

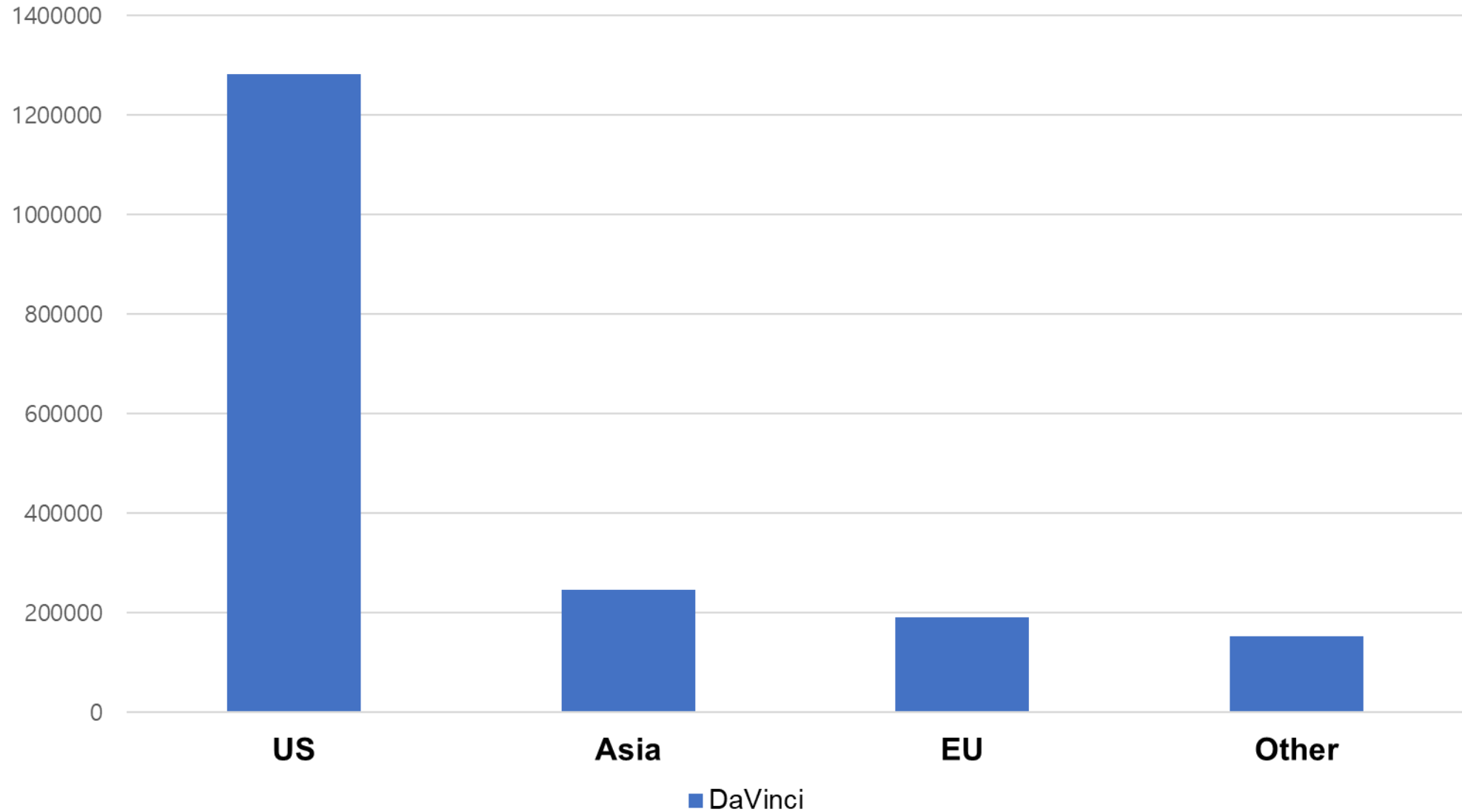


Turning Point in Robotic Surgery in Gynecologic Oncology

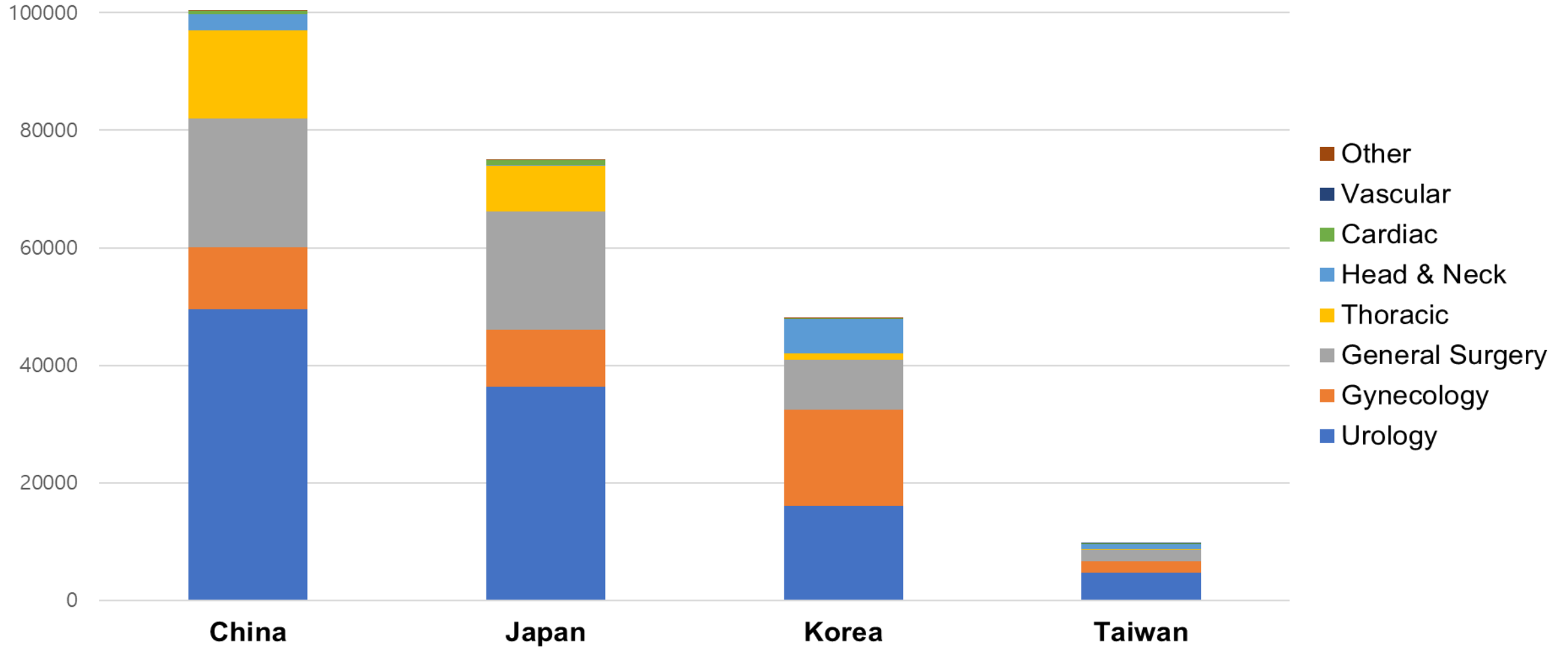
***Jiheum Paek**, MD, PhD*
Ajou University Hospital, Korea

I have no conflict of interests to disclose.

