



神戶(Ashie)の医療施設
<http://www.ashie.com>

Robotic assisted Laparoscopic Sacrocolpopexy

達文西膀胱脫垂陰道薦骨重建手術

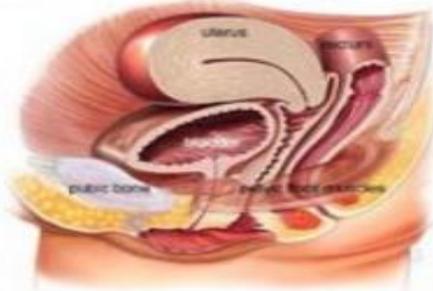
林威宇醫師 嘉義長庚醫院



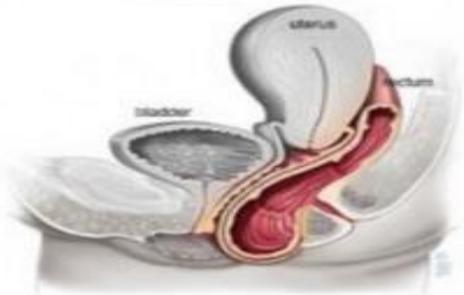
Epidemiology



Normal Anatomy



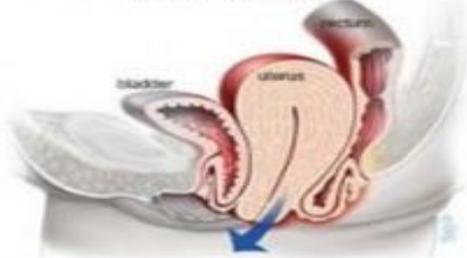
Posterior Compartment Prolapse (Rectocele)



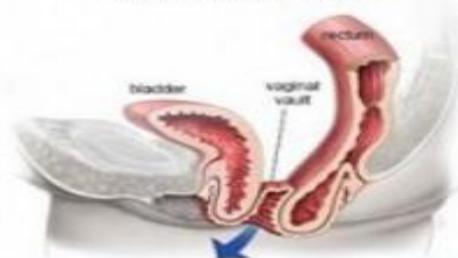
Anterior Compartment Prolapse (Cystocele)



Uterine Prolapse



Vaginal Vault Prolapse



- Pelvic organ prolapse includes
 - anterior** vaginal wall prolapse (urethrocele, cystocele)
 - posterior** vaginal wall prolapse (enterocele, rectocele)
 - prolapse of the **apical segment** of the vagina (cervix/uterus, cuff or vault prolapse)
- A woman can present with prolapse of **one or more** of these compartments
- Conservative management of pelvic organ prolapse in women (Review)
- 2009 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd.

Pelvic Organ Prolapse

Epidemiology

- Pelvic organ prolapse is common and is seen in **50%** of parous women
- One recent community survey found that **40%** of the general female population aged **45 to 85 years** had evidence of pelvic organ prolapse of at **least stage two** (within 1 cm above or below the hymen)
- Around **10%** of women in the community **undergo surgery** at some time in their lives for the management of prolapse
- **Conservative management of pelvic organ prolapse in women (Review)**
- **2009 The Cochrane Collaboration. Published by JohnWiley & Sons, Ltd.**

Pelvic Organ Prolapse

Aetiology

- The aetiology of pelvic organ prolapse is **complex and multi-factorial**.
- **Risk factors include**
 - pregnancy, childbirth,
 - congenital or acquired connective tissue abnormalities,
 - denervation or weakness of the pelvic floor,
 - ageing, menopause and
 - factors associated with chronically raised intra-abdominal pressure
(e.g. **chronic constipation, heavy lifting , obesity**)
 - Previous hysterectomy**

- **Conservative management of pelvic organ prolapse in women (Review)**
- **The Cochrane Collaboration. Published by JohnWiley & Sons, Ltd. 2009**
- **ICS committee 5 2002**

Pelvic Organ Prolapse

Symptoms

- **pelvic heaviness; dragging sensation** in the vagina; backache
bulge, lump or protrusion coming down from the vagina;
- Symptoms of bladder, bowel or sexual dysfunction are frequently present.
- These symptoms may **be related to** the prolapsed organ
(e.g. **poor urinary stream** when a cystocele is present or
constipation when a rectocele is present) or
- may be **independent** of the prolapse
(e.g. symptoms of **overactive bladder** when a cystocele is present
- **Conservative management of pelvic organ prolapse in women (Review)**
- **The Cochrane Collaboration. Published by JohnWiley & Sons, Ltd. 2009**

Pelvic Organ Prolapse

Urinary Symptoms

- Women with anterior vaginal wall support defects often have **bladder neck hypermobility** with **genuine stress incontinence**
- However, with **greater degrees** of anterior vaginal wall prolapse (Stage III and IV) **fewer** women have symptoms of **genuine stress incontinence** .
- Severe prolapse can descend and **obstruct the urethra**, making assessment and management of the continence mechanism in such patients problematic
- Multiple studies have described **an occult incontinence rate** after various methods of reducing the prolapse during preoperative testing of **23-50%**
- **ICS committee 5 2002**

2016腹腔鏡薦骨陰道懸吊術對骨盆脫垂婦女下泌尿道症狀的改善結果

Age	Preop IPSS	Postop IPSS	G/P	Qmax/VV/PVR Pre op	Qmax/VV/PVR Post op
65	Noct 5	1	6/6	22/116/14	13/155/0
61	retention	x		0/2/366	5/49/42
43	Noc 20	5	3/3	18/221/0	
65	30	7	5/5	14/348/210	12/177/34
74	Noc 14	0	5/5	12/107/160	7/148/290
57	Recurrent UTI	x	3/3	15/335/129	20/266/12
56	18	7	2/2	12/163/191	30/372/39
55	Fre 5	0	4/4	4/70/0	18/397/25
75	AUR	x		6/99/272	9/137/112
72	35	12		5/115/580	14/177/172
51	35	13	5/5	11/255/184	14/207/83

國家品質標章

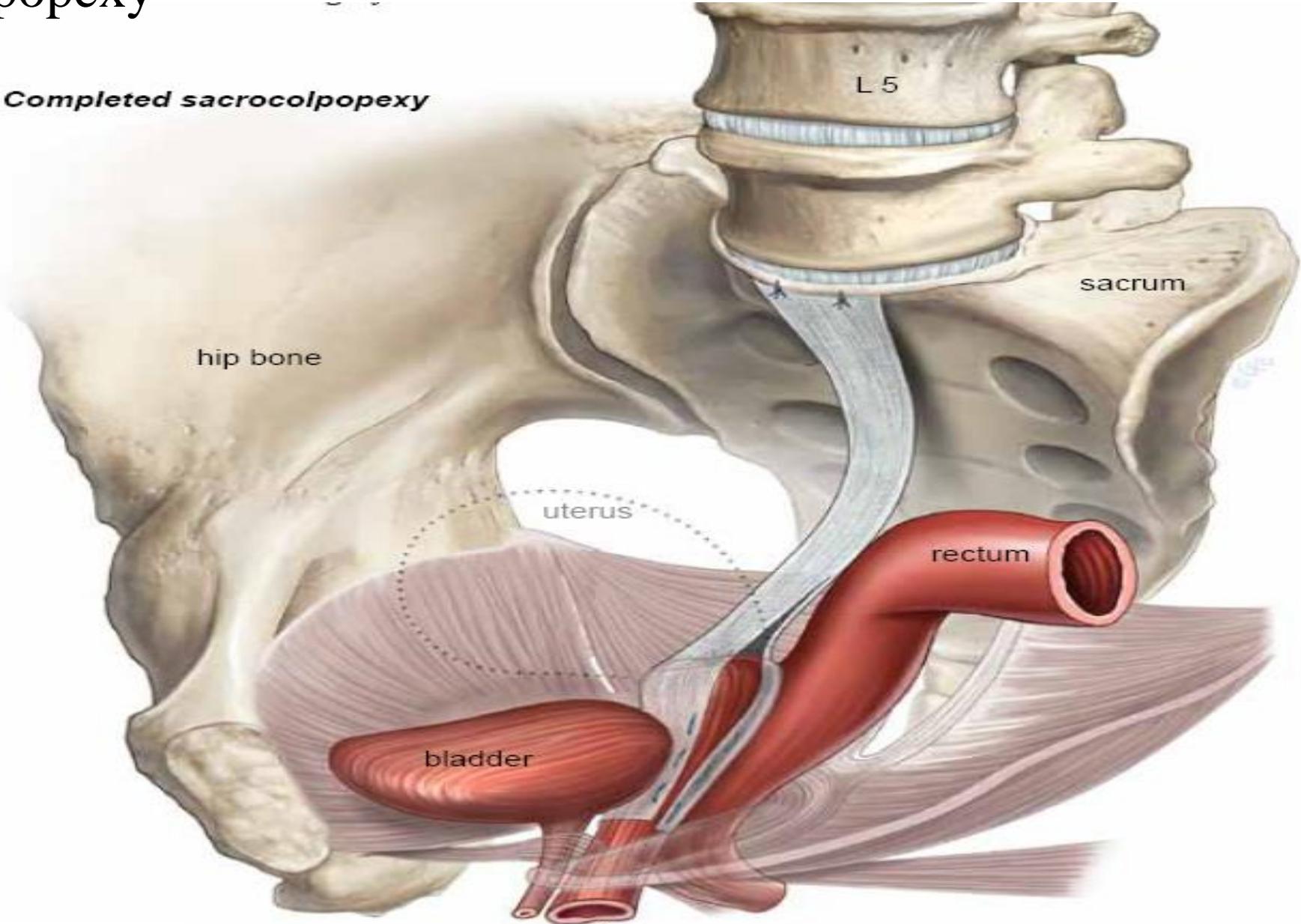
活得久，活得好—

銀髮族「排尿障礙」的 微創治療與重建手術



Abdominal sacrocolpopexy

Completed sacrocolpopexy



79 y/o female

CC: recurrent cystocele

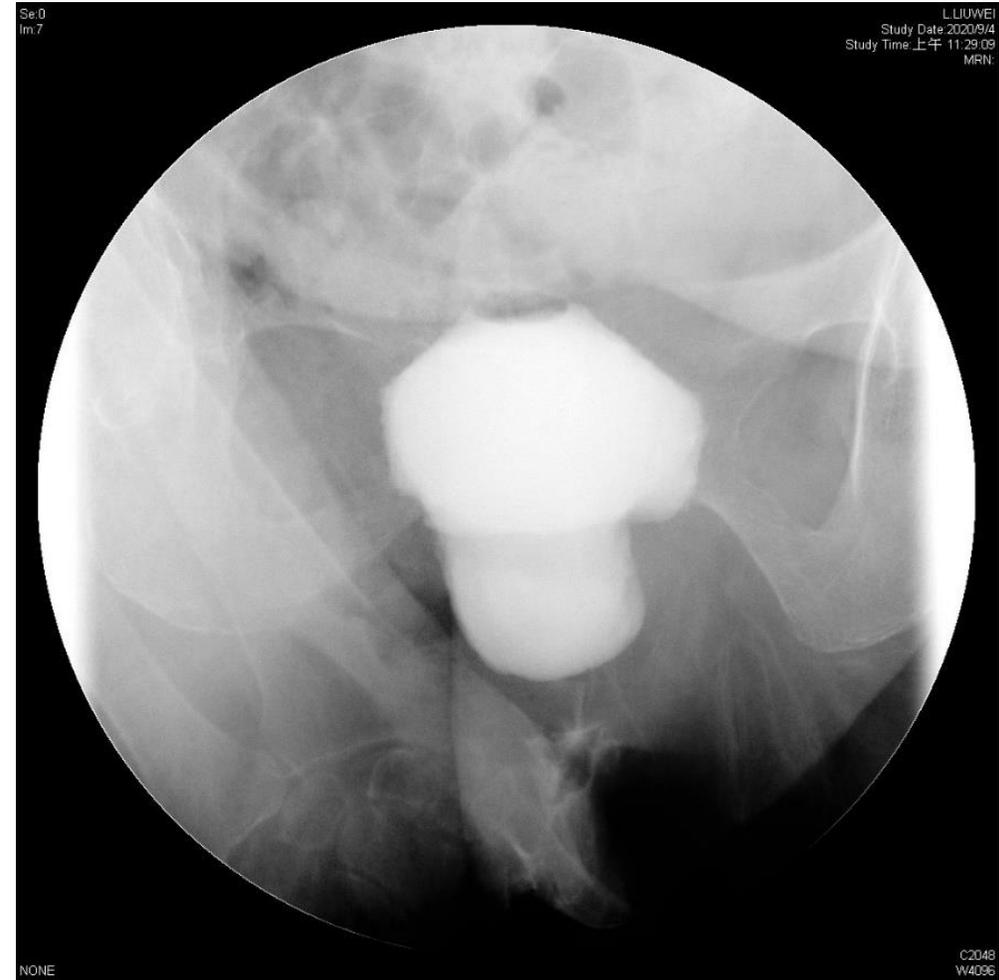
Voiding difficult

PH:

cystocele post transvaginal colporrhaphy 2017.3

SUI s/p TVT 2017.5

uterous myoma s/p hysterectomy 2010



VCUG 2020.9

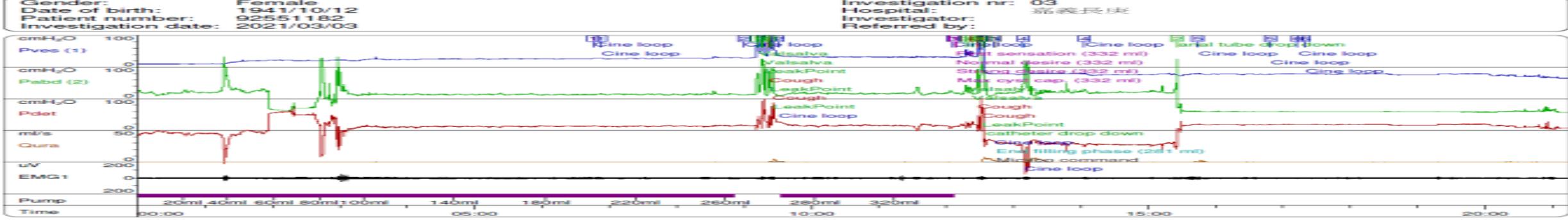
79 y/o female CC: recurrent cystocele
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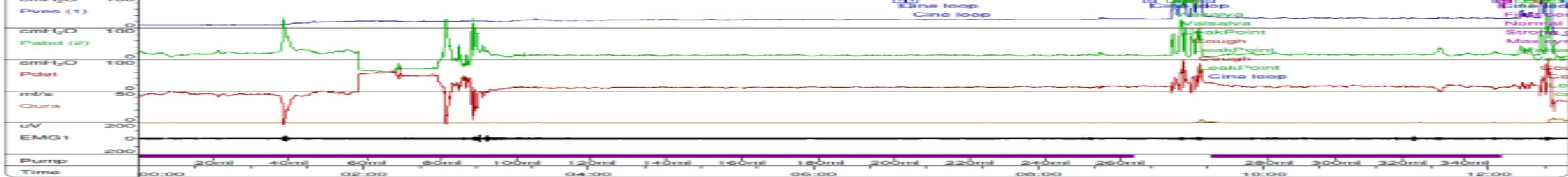
Uroflow Qmax7 vol 107, PVR 103

Pressure-flow study report

林劉委(U), 林威宇R



Filling phase graph



Filling phase results

Infused volume	353 ml
Volume lost through leakage	72 ml
Bladder filling	281 ml
Maximal vesical pressure	202 cmH ₂ O
Maximal abdominal pressure	145 cmH ₂ O
Maximal detrusor pressure	104 cmH ₂ O
Maximal urethral pressure	-
Specific gravity infused liquid	1009 g/l

Sensation results

Sensation	Bladder filling	Vesical pressure	Detrusor pressure
First sensation	33 ml	31 cmH ₂ O	12 cmH ₂ O
Normal desire	33 ml	31 cmH ₂ O	15 cmH ₂ O
Strong desire	33 ml	31 cmH ₂ O	15 cmH ₂ O
Max cyst cap.	33 ml	31 cmH ₂ O	14 cmH ₂ O

79 y/o female CC: recurrent cystocele
Voiding difficult

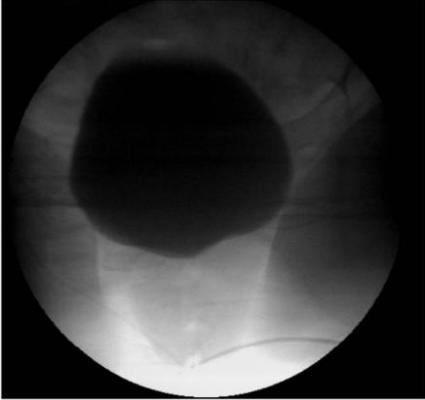
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Pressure-flow study report

林劉委(U), 林威宇R

Gender:	Female	Investigation nr:	03
Date of birth:	1941/10/12	Hospital:	嘉義長庚
Patient number:	92551182	Investigator:	
Investigation date:	2021/03/03	Referred by:	

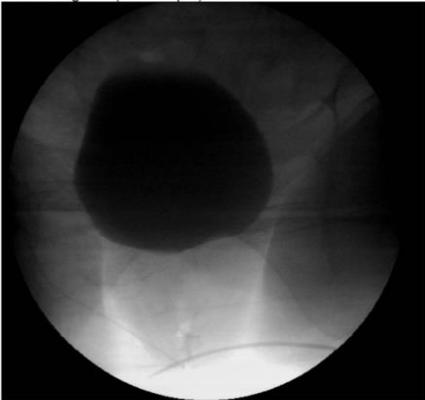
Video image 1 (Cine-loop 4)



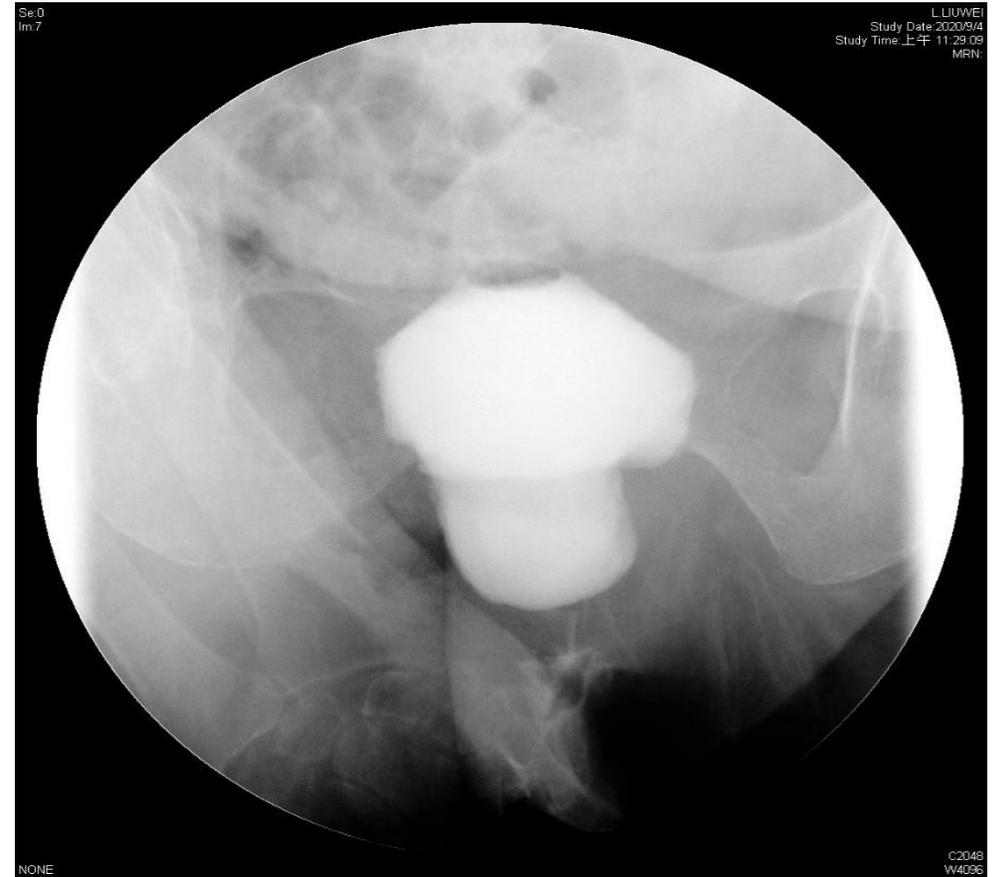
Video image 16 (Cine-loop 4)



Video image 87 (Cine-loop 4)

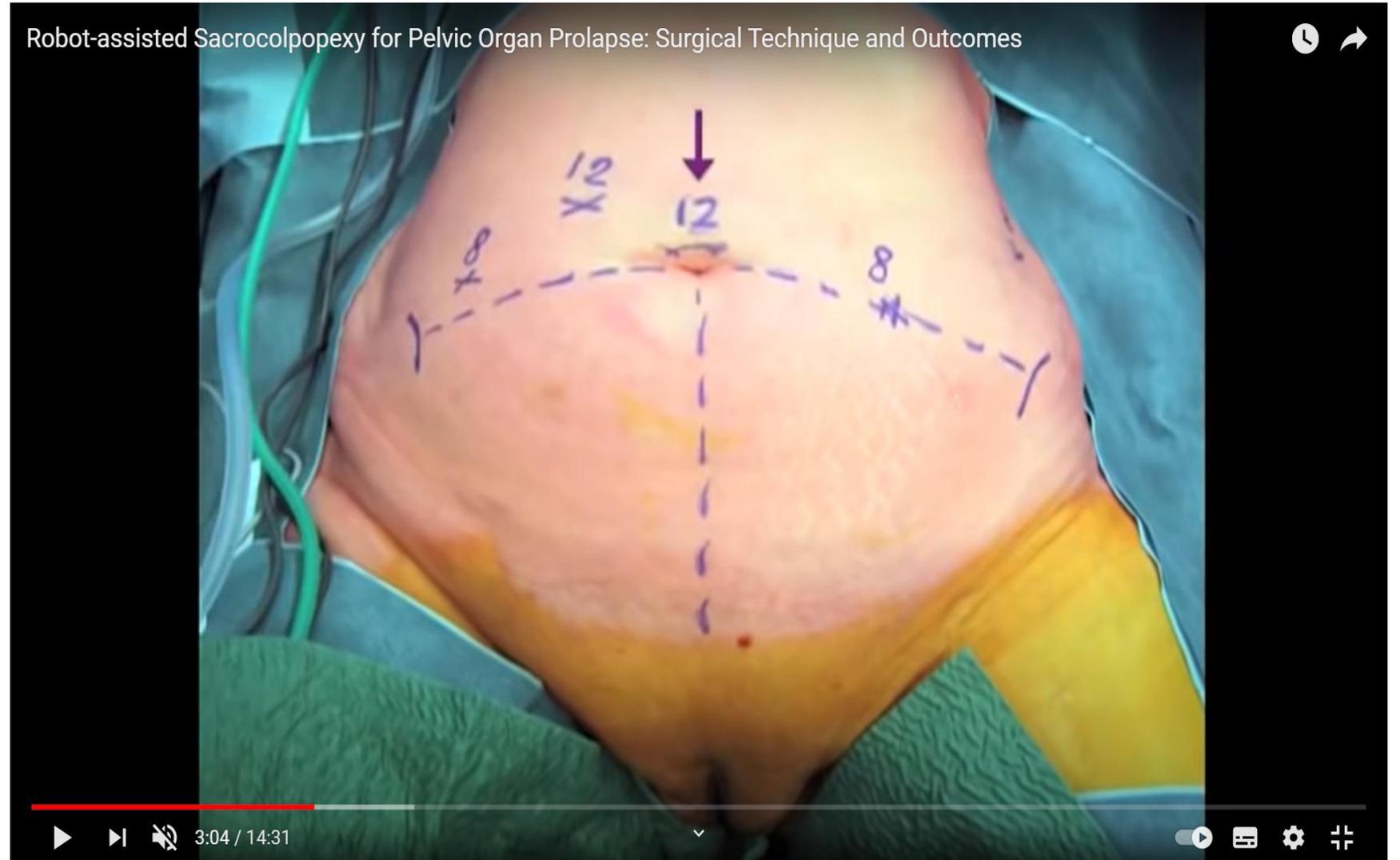
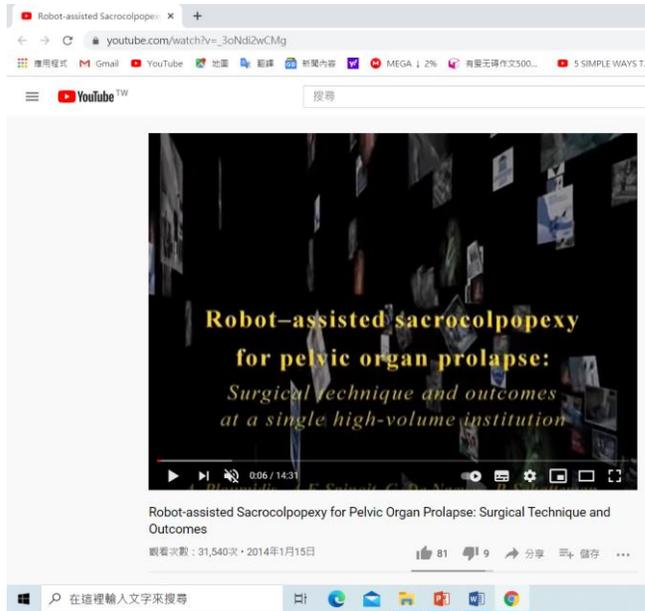


