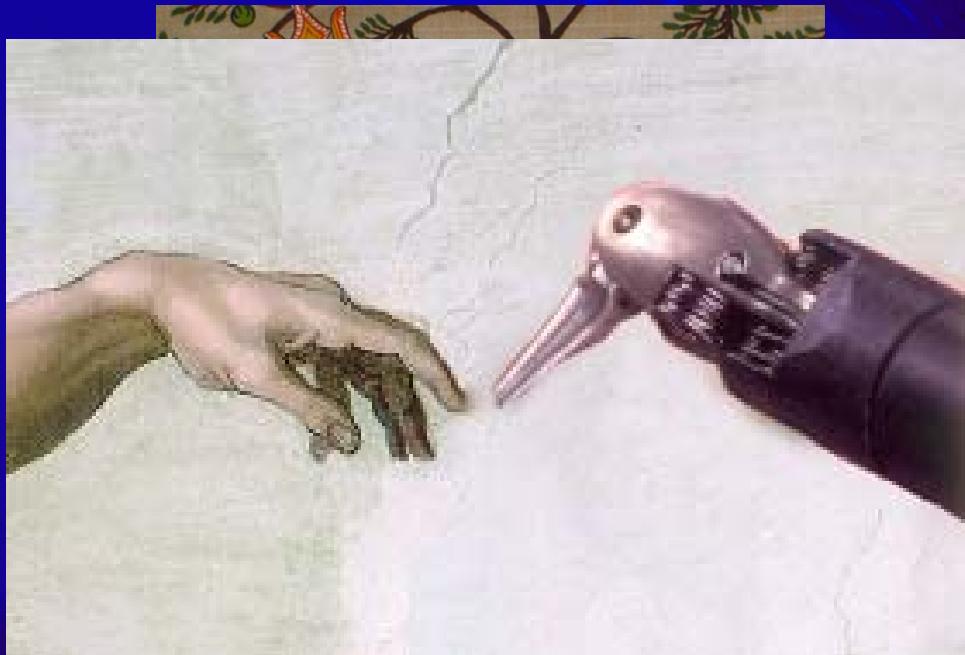


Vaginal promontofixation by robotic laparoscopy : Da Vinci system ®



Ch.-H. Rochat
Geneva

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)