Global Robot Surgery in 2022



Asia Robot Surgery in 2022



Da Vinci Surgical System Installs in Korea

169 systems as of Jan 01, 2024



Da Vinci Si

8



Da Vinci Xi

106



Da Vinci X

25

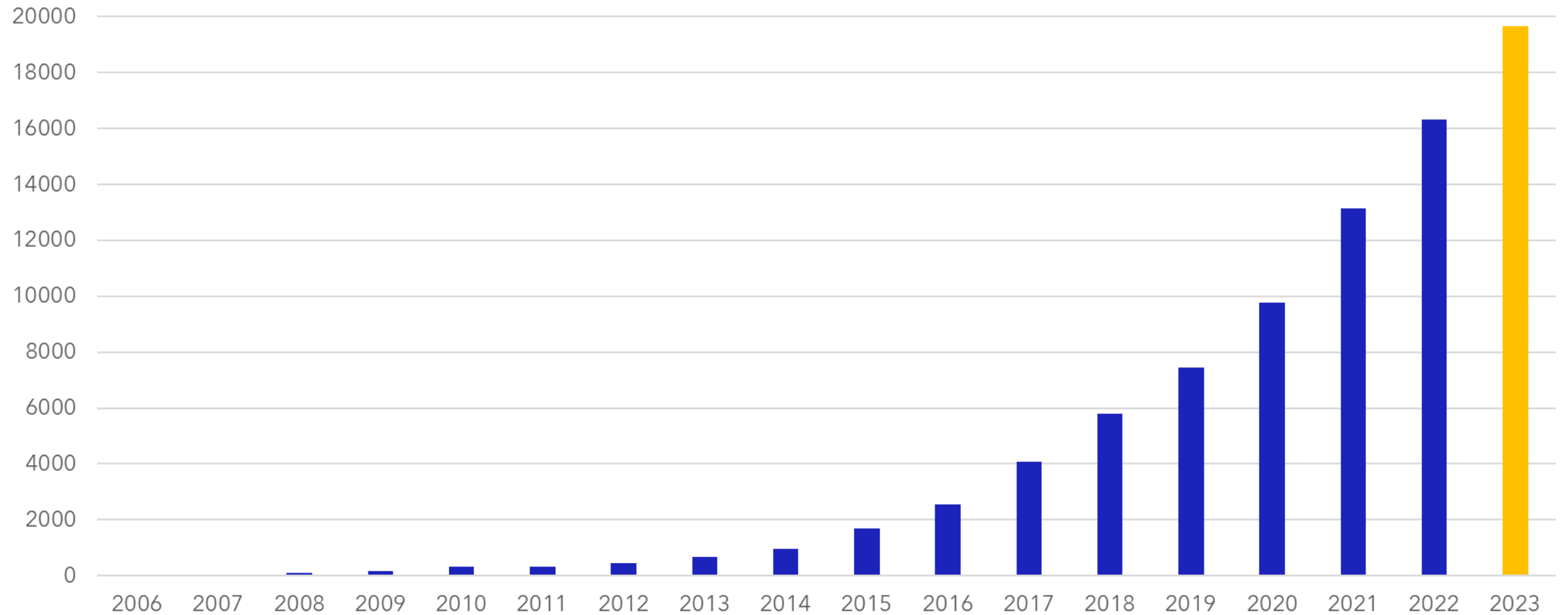


Da Vinci SP

30

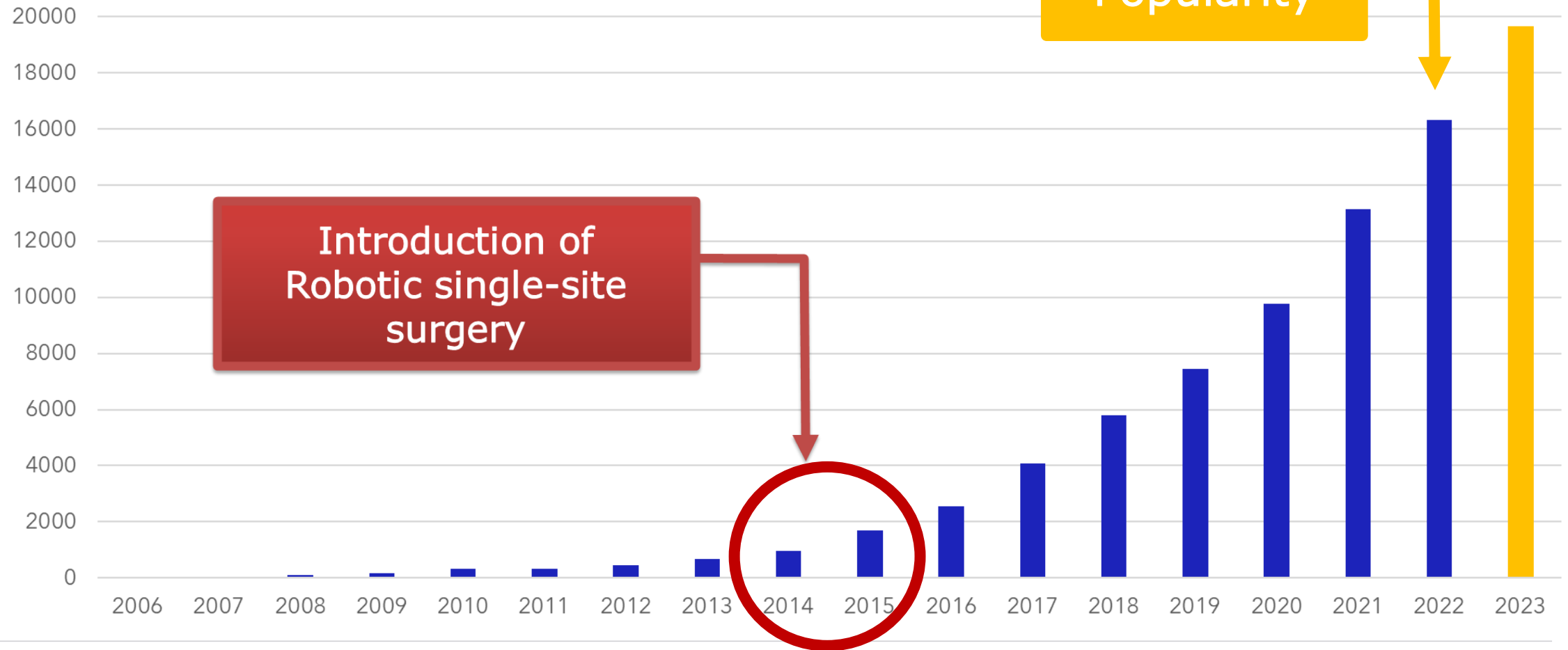