VCUG 2020.9



Patient Positioning

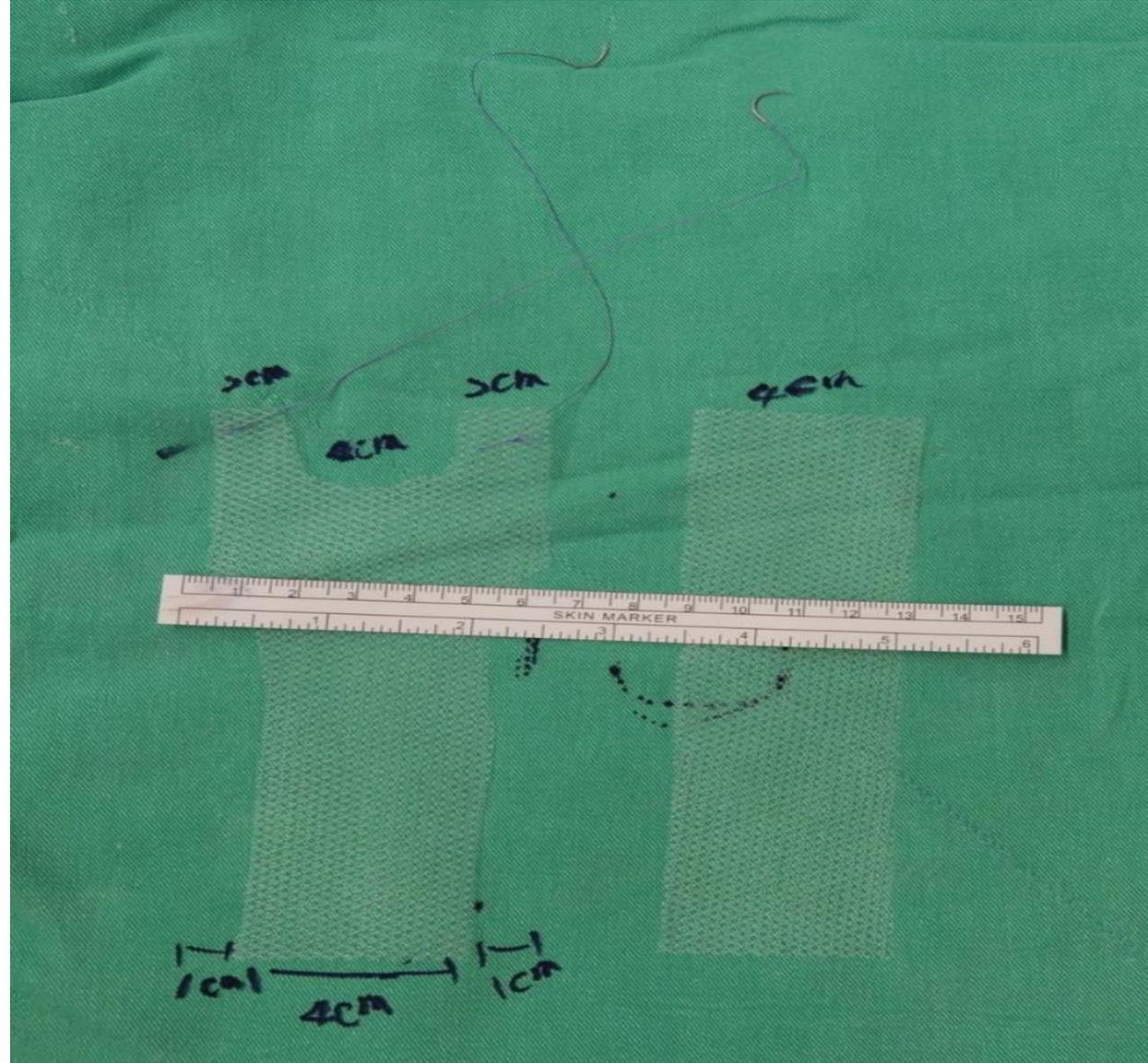
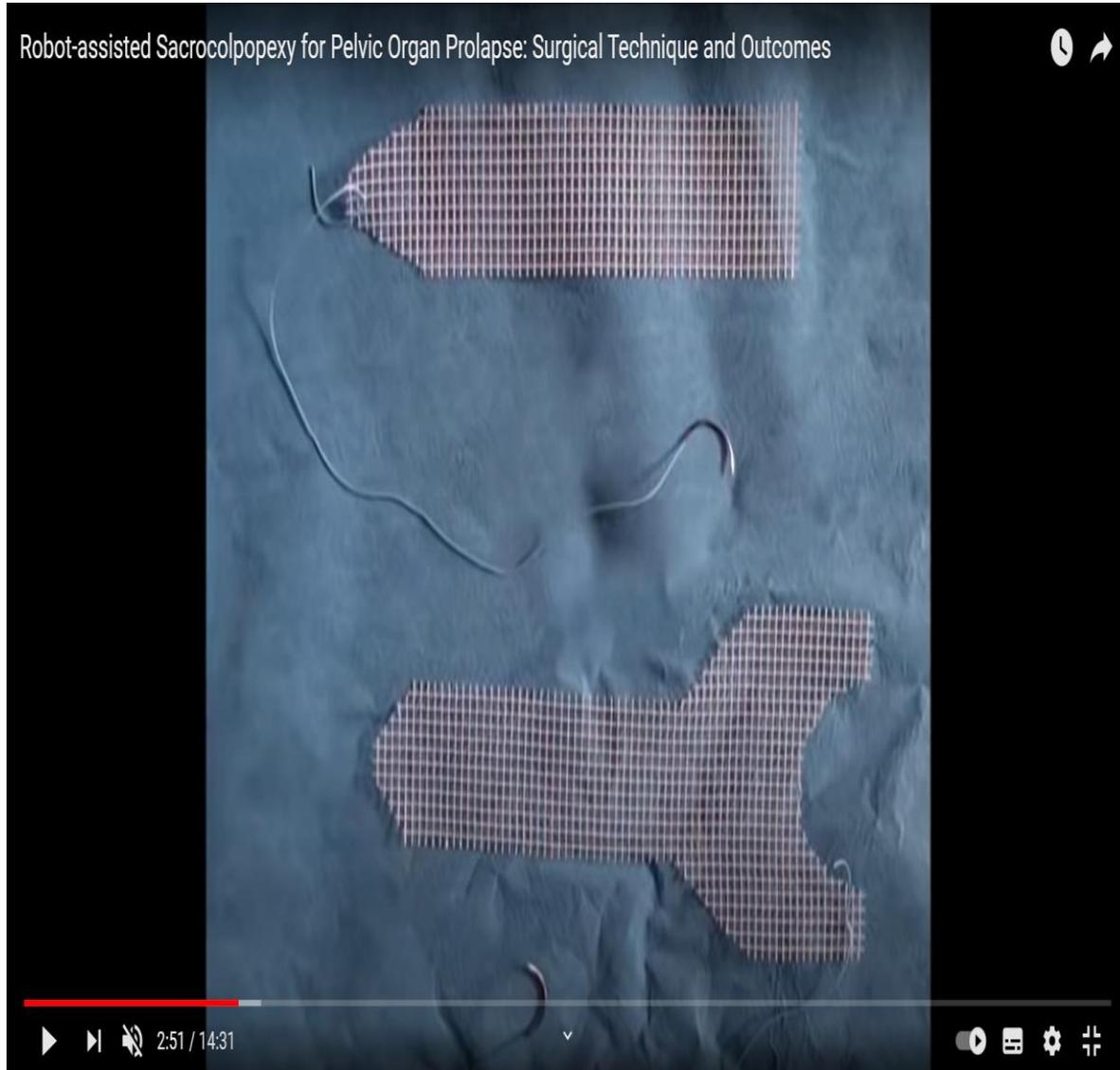
Port Placement



87 y/o female

pelvic organ prolapse for 30 years
reduction with hand

on diapper 3/day
G5P5 NSD

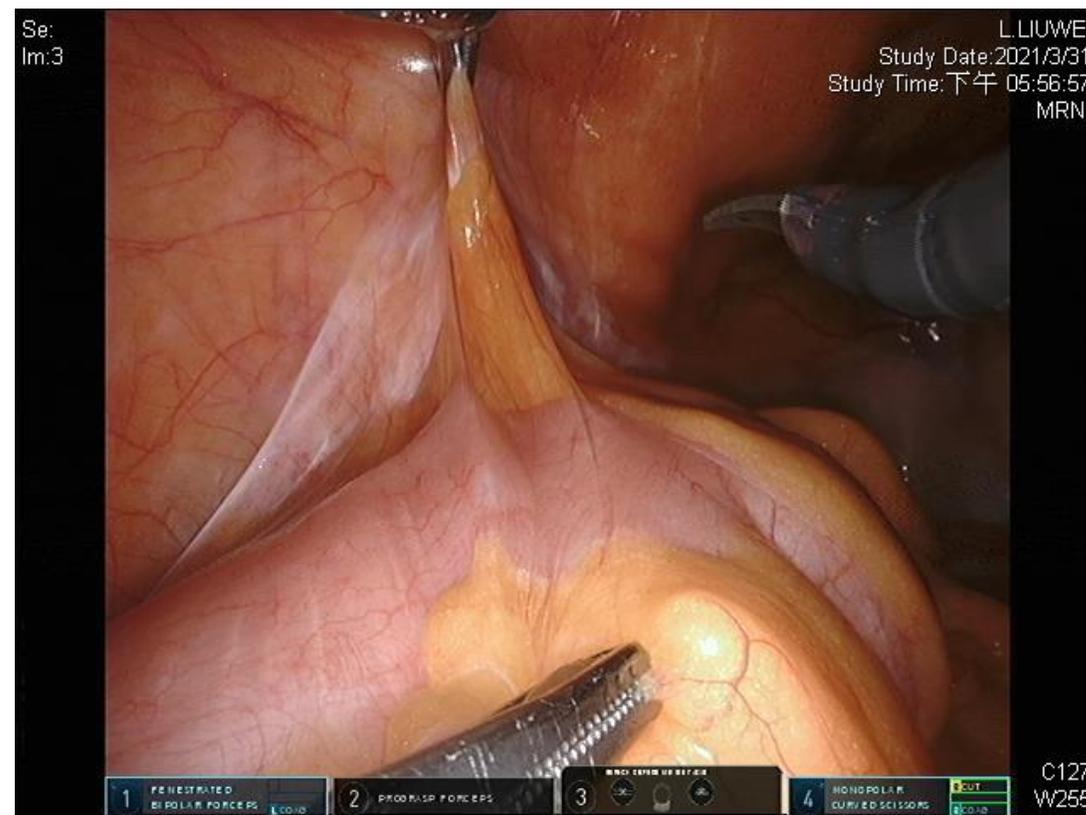
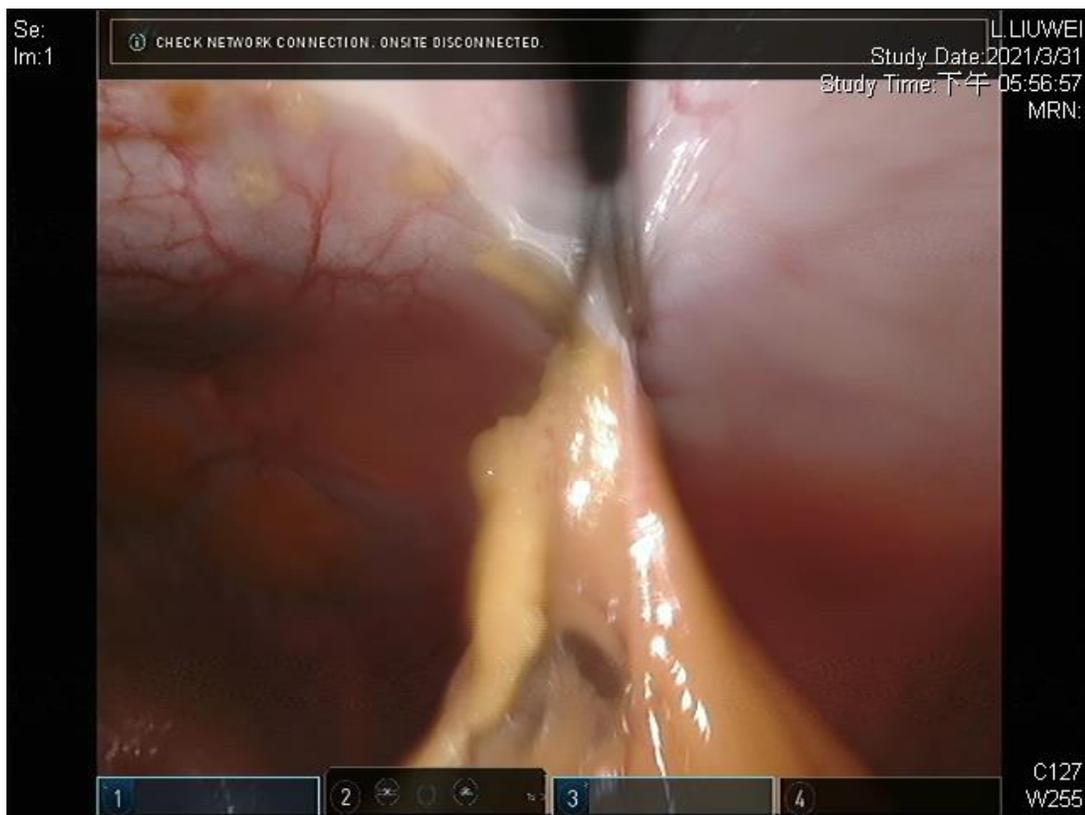


Robotic sacrocolpopexy

79 y/o female CC: recurrent cystocele
Voiding difficult

PH: cystocele post transvaginal colporrhaphy 2017.3
SUI s/p TVT 2017.5
uterous myoma s/p hysterectomy 2010

Enterolysis

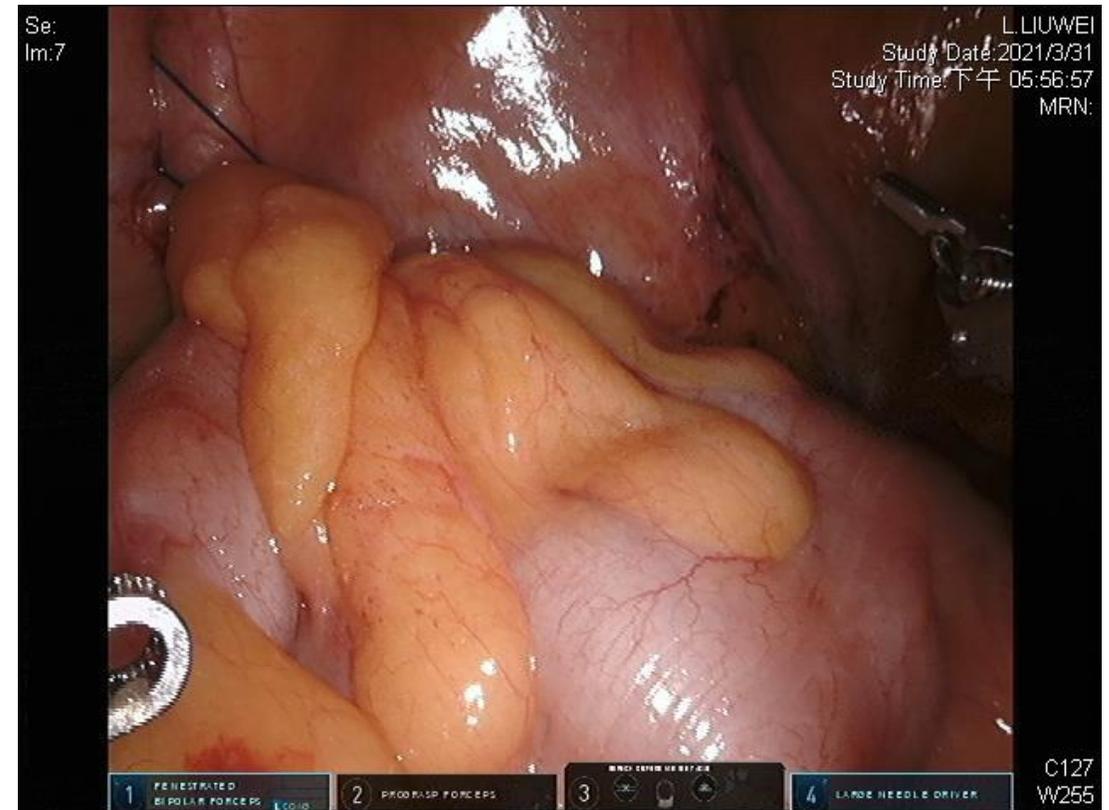
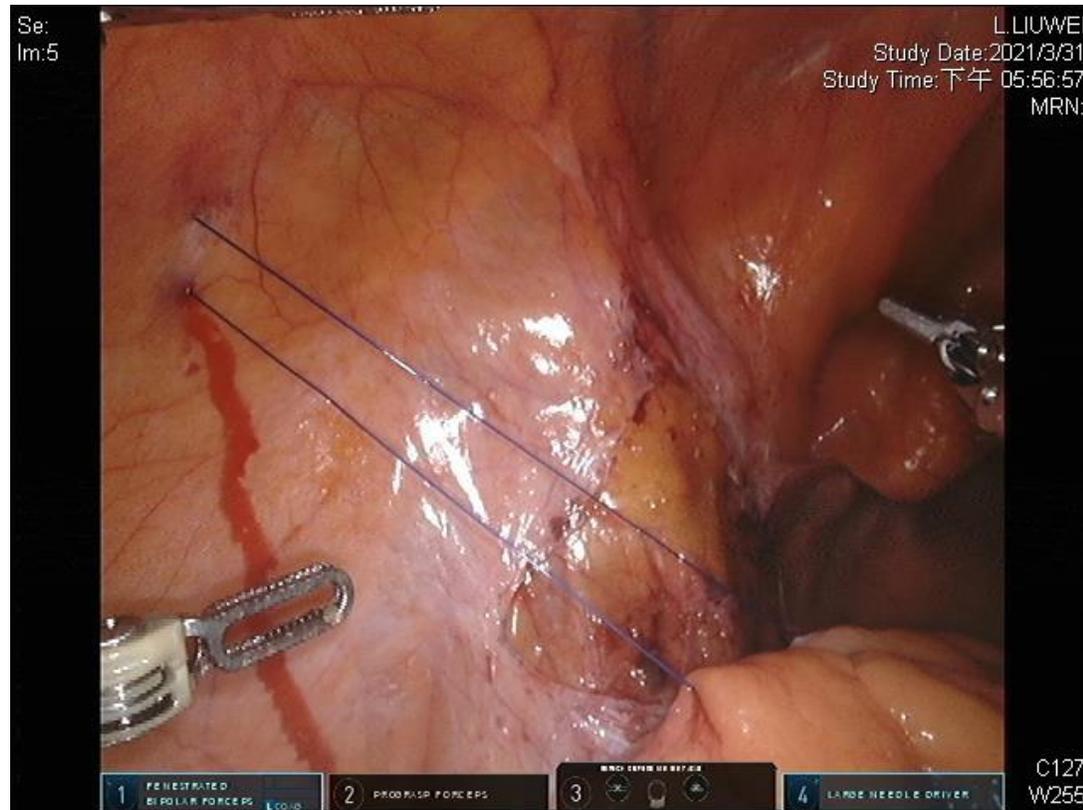


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Stay Suture for Upward Lateral retraction of Colon

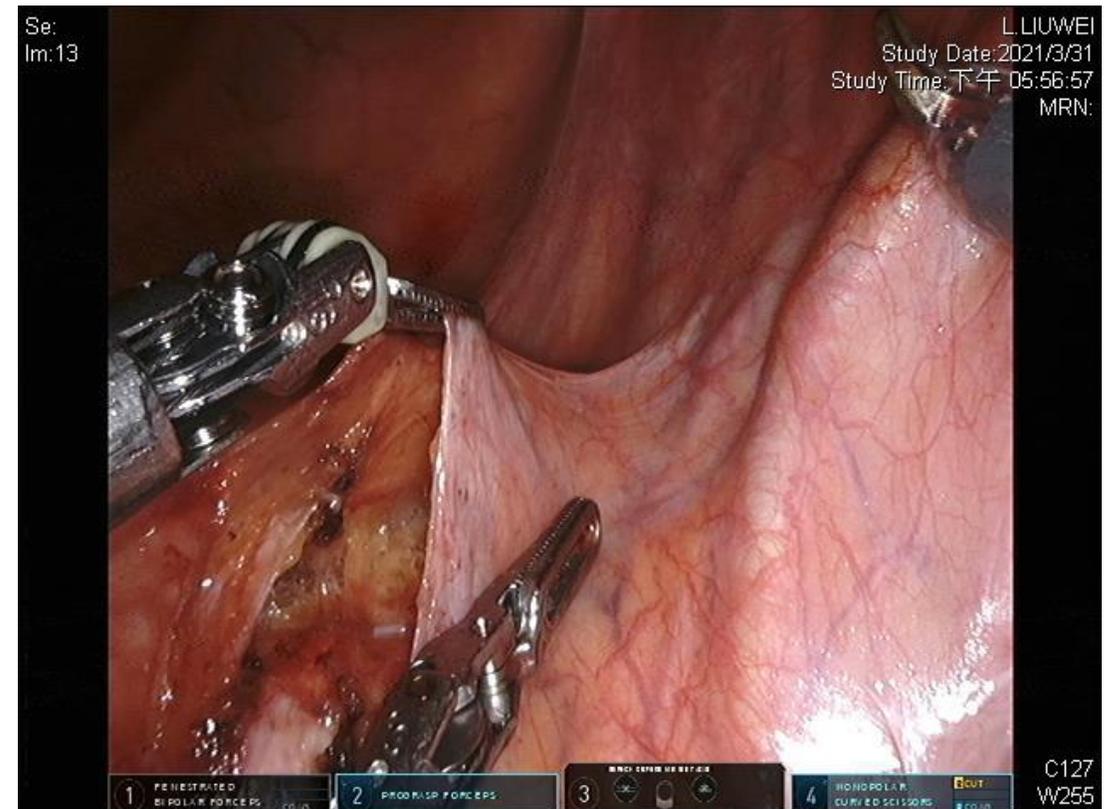
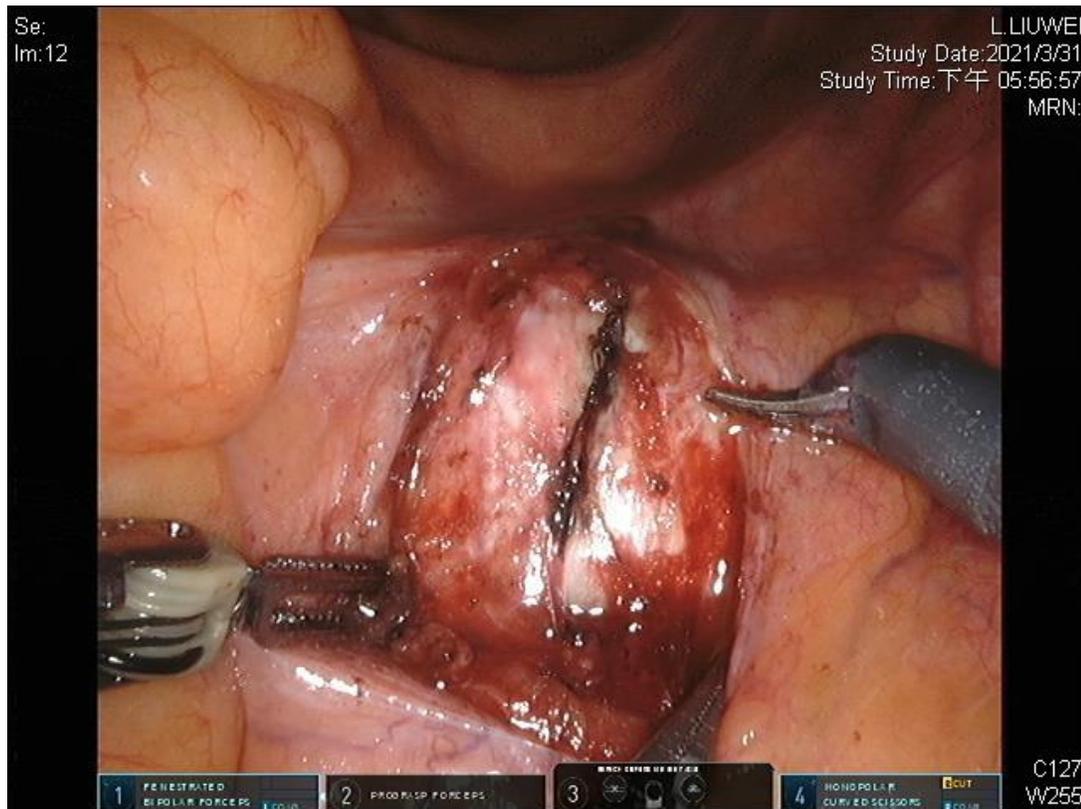


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Dissection of Sacral Promontory

