

# CLOACA

**Alberto Peña, MD**

The 66<sup>th</sup> Workshop for the Surgical Treatment of Colorectal Problems in Children



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# 1982 Monterrey, Mexico

## First Posterior Sagittal Approach to repair a cloaca.

By Alberto Peña  
Maricela Zarate  
Marshall Schwartz



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# March 2022

- More than **661** cloacas operated and counting...

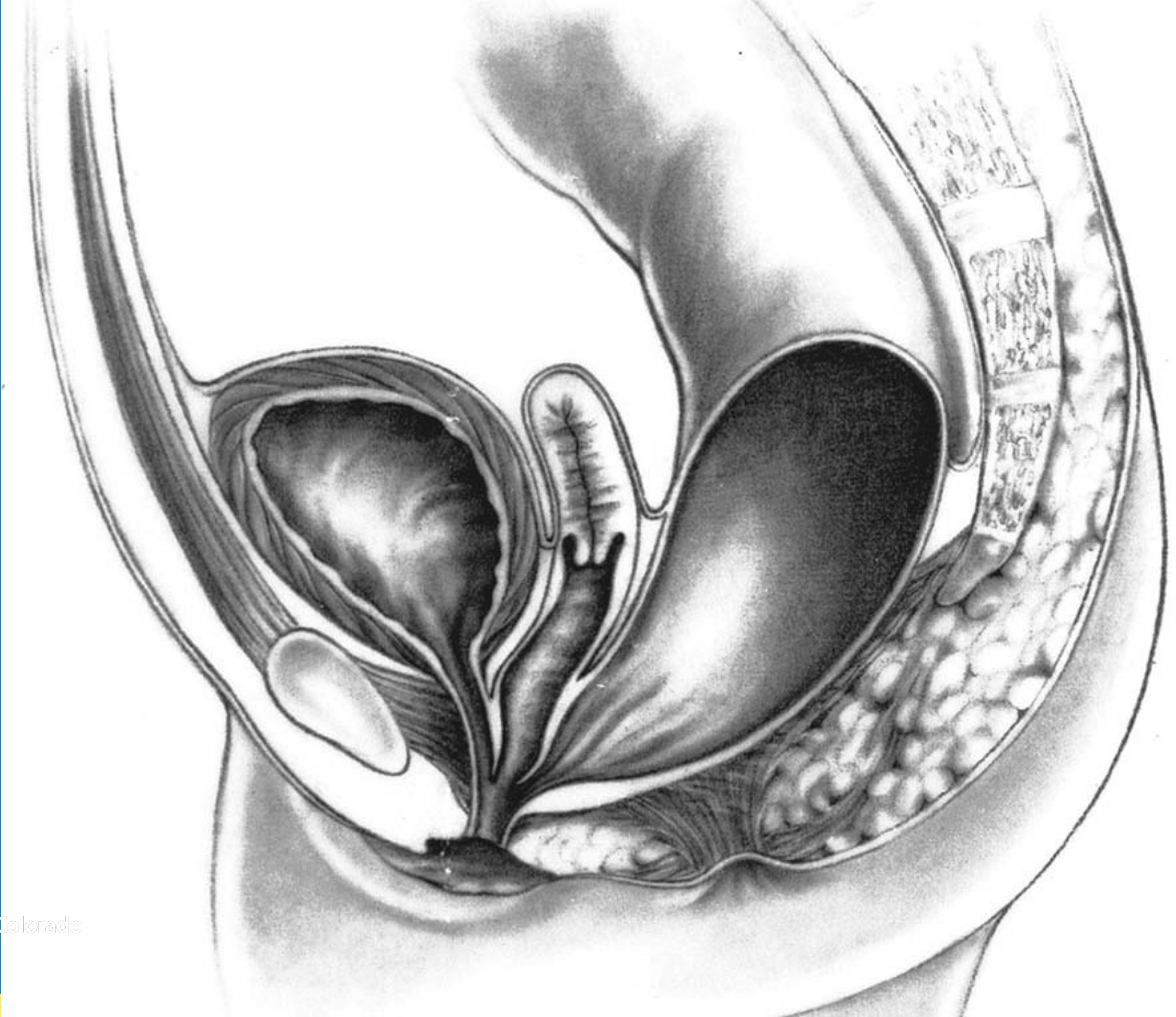
## MANY LESSONS LEARNED!!



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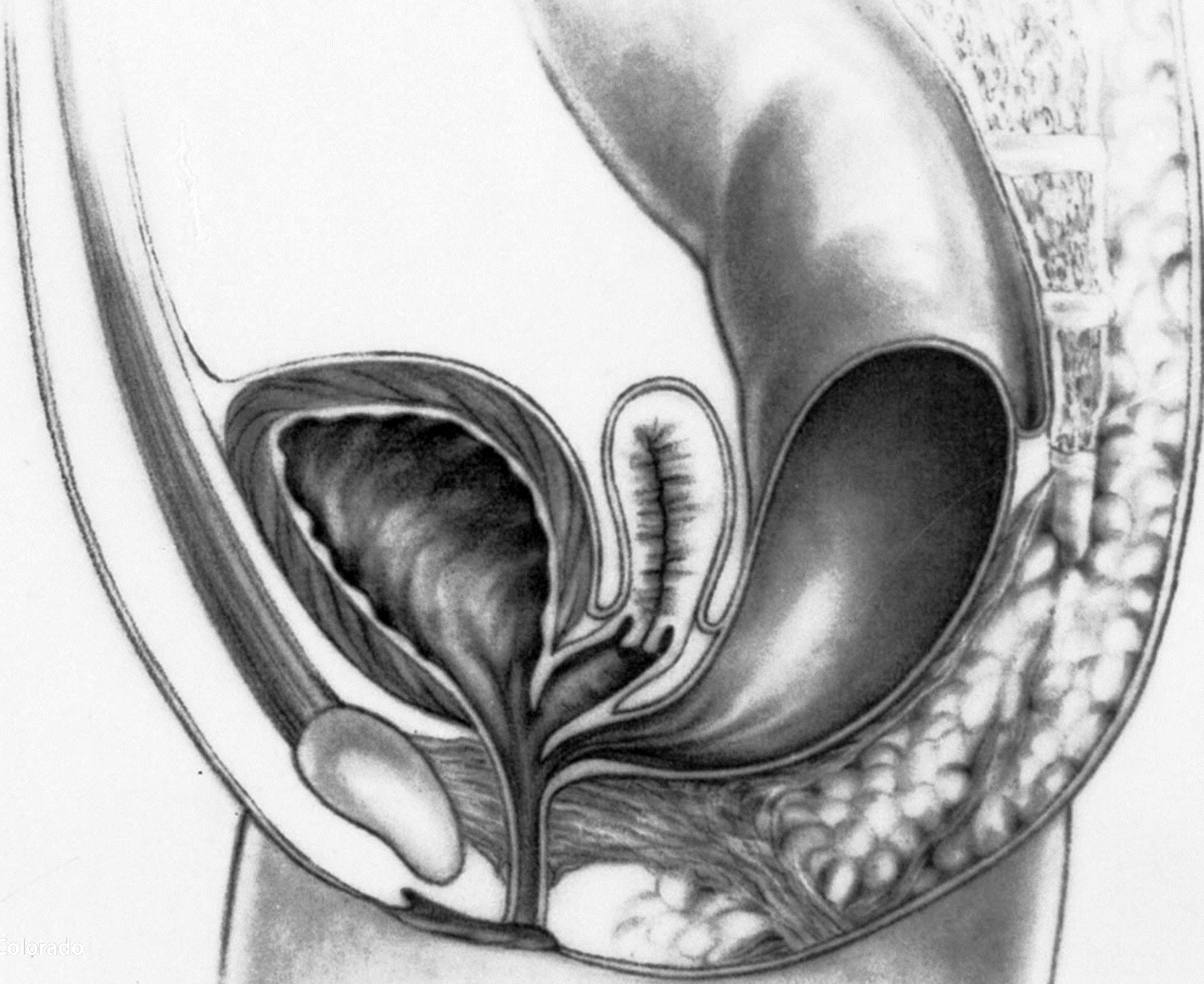




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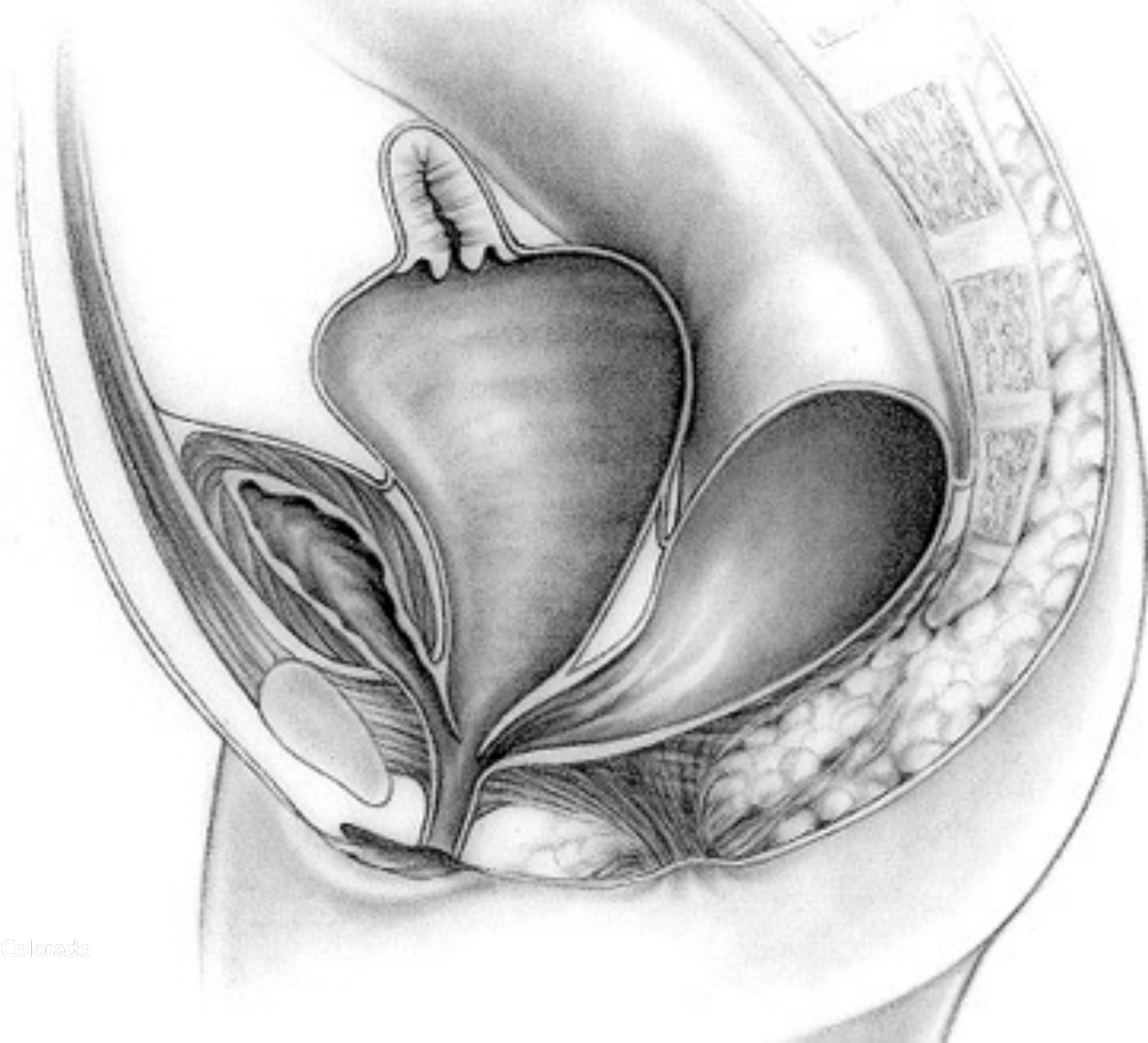
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# NEONATAL APPROACH