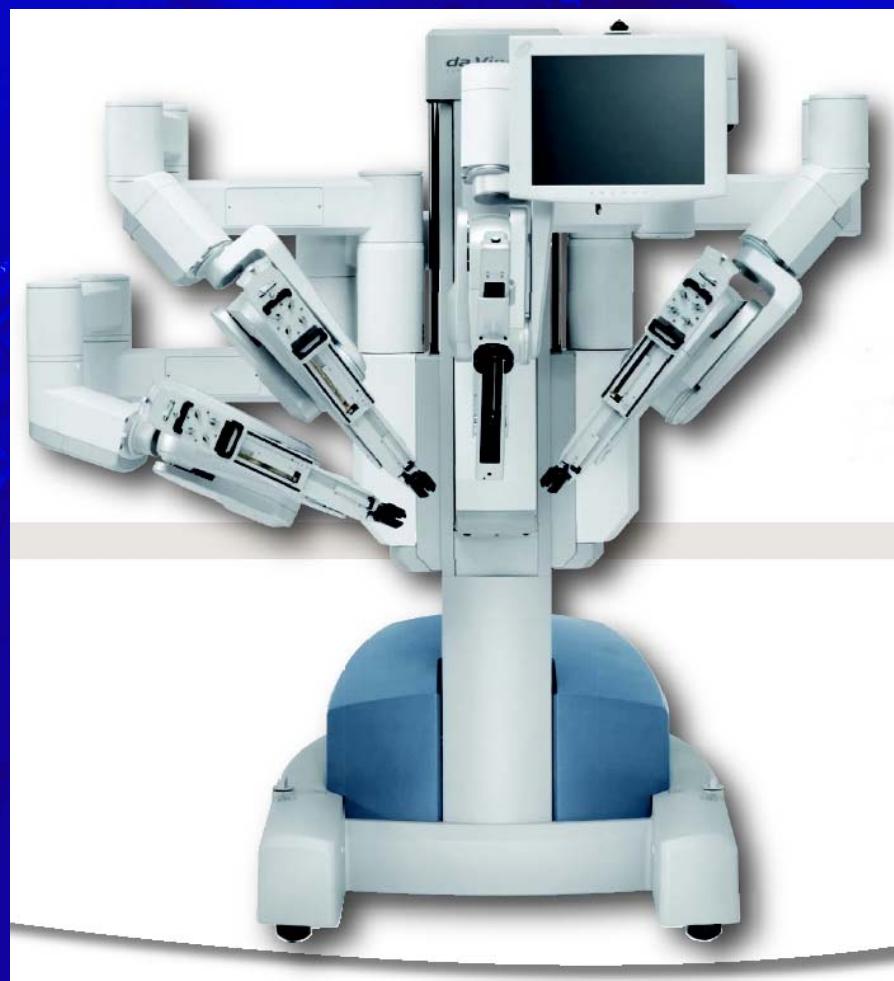
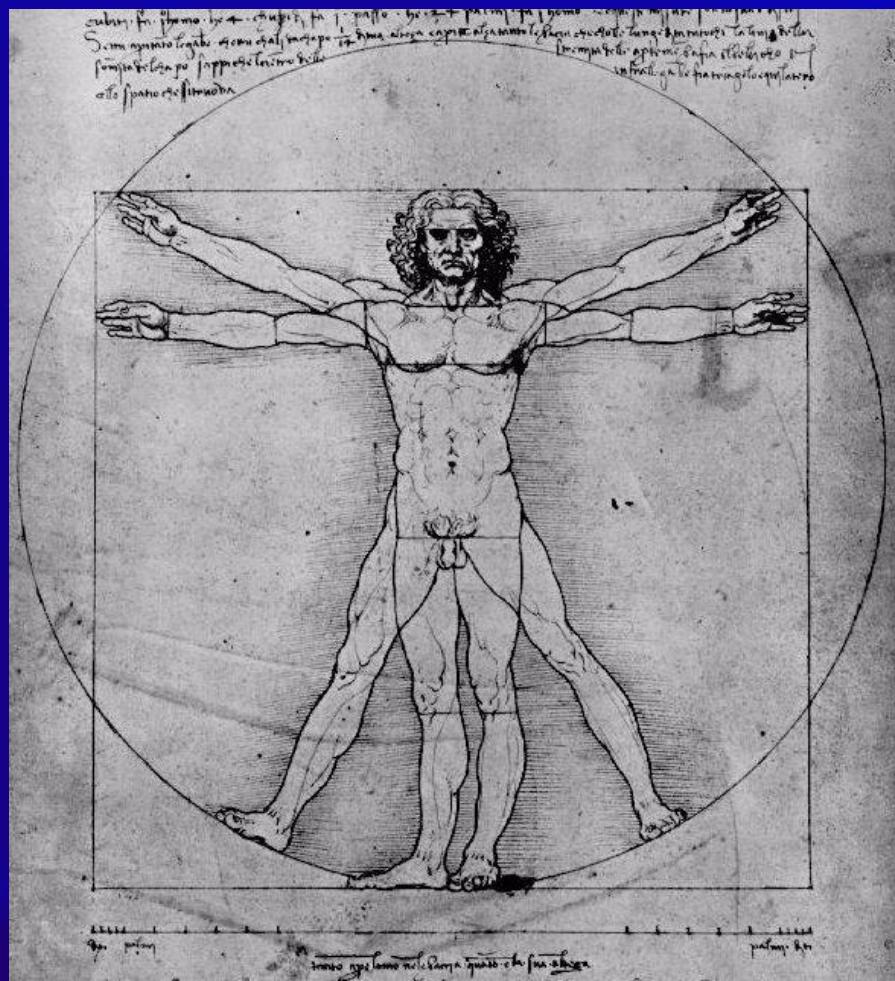
March 1999 Swiss first