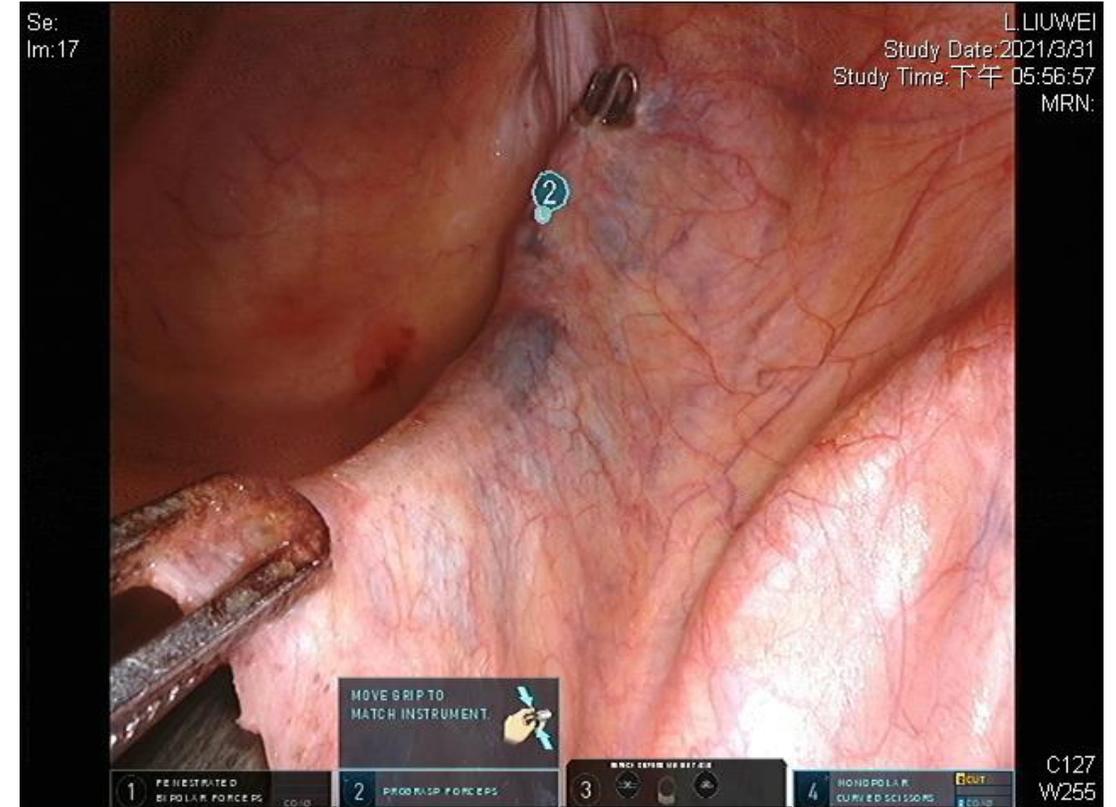
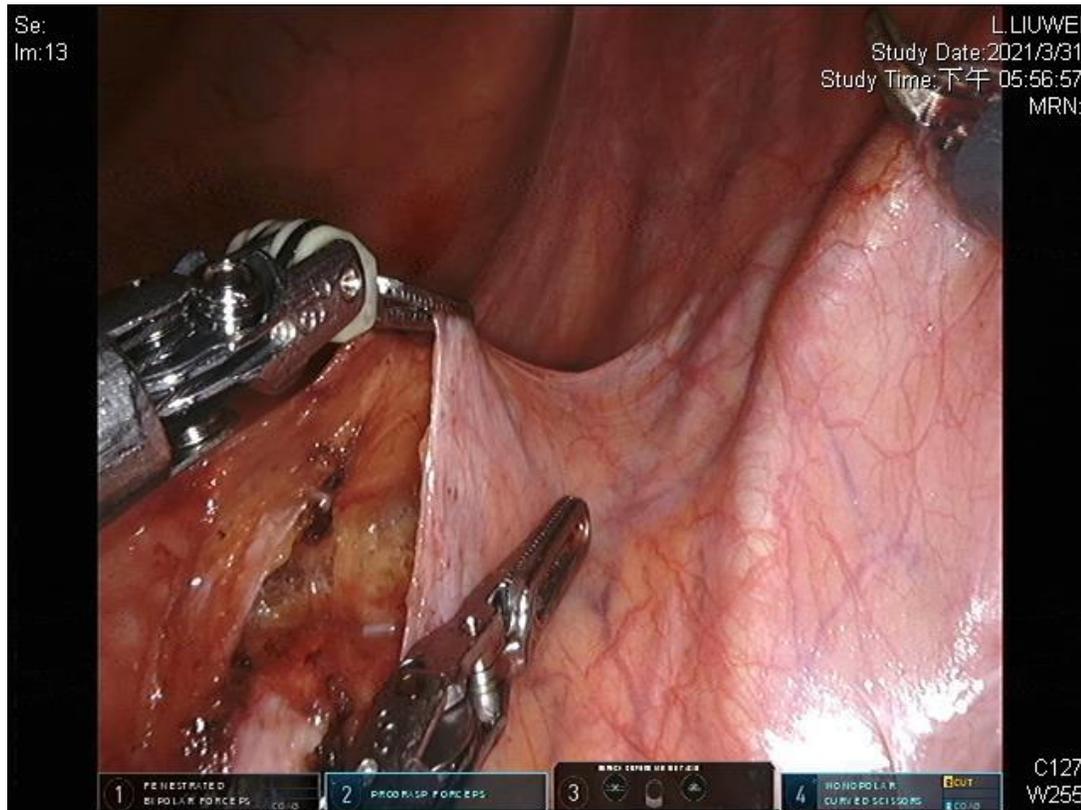


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Dissection of Parietal Peritoneum

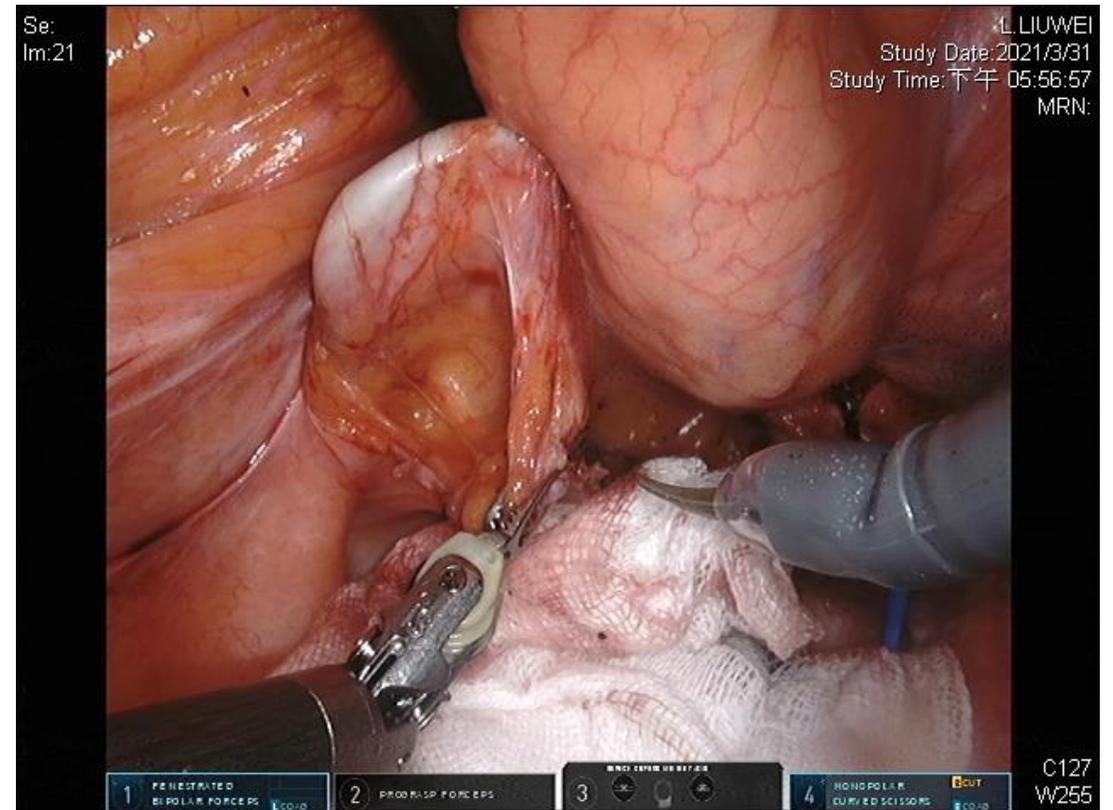
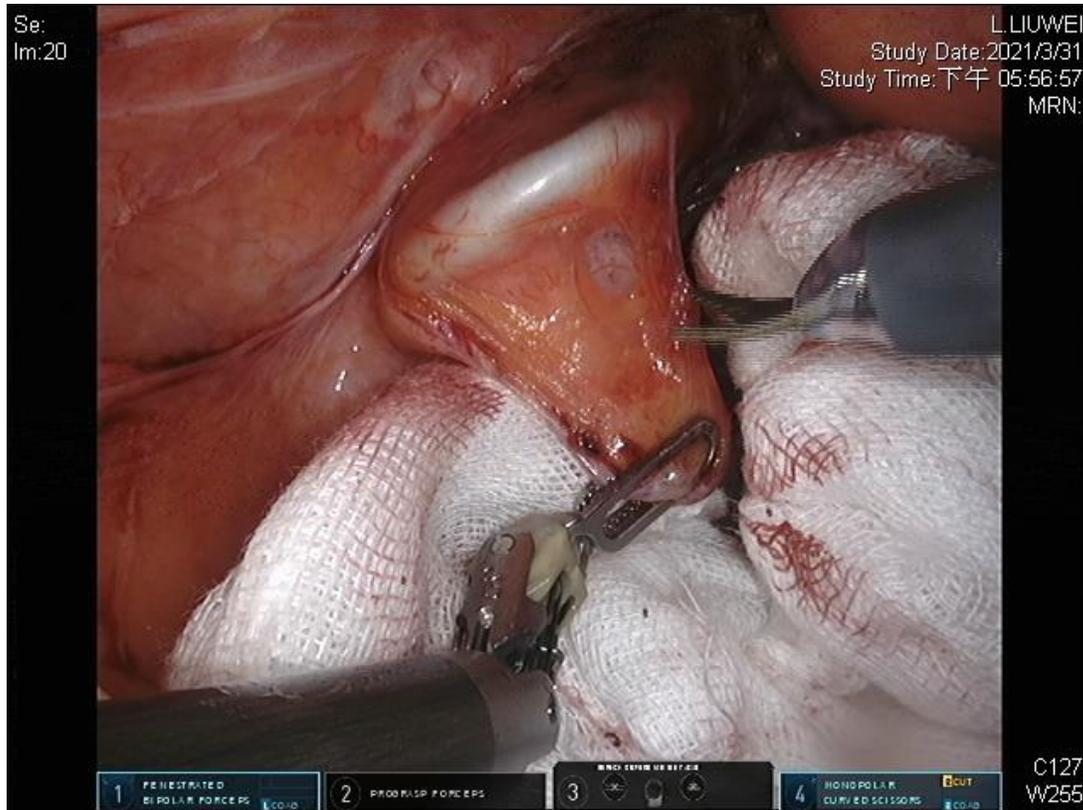


Robotic sacrocolpopexy

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Insertion of Vaginal Valve and Dissection of Posterior Vaginal Wall

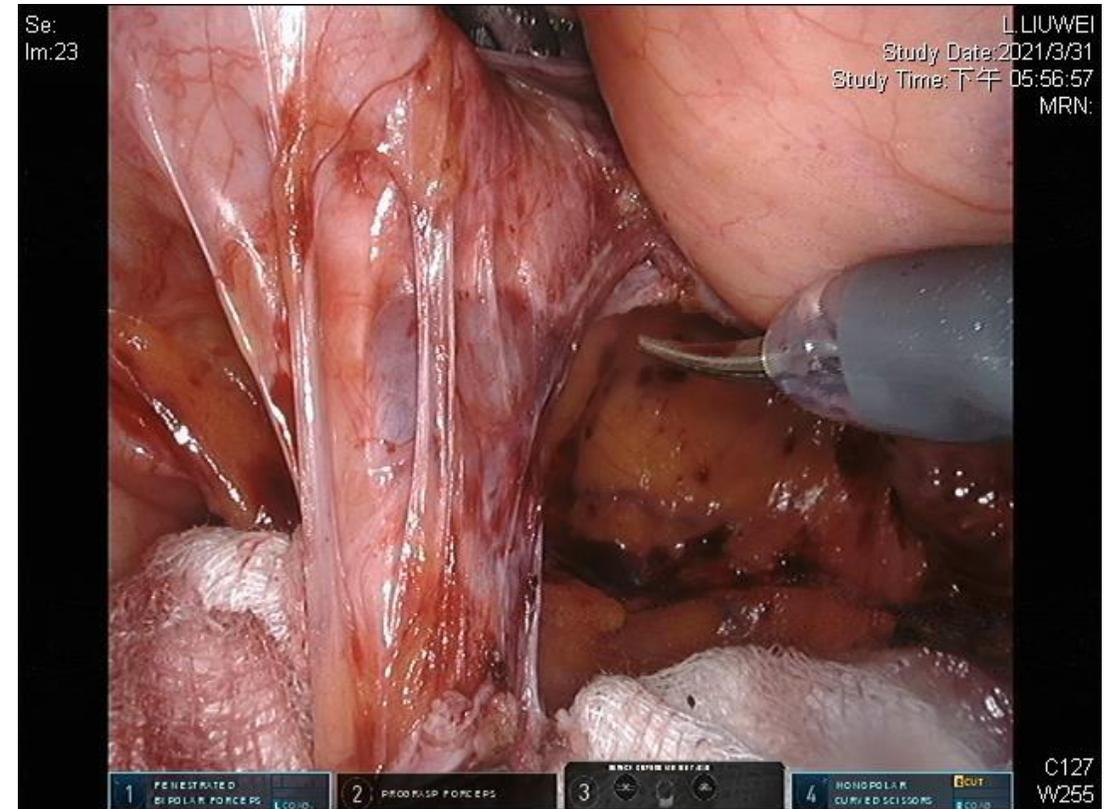
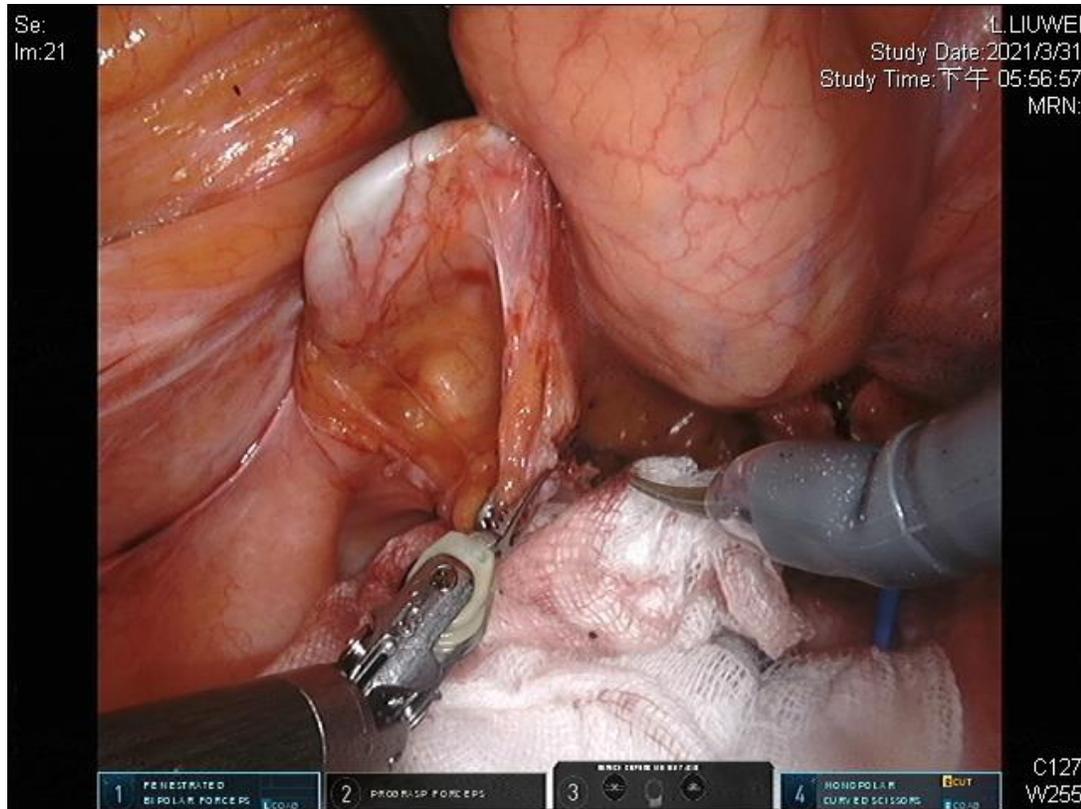


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Insertion of Vaginal Valve and Dissection of Posterior Vaginal Wall

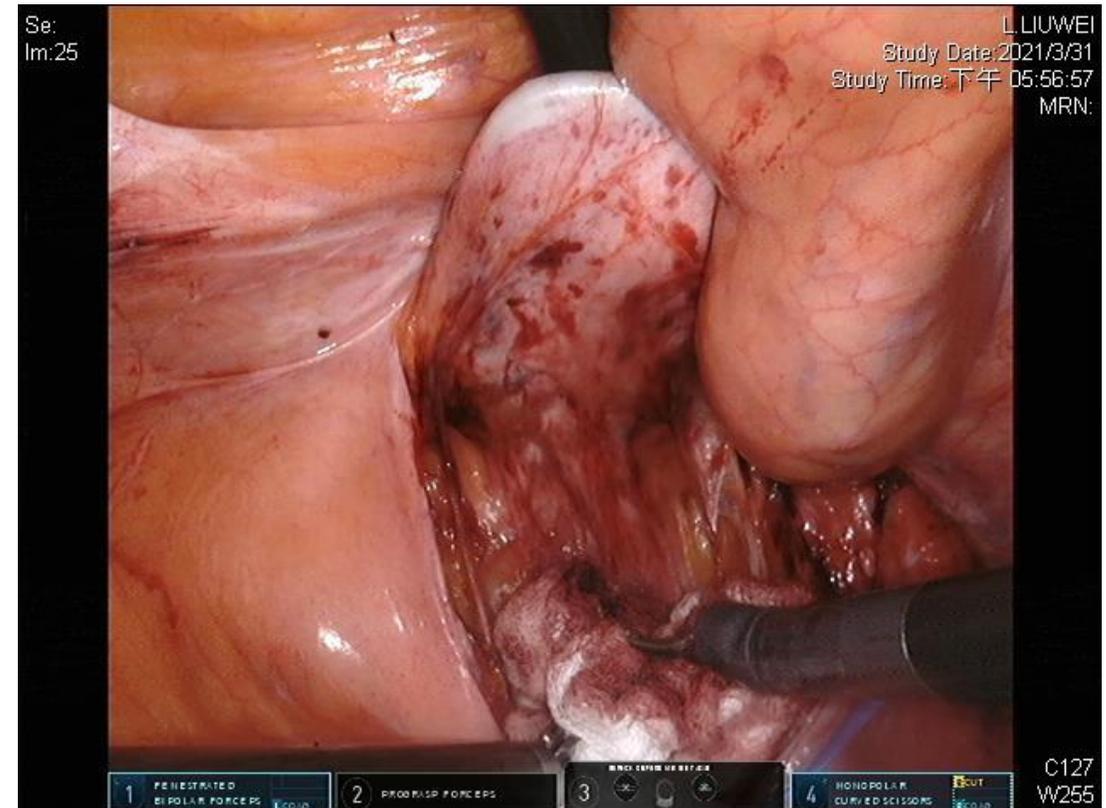
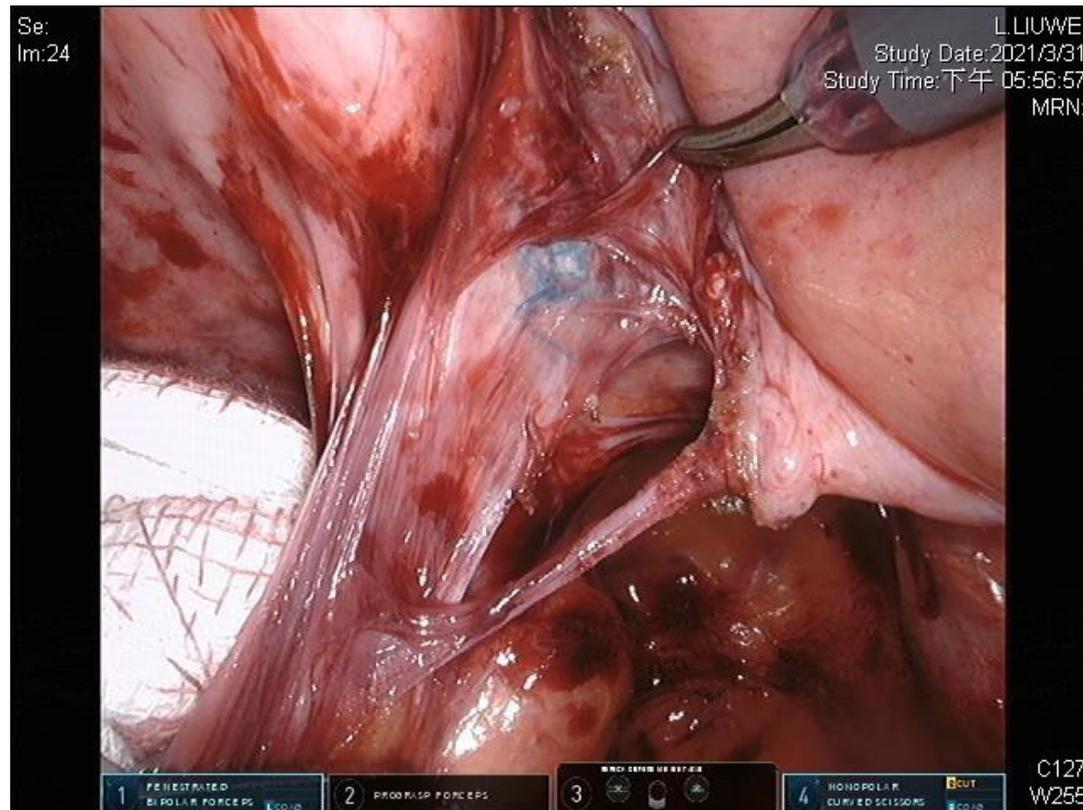


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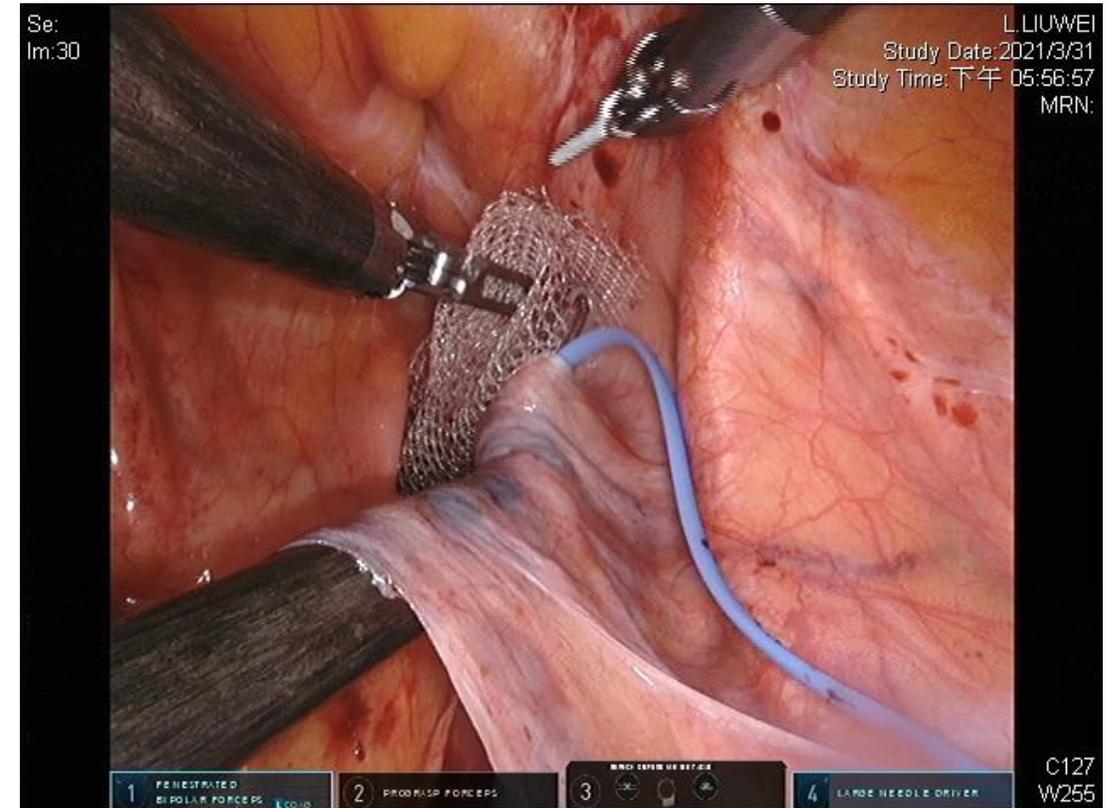
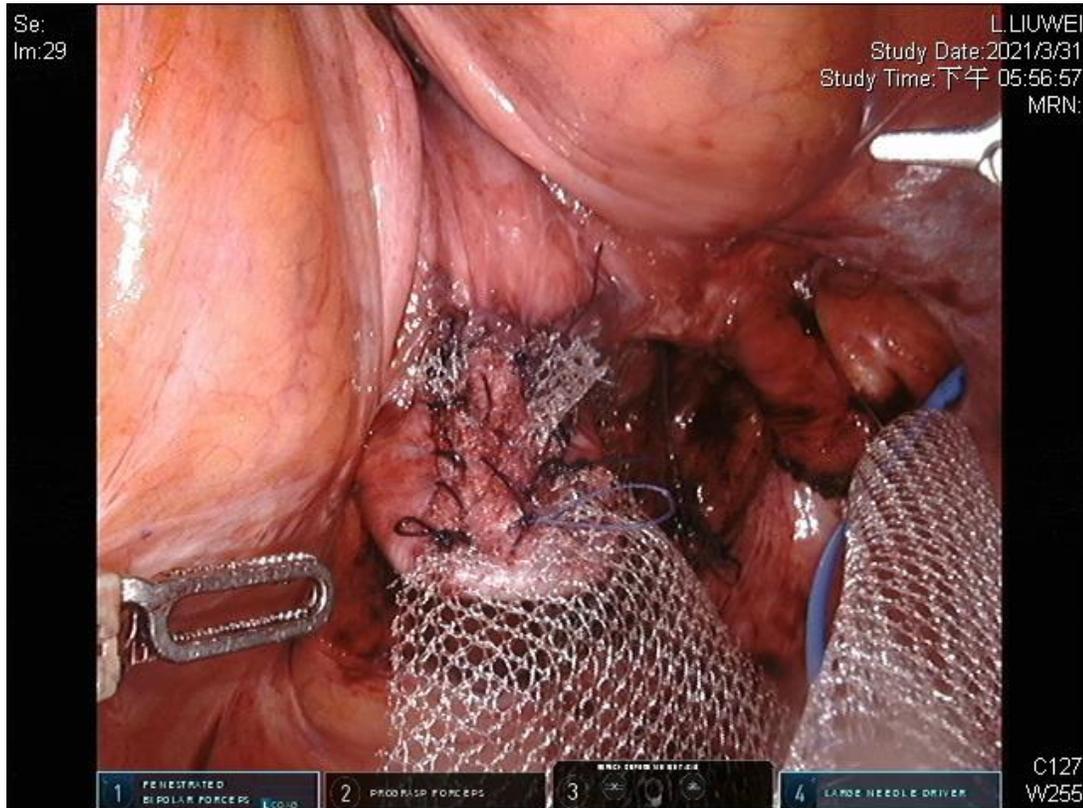