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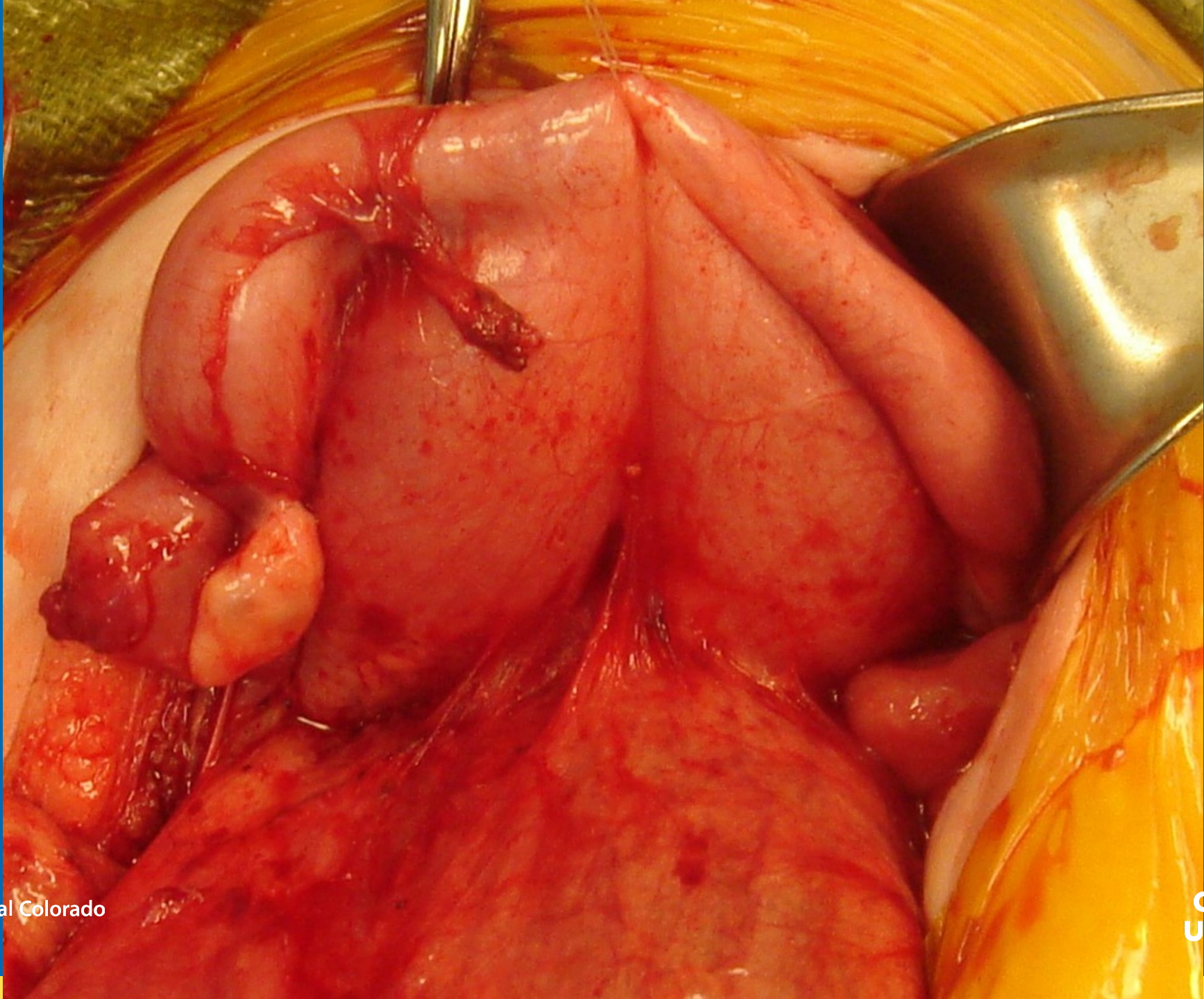
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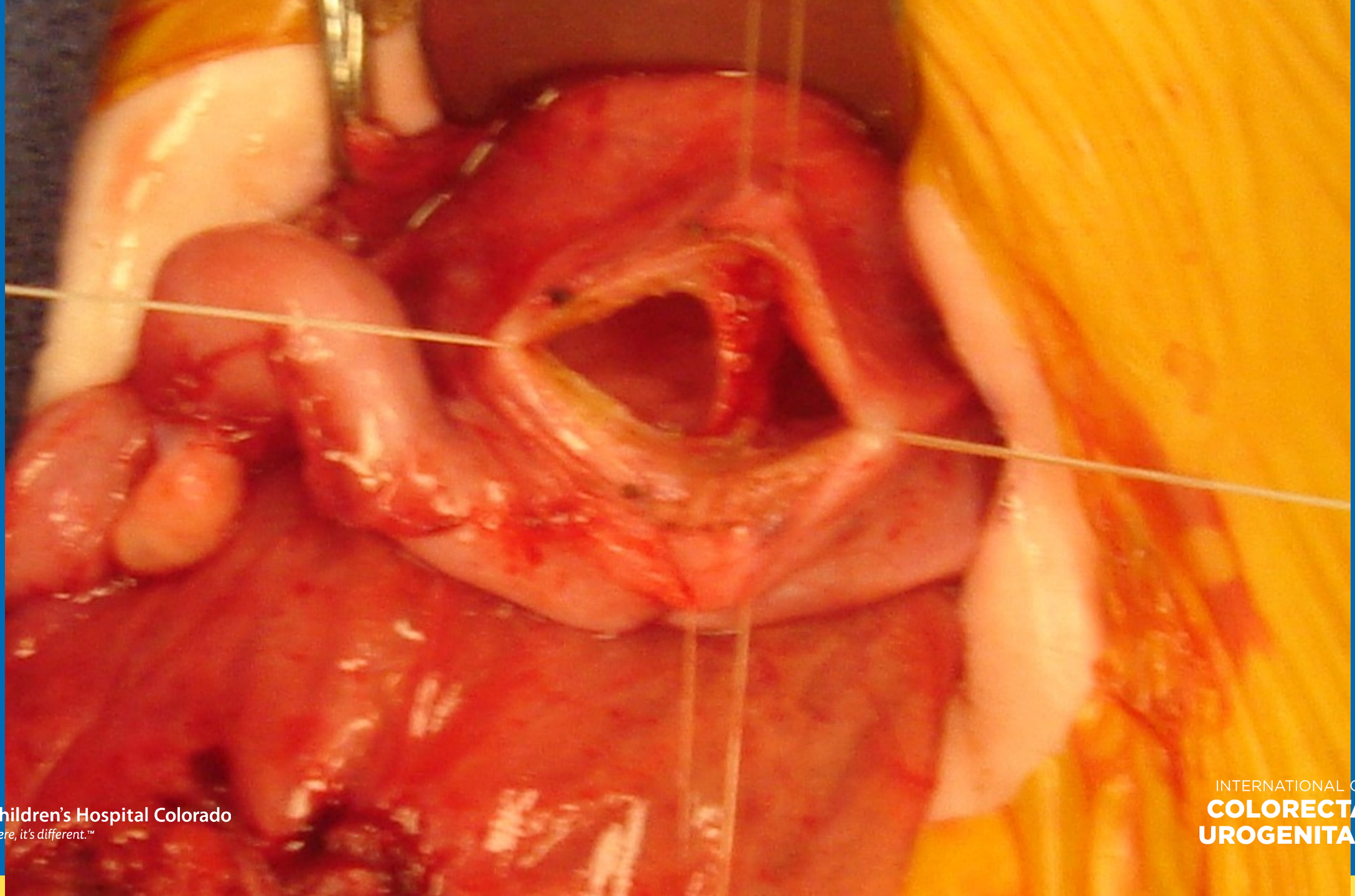




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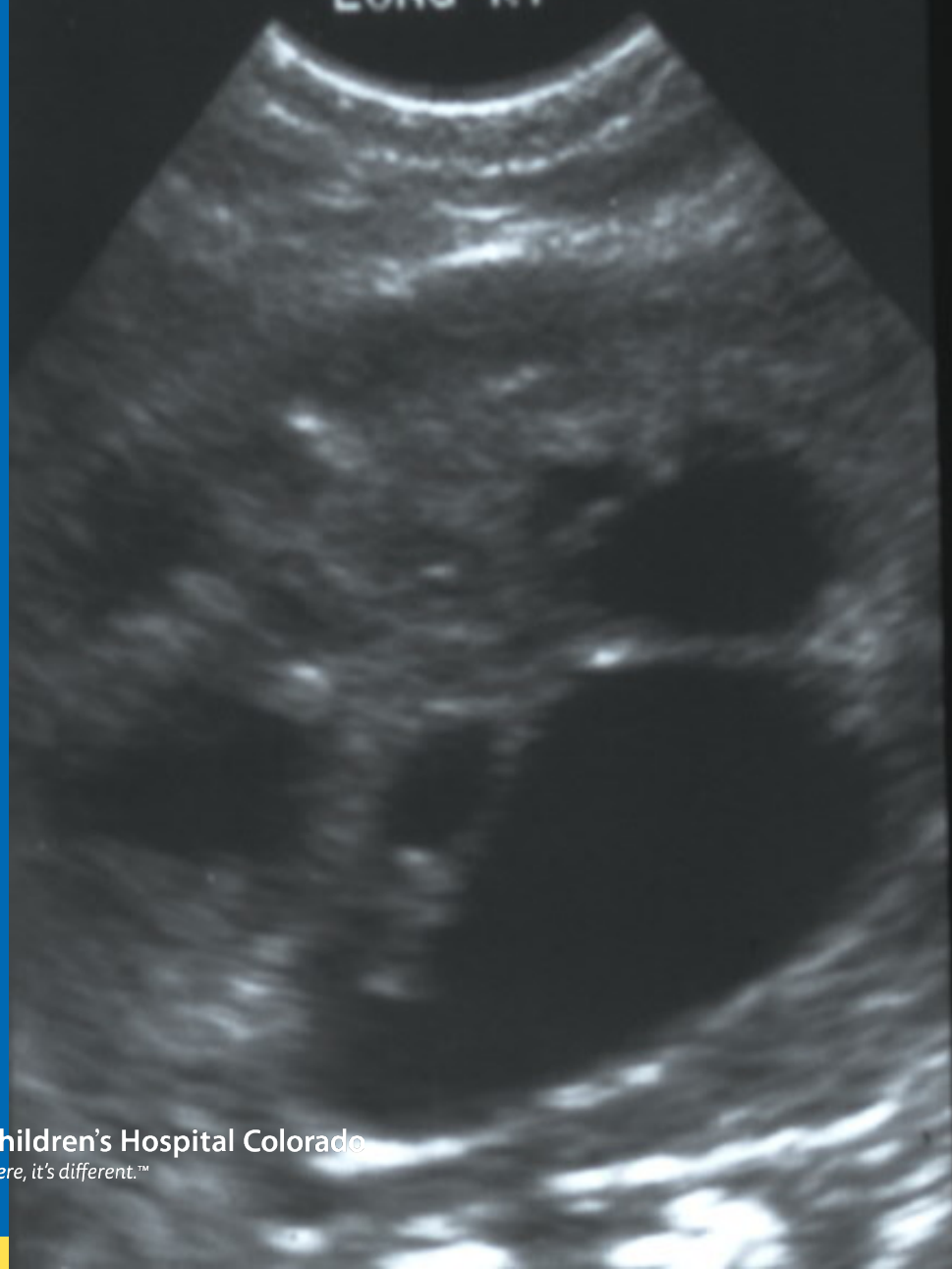


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9-FEB-96 BG: 35 NG: 0 PG: 3  
16:01:43 DYN: 3 ENH: 2 SCC: 1

LONG RT



06:35:50 DYN: 3 ENH: 2 SCC: 1

LONG RT

D1: 43.2mm



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# MAIN REPAIR



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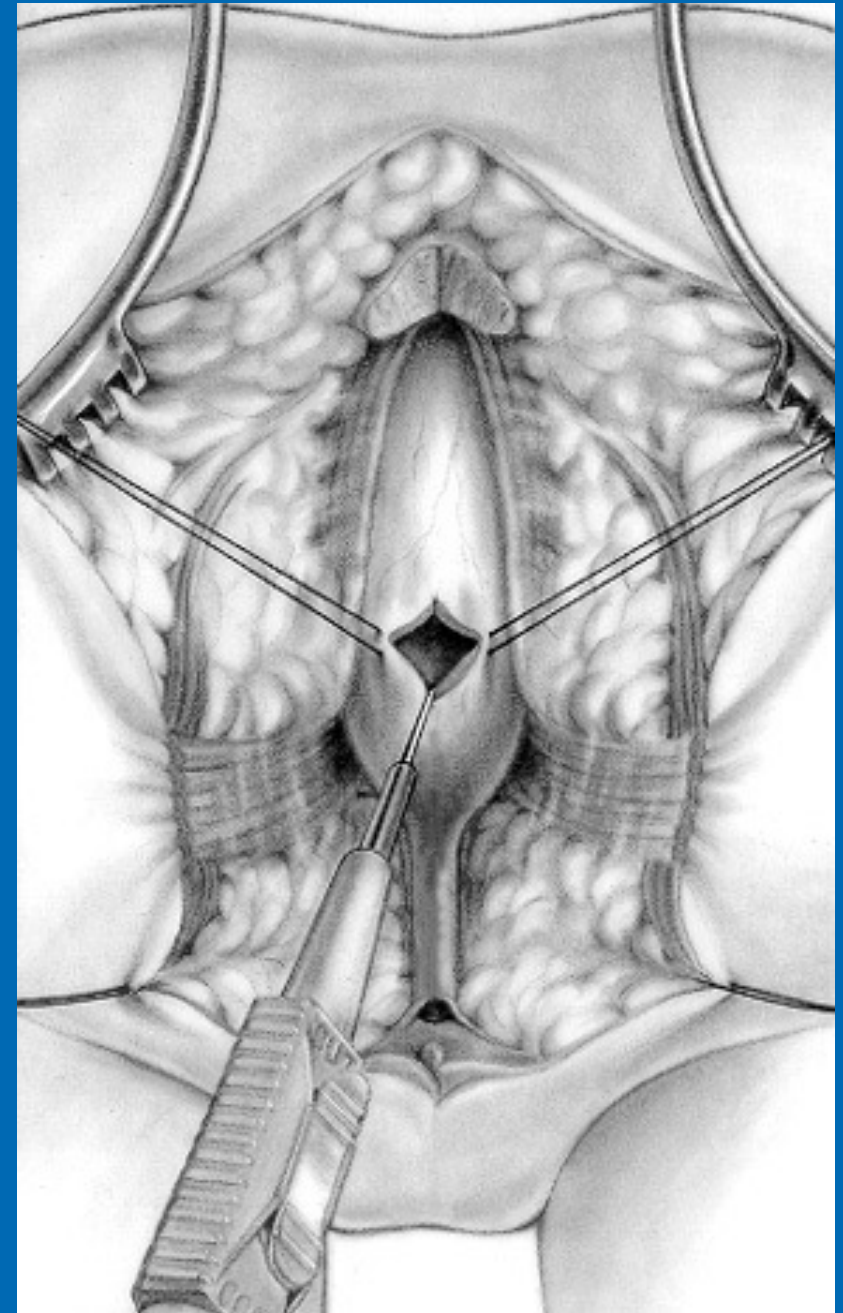
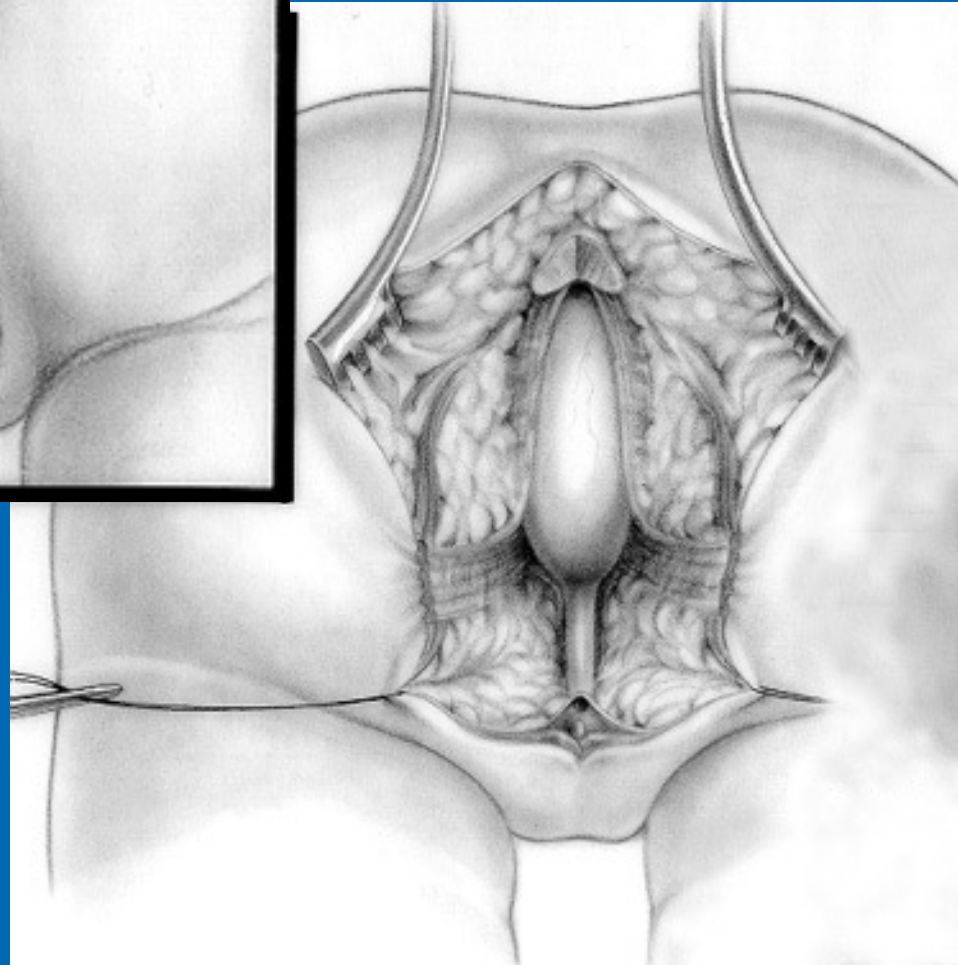
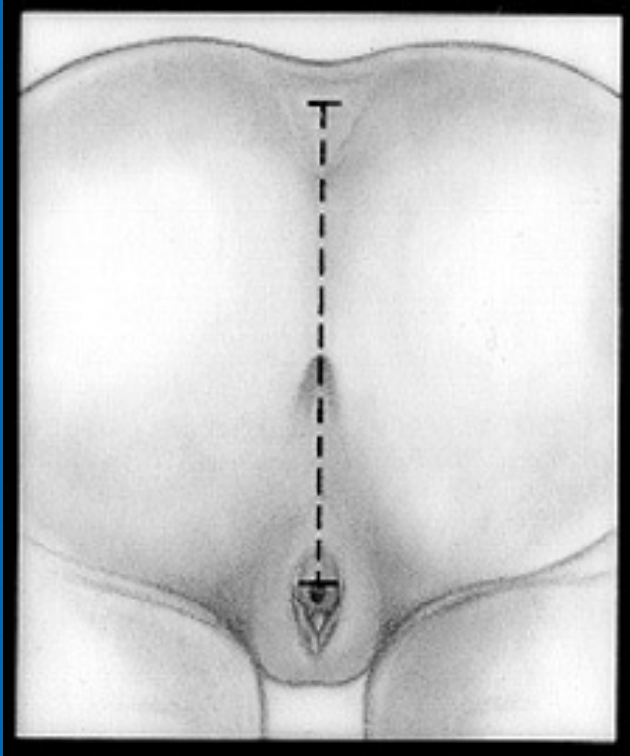
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# Original PSARVUP