Korea procedure trend

Gynecology



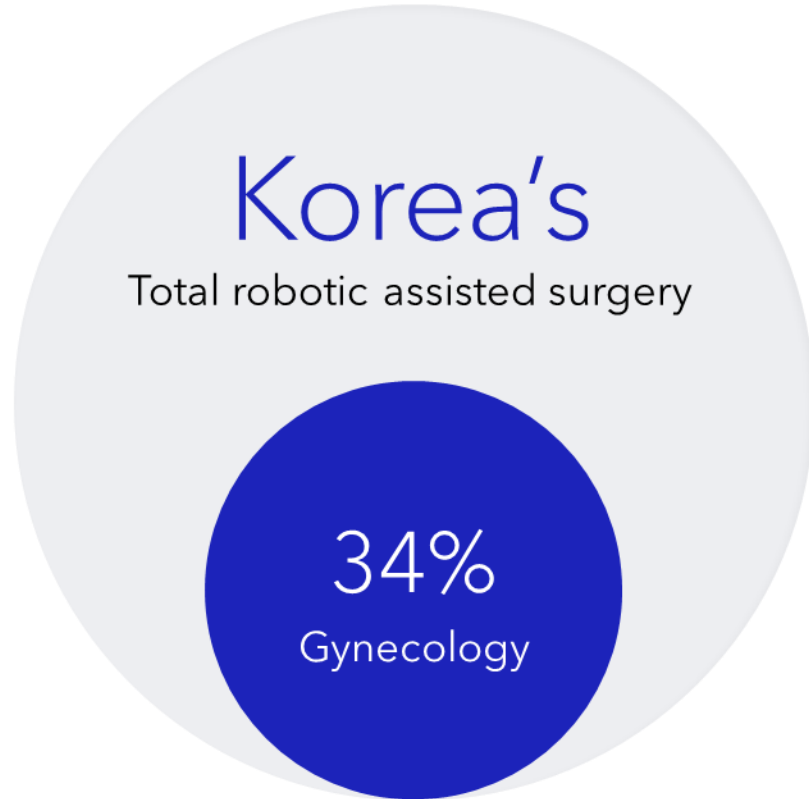
Korea procedure trend

Gynecology

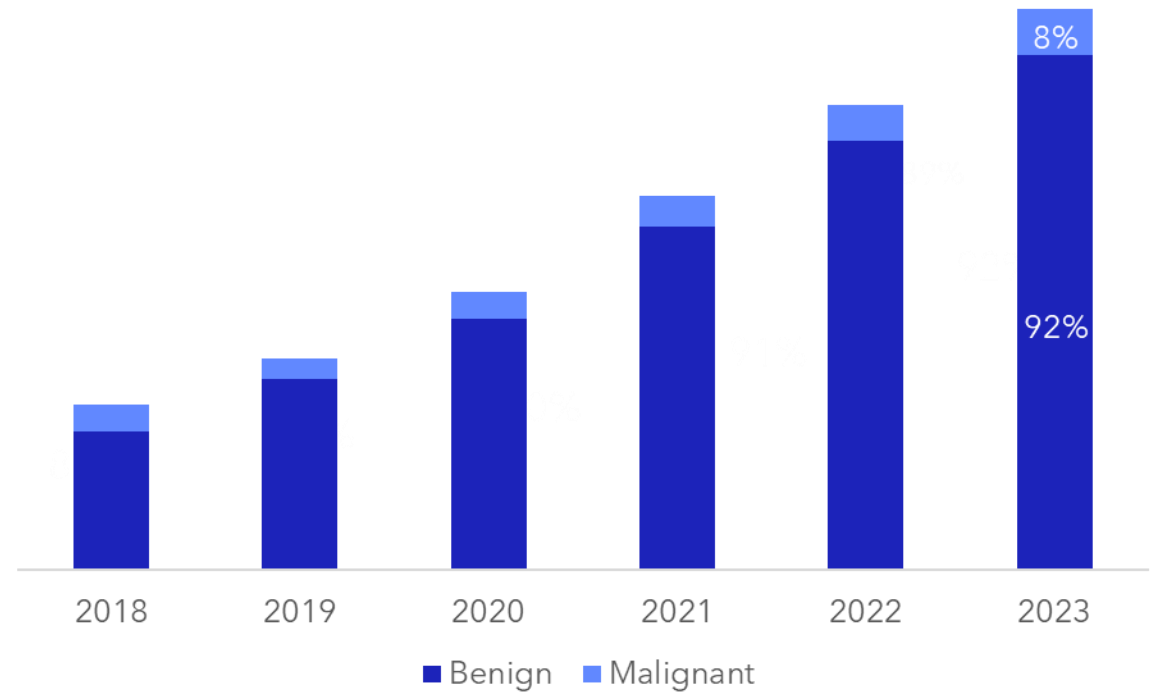


Korea procedure trend

Gynecology

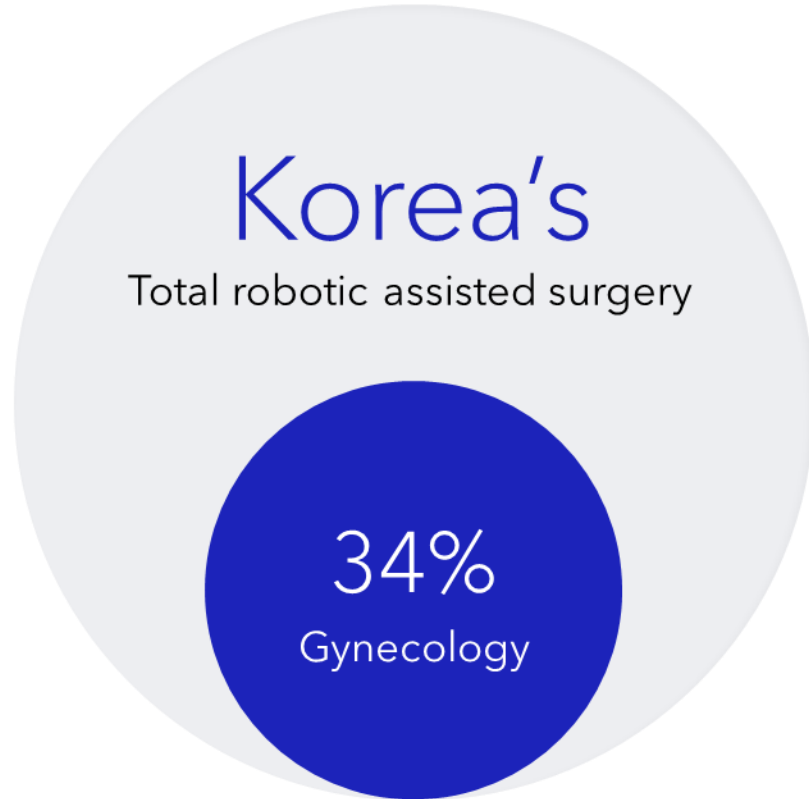


GYN Benign vs Malignant