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Fixation of the Anterior Mesh on the Anterior Vaginal Wall

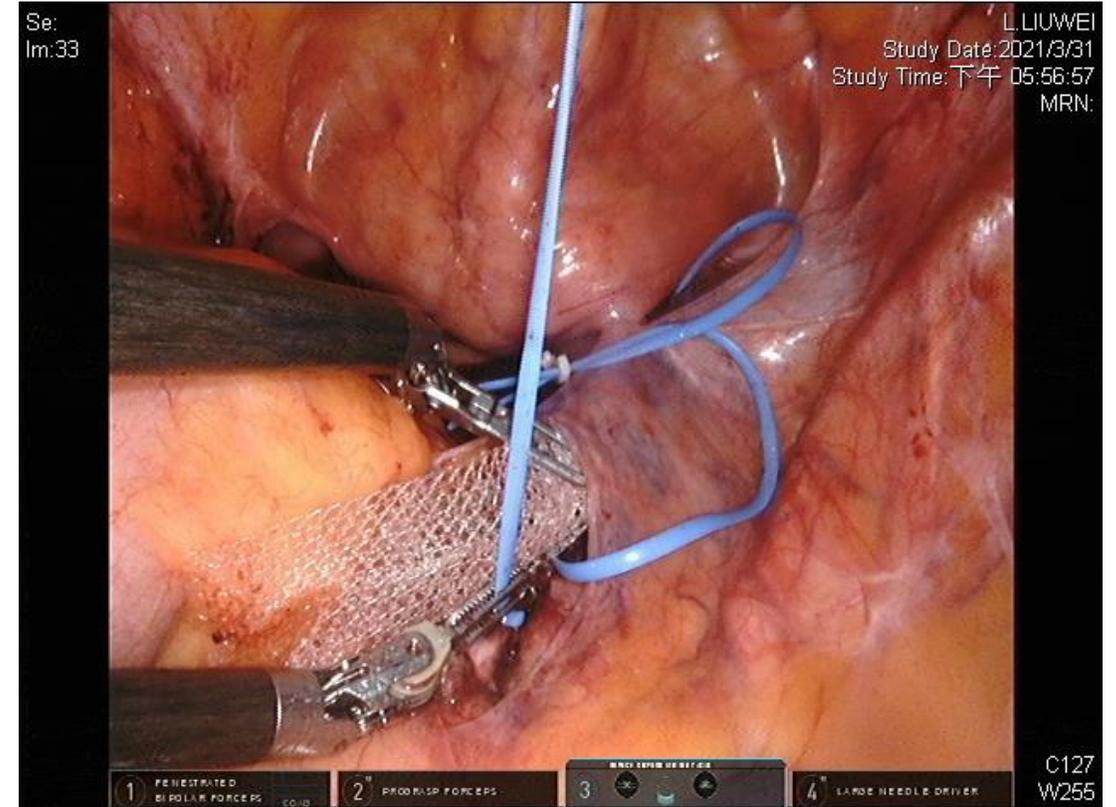
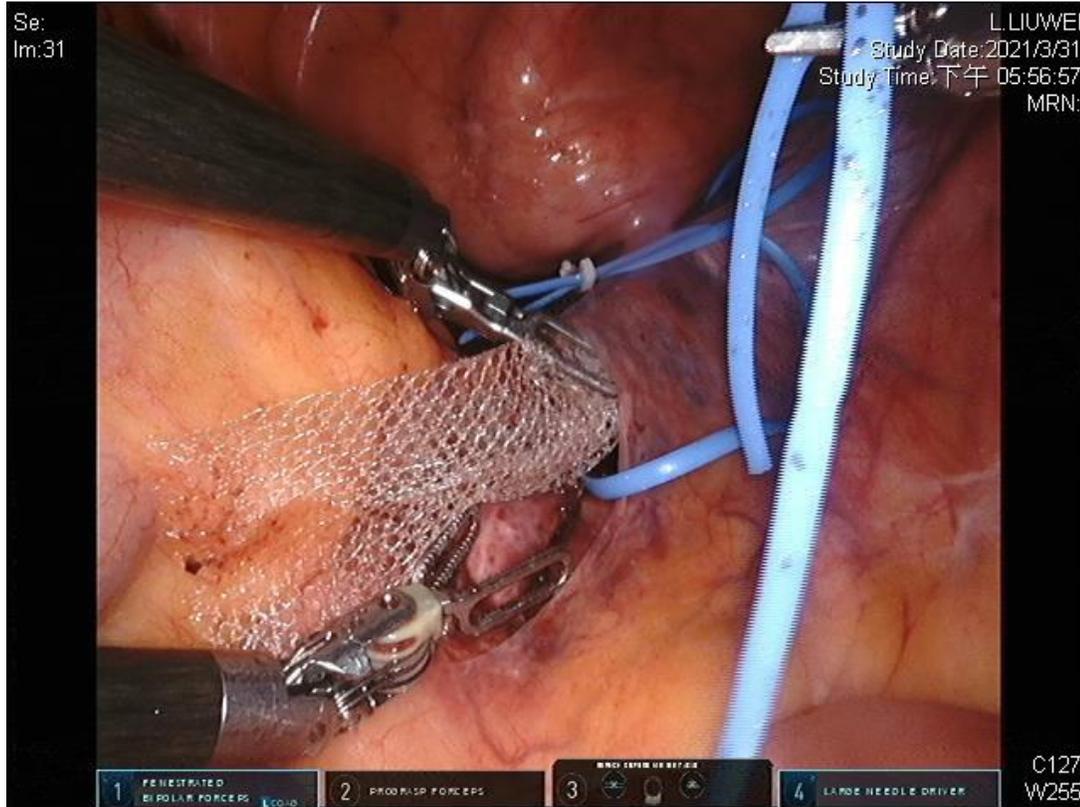


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Passage of Both Meshes Under Parietal Peritoneum

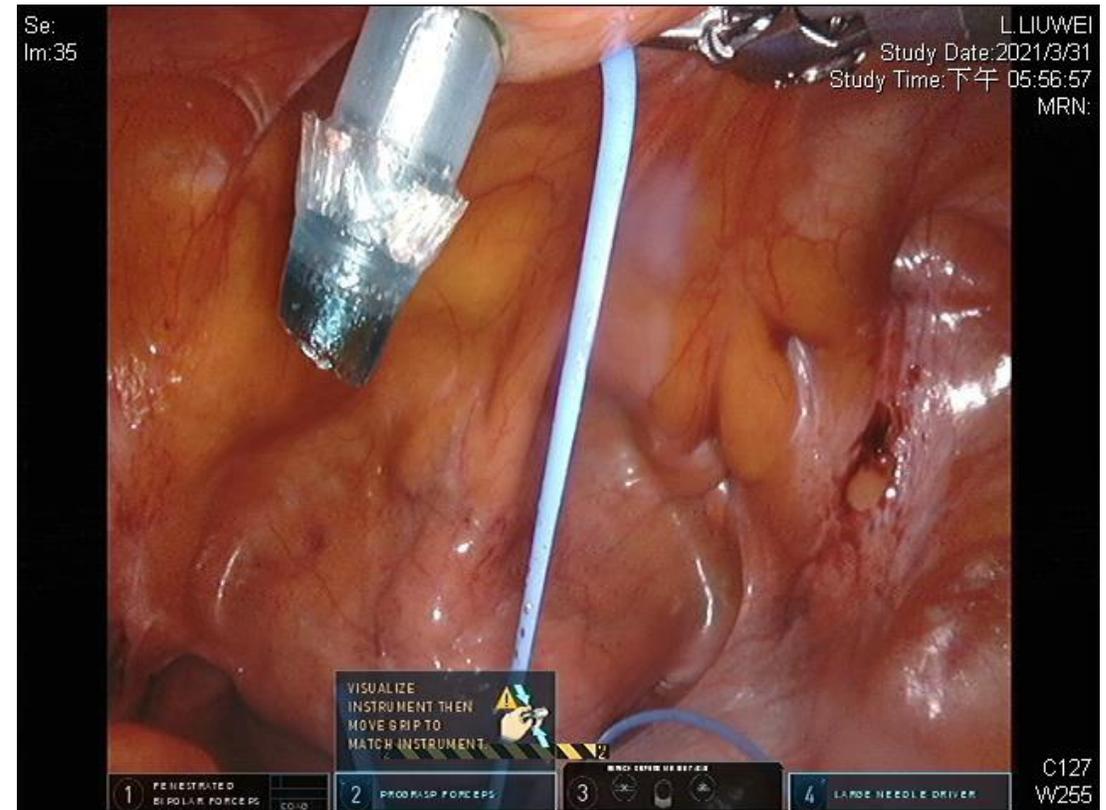
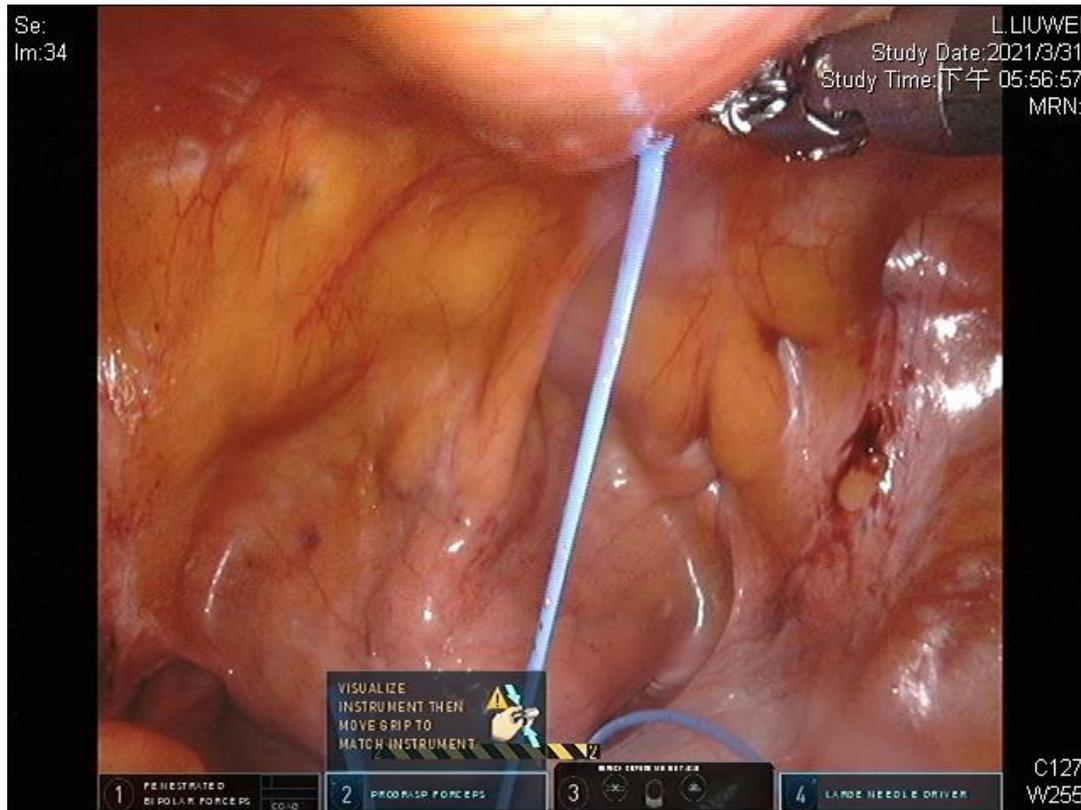


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Planning the Position of Port For Spiral Tag

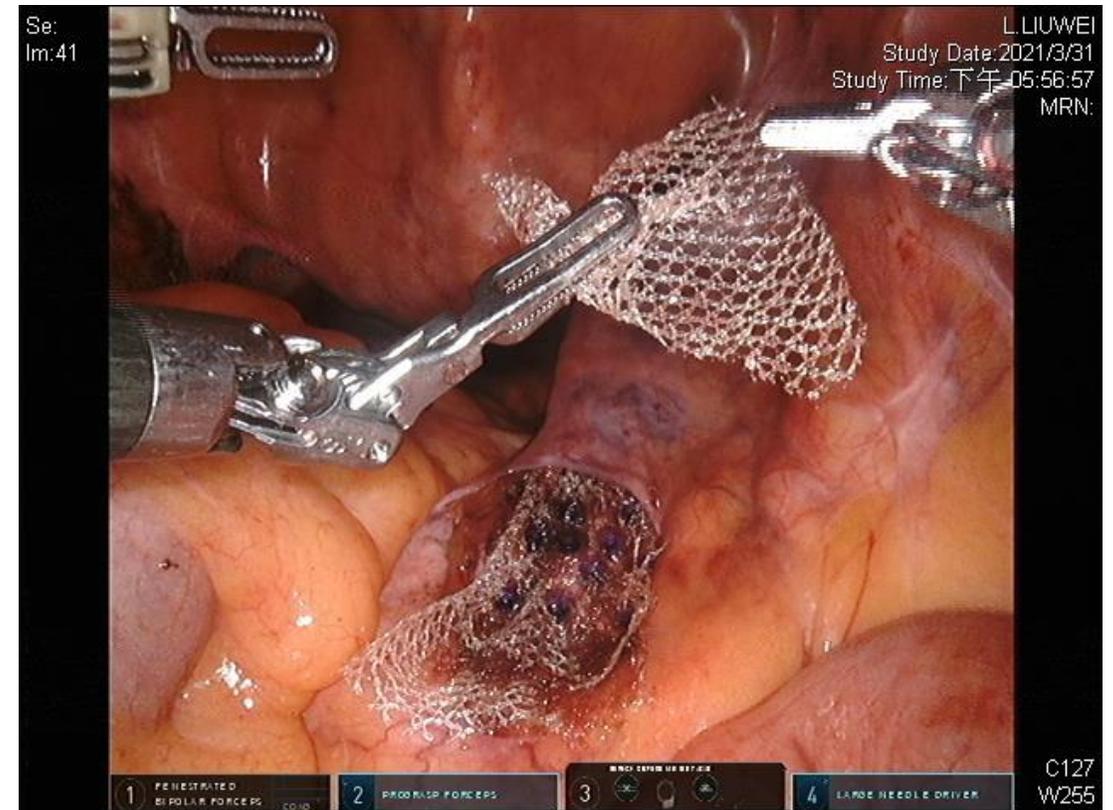
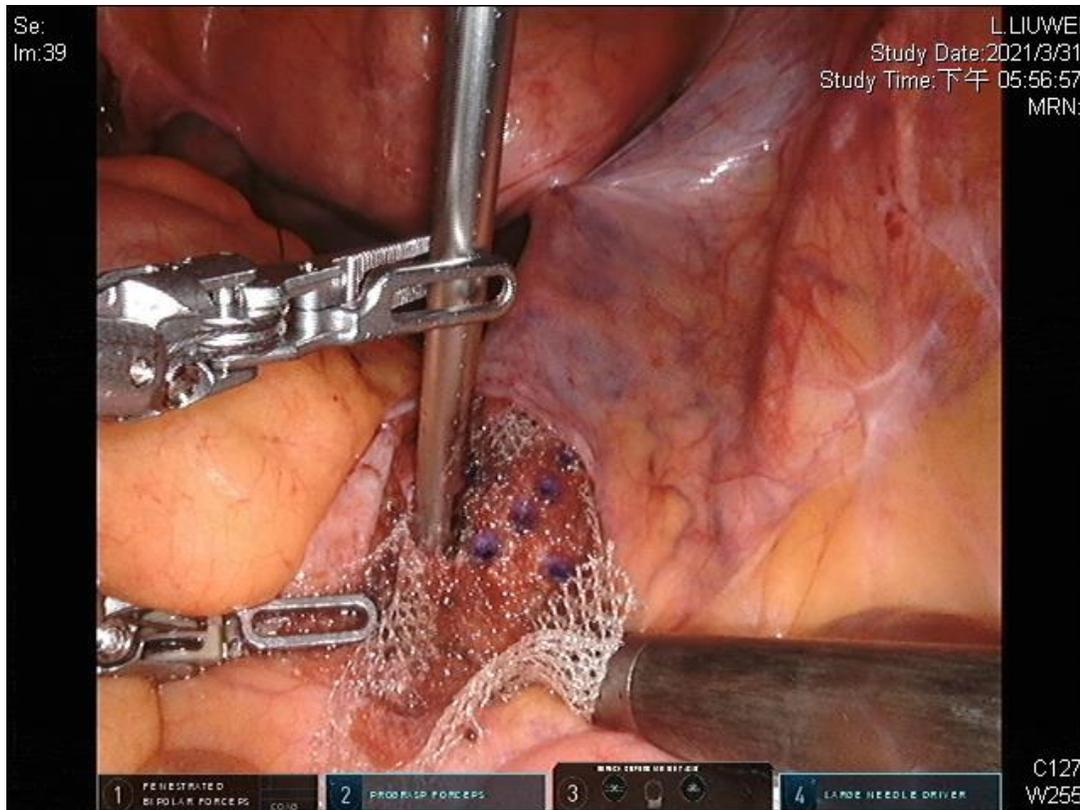


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Fixation of Both mesh to Sacral Promontary (Spiral Tag)

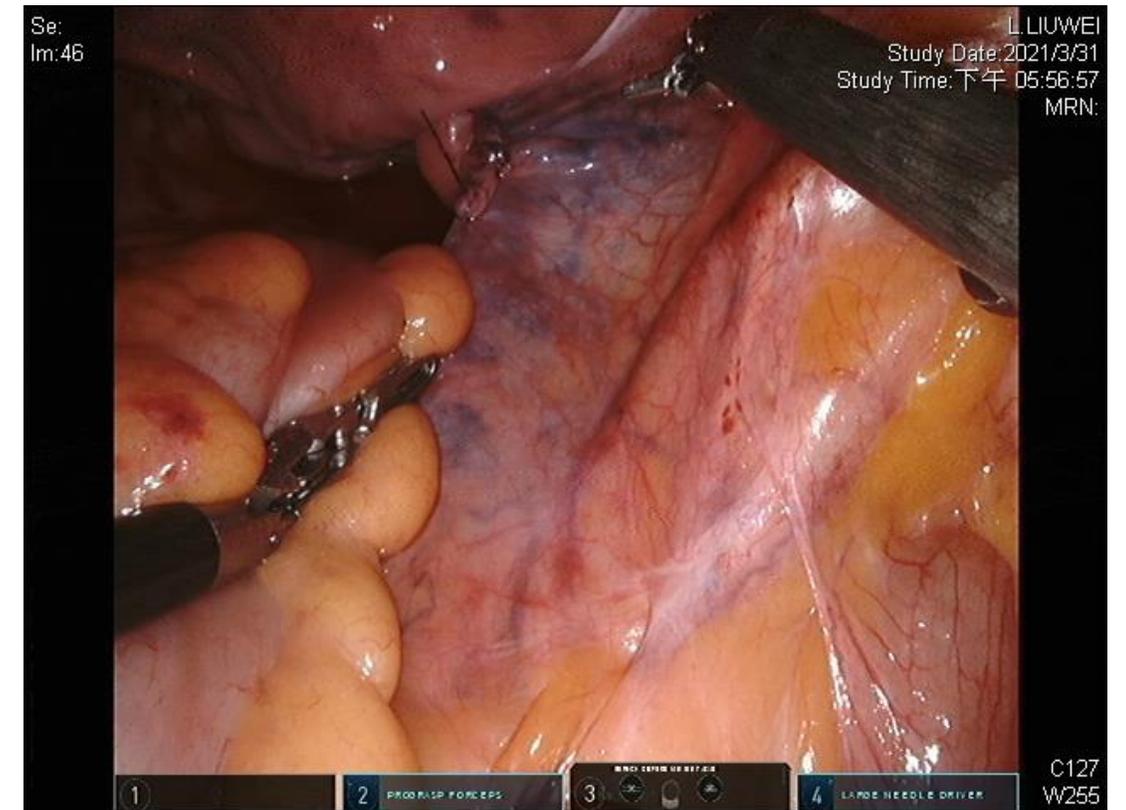
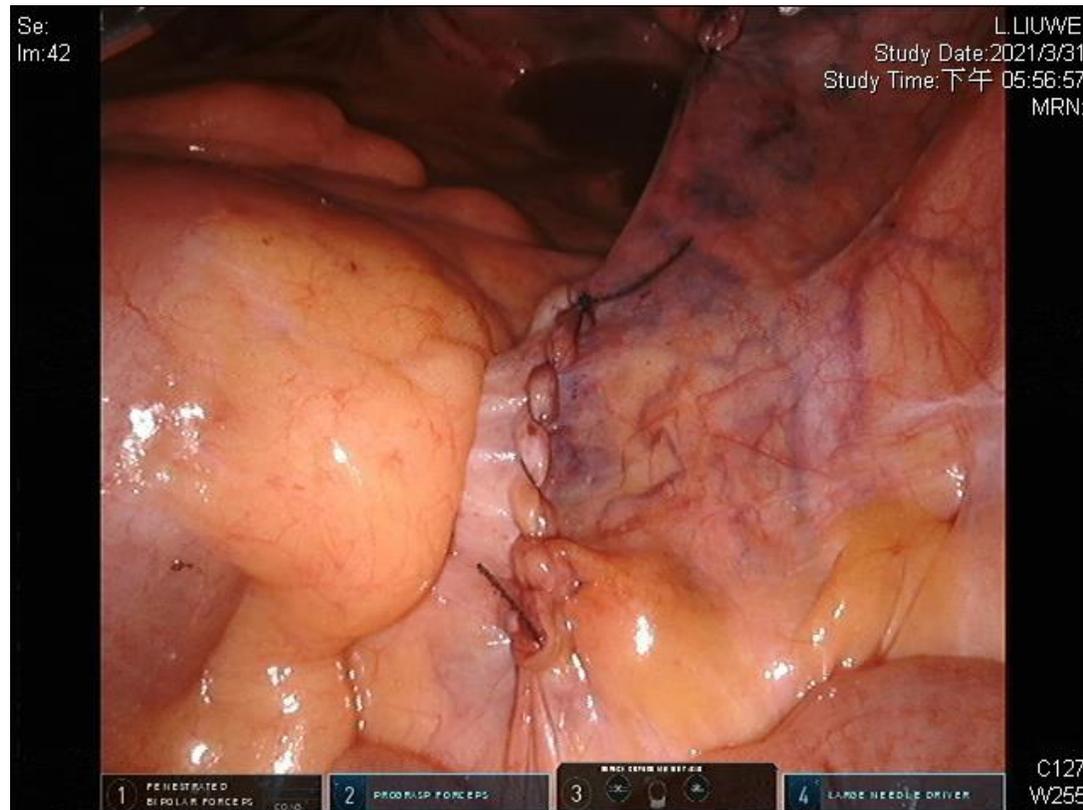


Robotic sacrocolpopexy

79 y/o female CC: recurrent cystocele
Voiding difficult

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Retroperitonealization of the meshes



Robotic sacrocolpopexy

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Voiding difficult



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Robotic sacrocolpopexy

79 y/o female CC: recurrent cystocele
Voiding difficult

VCUG post op



PH: cystocele post transvaginal colporrhaphy 2017.3
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VCUG pre op