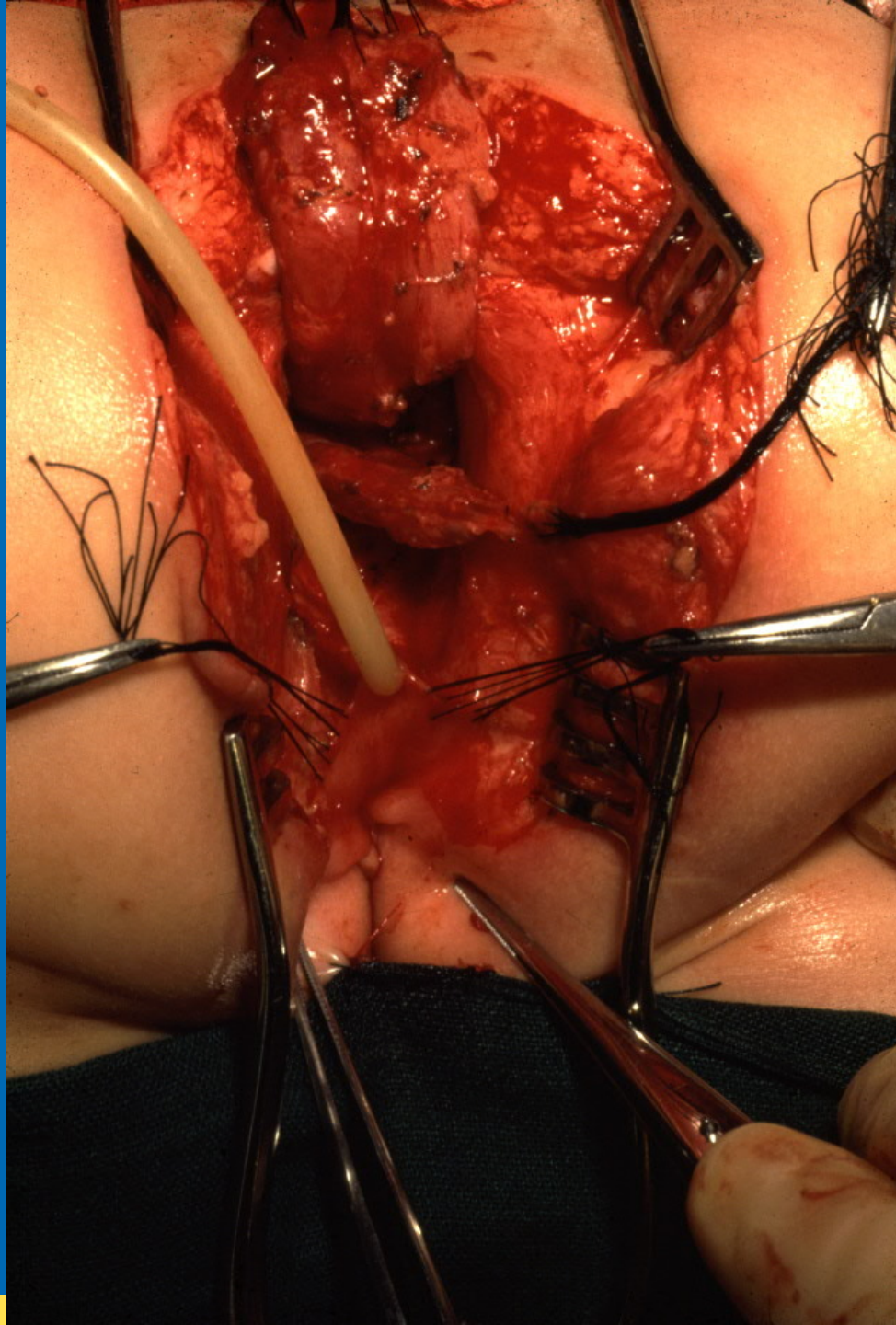


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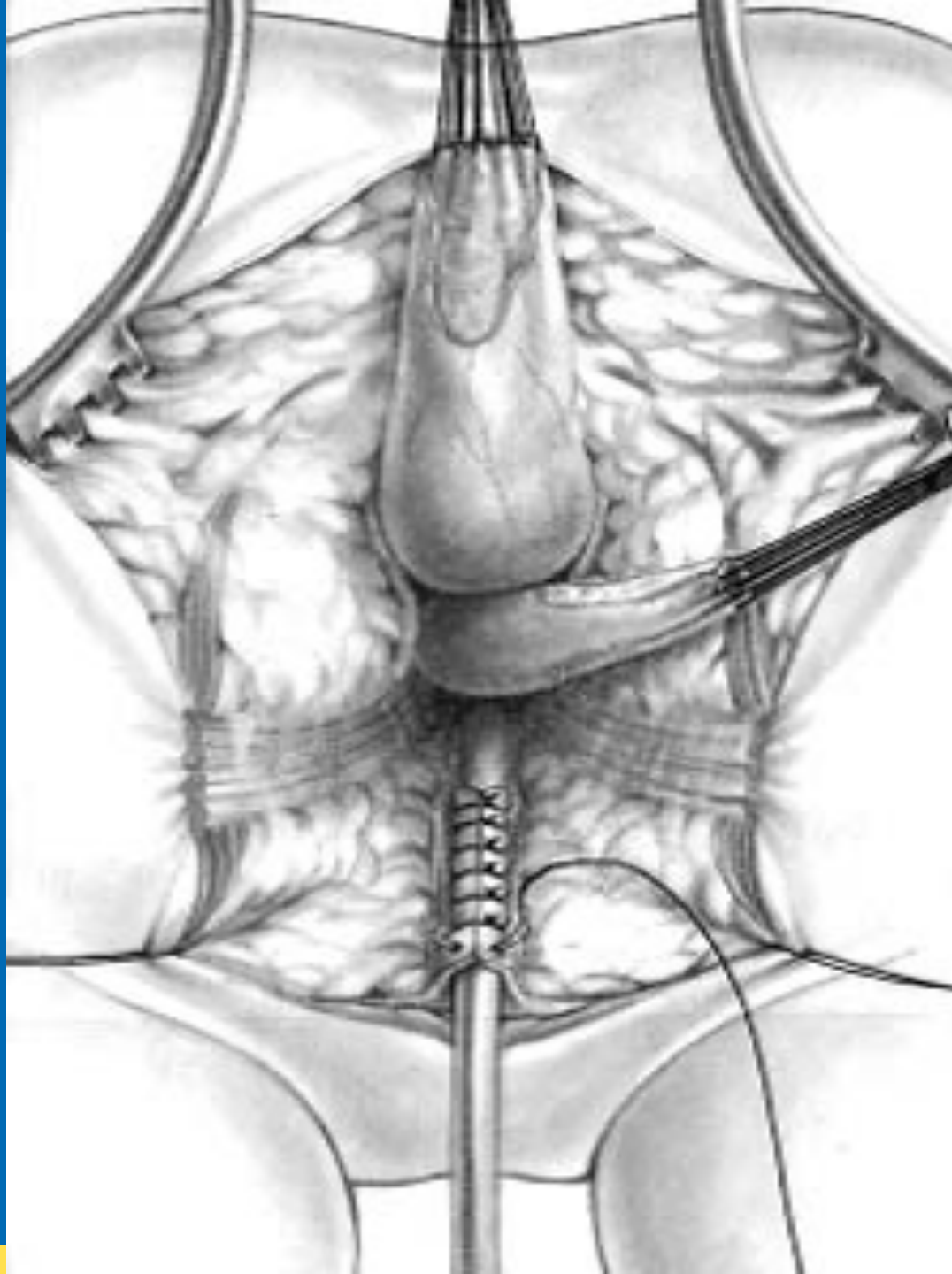
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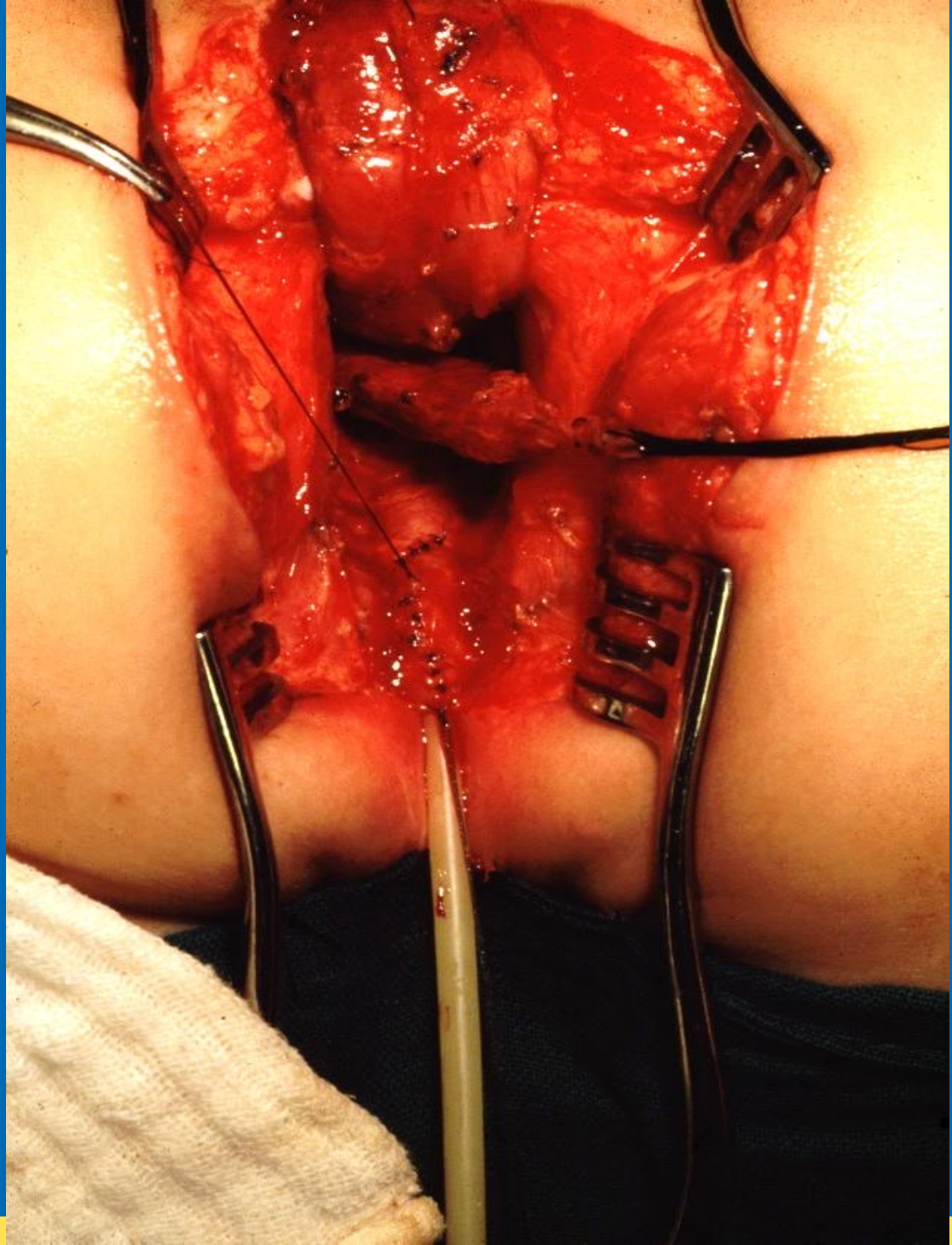
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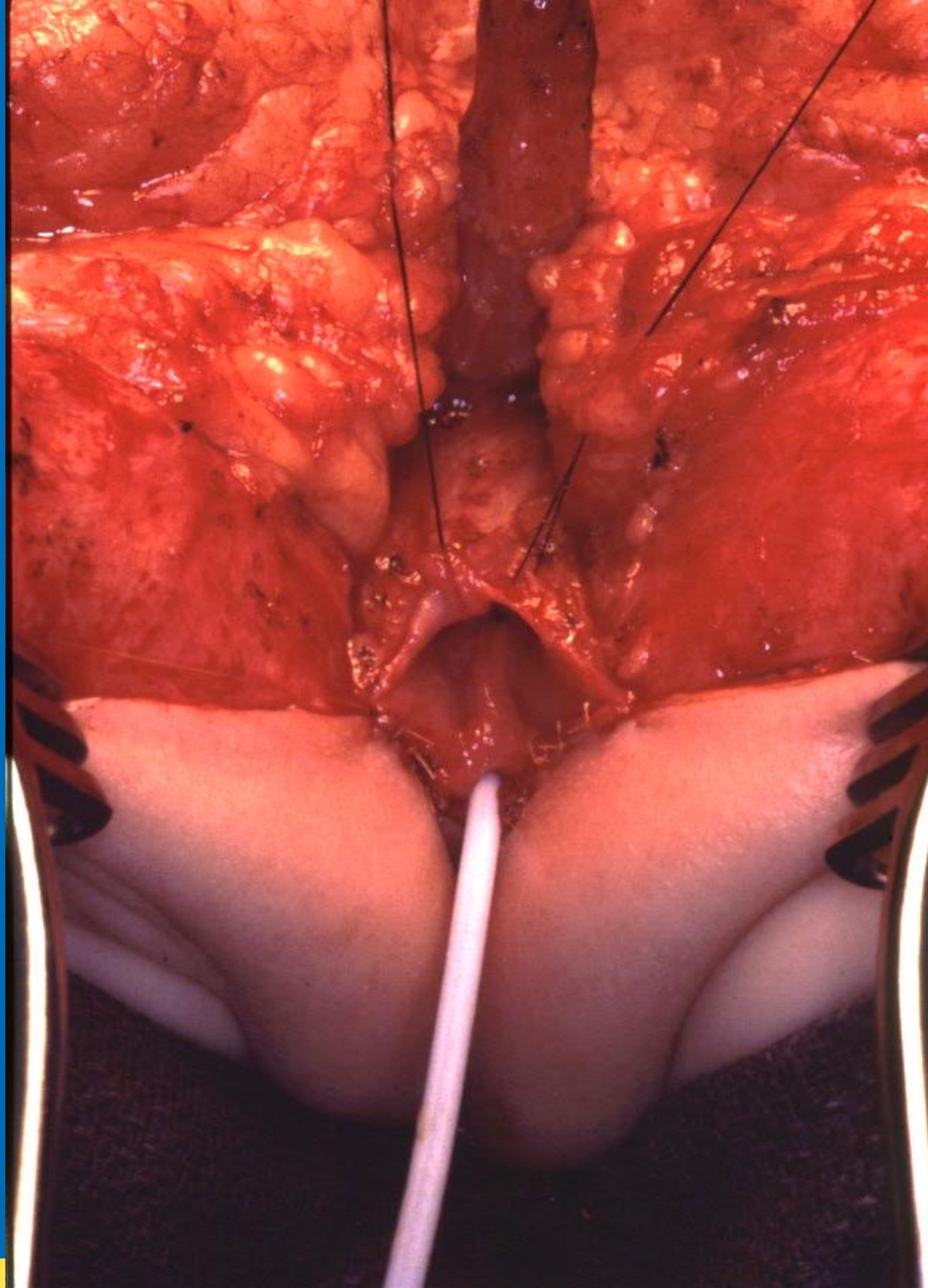