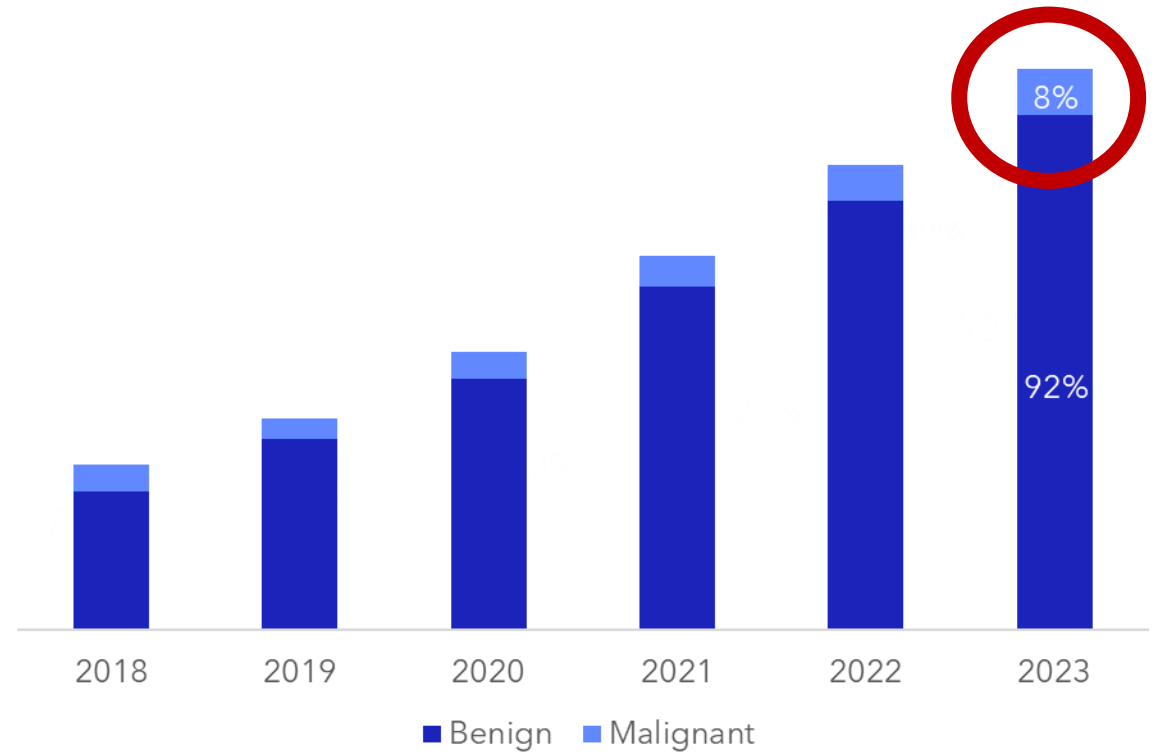


Korea procedure trend

Gynecology

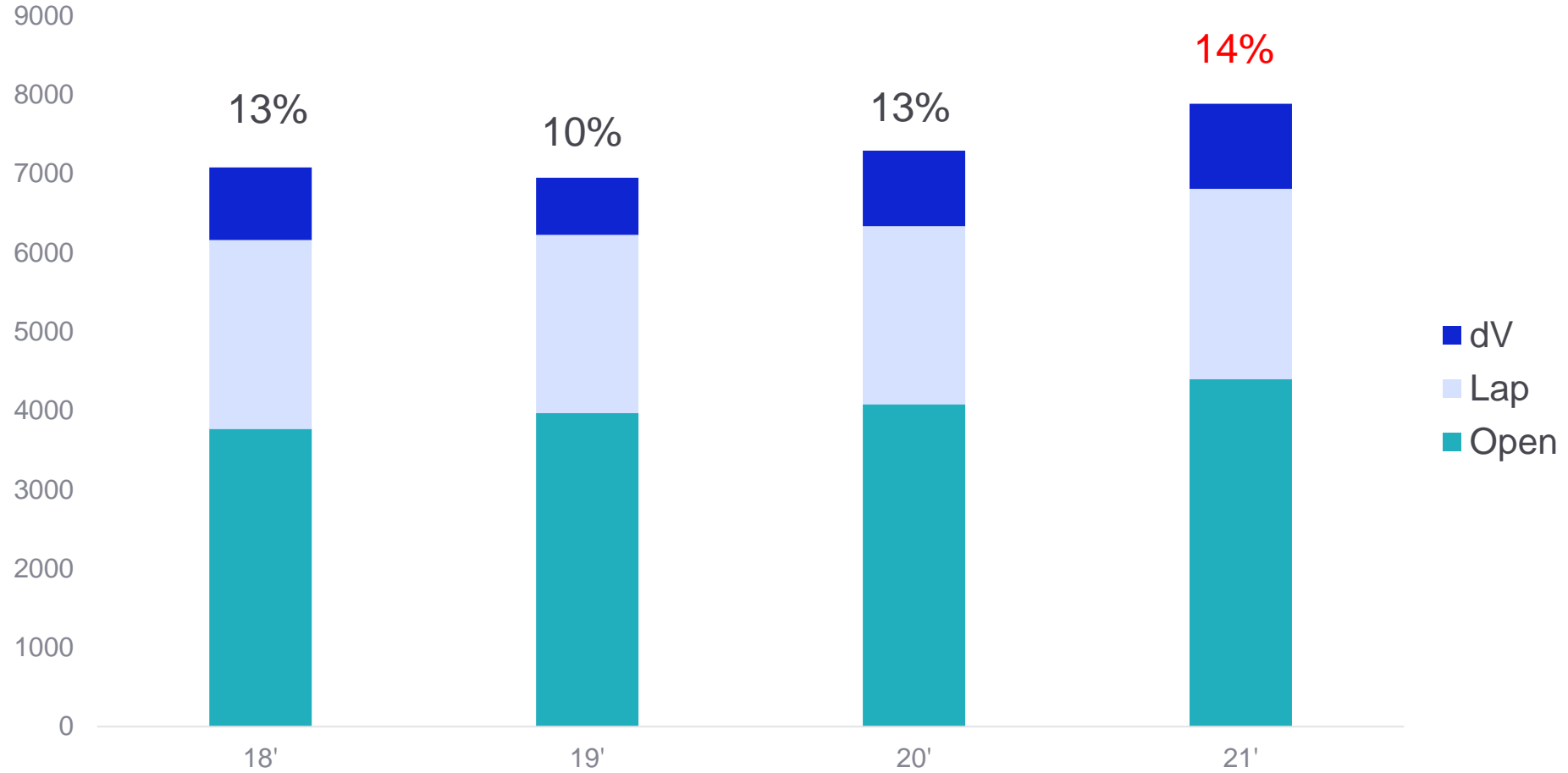


GYN Benign vs Malignant



Gynecology

Hysterectomy-malignant



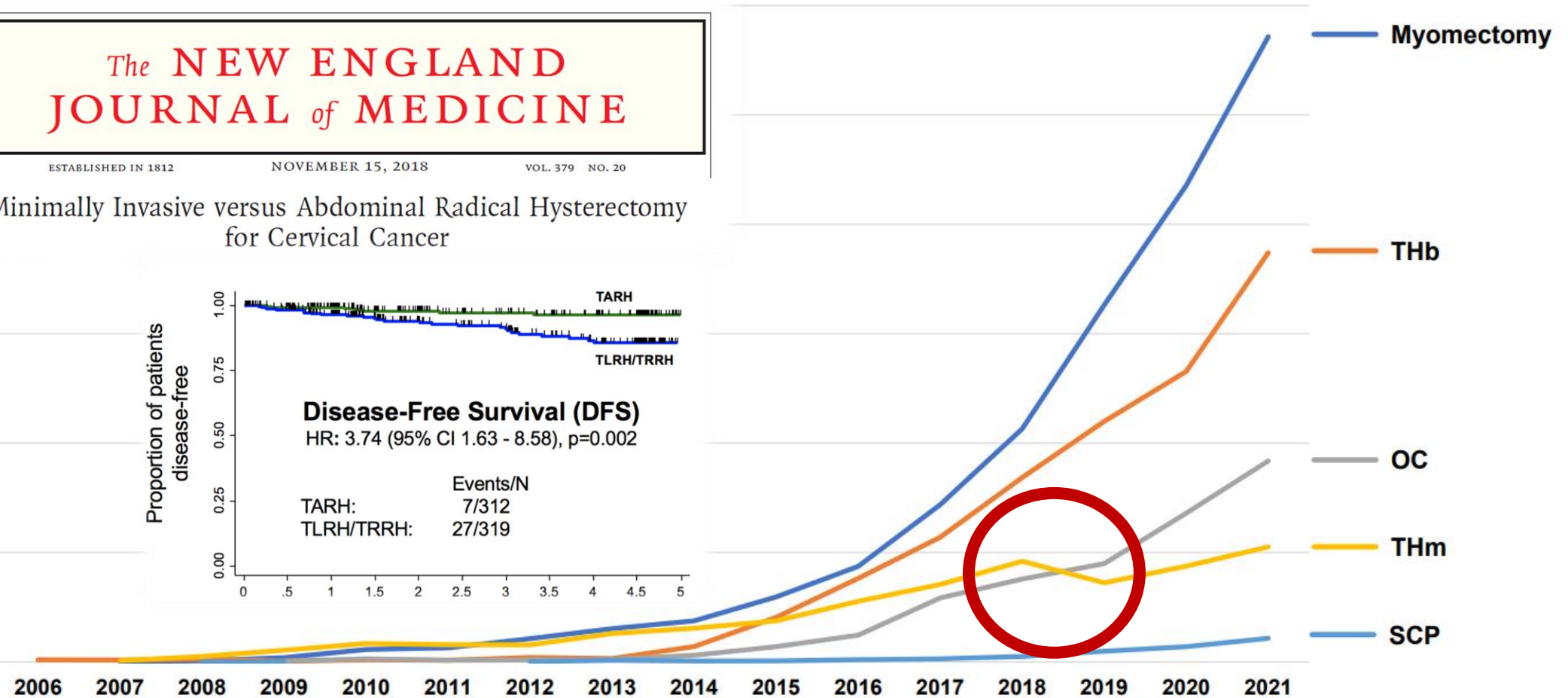
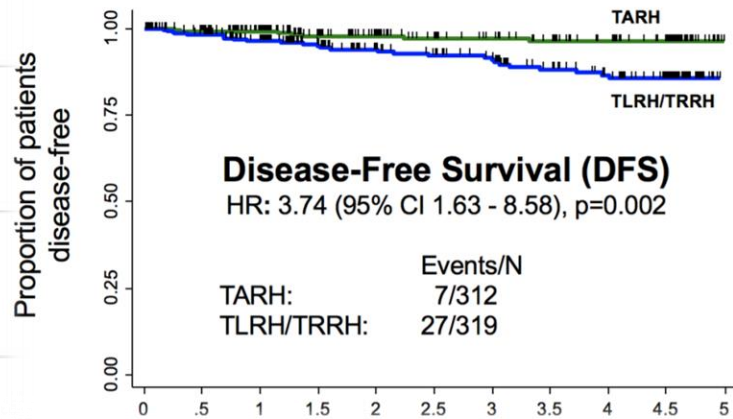
*Robotic surgery
in Cervical cancer*