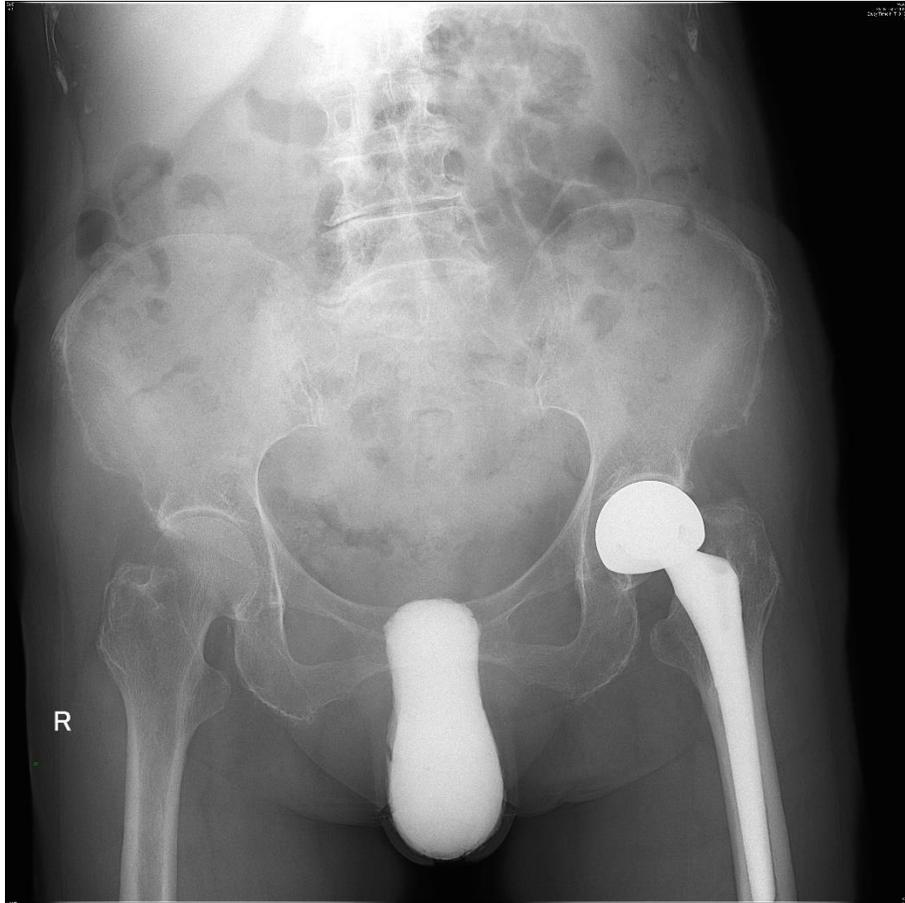
feel
better



Make Life Better

87 y/o female
pelvic organ prolapse for 30 years
reduction with hand

on diapper 3/day
G5P5 NSD



87 y/o female
pelvic organ prolapse for 30 years
reduction with hand

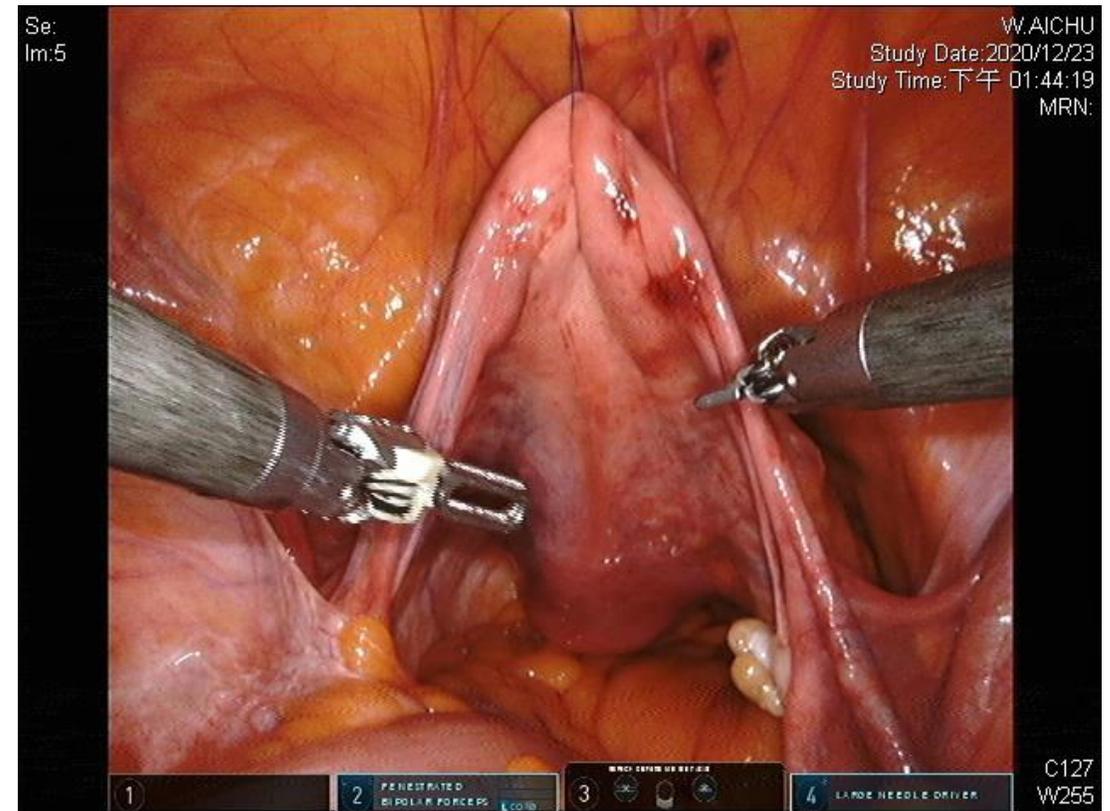
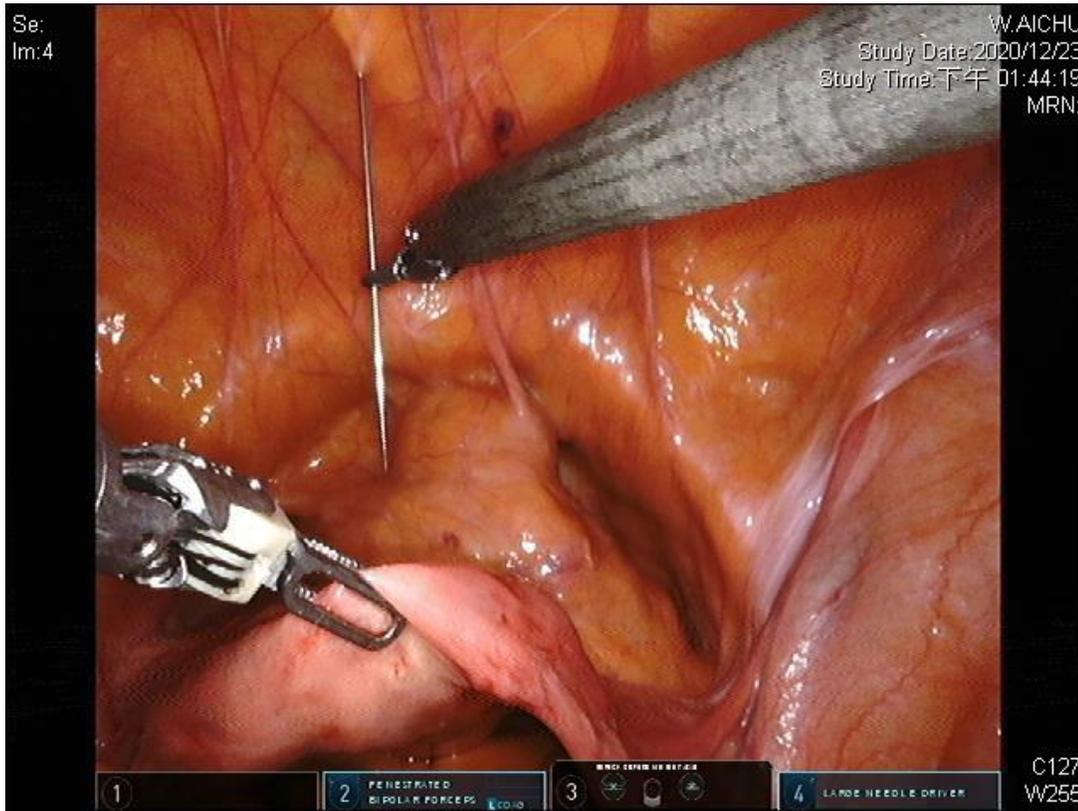
on diapper 3/day
G5P5 NSD



87 y/o female

pelvic organ prolapse for 30 years on diapper 3/day
reduction with hand G5P5 NSD

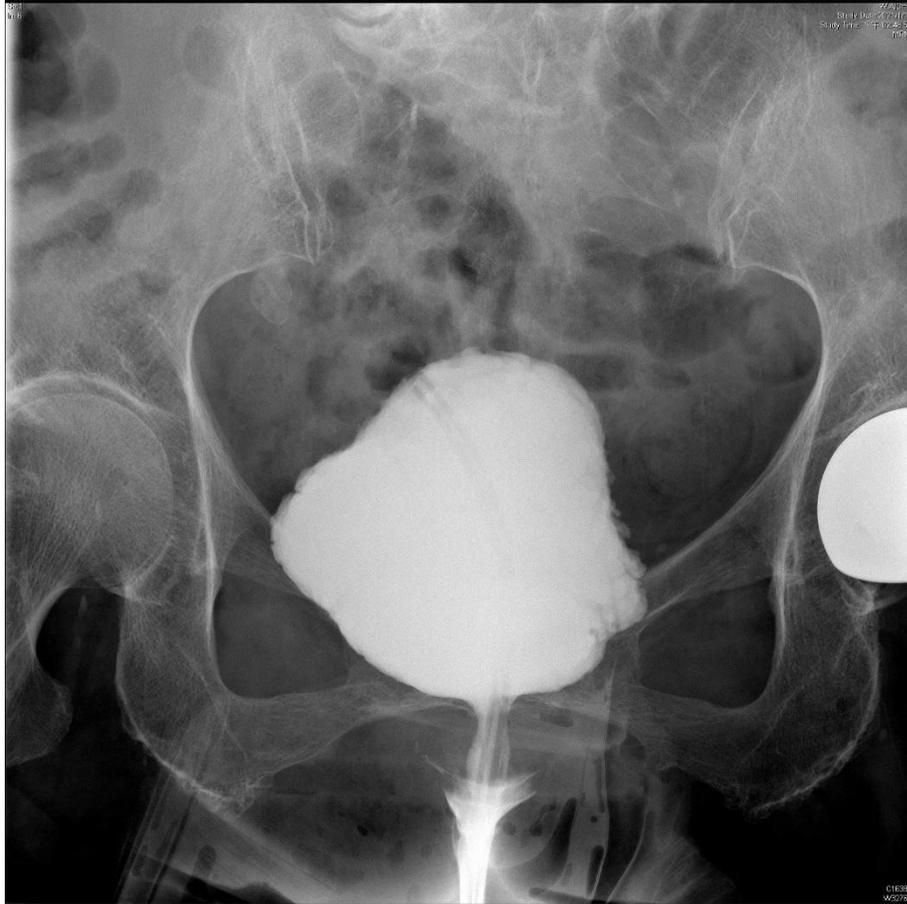
Stay Suture for Upward retraction of Uterus



87 y/o female
pelvic organ prolapse for 30 years
reduction with hand

on diapper 3/day
G5P5 NSD

Post Op



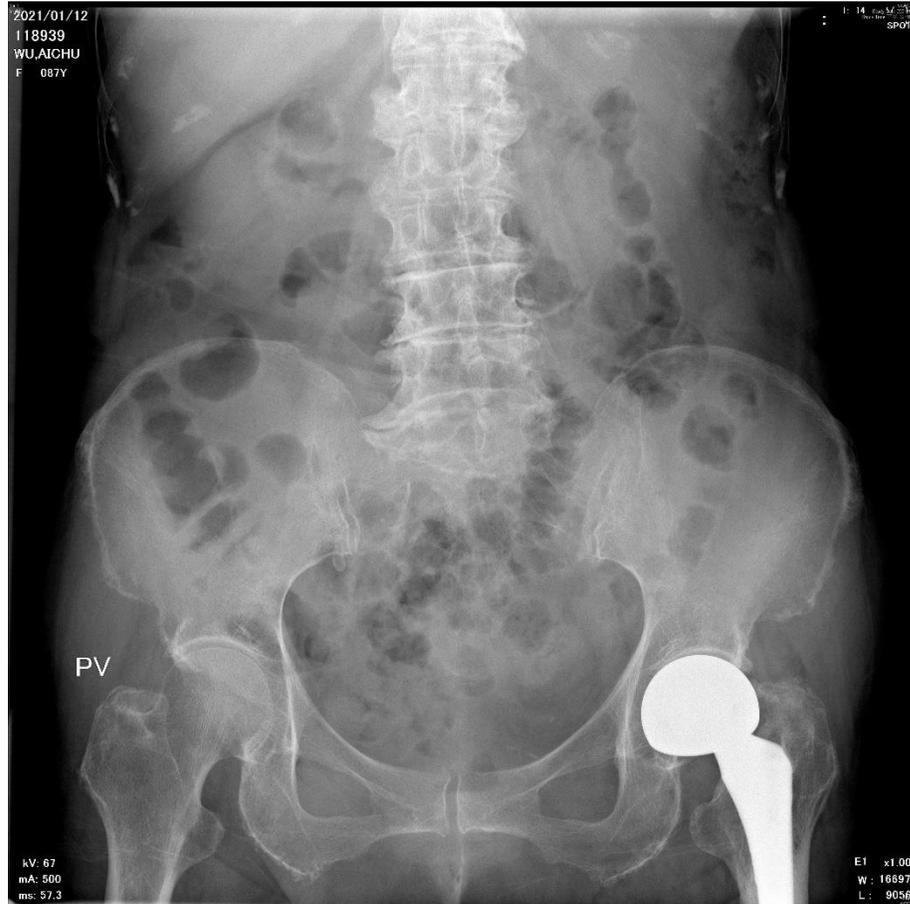
Pre Op



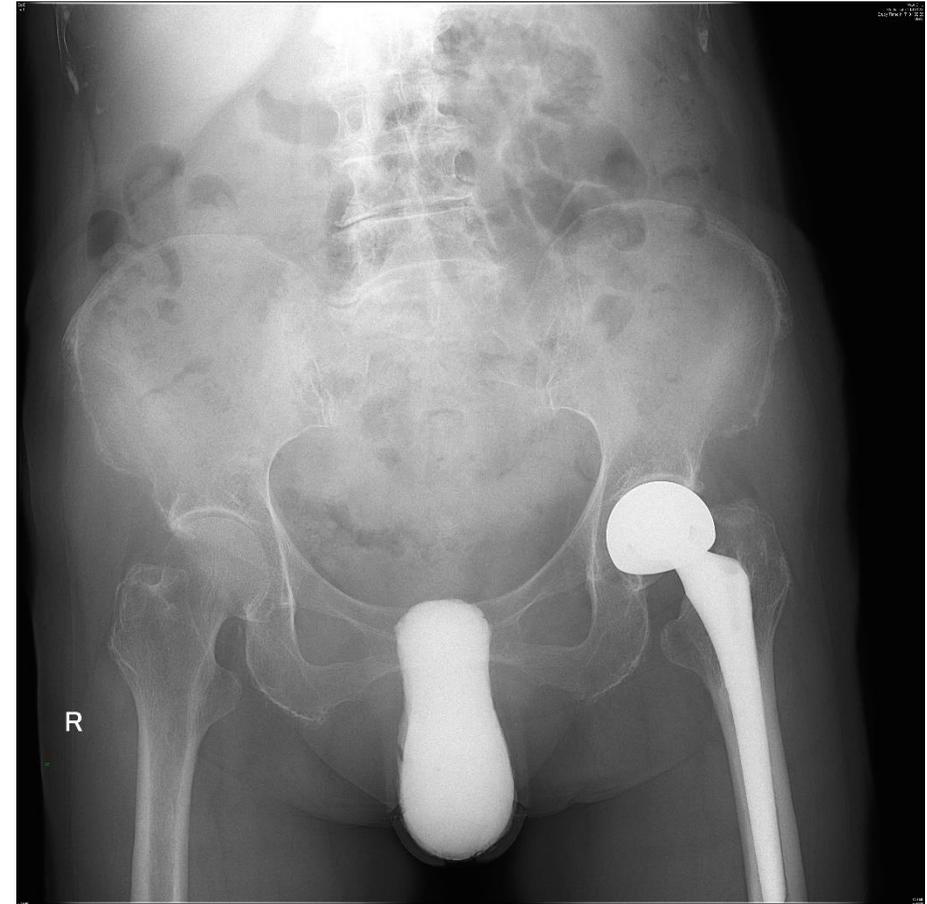
87 y/o female
pelvic organ prolapse for 30 years
reduction with hand

on diapper 3/day
G5P5 NSD

Post Op
Post Void



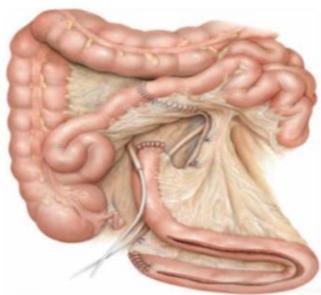
Pre Op
Post Void



(II)膀胱腫瘤

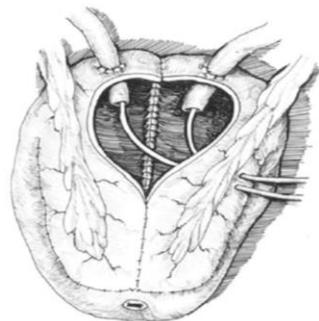
針對銀髮族膀胱癌的病患，提供人工膀胱治療

2003~2016



Studer Method

2016~2018



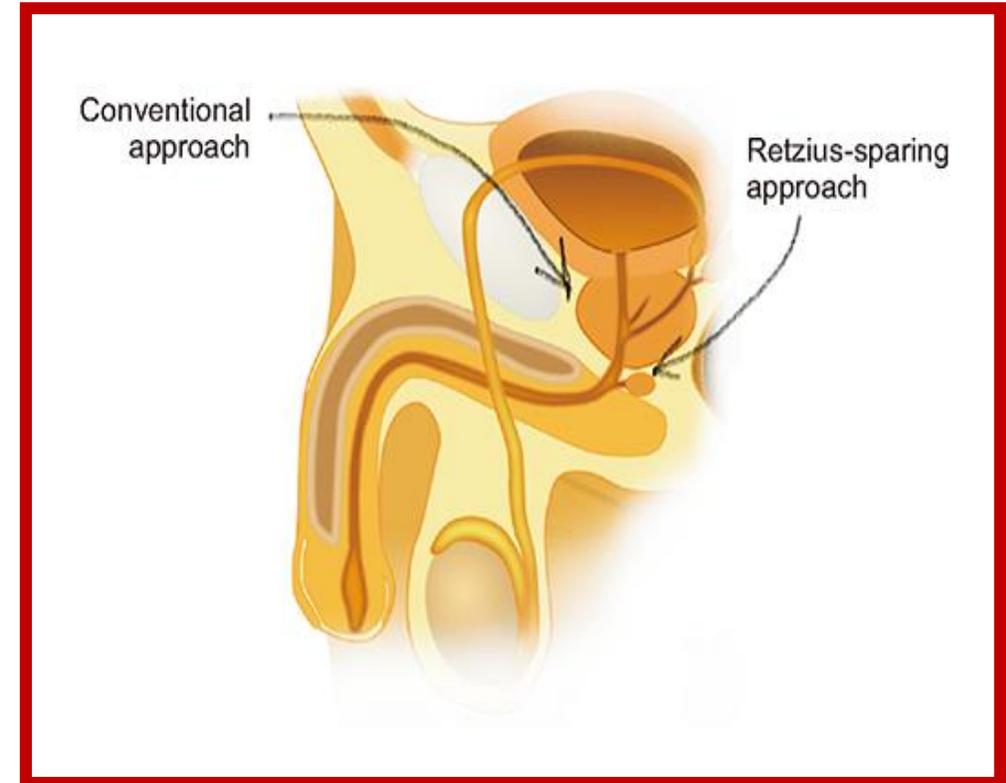
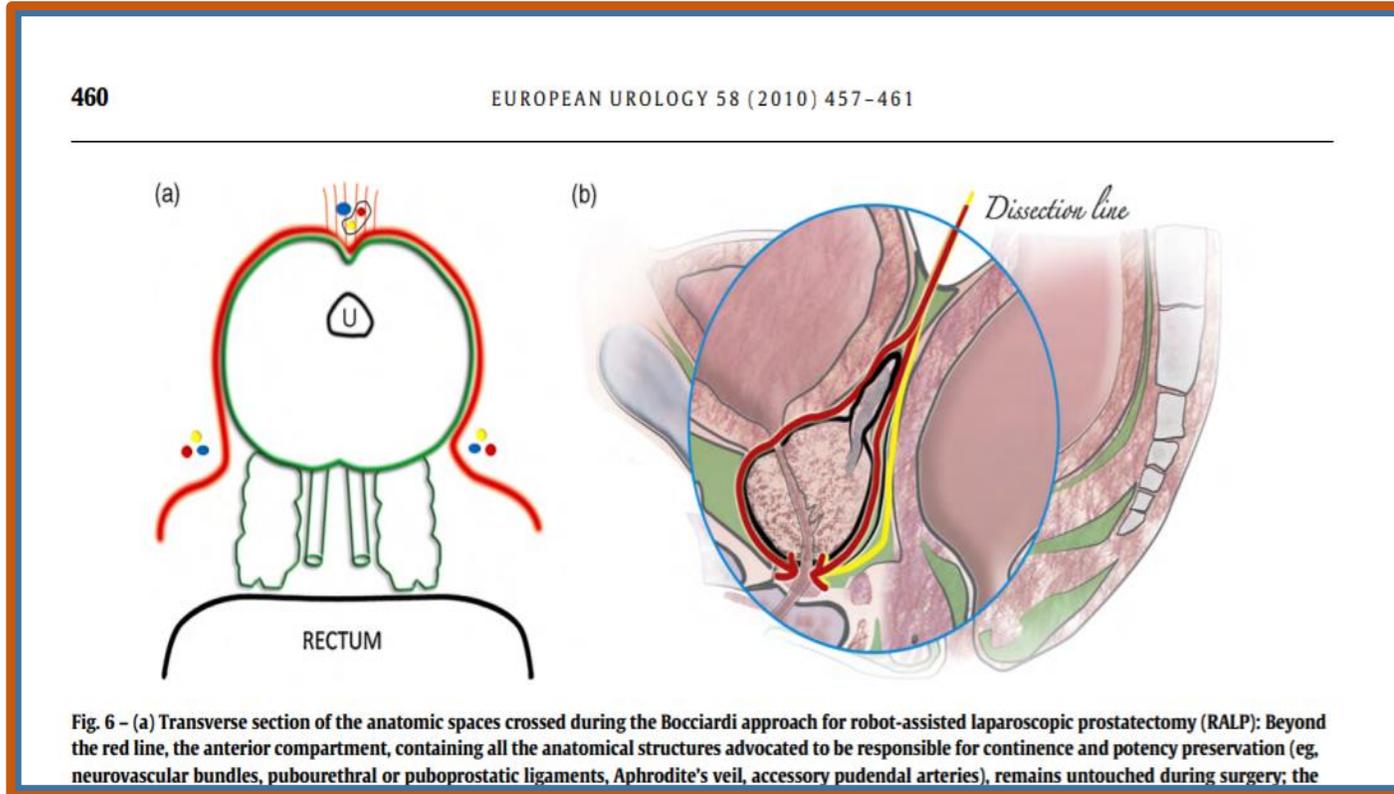
Jiang Huang Method

2018~2021



不僅病人不用終身掛著尿袋也沒有身體形象上的遺憾，有助於生活品質的改善，輕鬆快樂的面對膀胱癌病魔，擺脫哀怨不便，享受平靜祥和的暮年。

A **New Anatomic Approach** for Robot-Assisted Laparoscopic Prostatectomy:



義大利式後方切除
讓尿失禁更快復原
2019~



嘉義長庚紀念醫院
Chang Gung Memorial Hospital, Chiayi

達文西百例里程碑頒發

泌尿科 林威宇醫師



In Recognition of
100th da Vinci Surgery

一百例達文西手術紀念

Dr. Wei-Yu Lin

林威宇 醫師

Chiayi Chang Gung
Memorial Hospital

嘉義長庚紀念醫院

Nov. 2020

INTUITIVE



專長：攝護腺雷射手術
 泌尿道癌微創手術(腎臟、膀胱、攝護腺)

門診時間表

嘉義長庚醫院						
星期	一	二	三	四	五	六
時間						
上午	●			●		
下午		●				

部立嘉義醫院						
星期	一	二	三	四	五	六
時間						
上午		●				
下午						

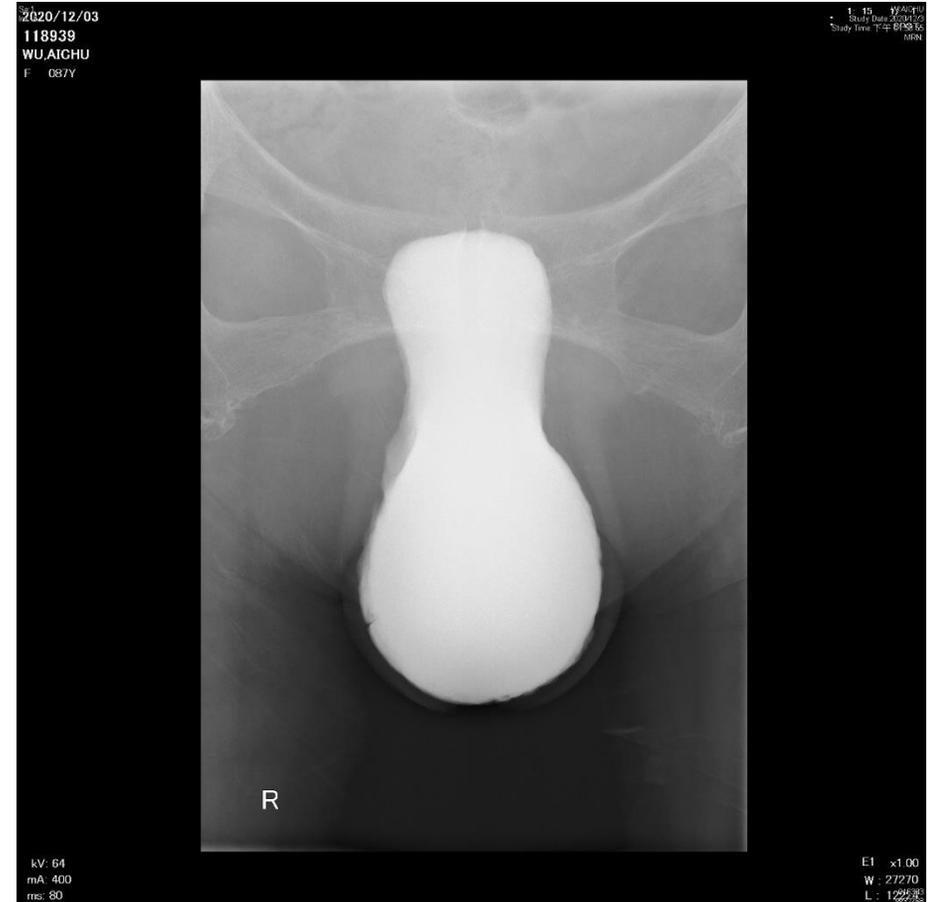
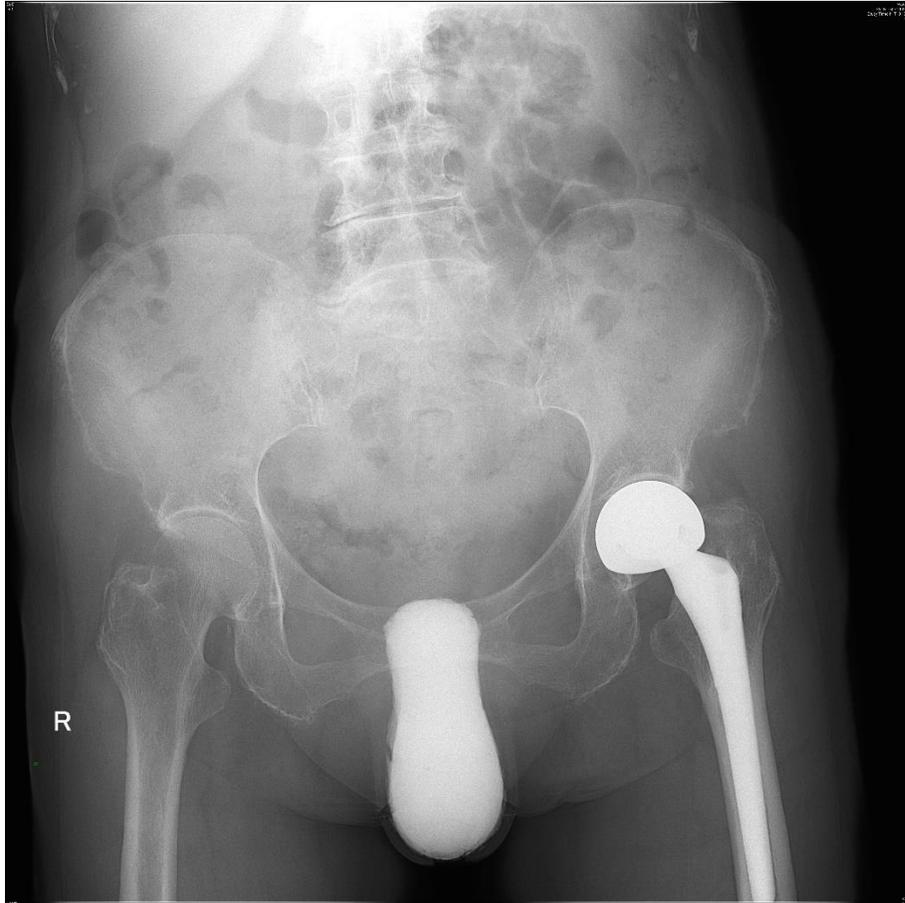