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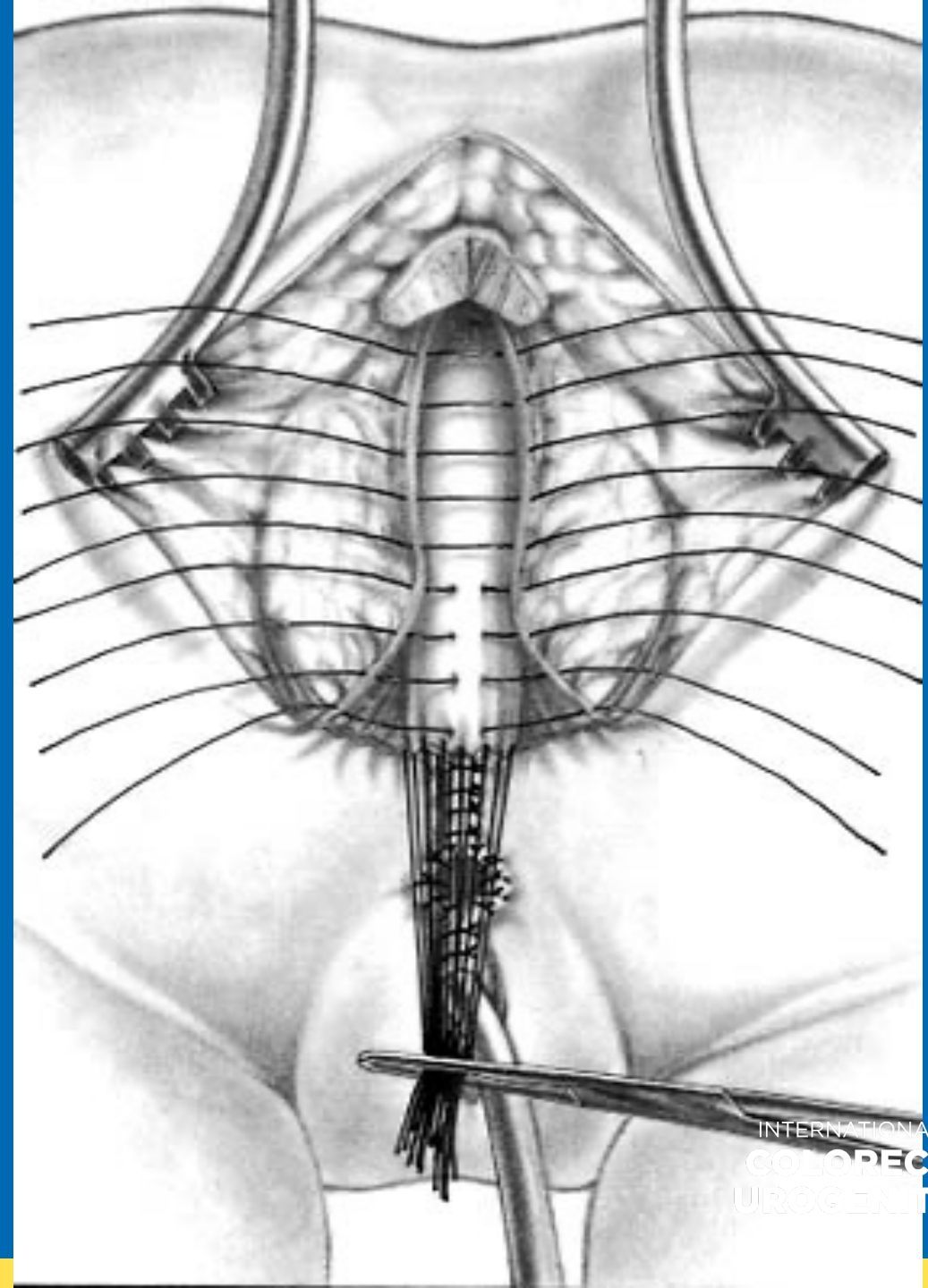
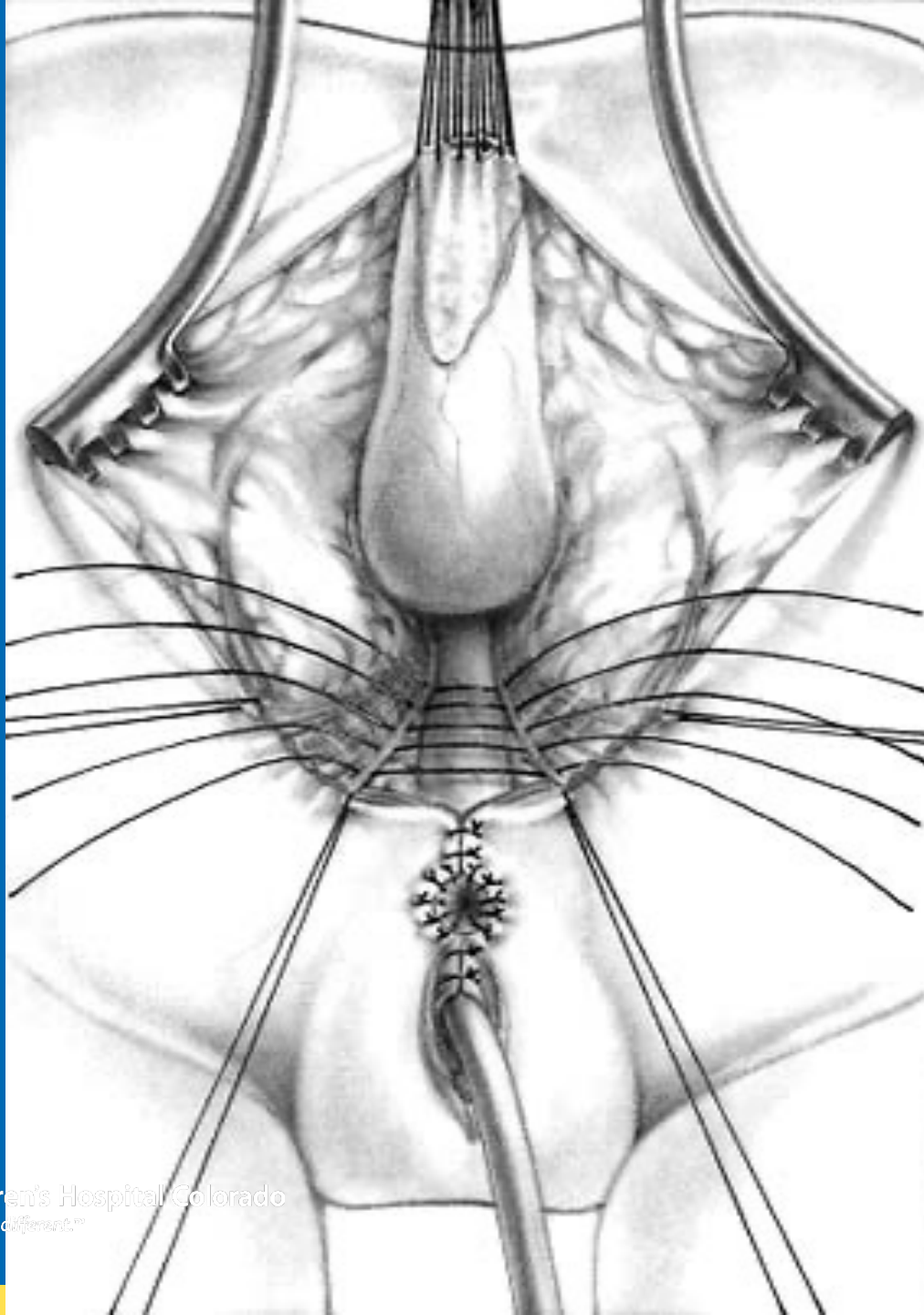
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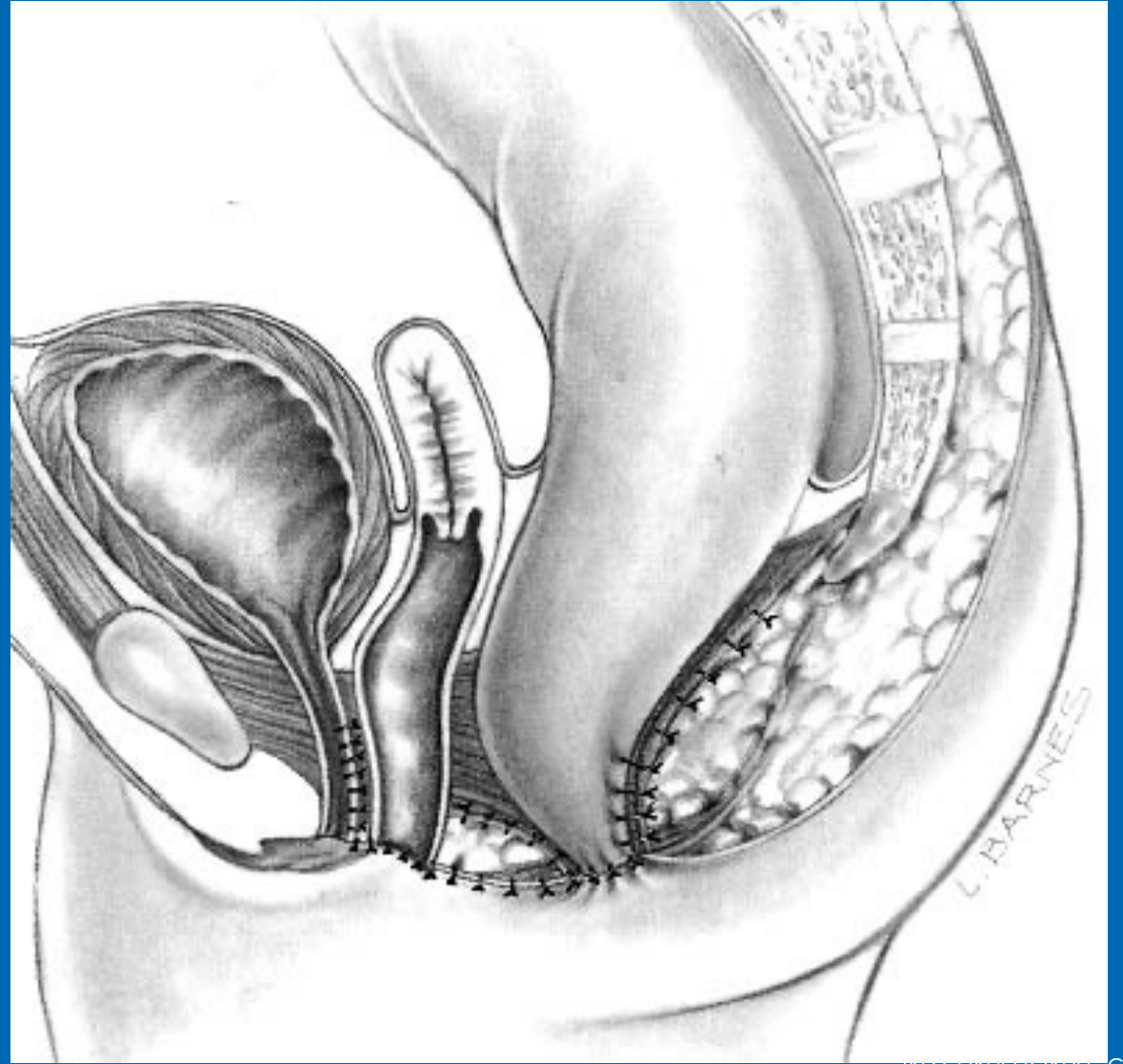
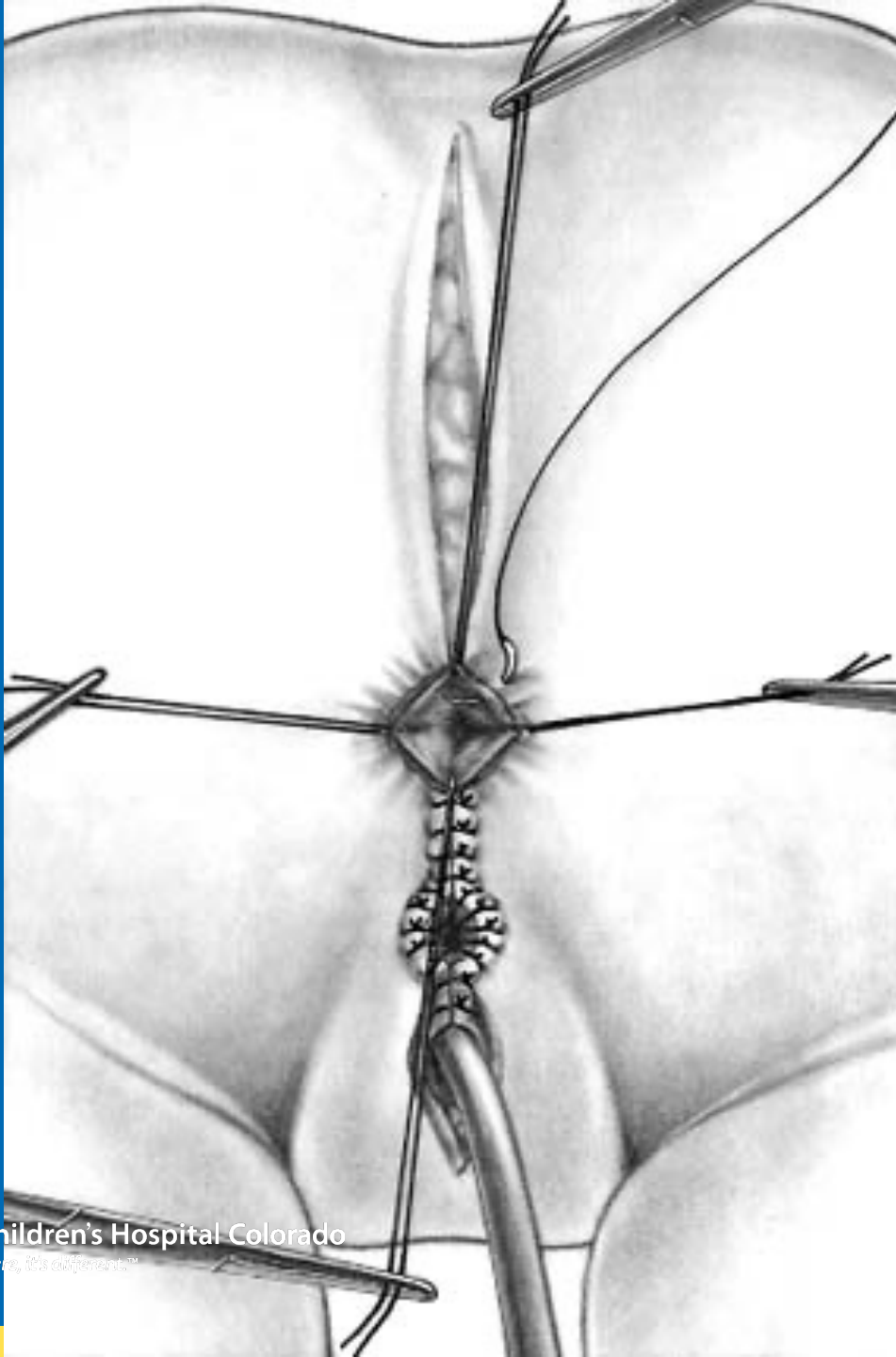
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# TOTAL UROGENITAL MOBILIZATION