Da Vinci Korean Gynecology Procedure Trend

5 of Major Procedure, 2006 - 2021



Minimally Invasive versus Abdominal Radical Hysterectomy for Cervical Cancer



Since LACC trial...

Minimize tumor spillage

No look, no touch
(no uterine manipulator/
intracorporeal colpotomy)
Conization before surgery
Only small tumor

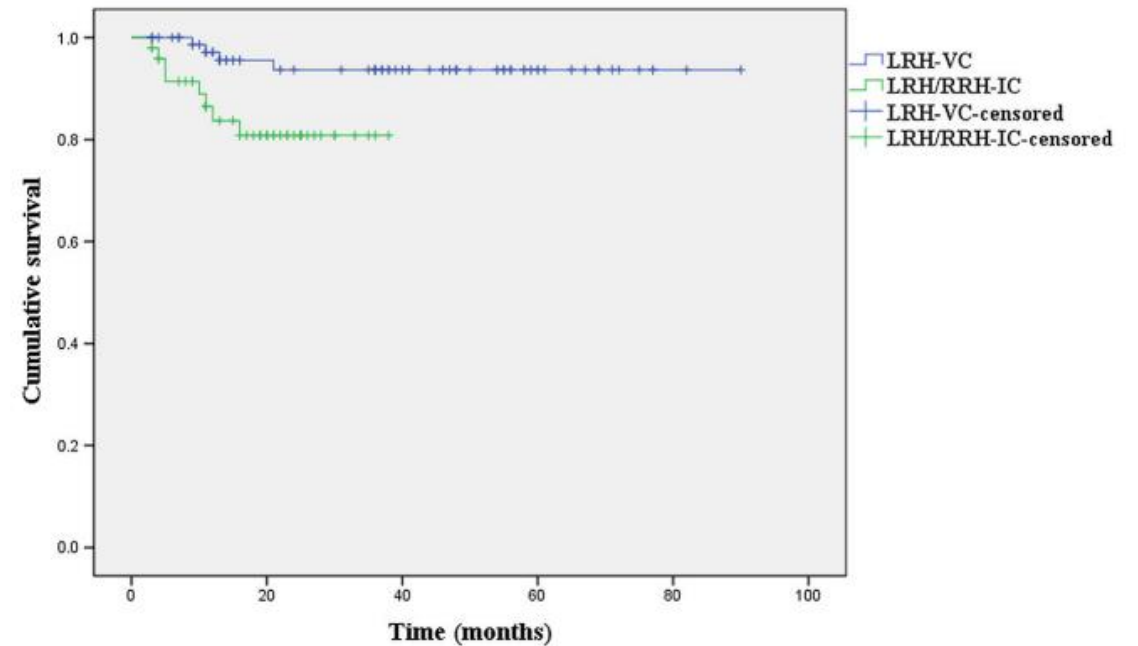
Patterns of recurrence and survival after abdominal versus laparoscopic/robotic radical hysterectomy in patients with early cervical cancer

Tae-Wook Kong^{1,2}, Suk-Joon Chang^{1,2}, Xianling Piao⁶, Jiheum Paek^{1,2}, Yonghee Lee^{1,3},
Eun Ju Lee^{1,4}, Mison Chun^{1,5} and Hee-Sug Ryu^{1,2}

¹Gynecologic Cancer Center, ²Department of Obstetrics and Gynecology, ³Pathology, ⁴Radiology, ⁵Radiation Oncology, Ajou University School of Medicine, and ⁶Ajou University Graduate School of Medicine, Suwon, Korea

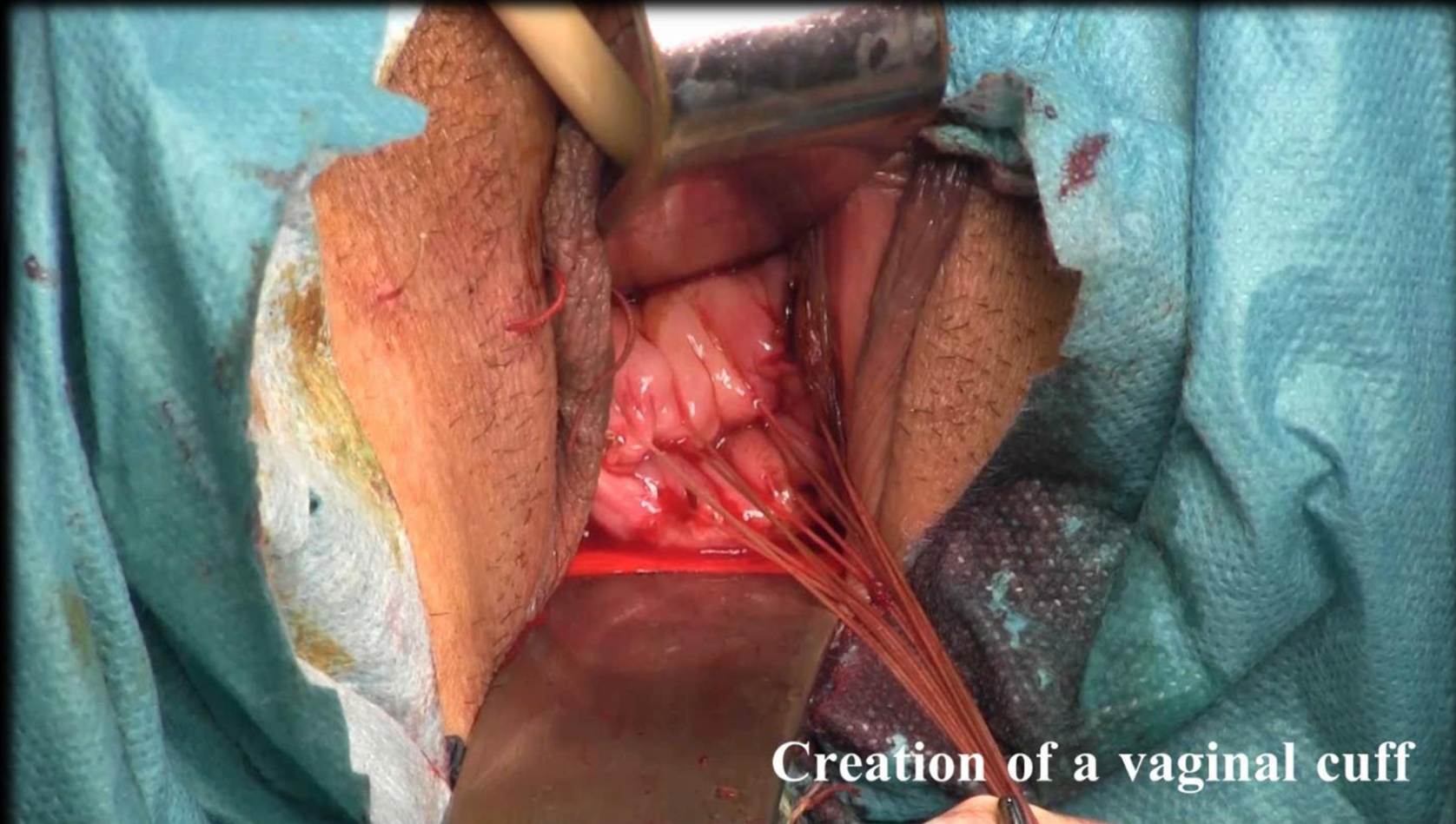
Patterns of recurrence and survival after abdominal versus laparoscopic/robotic radical hysterectomy in patients with early cervical cancer