淺談達文西手術與人工膀胱 / 林威宇主任 / 台灣精準醫療醫學會製作 (精準醫字第1100002號)

網址: www.longlifebetterlife.com

87 y/o female
pelvic organ prolapse for 30 years
reduction with hand

on diapper 3/day
G5P5 NSD



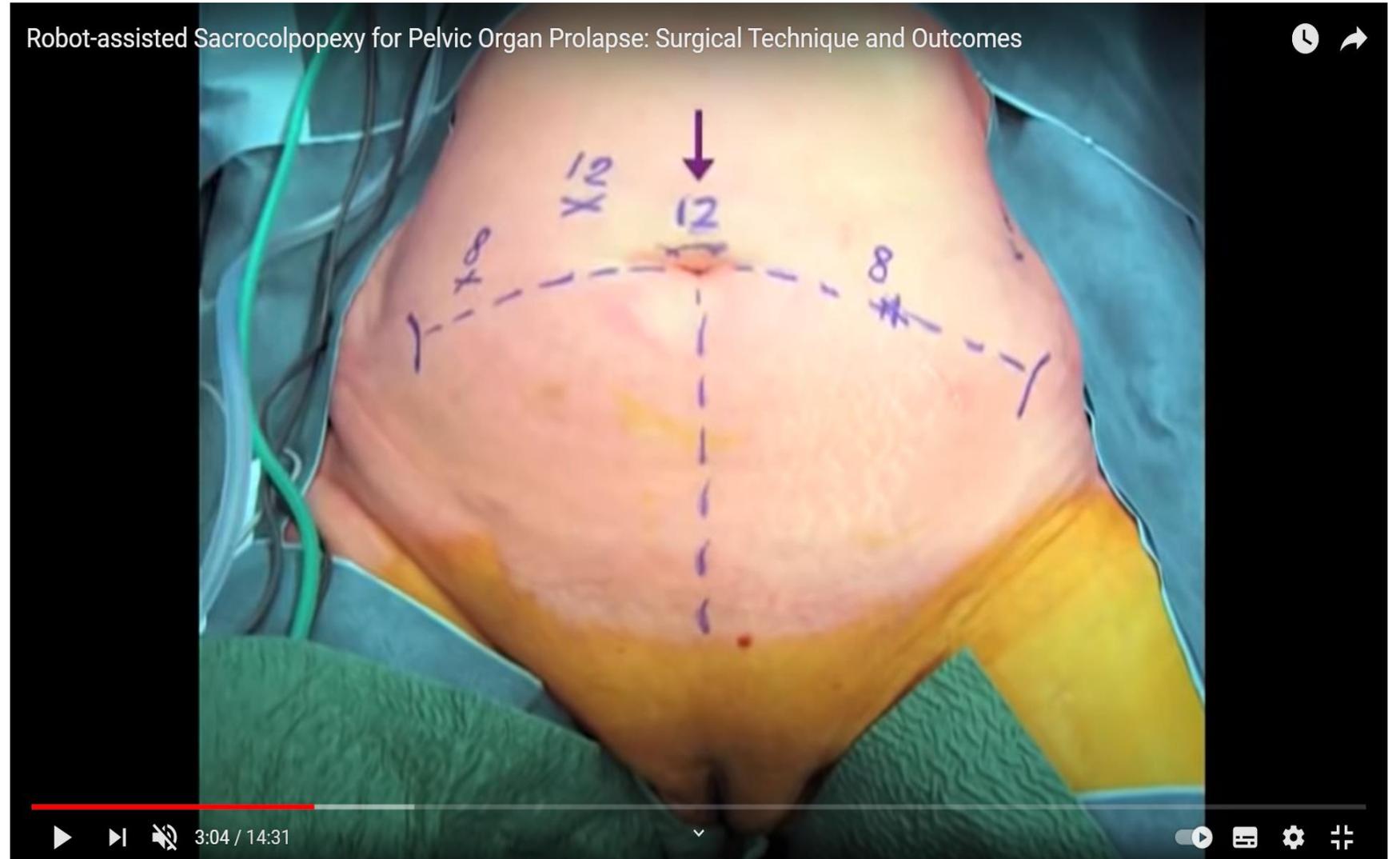
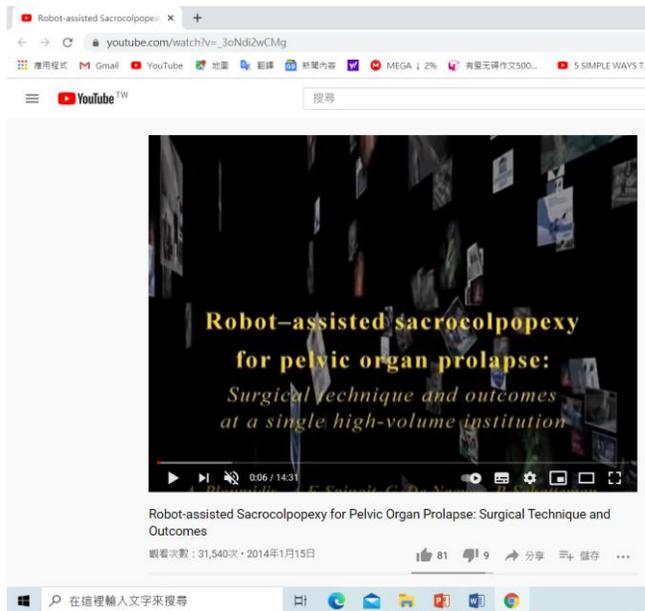
87 y/o female
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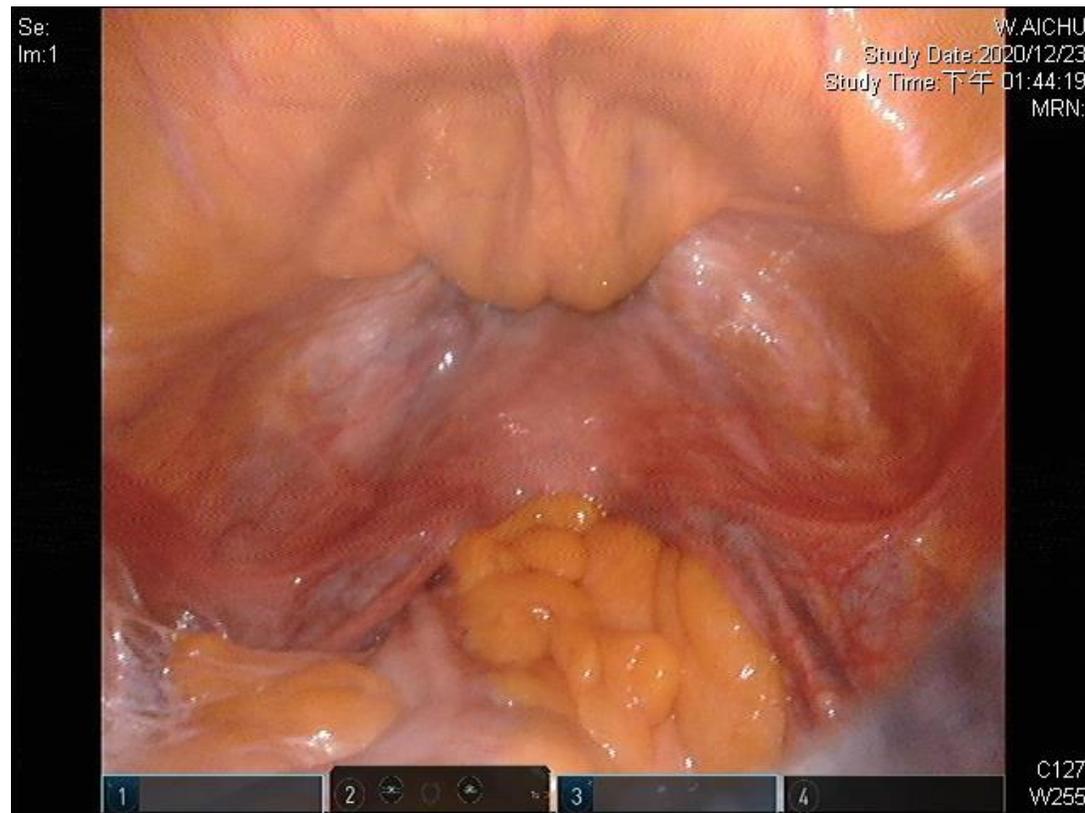
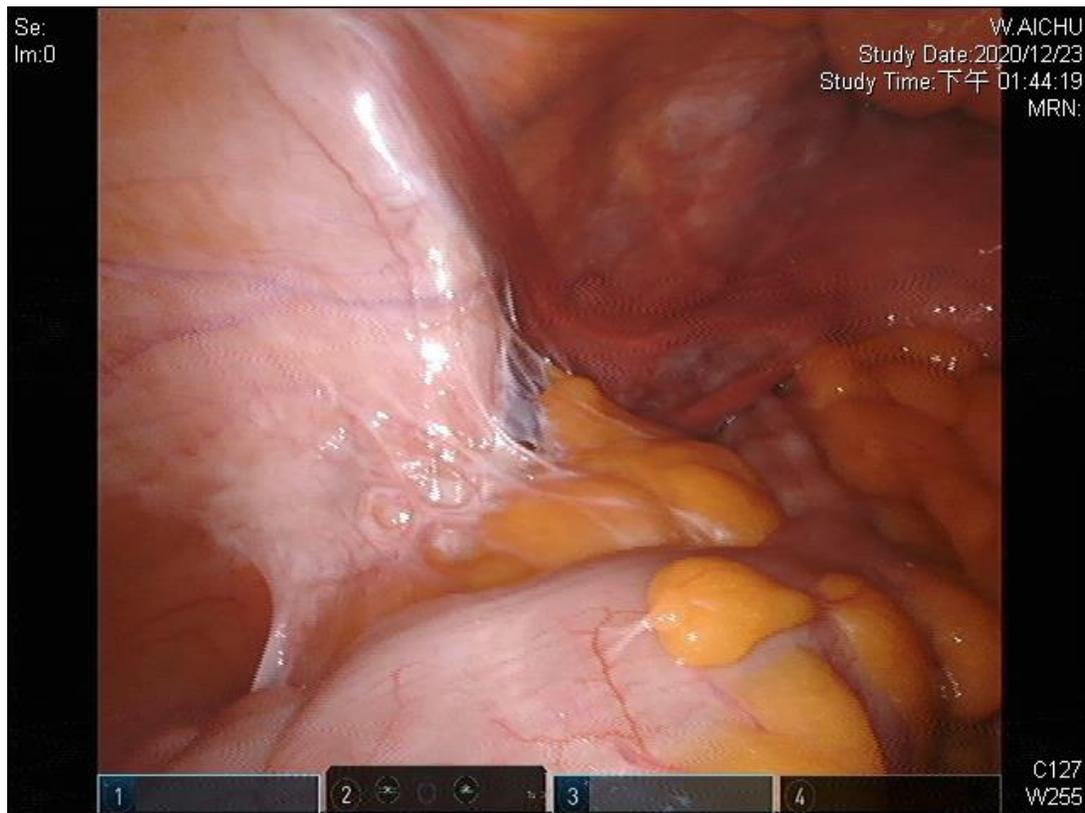
Patient Positioning

Port Placement



87 y/o female
pelvic organ prolapse for 30 years on diapper 3/day
reduction with hand G5P5 NSD

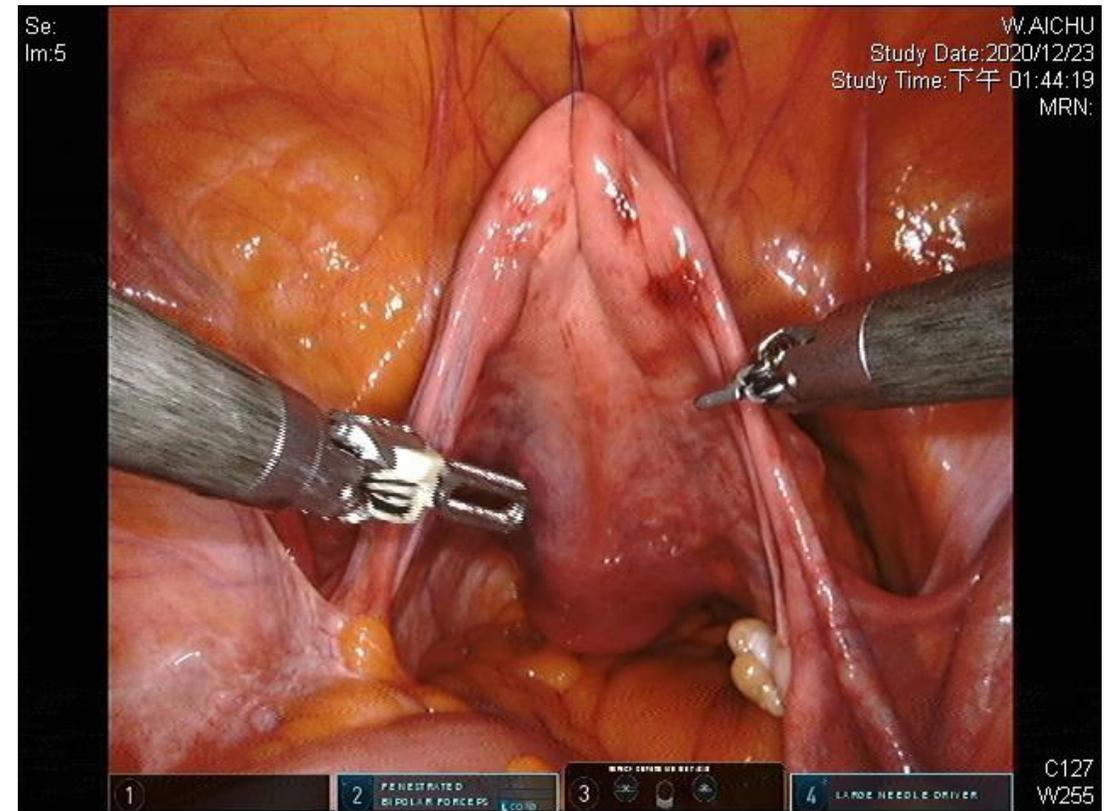
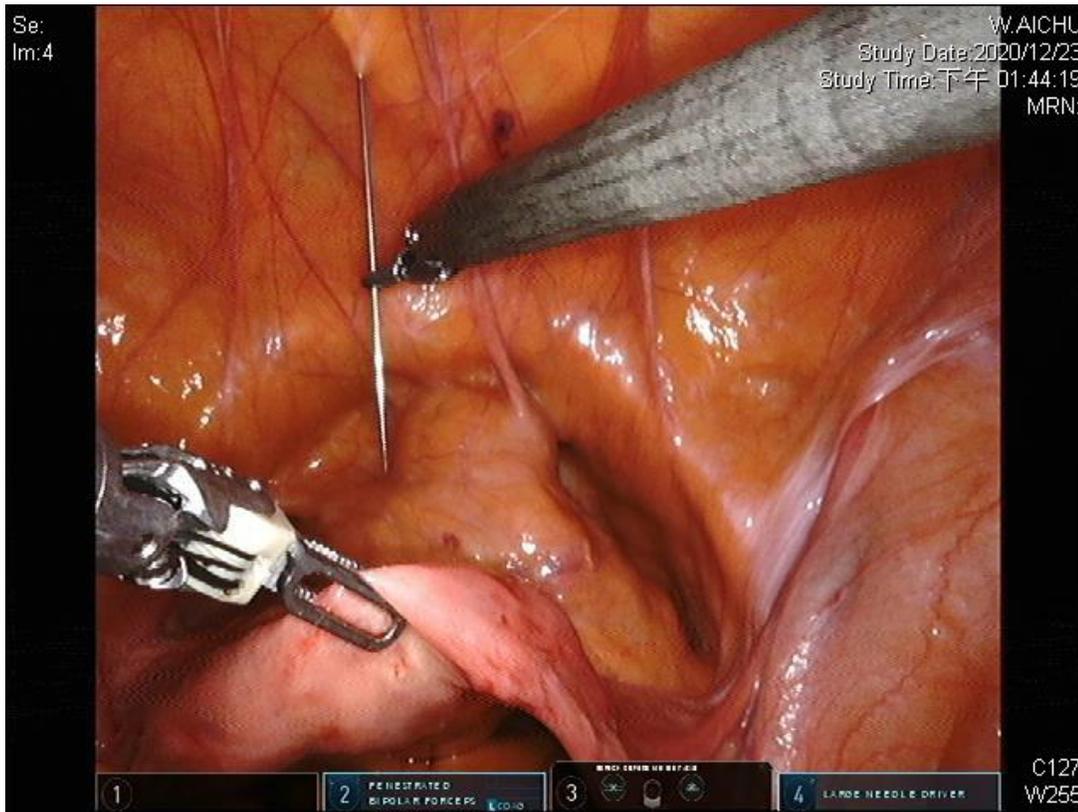
Enterolysis



87 y/o female

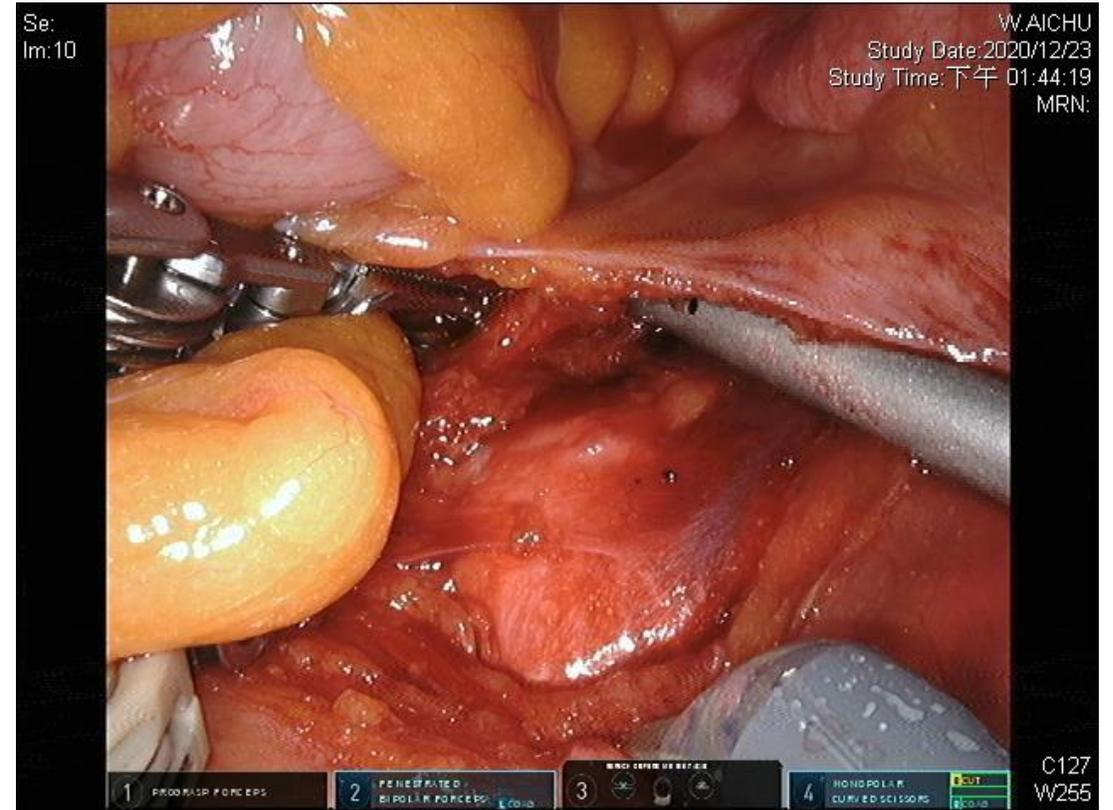
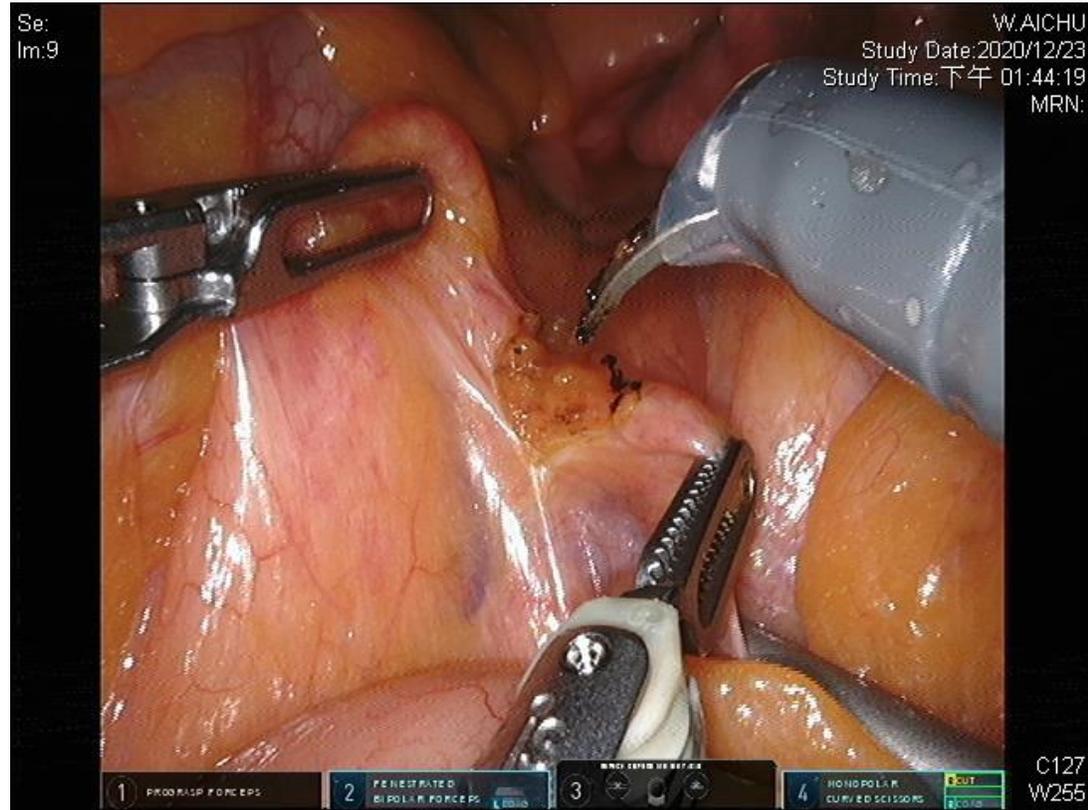
pelvic organ prolapse for 30 years on diapper 3/day
reduction with hand G5P5 NSD

Stay Suture for Upward retraction of Uterus



87 y/o female
pelvic organ prolapse for 30 years on diapper 3/day
reduction with hand G5P5 NSD