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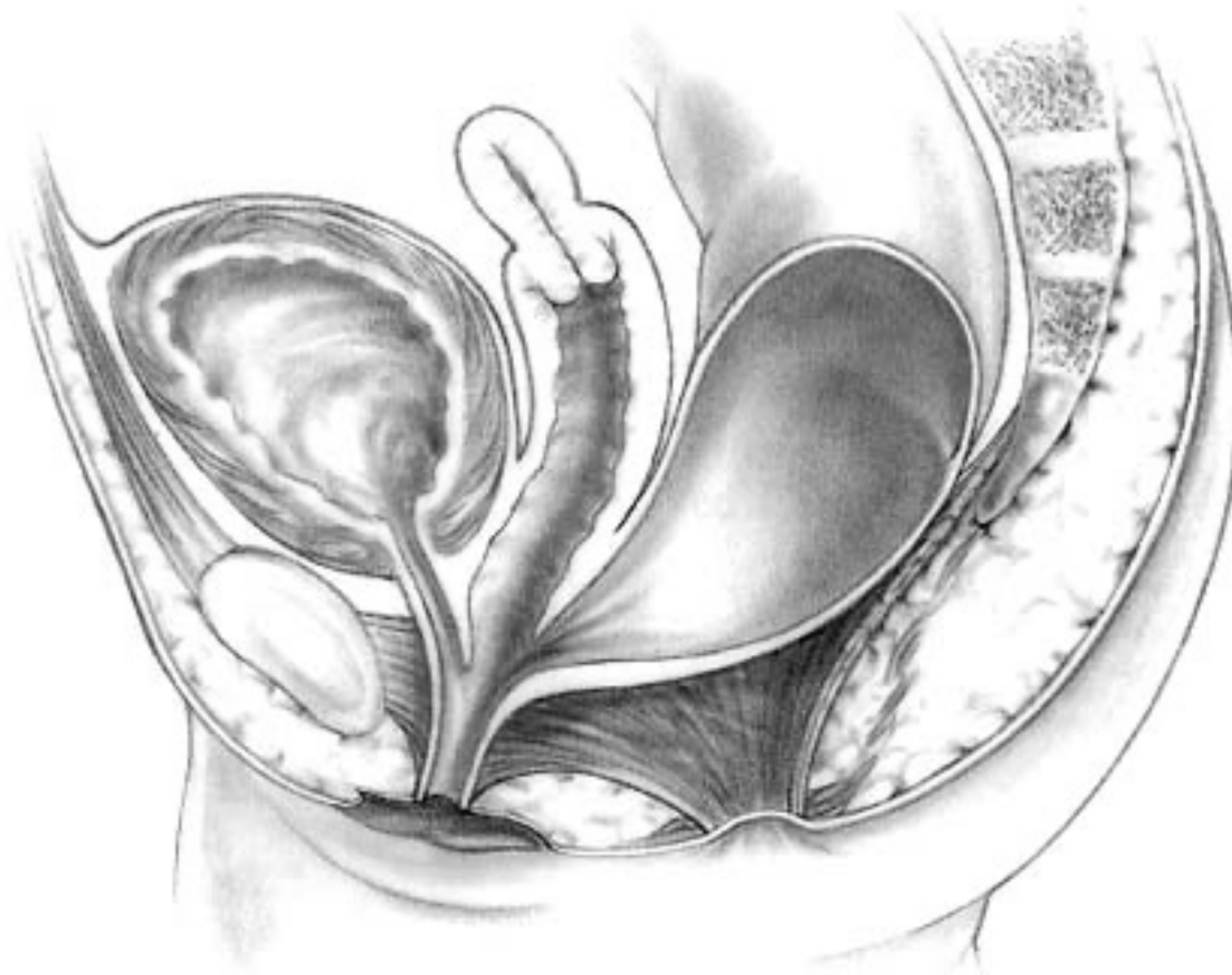
**February 21, 1992**

# **First Total Urogenital Mobilization**



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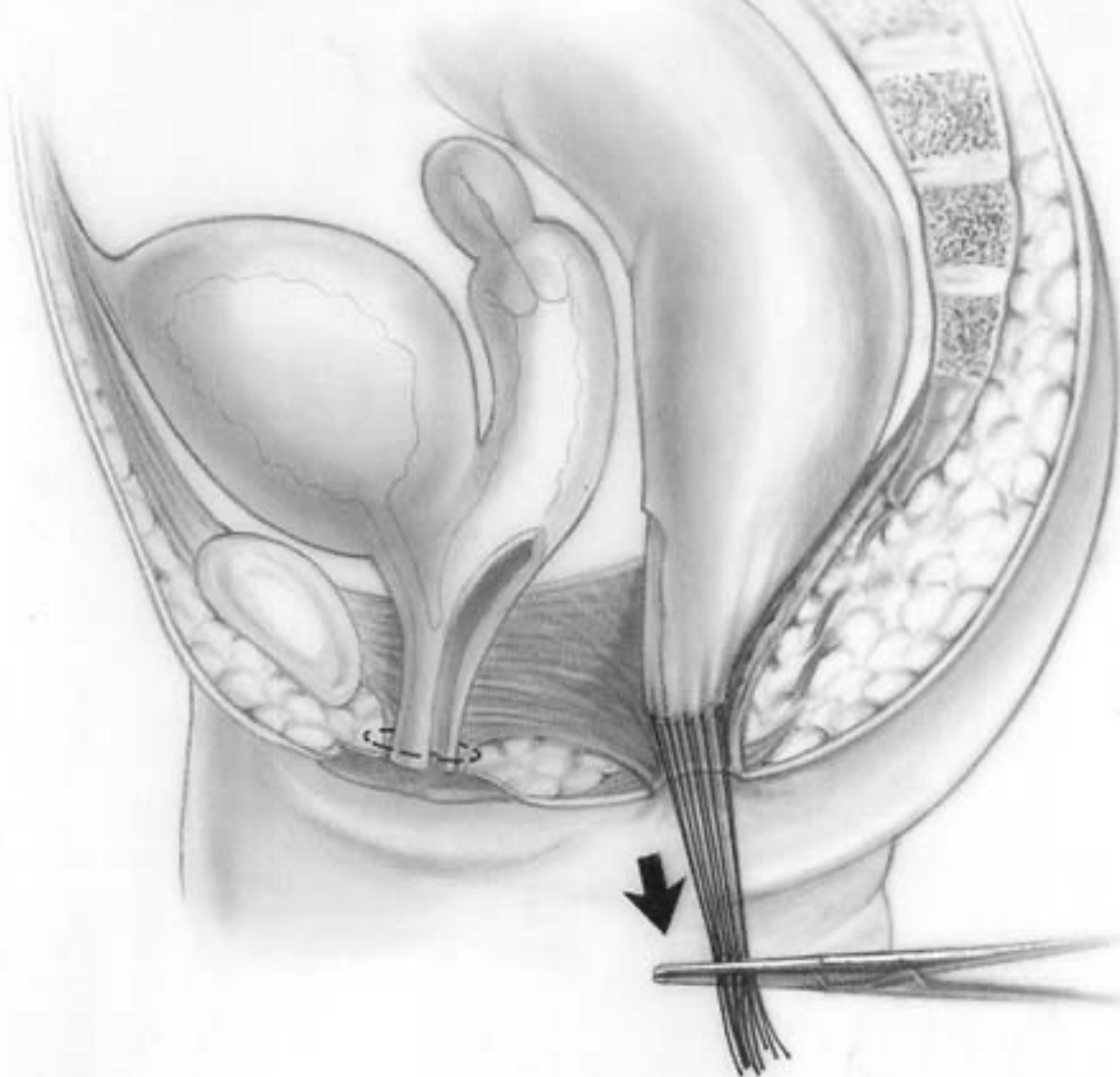
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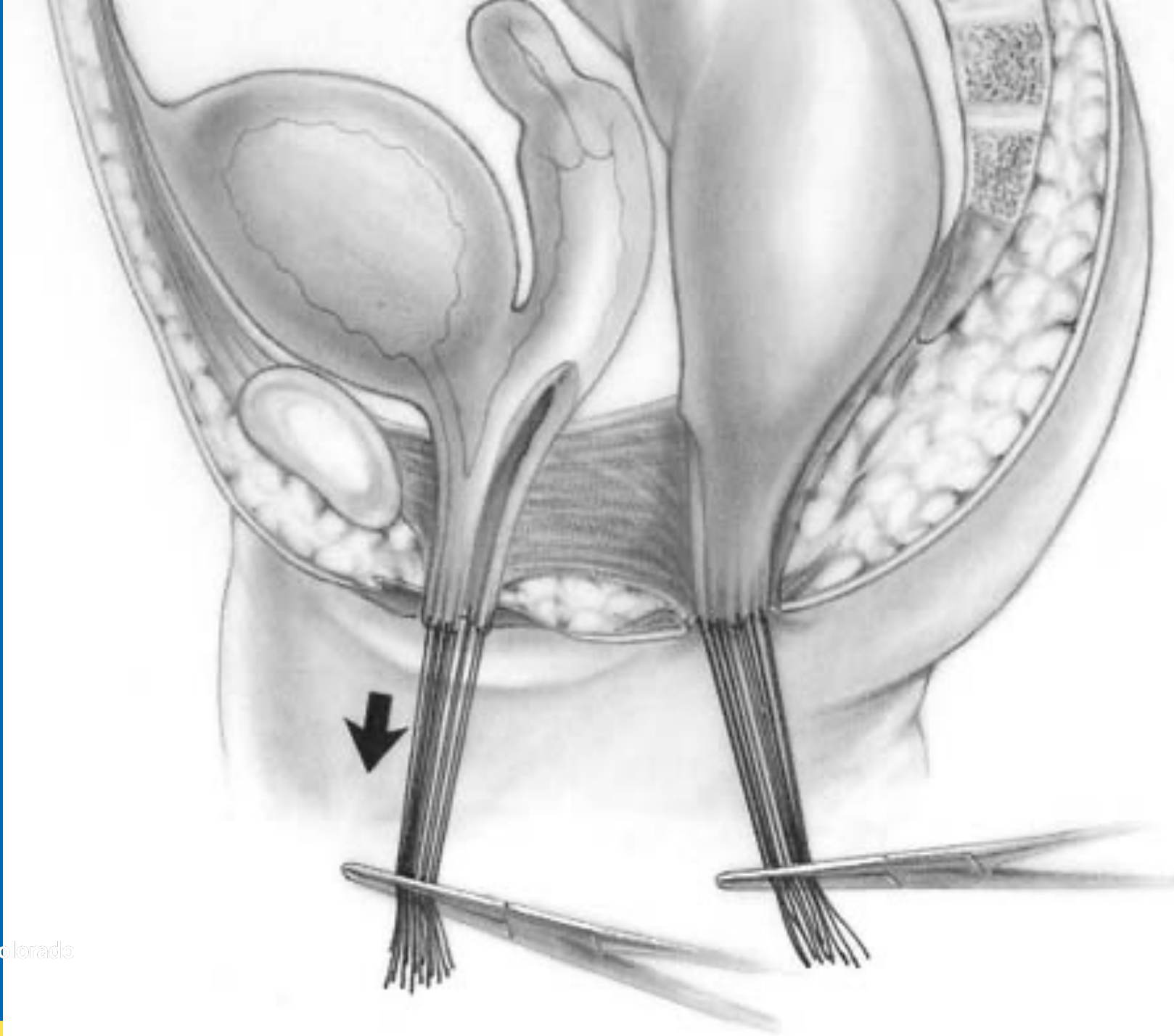
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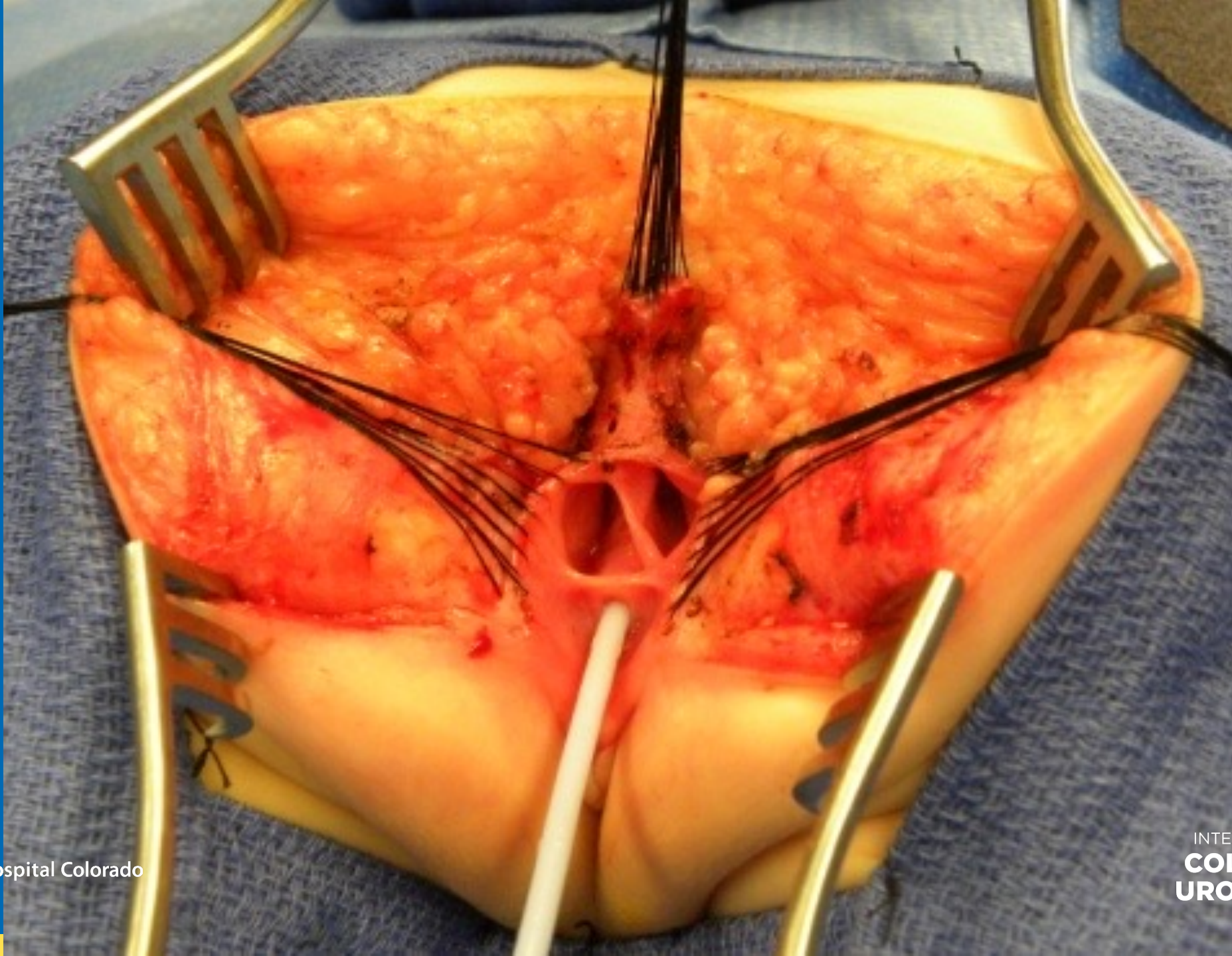
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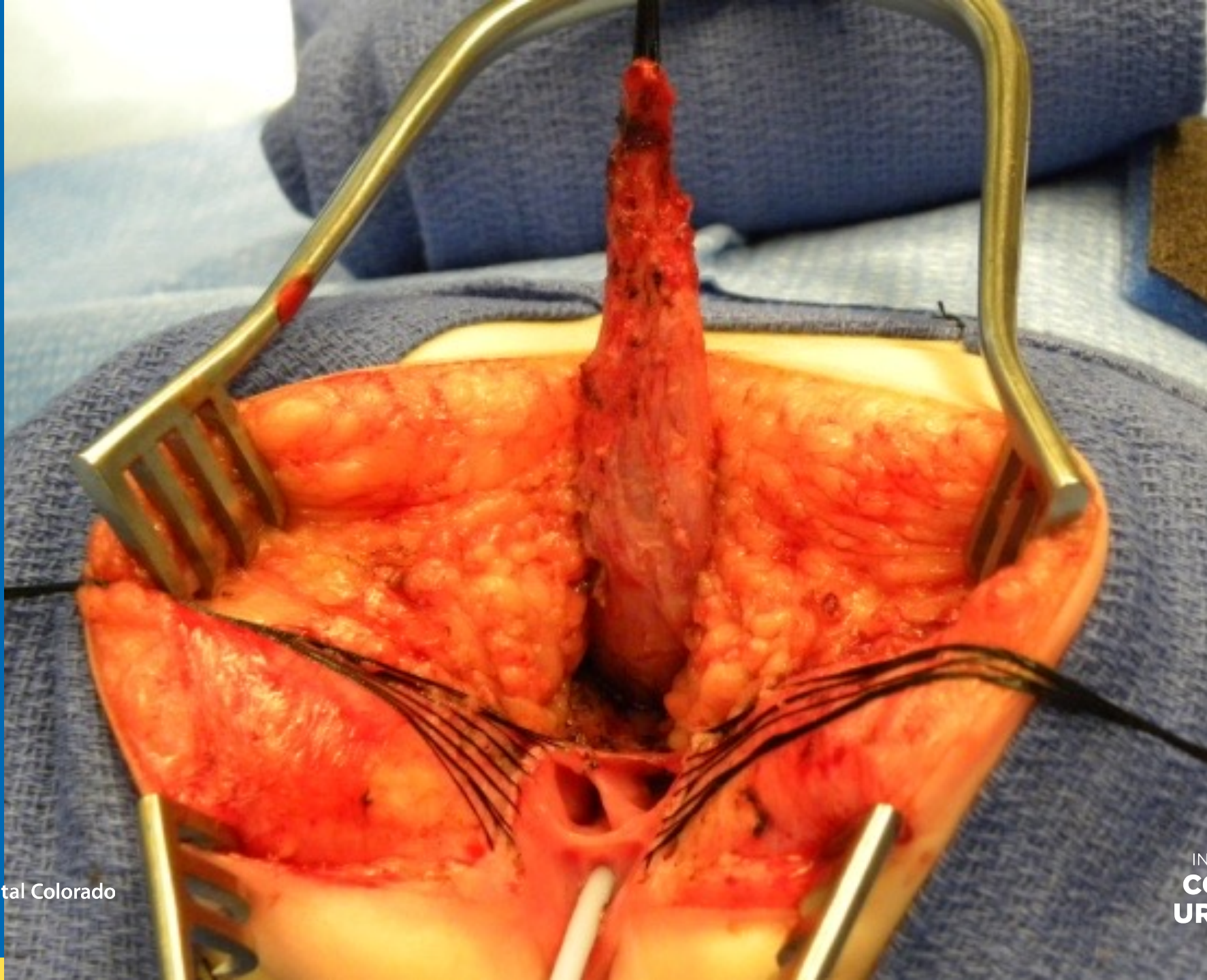