Vaginal colpotomy vs. Intracorporeal colpotomy



✓ Creation of vaginal cuff

(No-look, no-touch technique by Dr. Kanao)



Since LACC trial...

Minimize tumor spillage

No look, no touch
(no uterine manipulator/
intracorporeal colpotomy)
Conization before surgery
Only small tumor

+

Get a proficiency of learning curve

Not number
Keep the consistent surgical
procedures



Research Paper

The early surgical period in robotic radical hysterectomy is related to the recurrence after surgery in stage IB cervical cancer

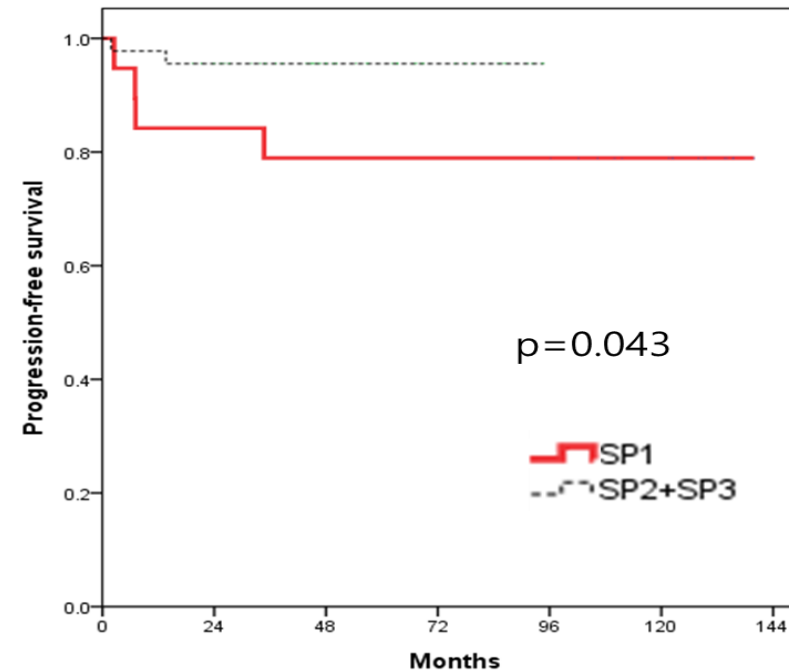
Jiheum Paek¹, Peter C. Lim²✉

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2. Department of Gynecology Oncology and Robotic Surgery, Center of Hope, University of Nevada, Reno School of Medicine, Reno, NV, USA.

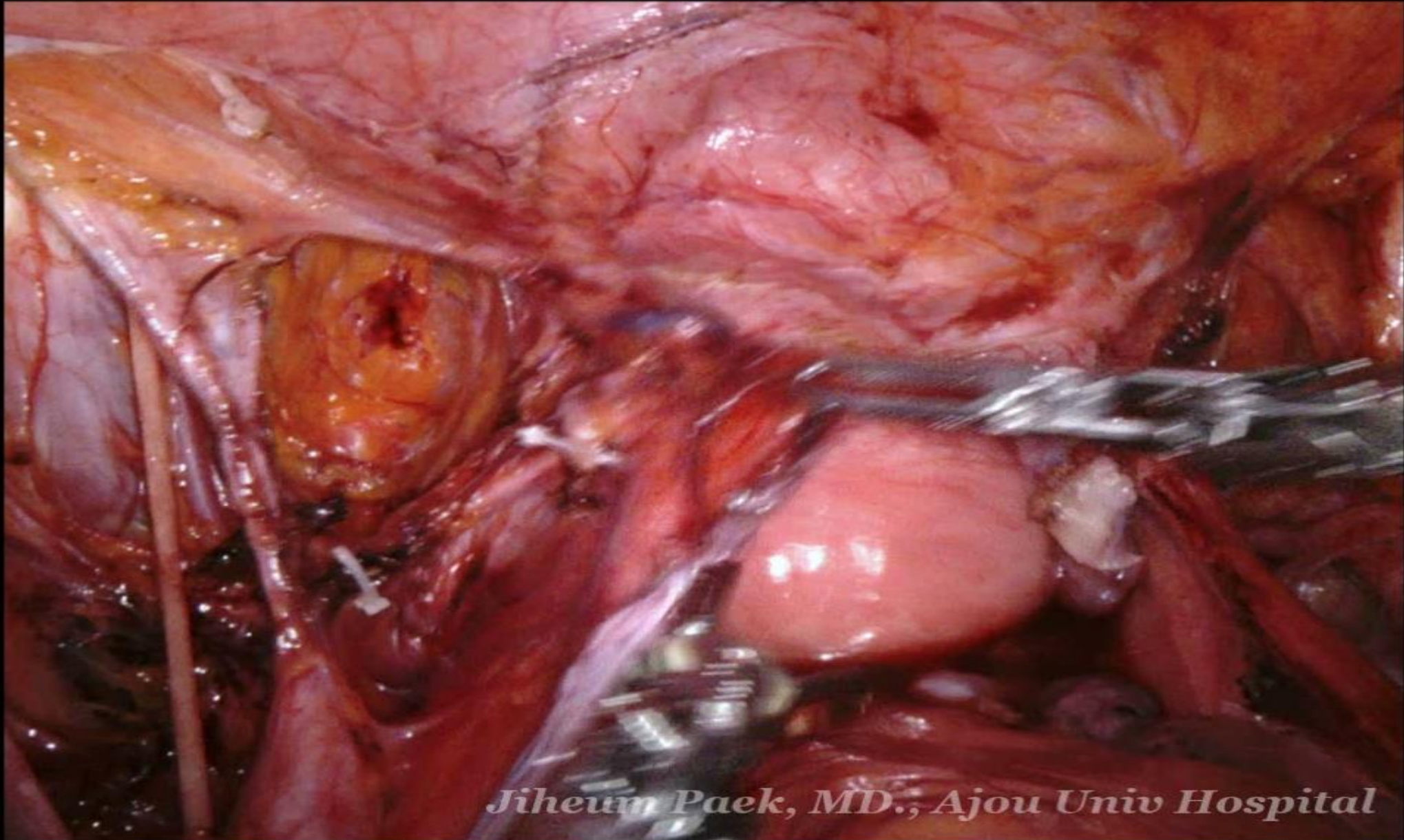
Research Paper

The early surgical period in robotic radical hysterectomy is related to the recurrence after surgery in stage IB cervical cancer