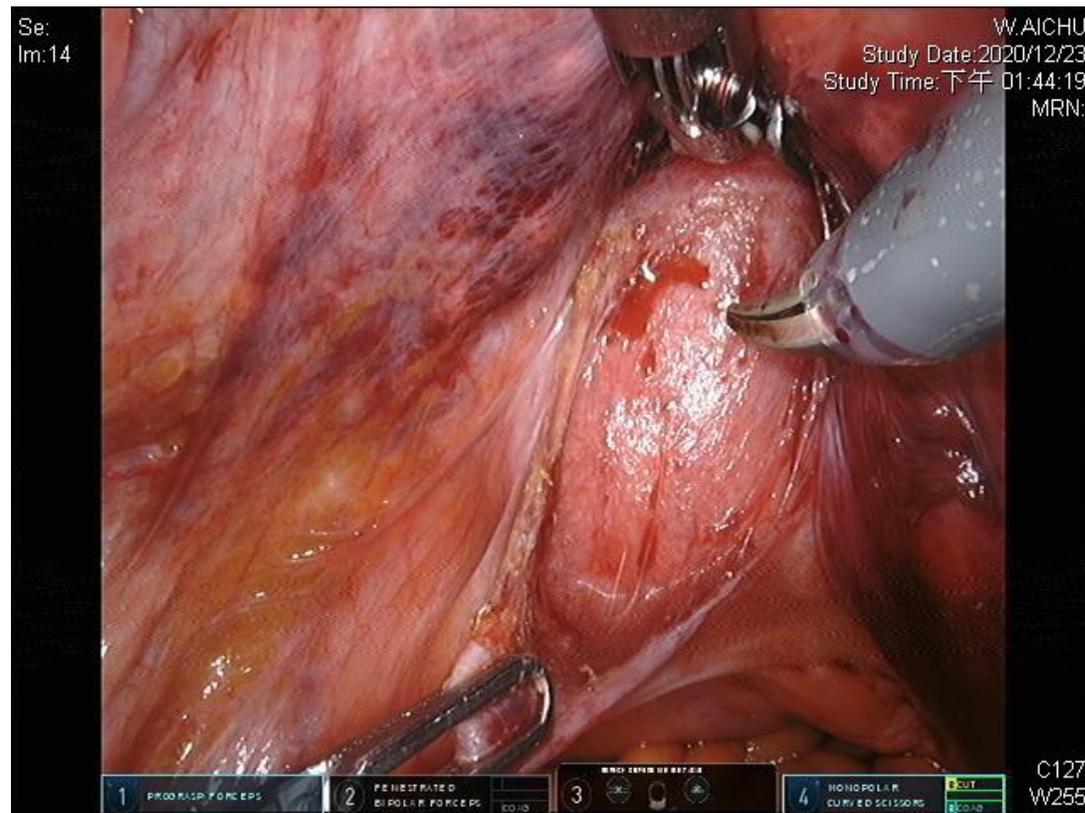
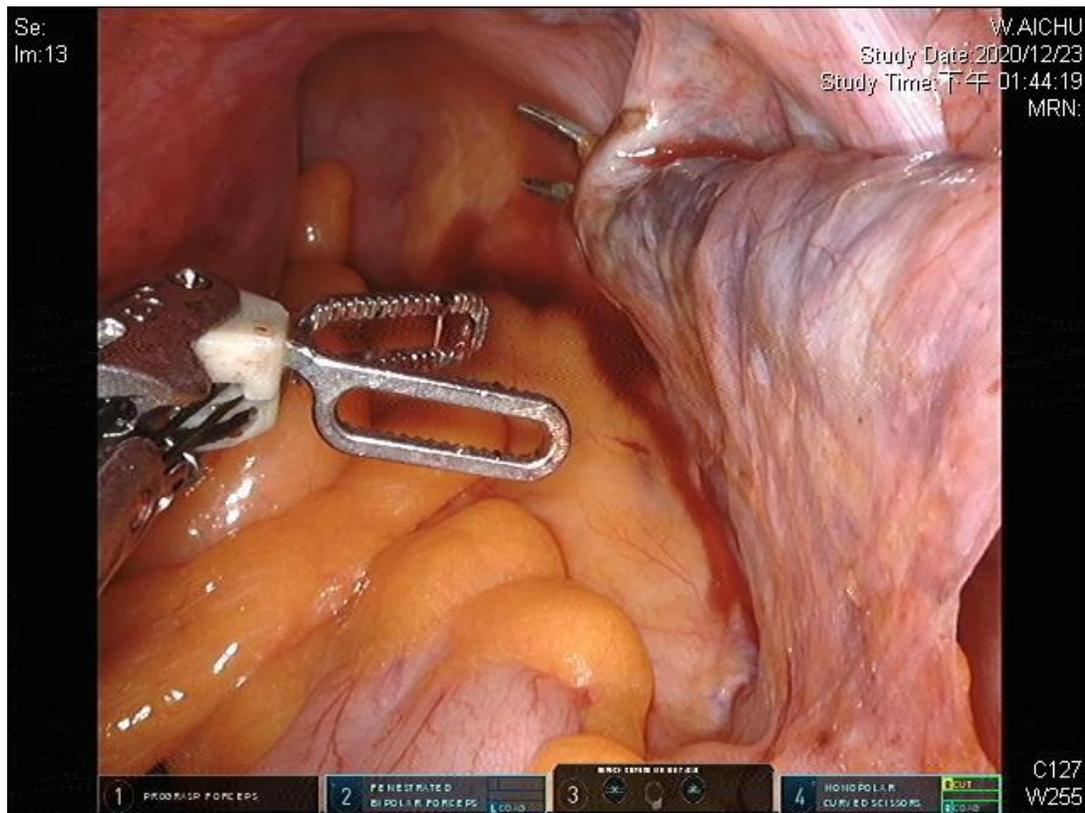
Dissection of Sacral Promontory



87 y/o female

pelvic organ prolapse for 30 years on diapper 3/day
reduction with hand G5P5 NSD

Dissection of Parietal Peritoneum

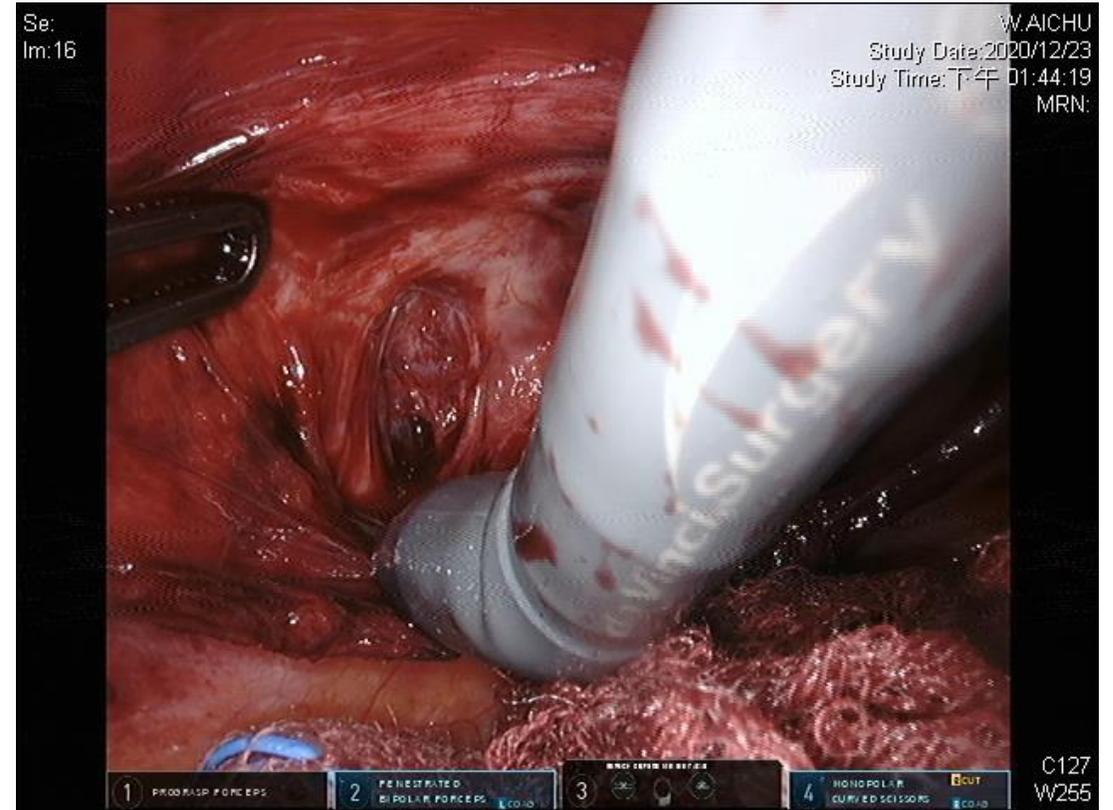
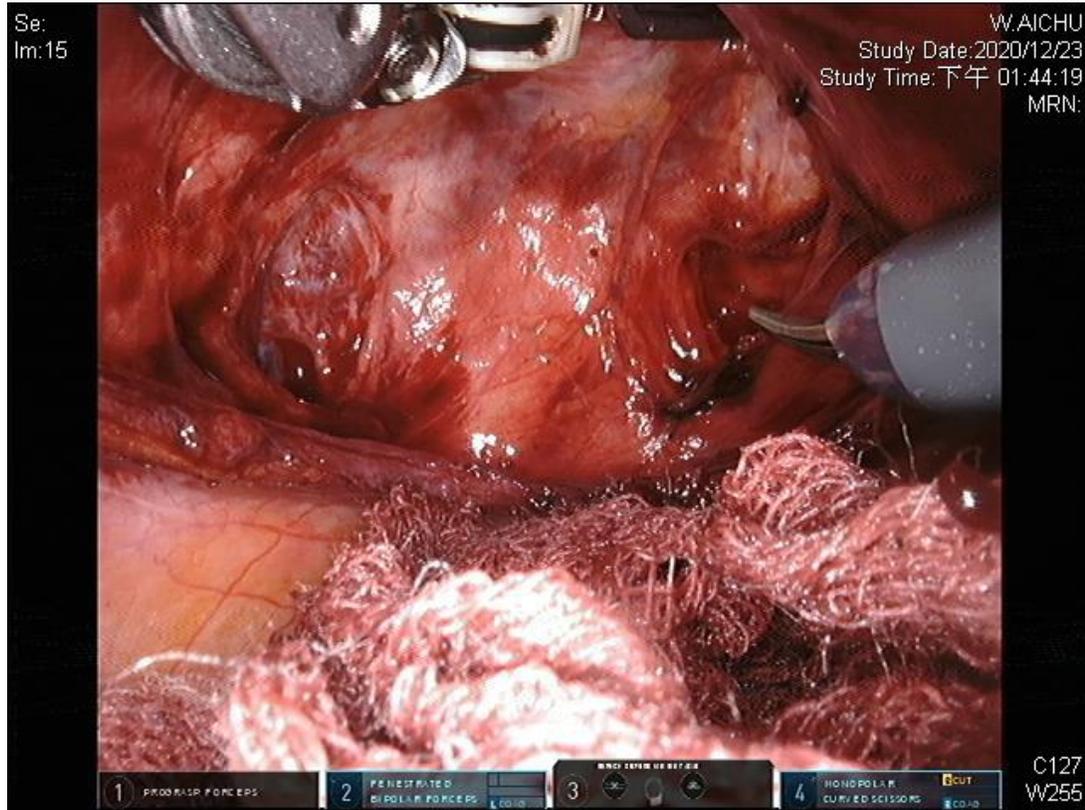


87 y/o female

pelvic organ prolapse for 30 years
reduction with hand

on diapper 3/day
G5P5 NSD

Opening of Douglas Space and dissection of Posterior Vagivnal Wall

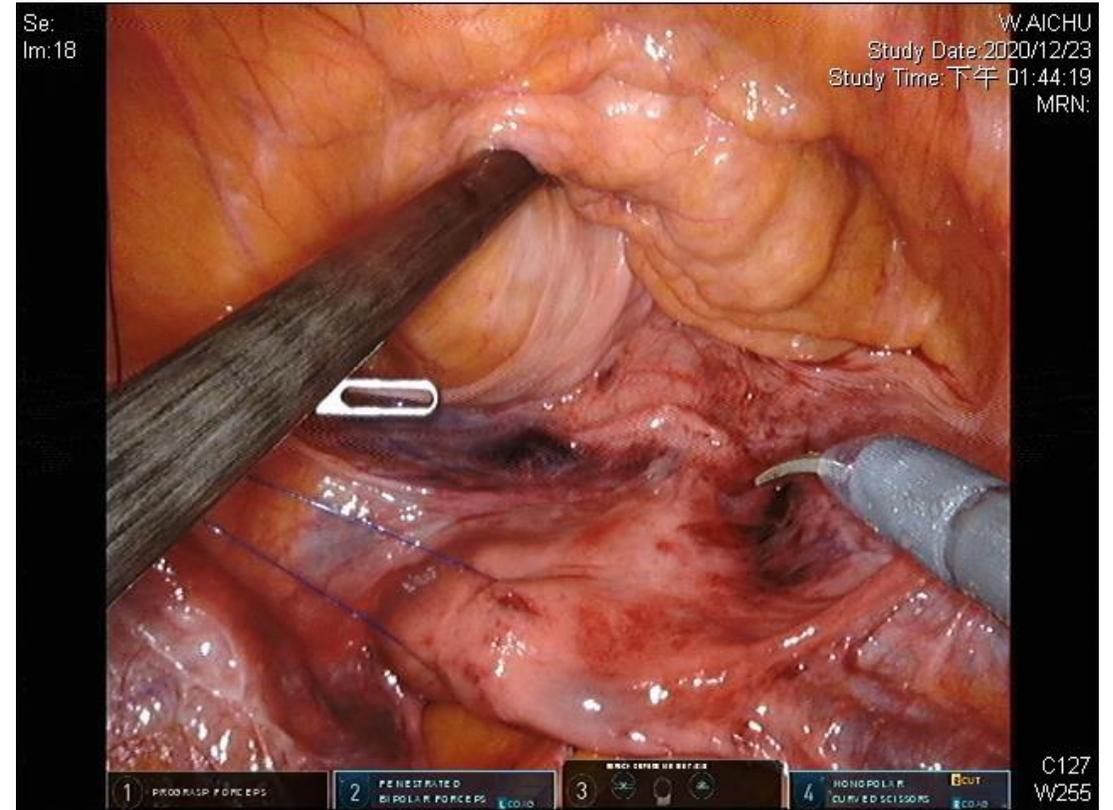
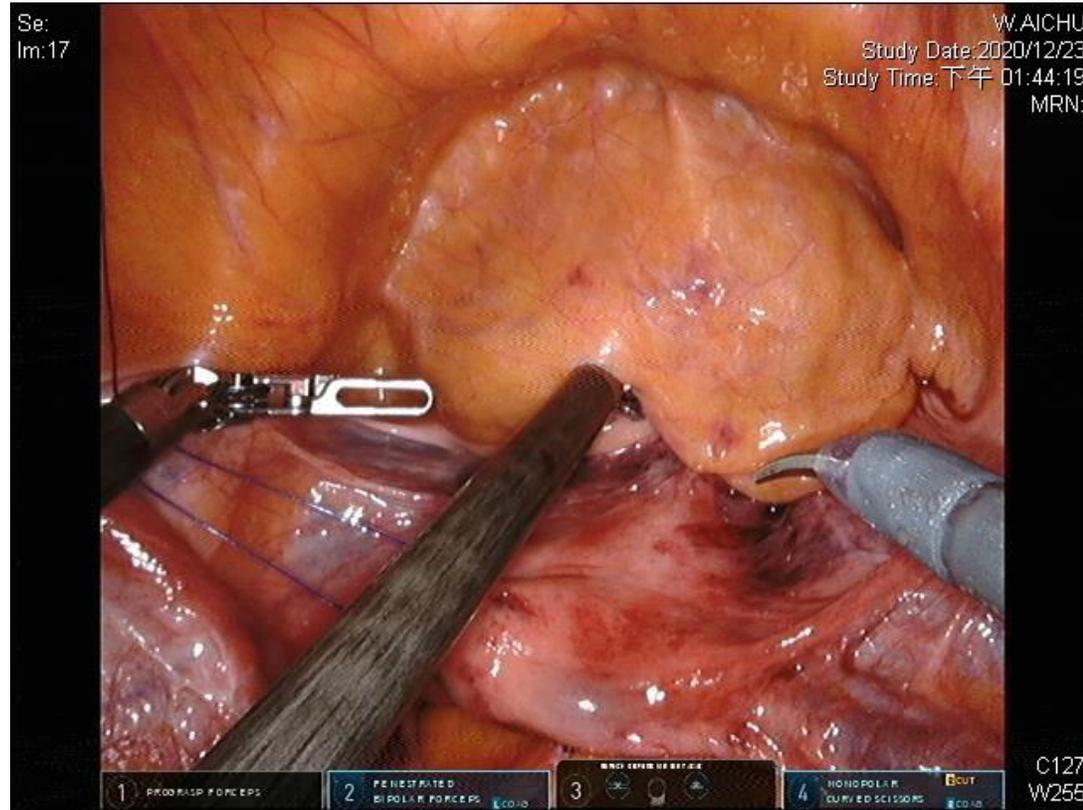


87 y/o female

pelvic organ prolapse for 30 years
reduction with hand

on diapper 3/day
G5P5 NSD

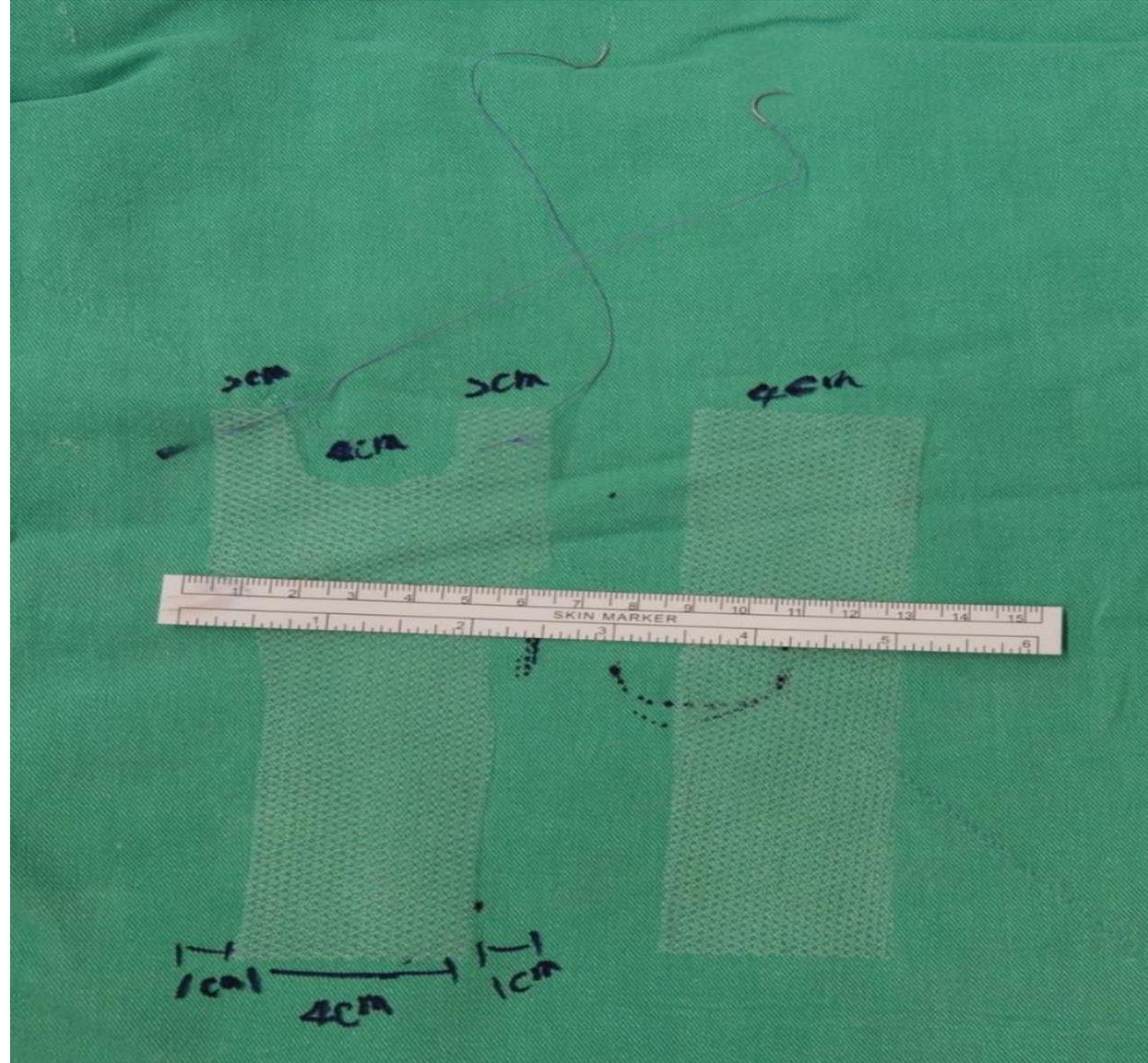
Insertion of Vaginal Valve and Dissection of Anterior Vaginal Wall Foly infusion 150 ml



87 y/o female

pelvic organ prolapse for 30 years
reduction with hand

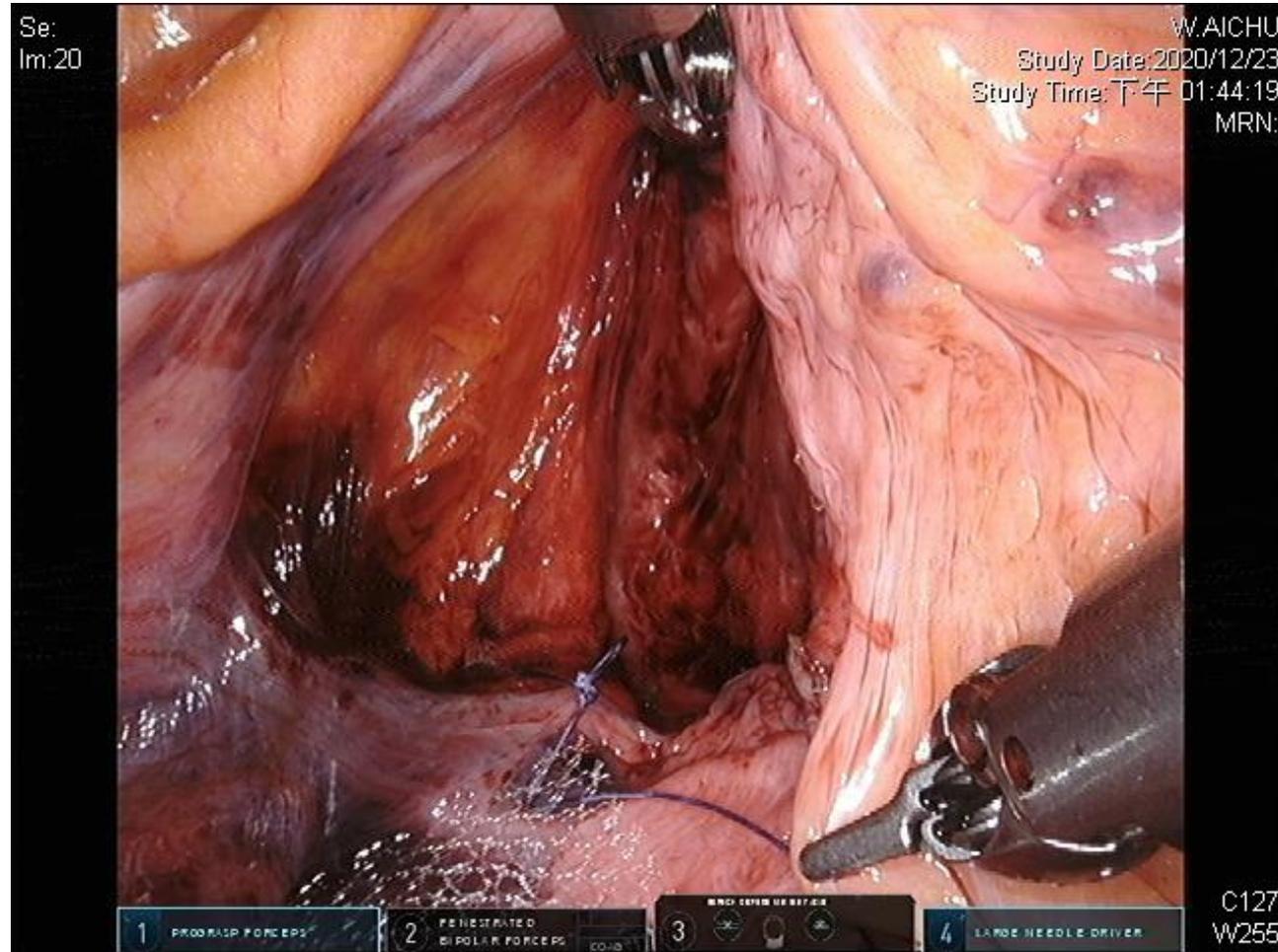
on diapper 3/day
G5P5 NSD



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pelvic organ prolapse for 30 years on diapper 3/day
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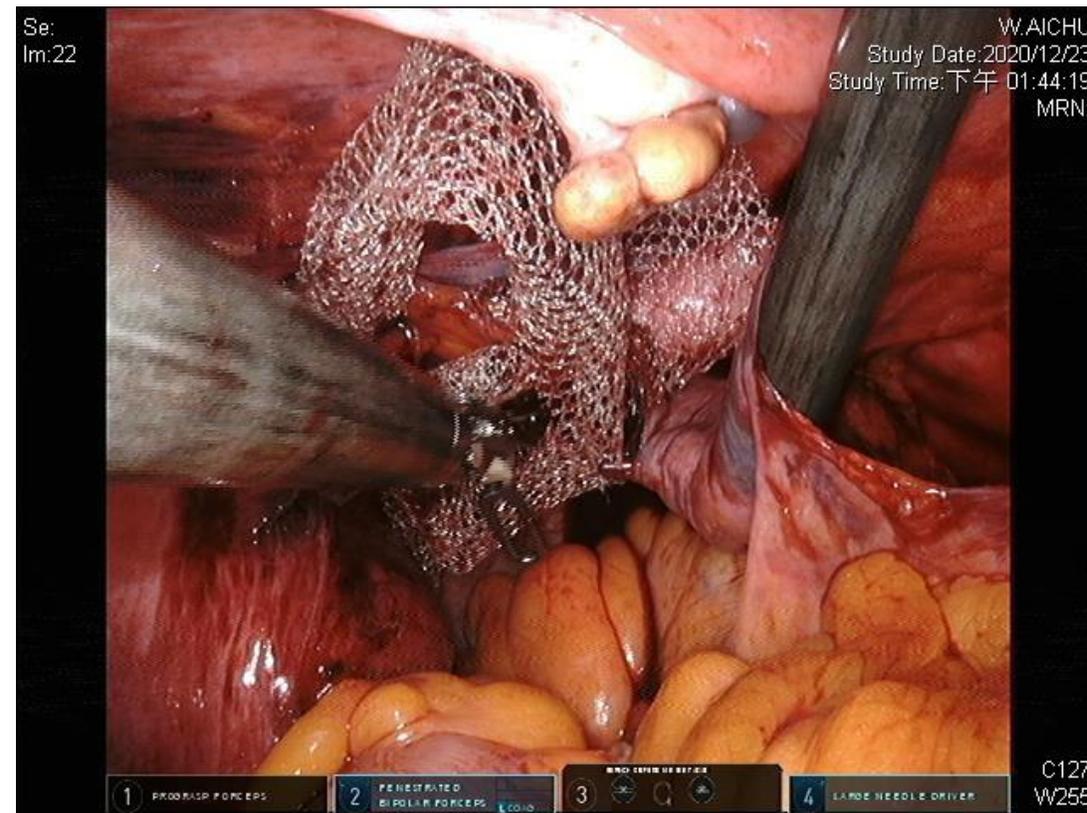
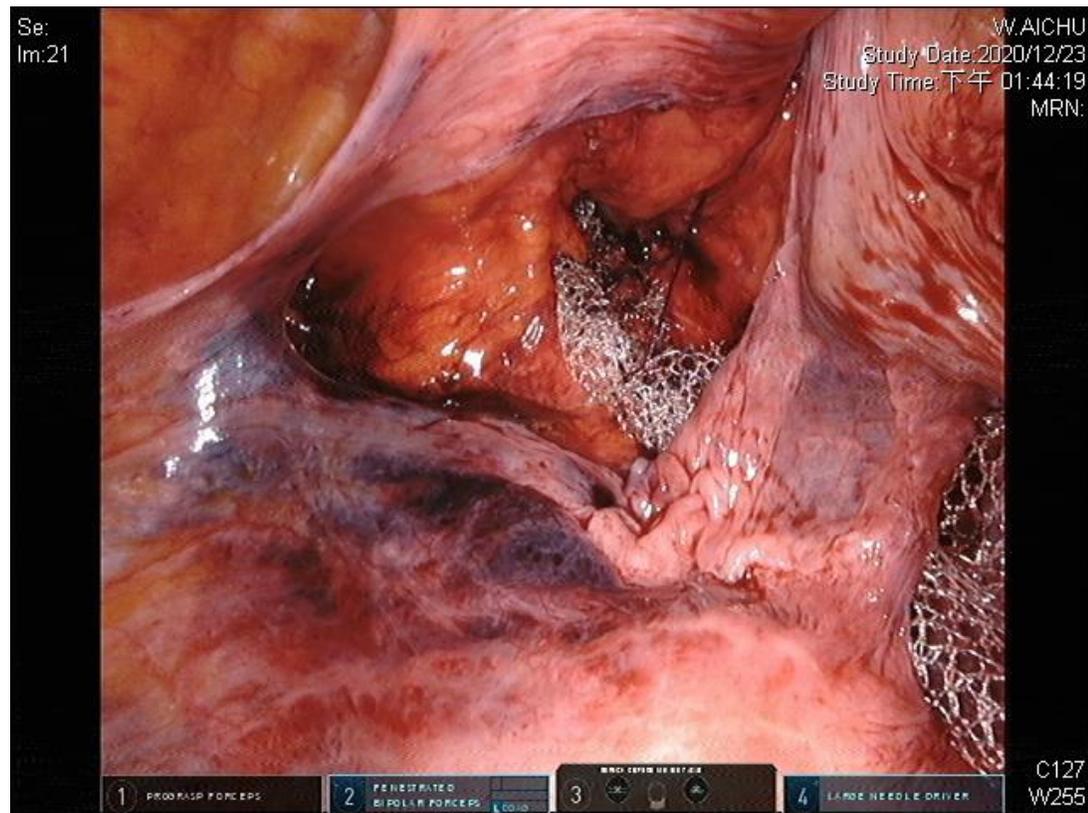
Fixation of the Anterior Mesh on the Anterior Vaginal Wall