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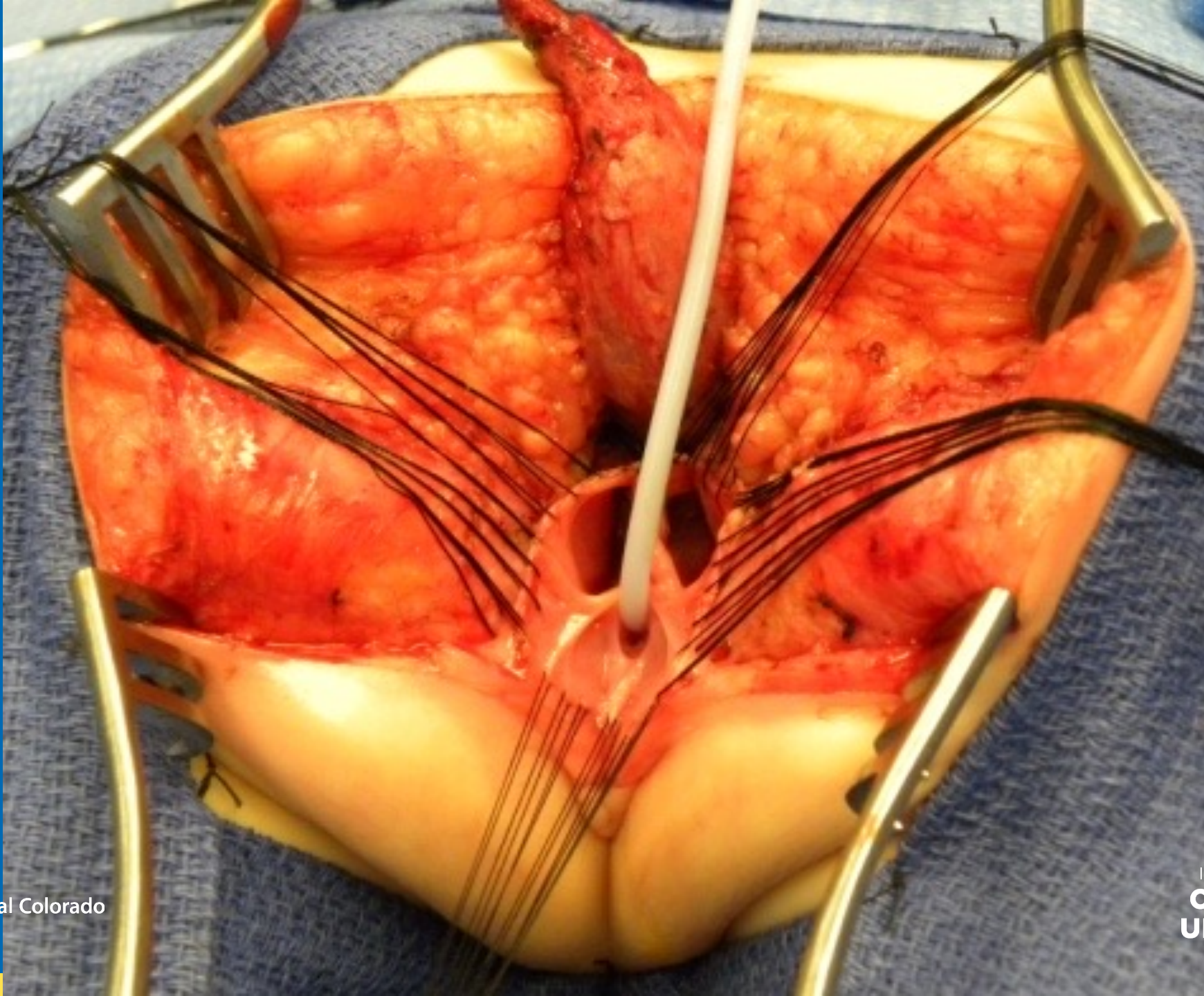




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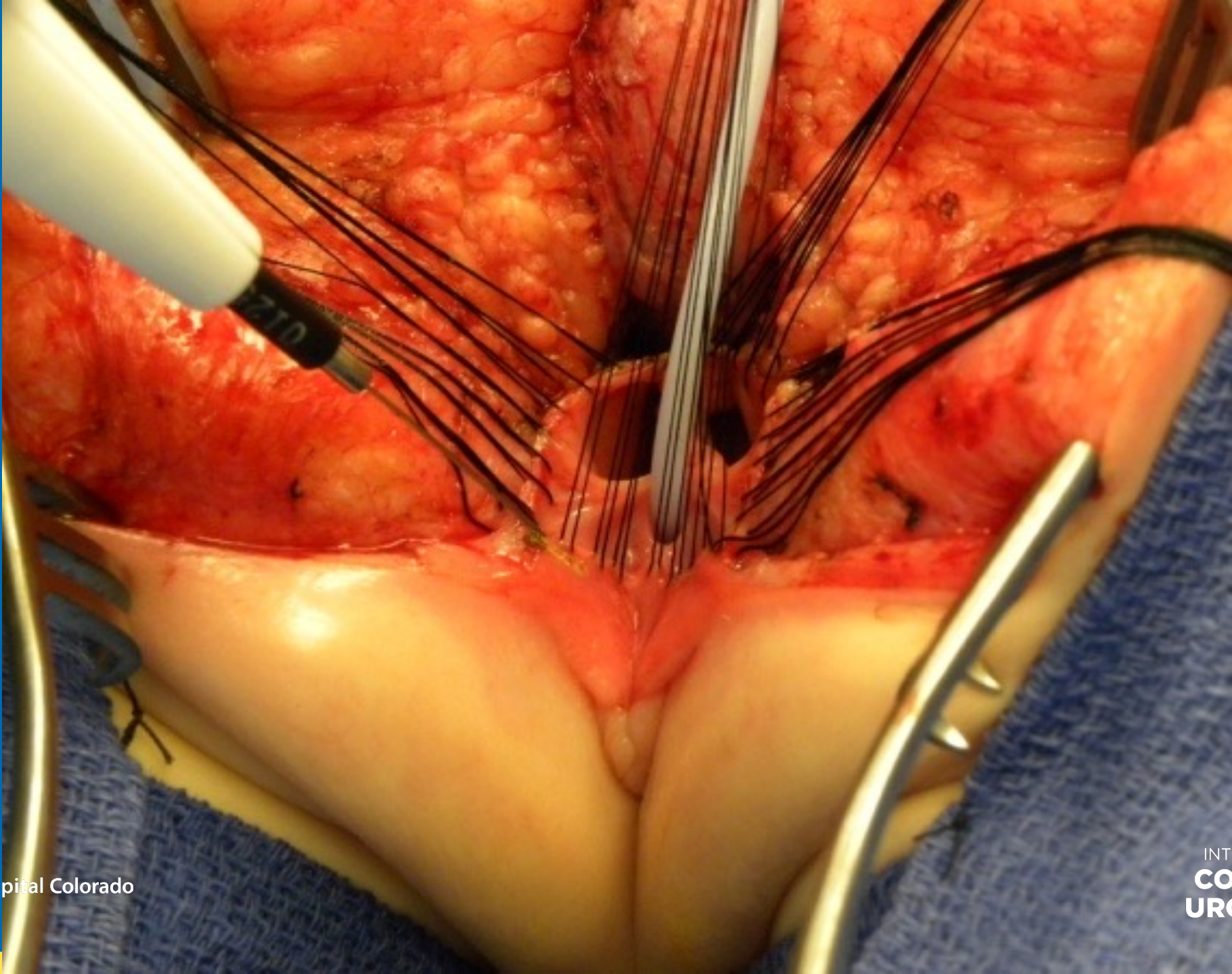




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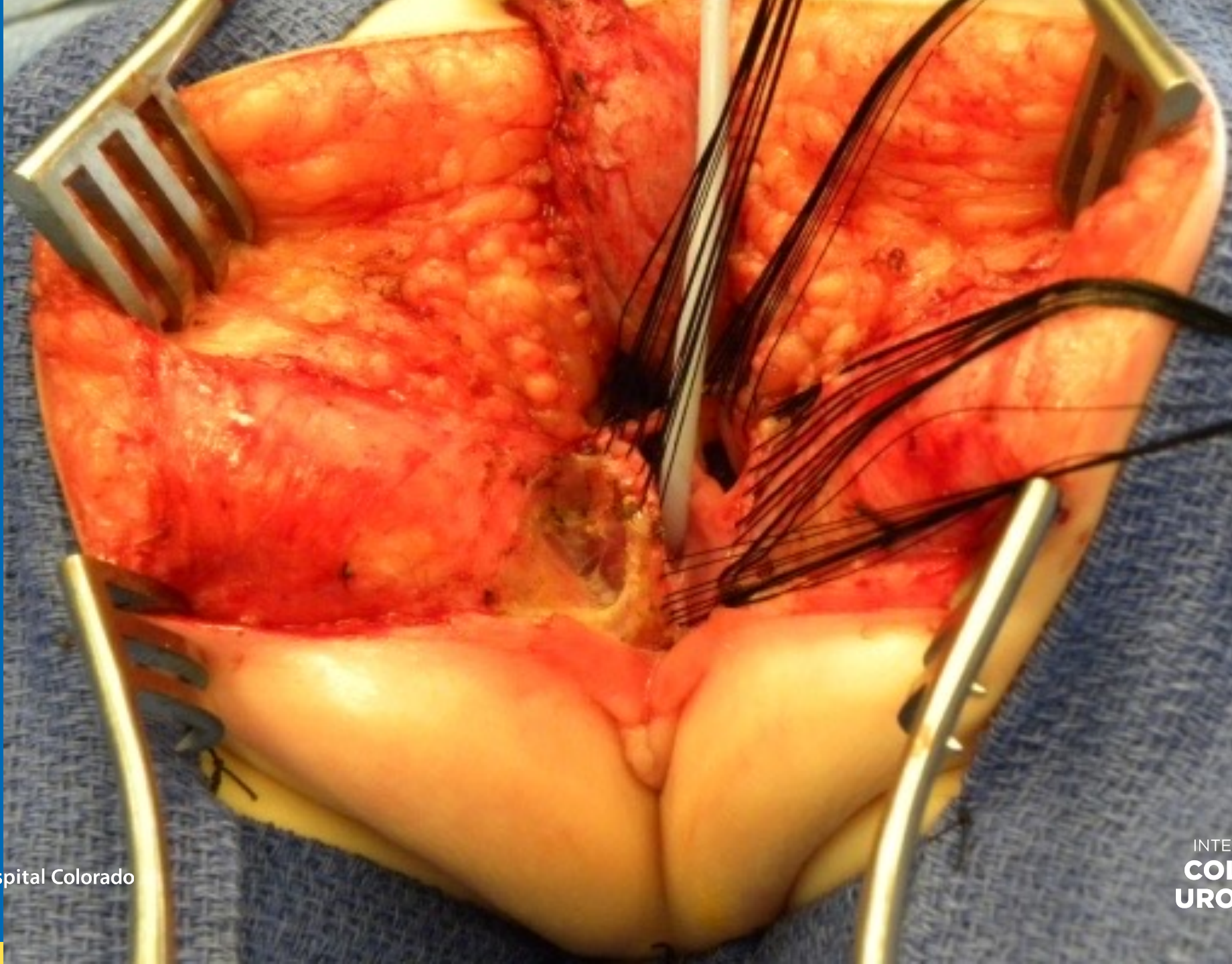