Early surgical period and Tumor size

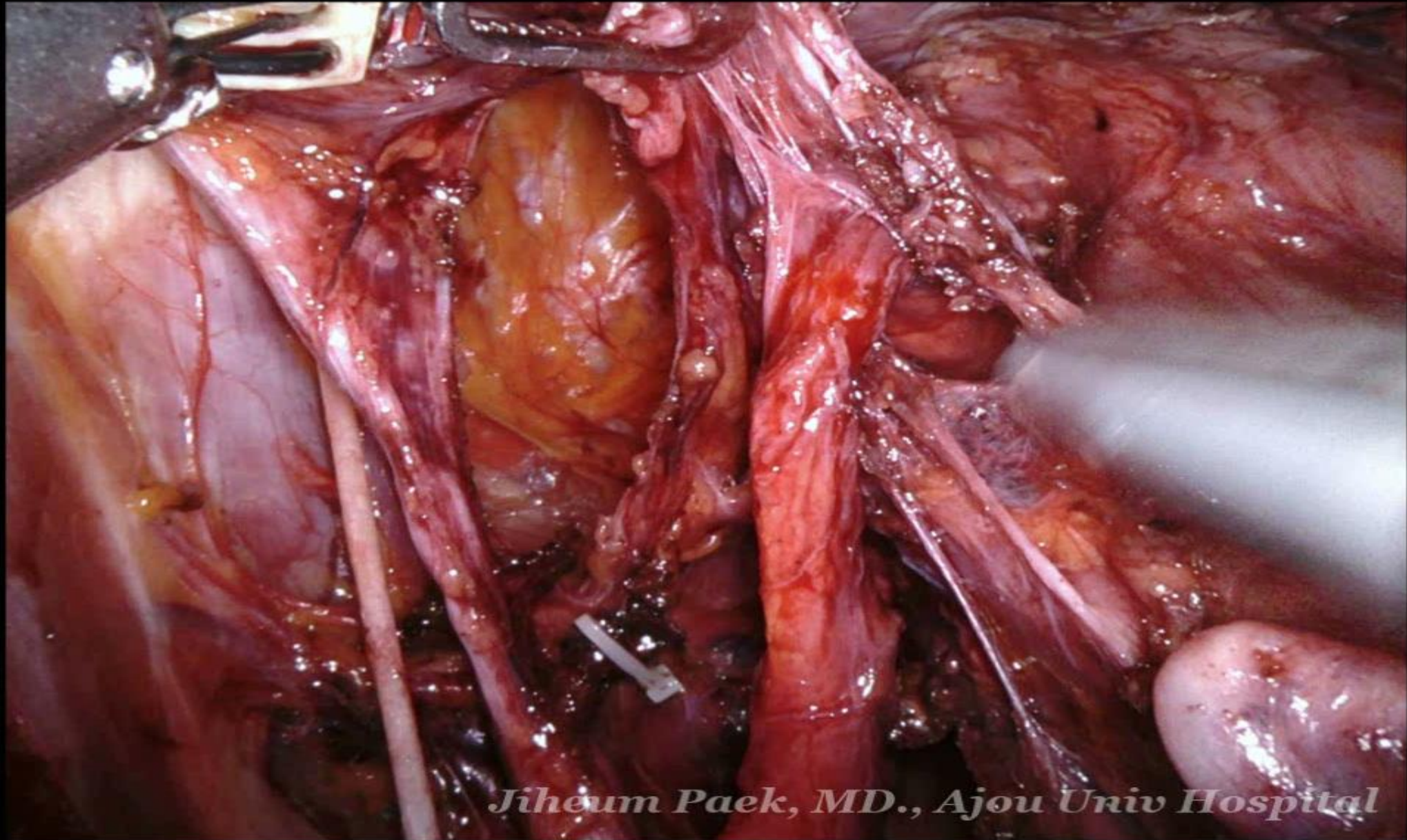


- Identifying the mesoureter



Jiheum Paek, MD., Ajou Univ Hospital

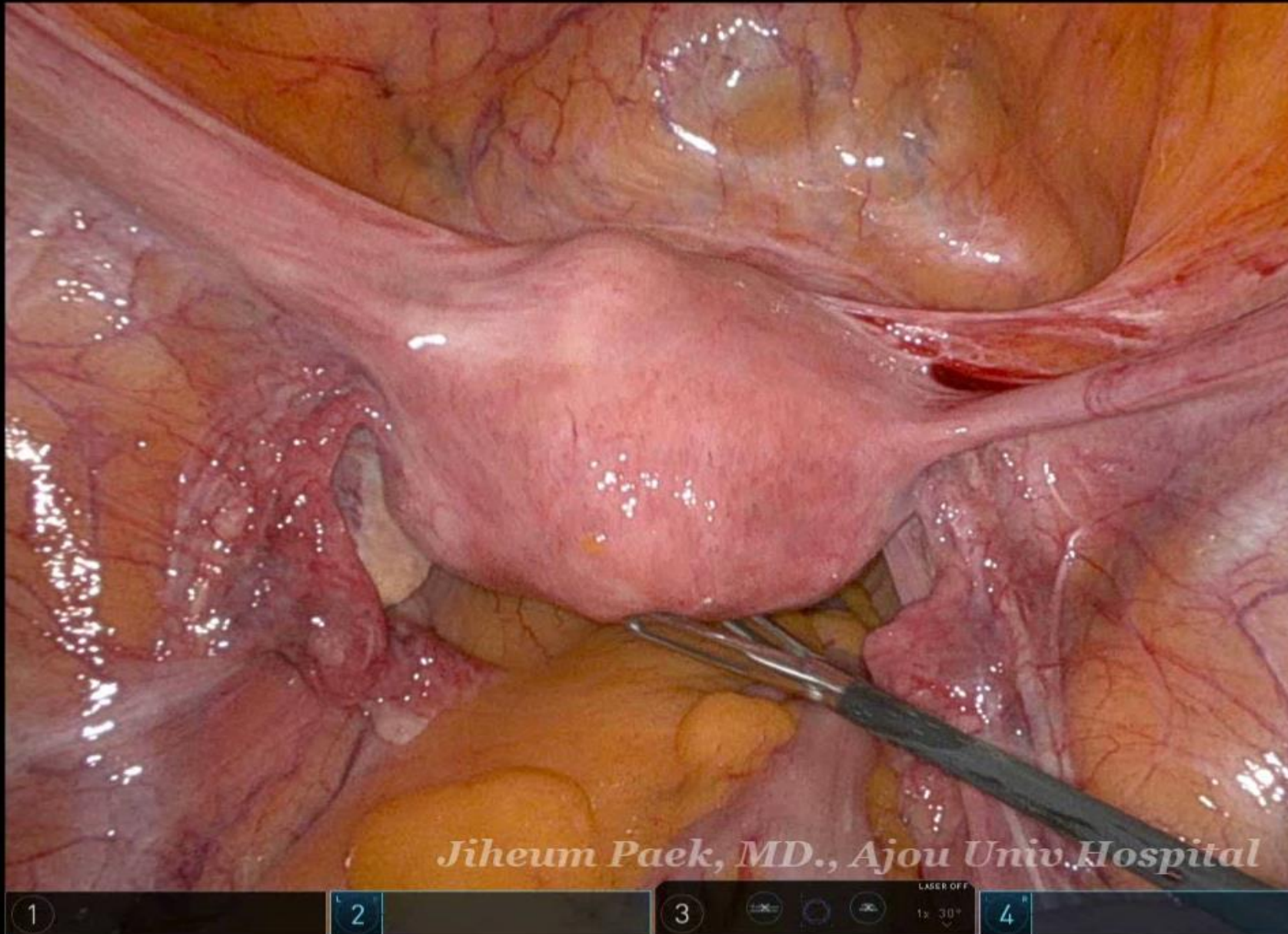
- Dissection of the vesicouterine ligament