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



5 cm



1 cm

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

Jan. 2003

C.-H. Rochat, R. Gaston, Geneva

Clinique
GENERALE-BEAULIEU

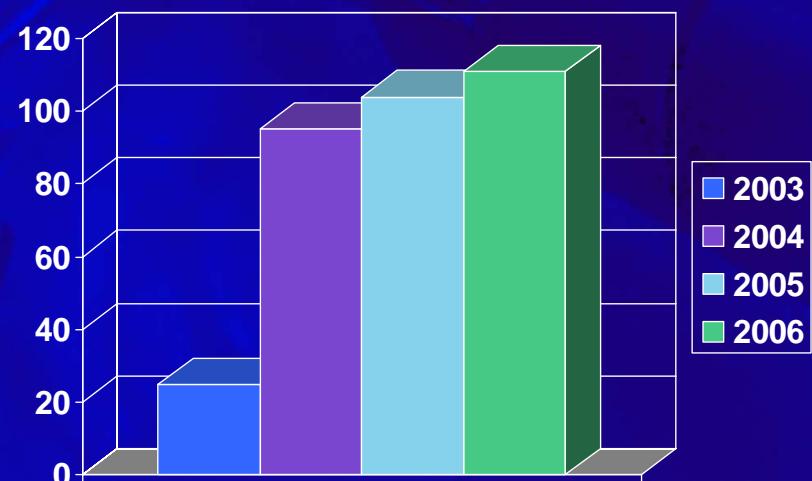
Number of procedures:

2003 : 25

2004 : 95

2005 : 104

2006 : 111



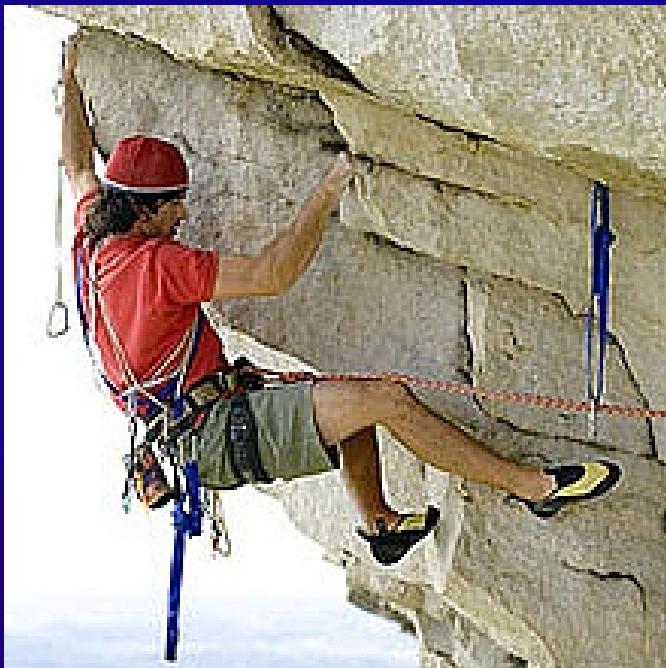
335 (206 radical prostatectomies)

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

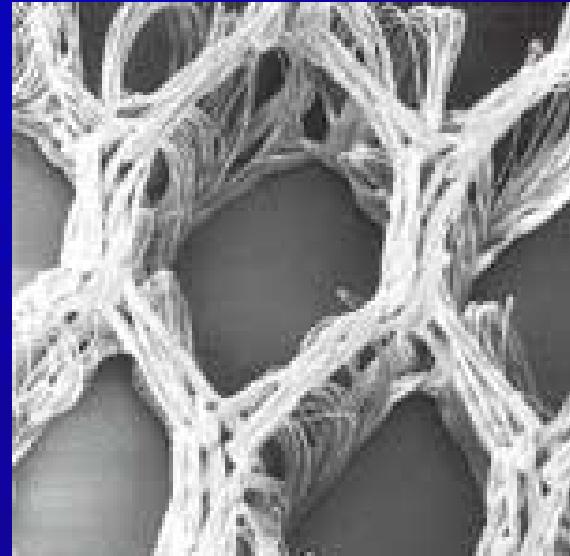
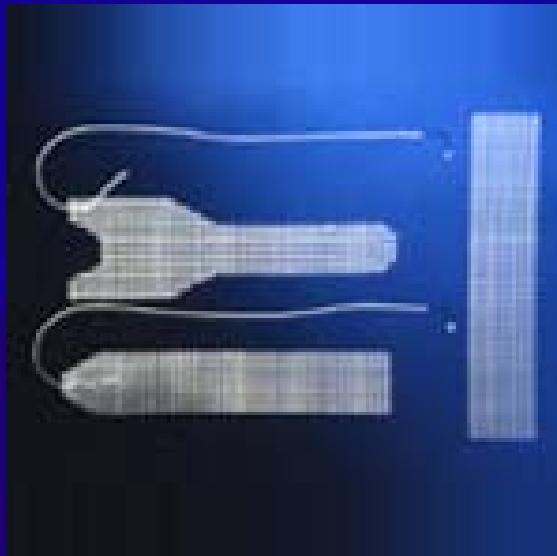