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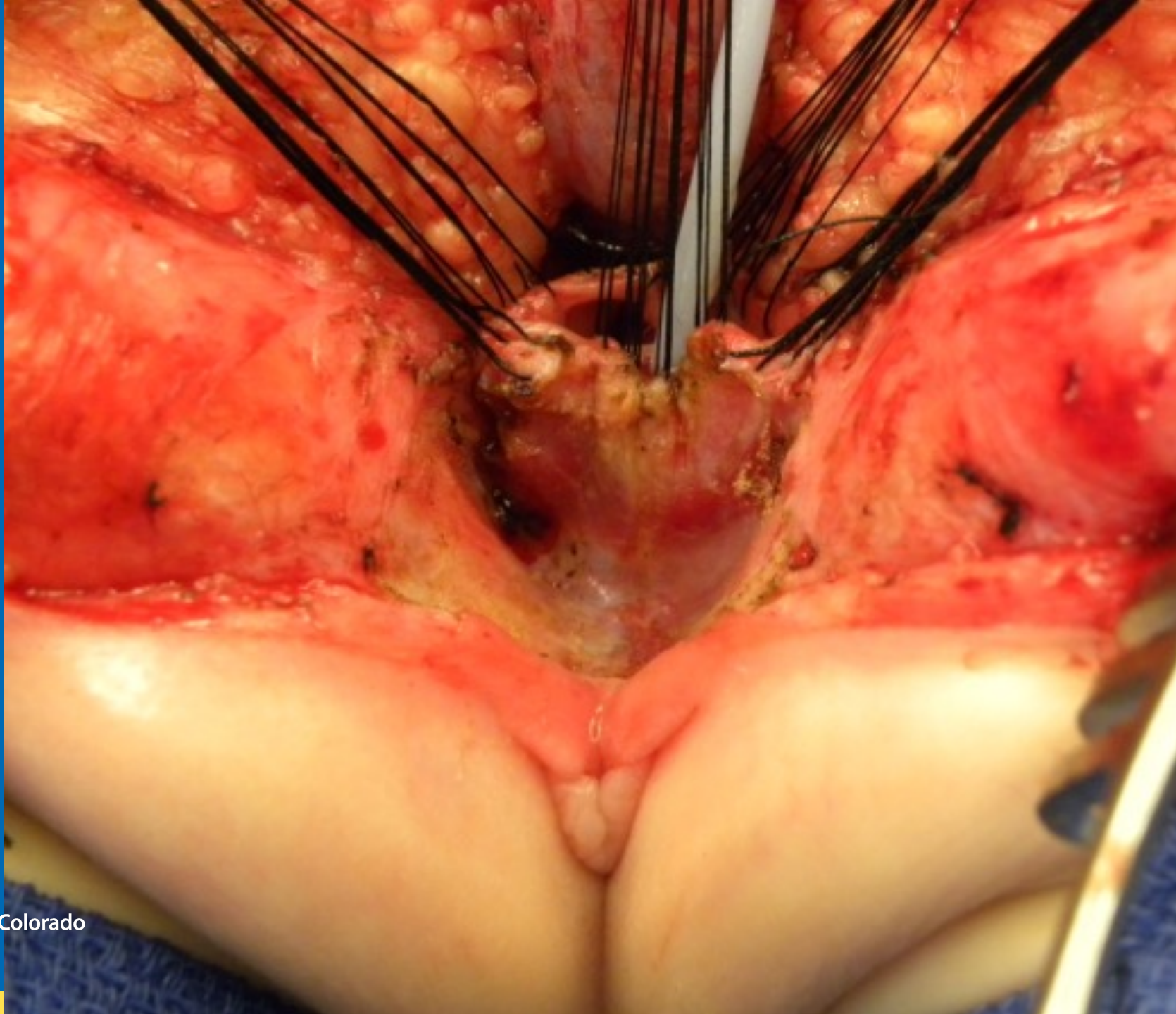




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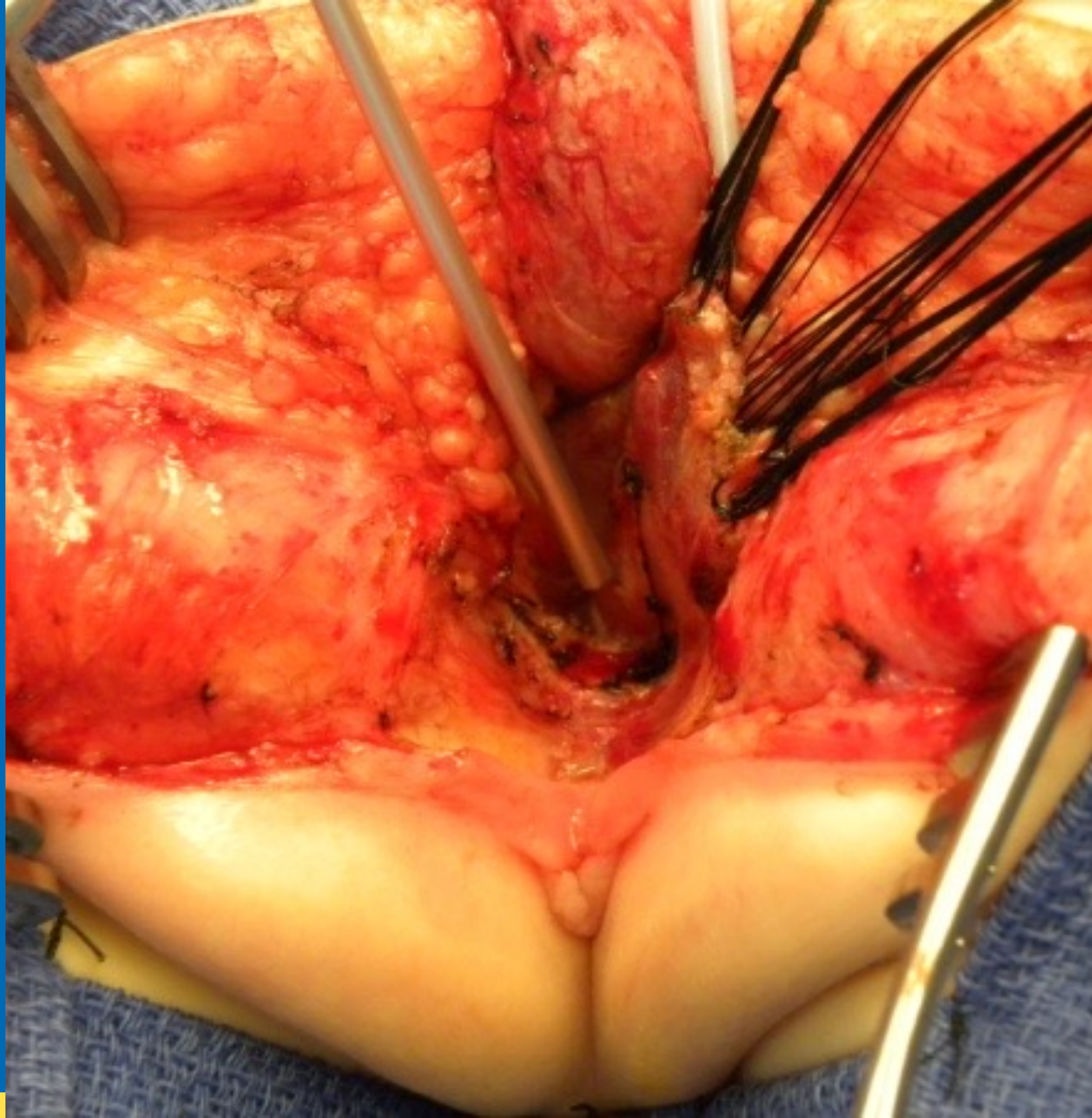




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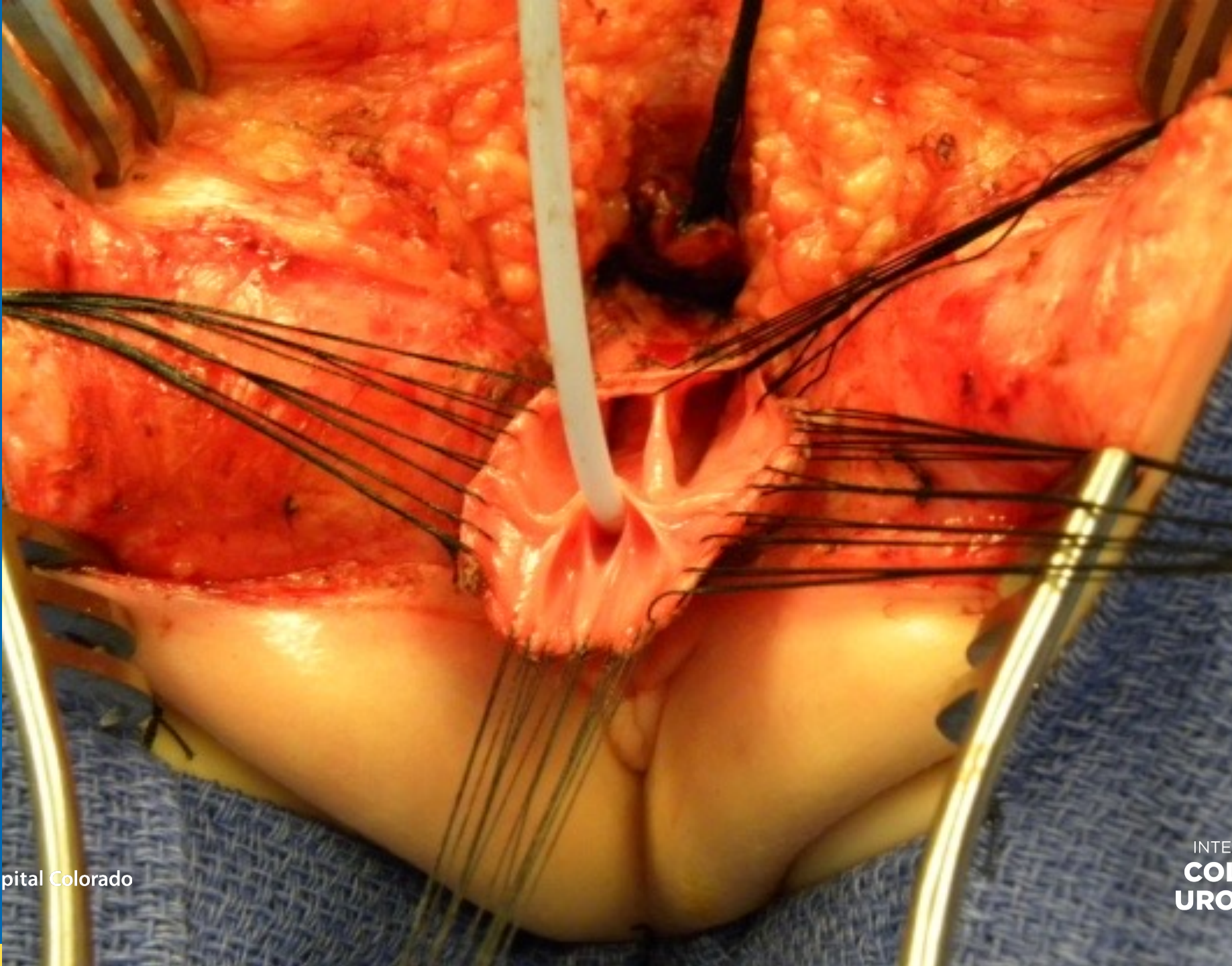




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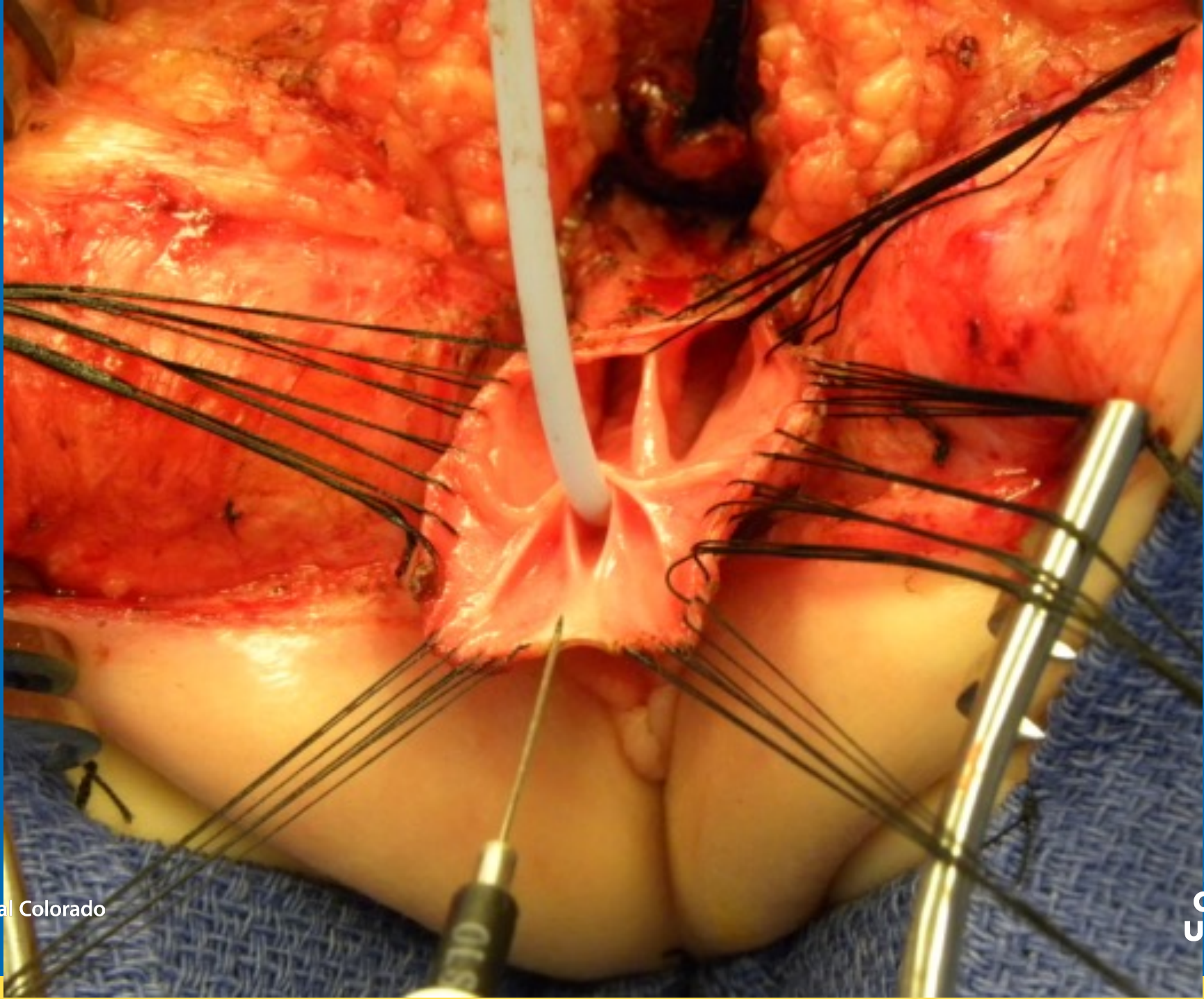