Jiheum Paek, MD., Ajou Univ Hospital

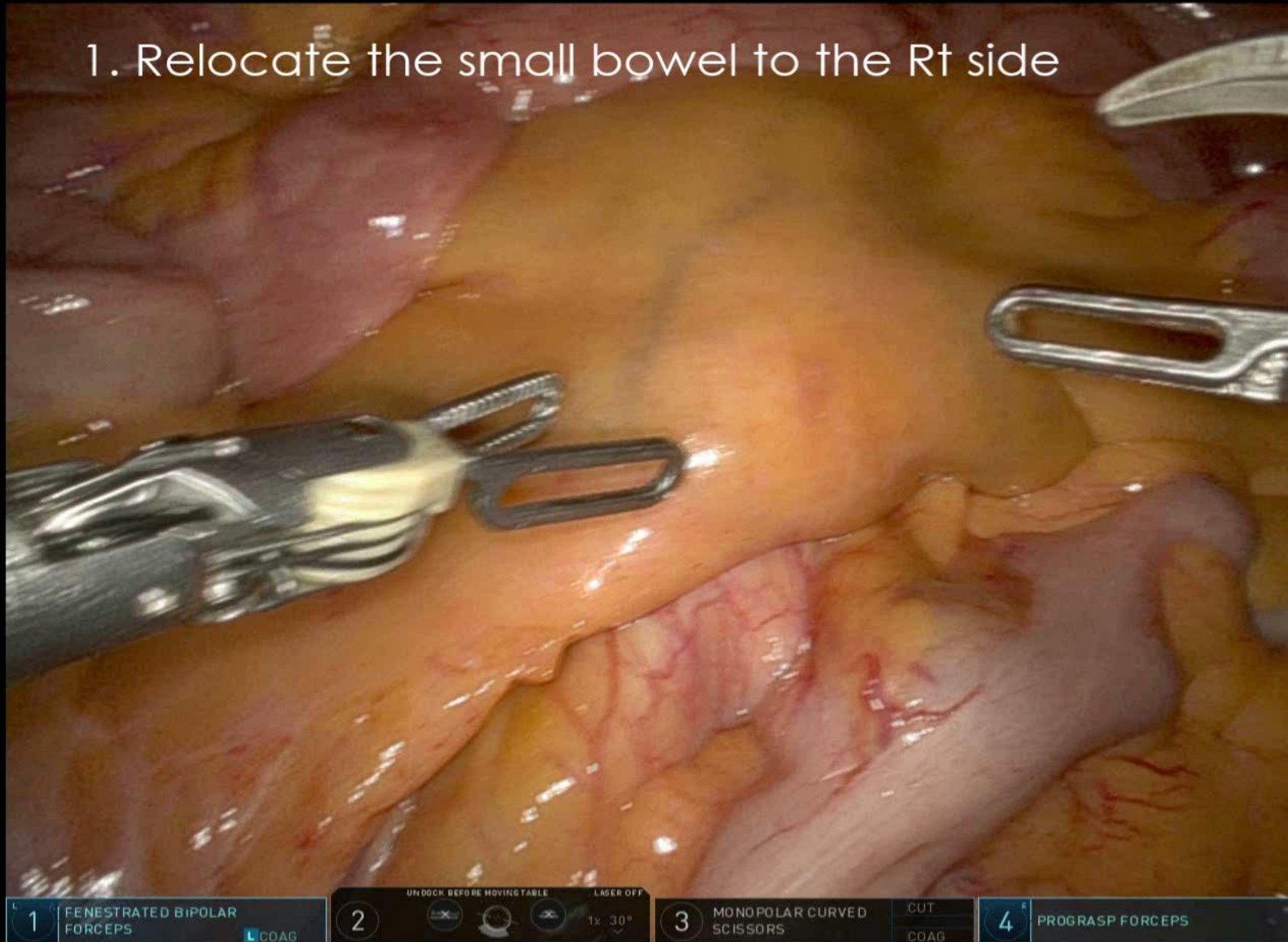
Robotic surgery
in Endometrial cancer

- Sentinel lymph node biopsy



- Upper paraaortic lymph node dissection

1. Relocate the small bowel to the Rt side



*Robotic surgery
in Ovarian cancer*

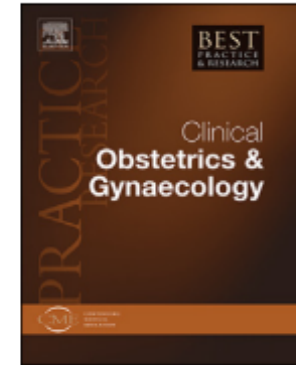


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3

Robotic surgery in ovarian cancer

Valerio Gallotta ^{a, *}, Camilla Certelli ^b, Riccardo Oliva ^b,
Andrea Rosati ^a, Alex Federico ^a, Matteo Loverro ^a,
Claudio Lodoli ^c, Nazario Foschi ^d, Konstantinos Lathouras ^e,
Anna Fagotti ^{a, b}, Giovanni Scambia ^{a, b}



1. Which of the following statements are false about minimally invasive surgery in early-stage ovarian cancer:

- (a) The use of minimally invasive surgery in early-stage ovarian cancer is a validated approach.
- (b) In robotic surgery working in different abdominal quadrants during surgical procedures such as lymphadenectomy and omentectomy is possible without re-docking.
- (c) The intraoperative capsule rupture affects the prognosis of patients with early-stage ovarian cancer.
- (d) Minimally invasive surgery provides advantages in fertility-sparing surgery considering fewer adhesions, reduced pelvic inflammation, and functional anomalies that could potentially impair fertility.
- (e) Minimally invasive surgery can be useful in the sentinel-node biopsy technique in early-stage ovarian cancer patients.

Is it feasible in ovarian cancer?

- ✓ Can robotic surgery **reproduce** the same surgical dissection and result **as open** procedure?

Factors that might **limit Robotic surgery** in advanced ovarian cancer

- ✓ The 'bulkiness of disease' and the location (Omental caking)
- ✓ The extent of disease (Peritoneal seeding)
- ✓ The location of disease (Diaphragm disease)

May have a **role** in...

- ✓ Primary debulking surgery in **early-stage** ovarian cancer
- ✓ 2ndary cytoreductive surgery for **isolated recurrent** disease

Final Thoughts



Robotic

Open

Laparoscopy

Surgical consistency & reproducibility !!



KSGE International Conference 2024

Korean Society of Gynecologic Endoscopy

“Harmonizing Expertise Towards Global Excellence”

October **4**(Fri.)-**5**(Sat.), 2024 Seoul Dragon City, Korea



Abstract Submission Deadline
May 31, 2024 (Friday)

Early Bird Registration Opens
in March



The Korean Society of Gynecologic Endoscopy

paek.md@gmail.com