Vaginal promontofixation by robotic laparoscopy

Advantages

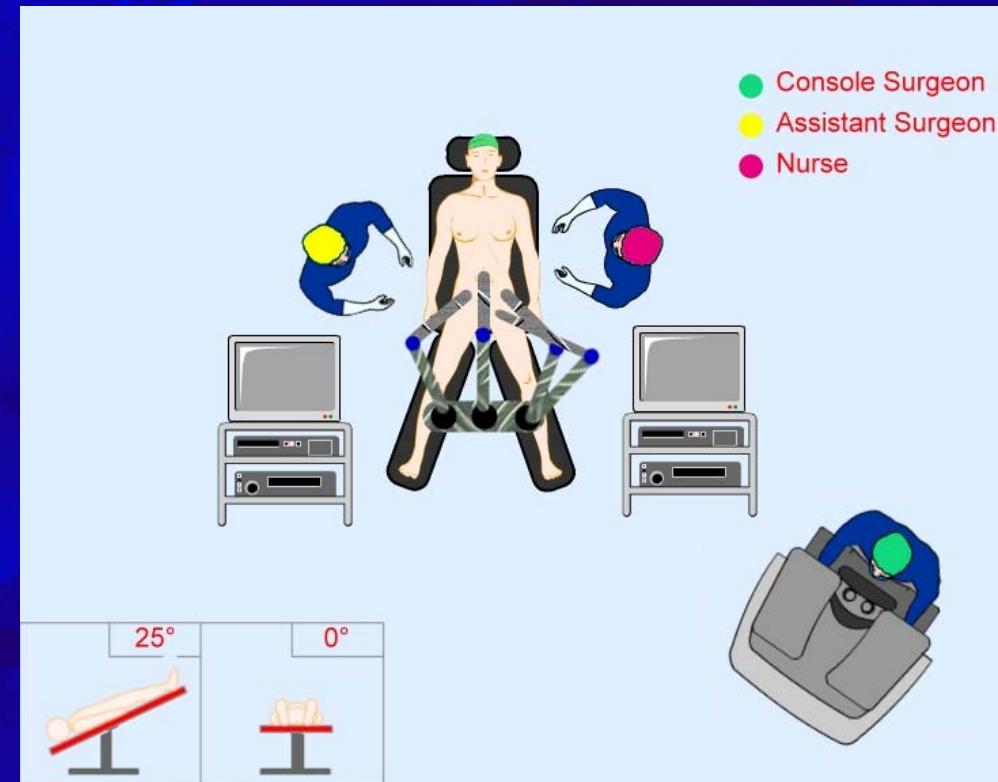
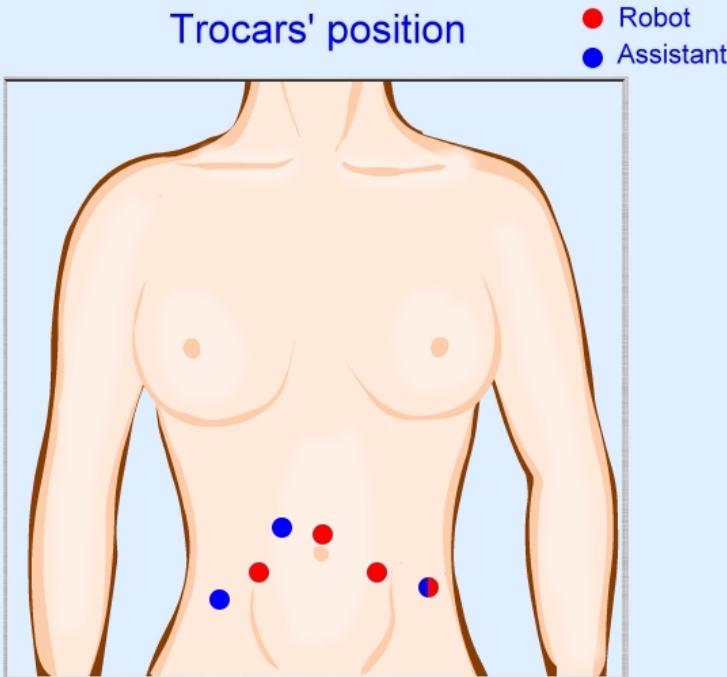
excellent view of the anterior and posterior compartments

