Geneva
Vaginal promontofixation by robotic laparoscopy

Questions

Stress incontinence

Hysterectomy (total or partial)

associated laparoscopic Burch operation

TOT / TVT

Increased risk of erosion*

* Bensinger, G. and all Am J Obstet Gynecol 2005, 93: 2094-8
Vaginal promontofixation by robotic laparoscopy

Conclusions

3-D vision
Easy access to the pelvis
Ergonomic position
Precision of movements

Excellent anatomical and functional results
Advantages of mini-invasive surgery
REMOTE CONTROL

The doctor directed the Vinci Surgical System performs operations with less cutting and greater precision than conventional surgery. Georges Reymond, chef. Photography: Joan Corry. Hair: Tameka Winters; makeup: Stéphane Marais, set design: Mary Howard Studio. Shown is a state-of-the-art operating room at the Hackensack University Medical Center. New Jersey. See our, work in this issue.

The four-armed probe follows the commands of a surgeon seated in a hooded console a few feet away, shades of the wizard at the court of Oz.