87 y/o female

pelvic organ prolapse for 30 years on diapper 3/day
reduction with hand G5P5 NSD

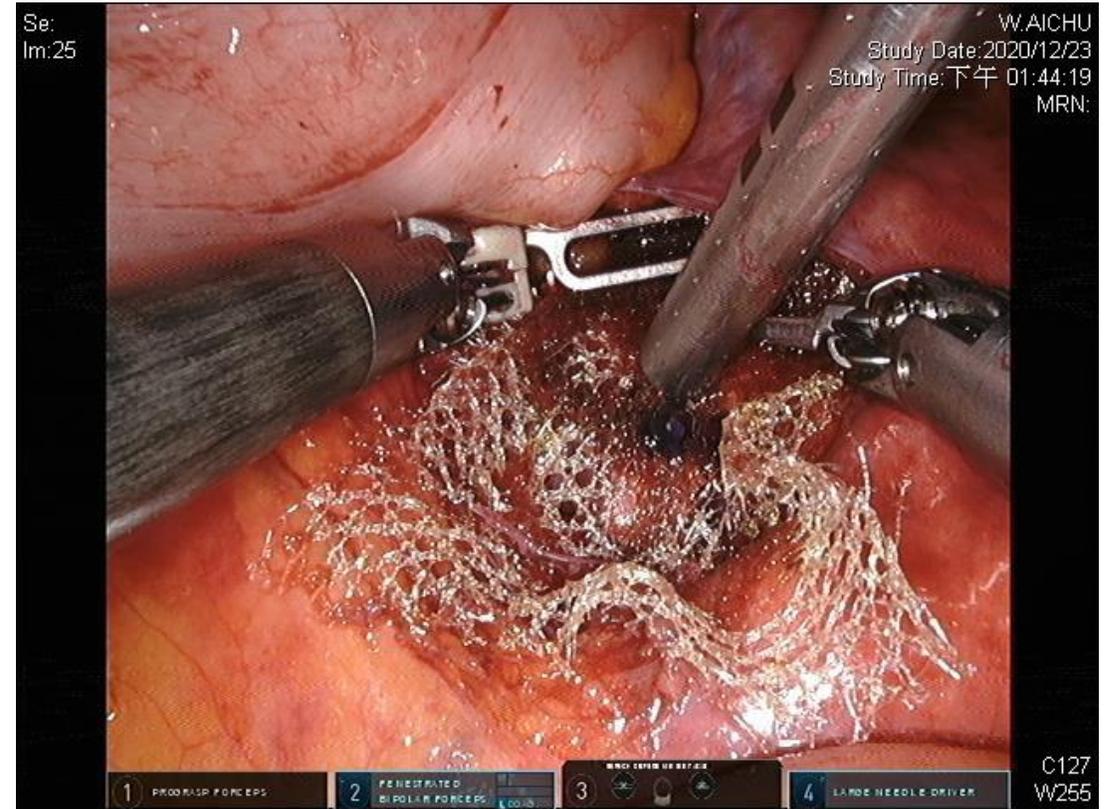
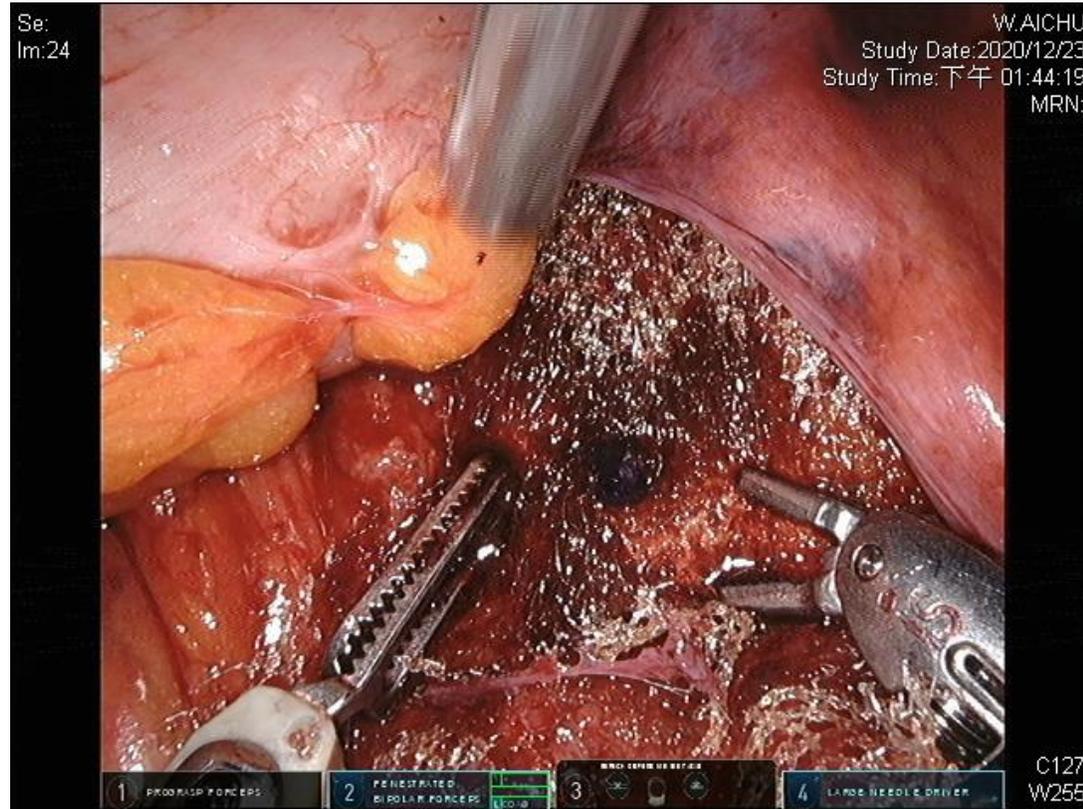
Passage of Both Meshs Under Parietal Peritoneum



87 y/o female

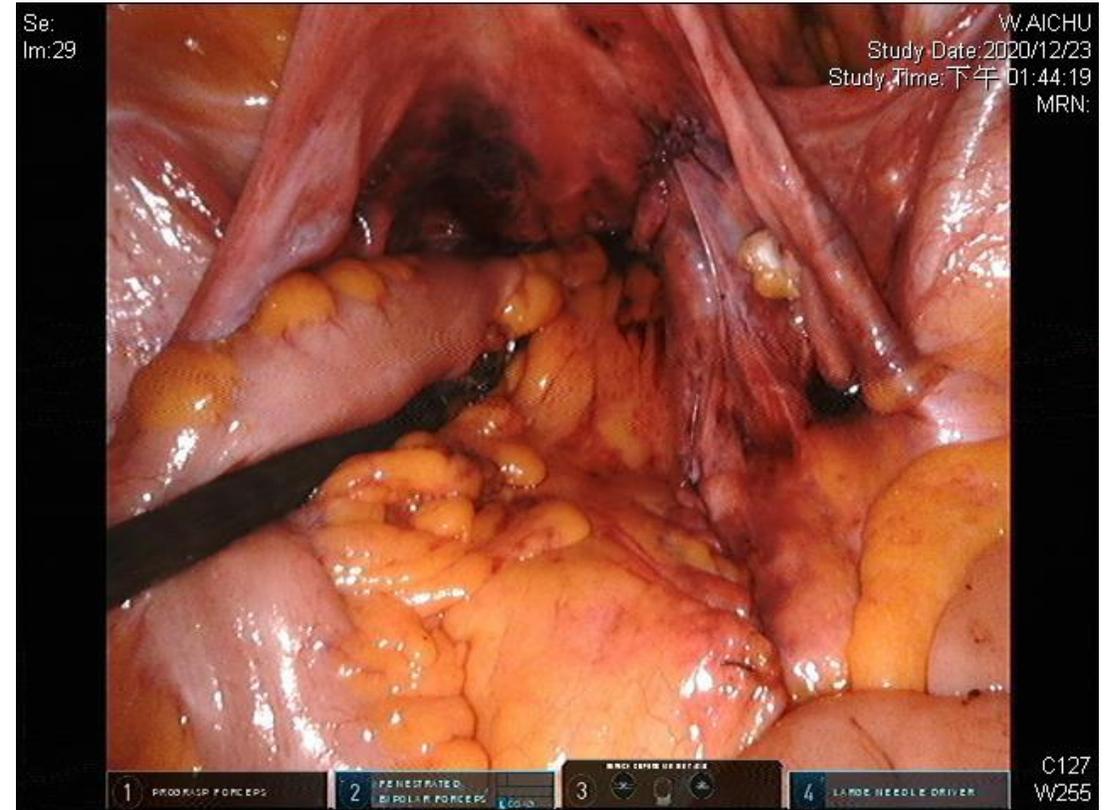
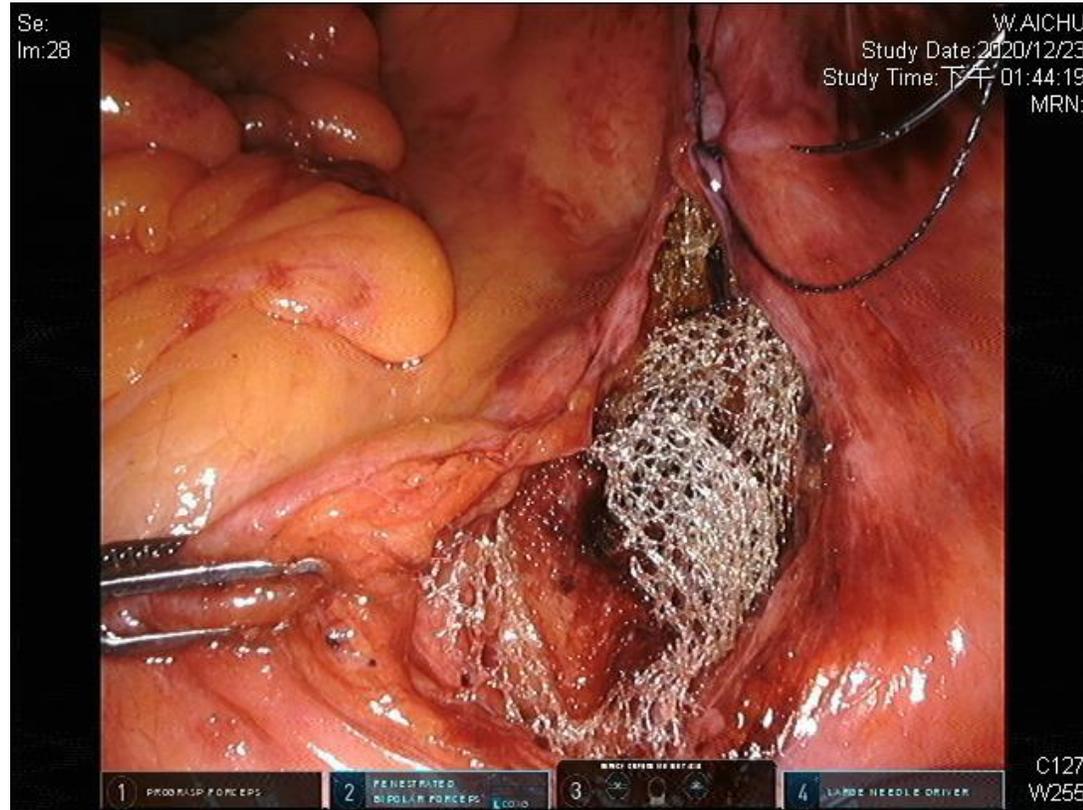
pelvic organ prolapse for 30 years on diapper 3/day
reduction with hand G5P5 NSD

Fixation of Both mesh to Sacral Promontary Spiral Tag

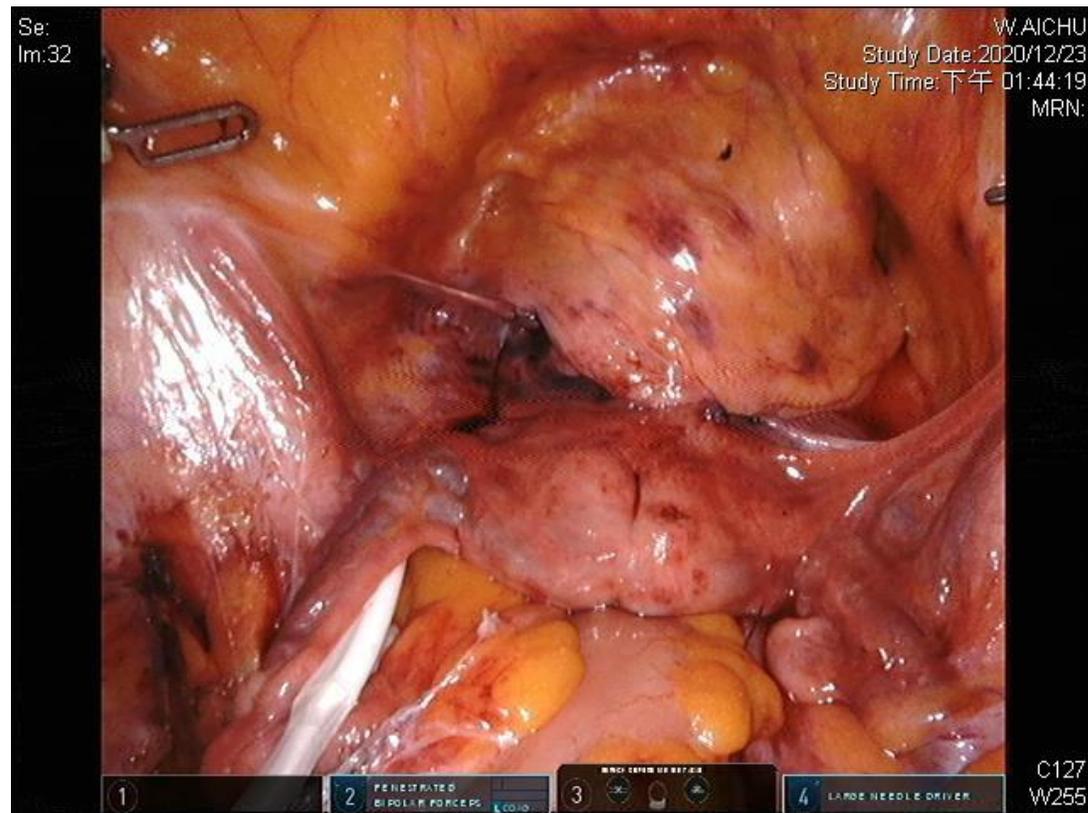
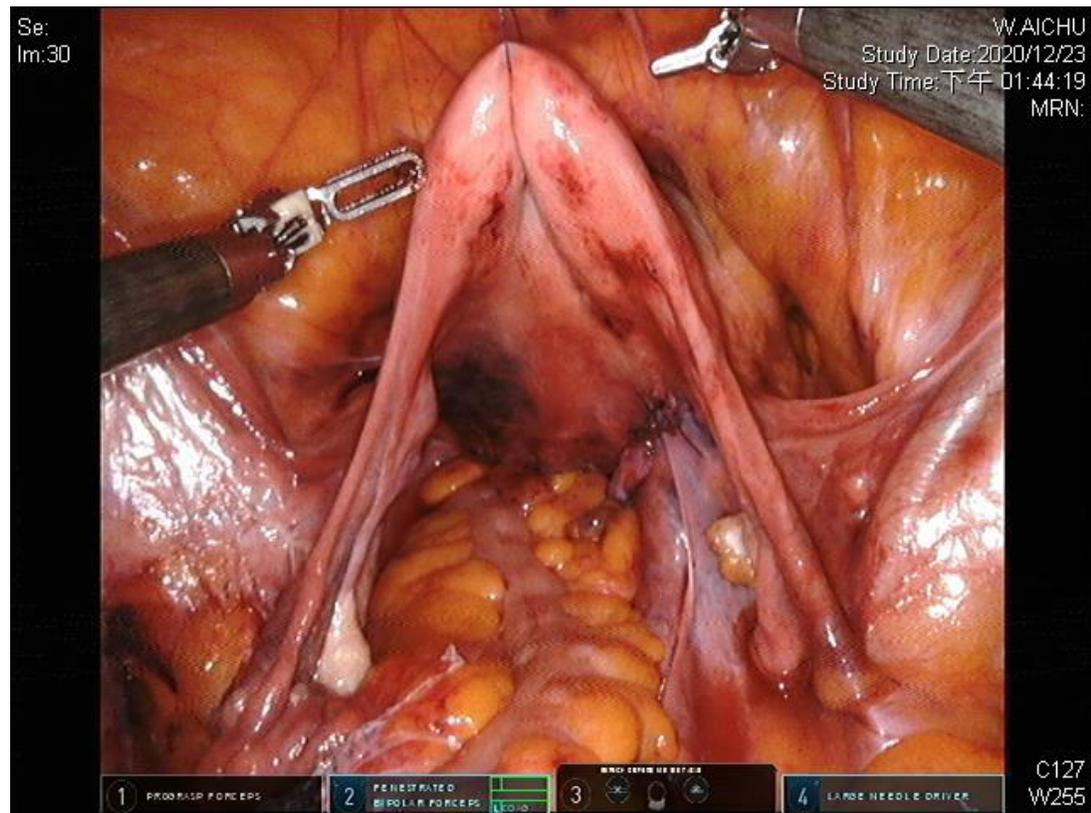


87 y/o female
pelvic organ prolapse for 30 years on diapper 3/day
reduction with hand G5P5 NSD

Retroperitonealization of the meshes



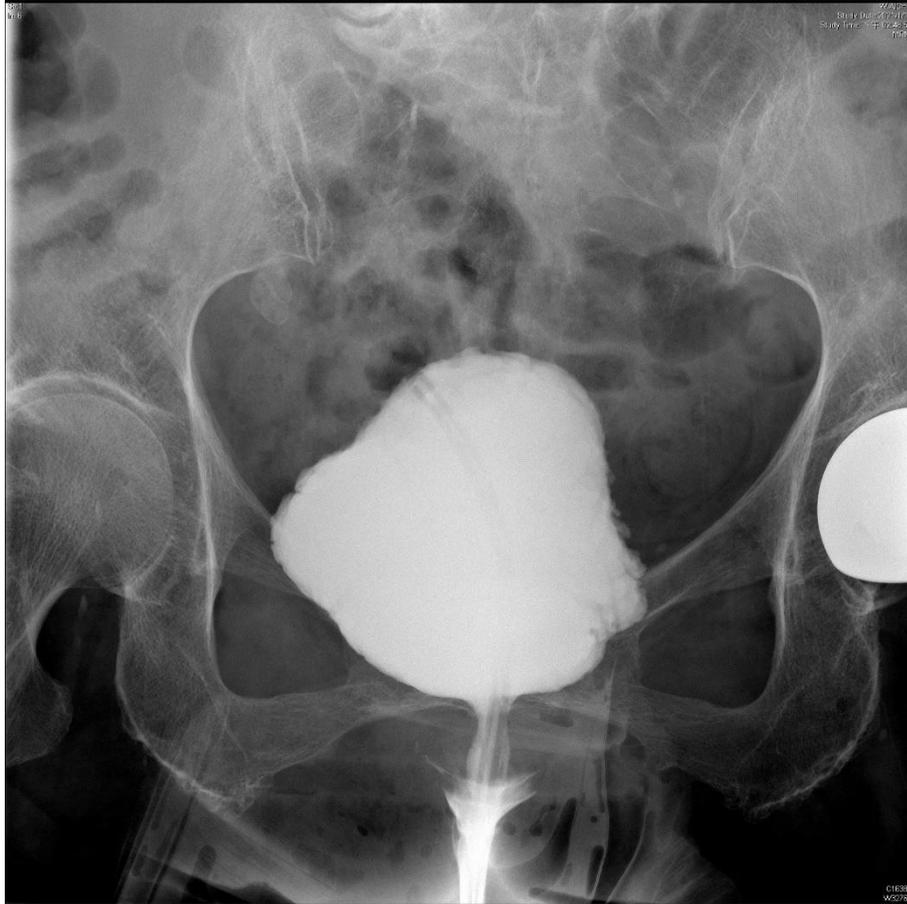
87 y/o female
pelvic organ prolapse for 30 years on diapper 3/day
reduction with hand G5P5 NSD



87 y/o female
pelvic organ prolapse for 30 years
reduction with hand

on diapper 3/day
G5P5 NSD

Post Op



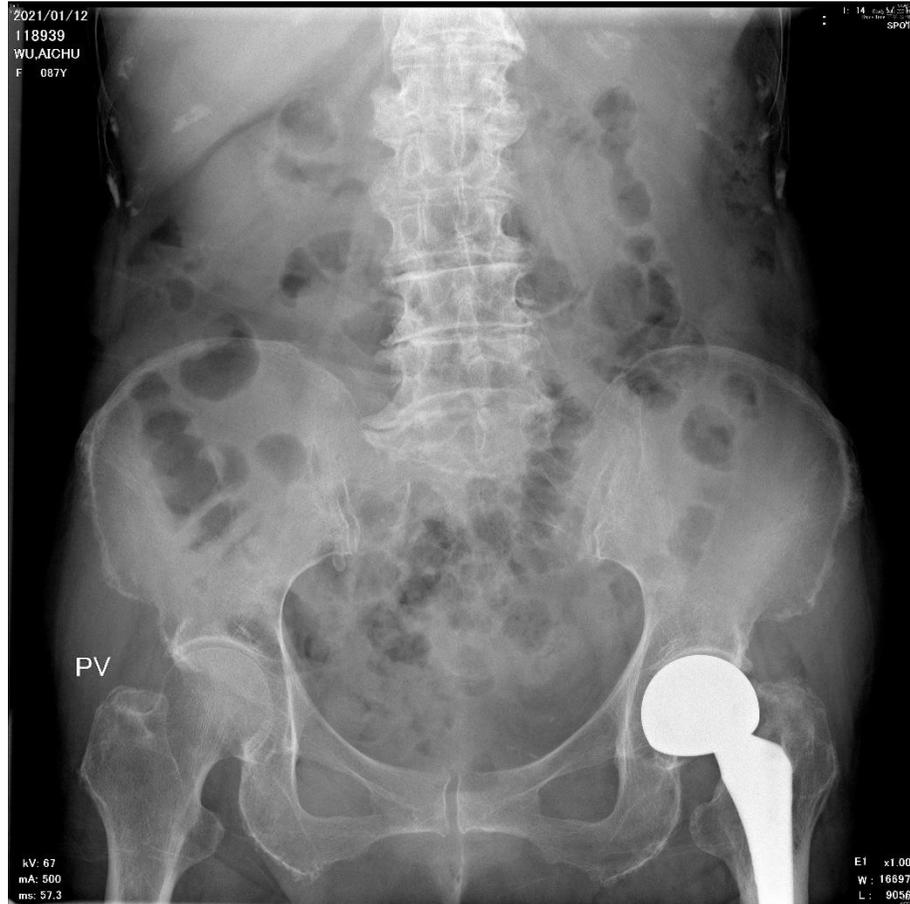
Pre Op



87 y/o female
pelvic organ prolapse for 30 years
reduction with hand

on diapper 3/day
G5P5 NSD

Post Op
Post Void



Pre Op
Post Void