solid cure with mesh prosthesis



Vaginal promontofixation by robotic laparoscopy

Installation

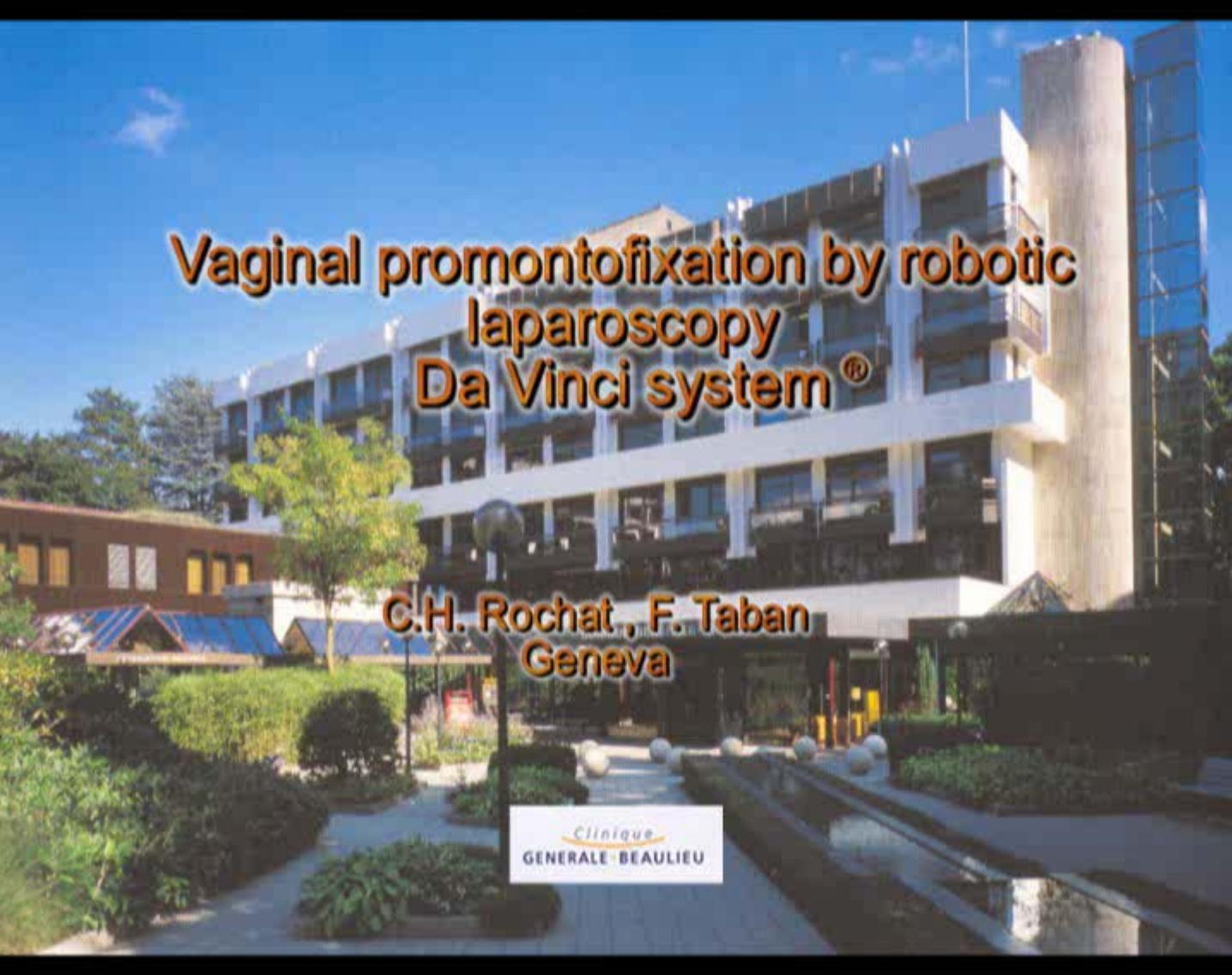


Vaginal promontofixation by robotic laparoscopy

Installation



Durée : 30 sec

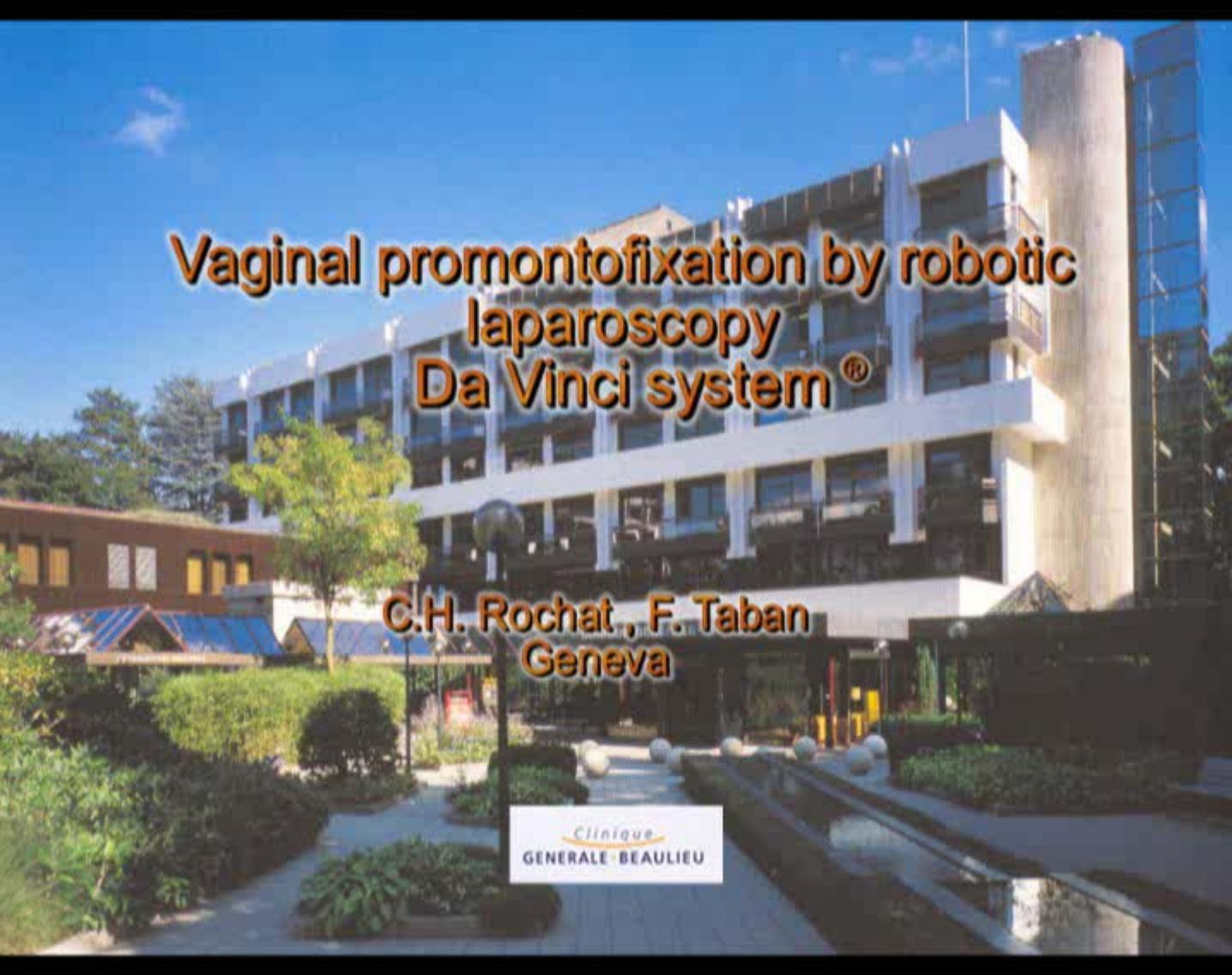


**Vaginal promontofixation by robotic
laparoscopy
Da Vinci system®**

**C.H. Rochat , F. Taban
Geneva**

Clinique
GENÉRALE BEAULIEU

Durée : 3min 10 sec



**Vaginal promontofixation by robotic
laparoscopy
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**C.H. Rochat , F. Taban
Geneva**

Clinique
GENÉRALE BEAULIEU

Durée : 5min 53 sec

Vaginal promontofixation by robotic laparoscopy

Questions

Stress incontinence

associated laparoscopic
Burch operation

TOT / TVT

Hysterectomy (total or
partial)

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 da Vinci Surgical System performs operations with less cutting and greater accuracy than conventional surgery. Giorgio Armani dress. Balenciaga shoes. In this story: hair, Julien d'Ys using Mokuba ribbon; makeup, Stephane Marais; set design, Mary Howard Studio. Shot in a state-of-the-art operating room at the Hackensack University Medical Center, New Jersey. Details, see 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