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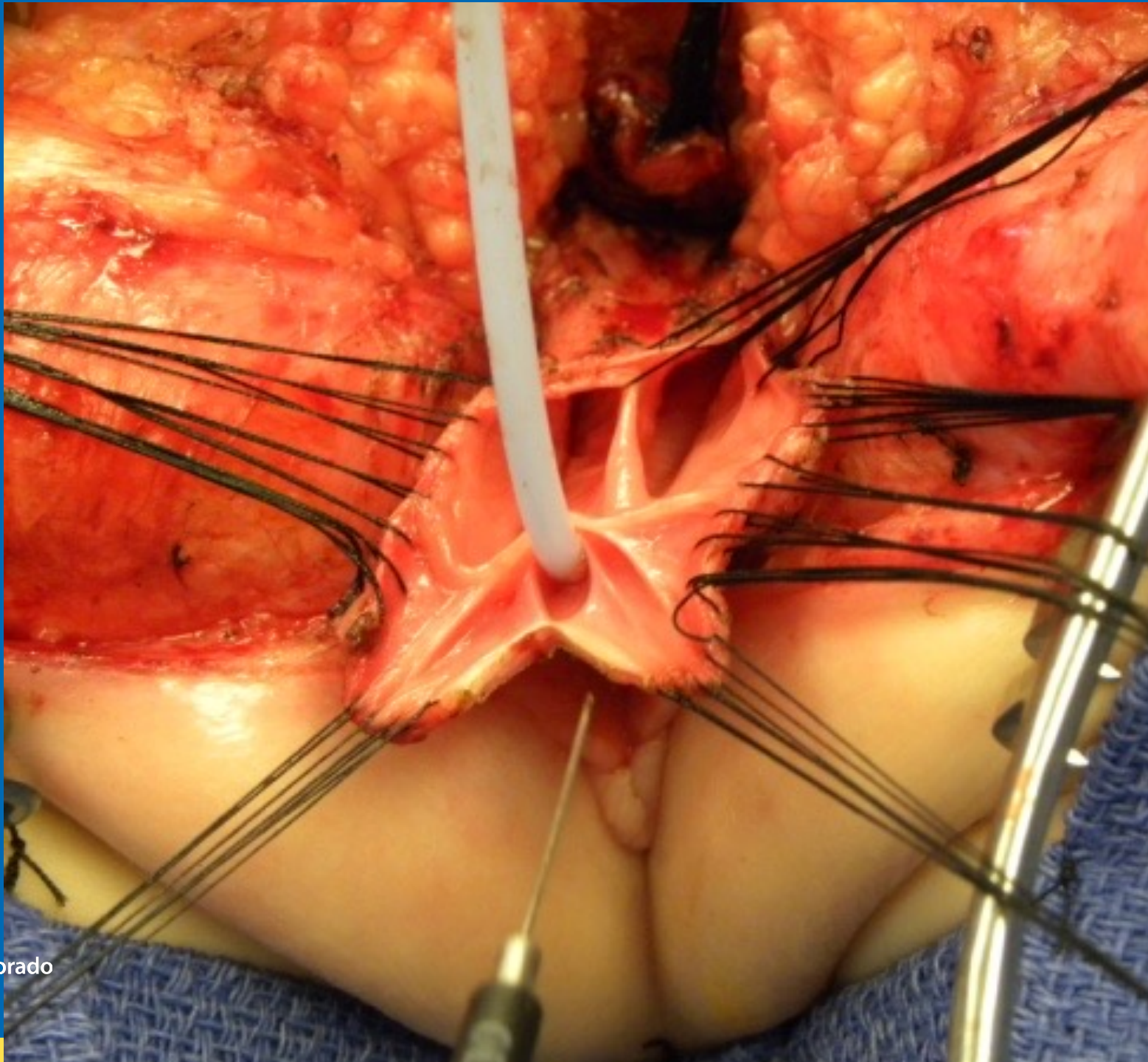




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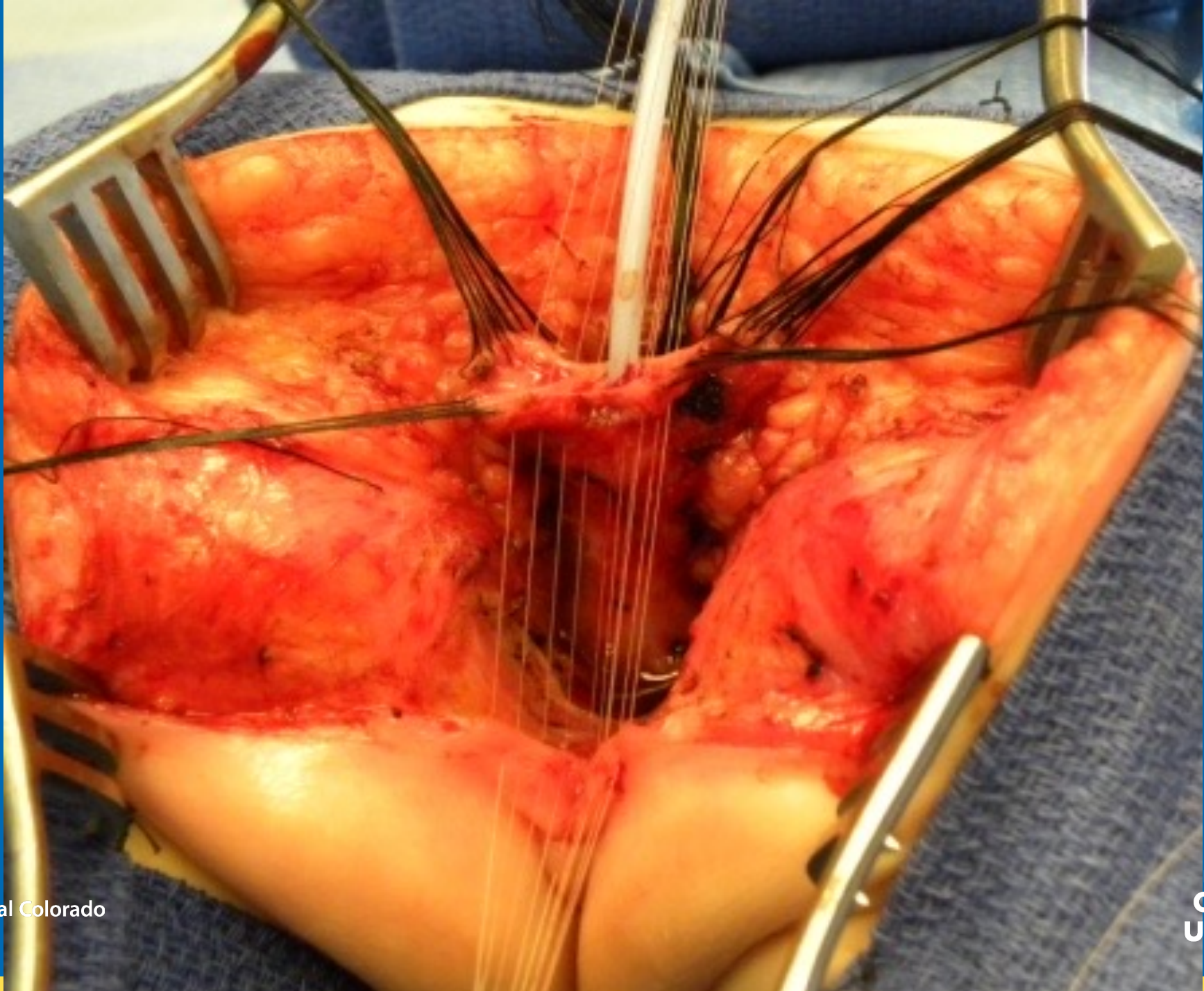




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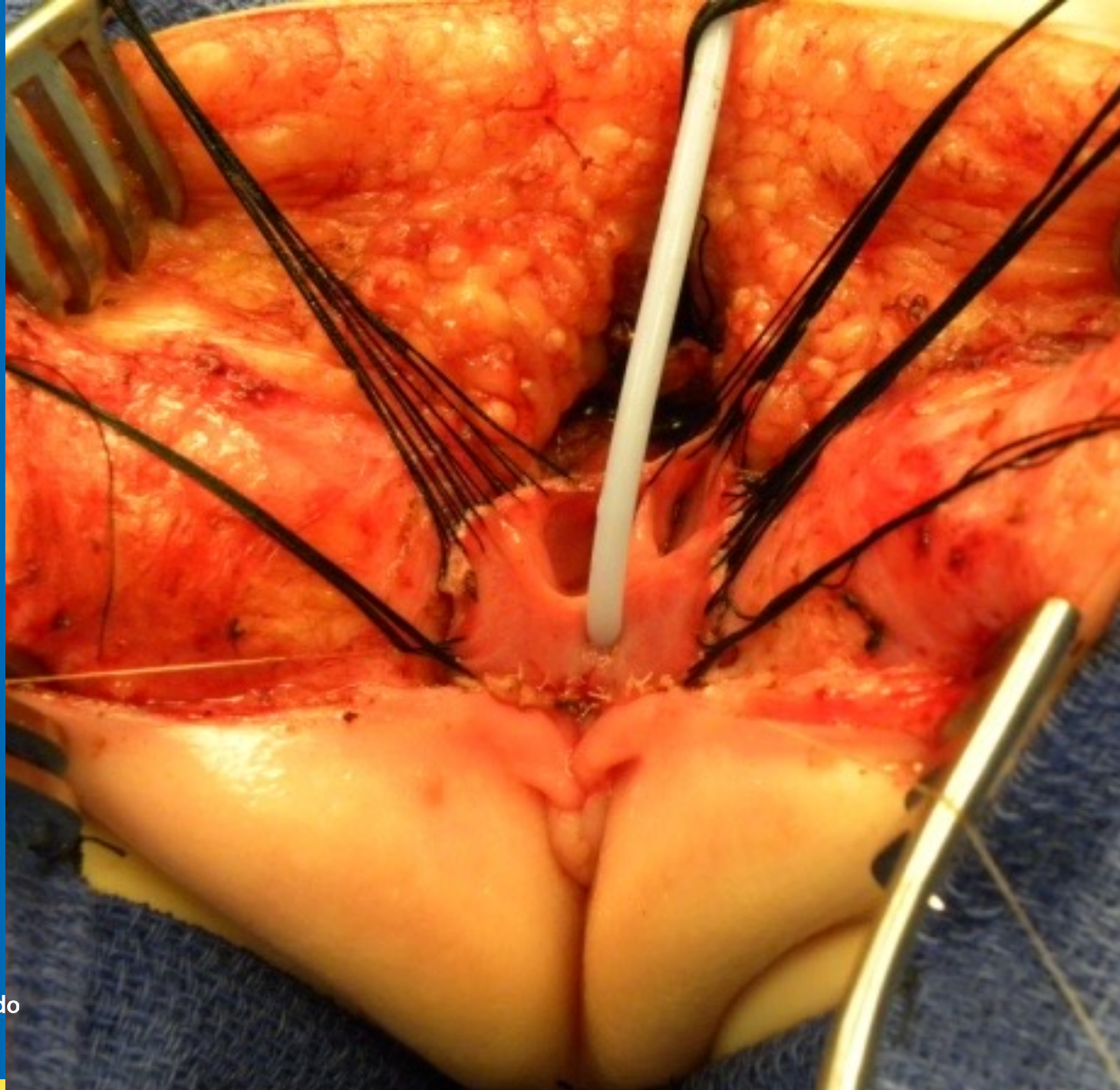




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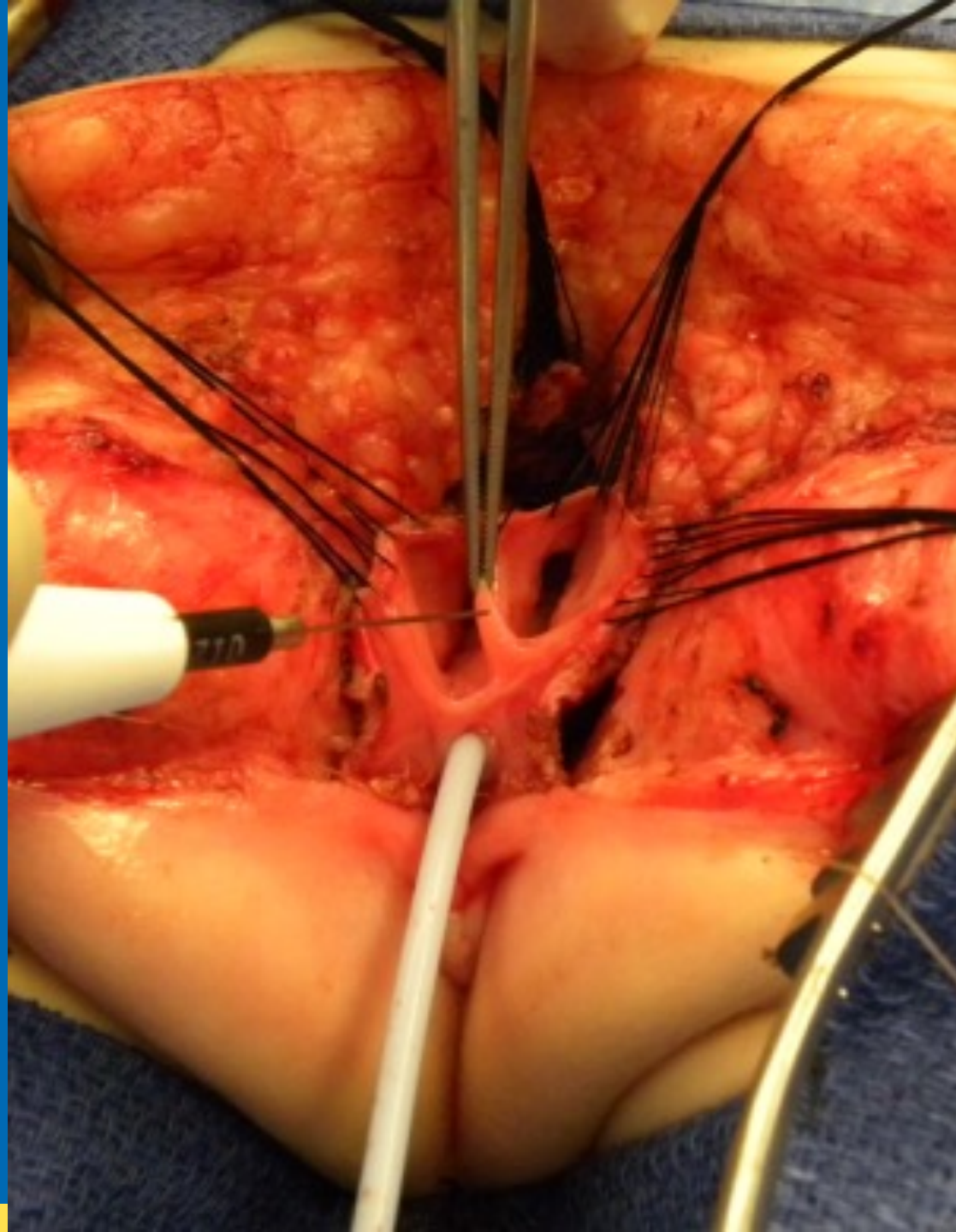




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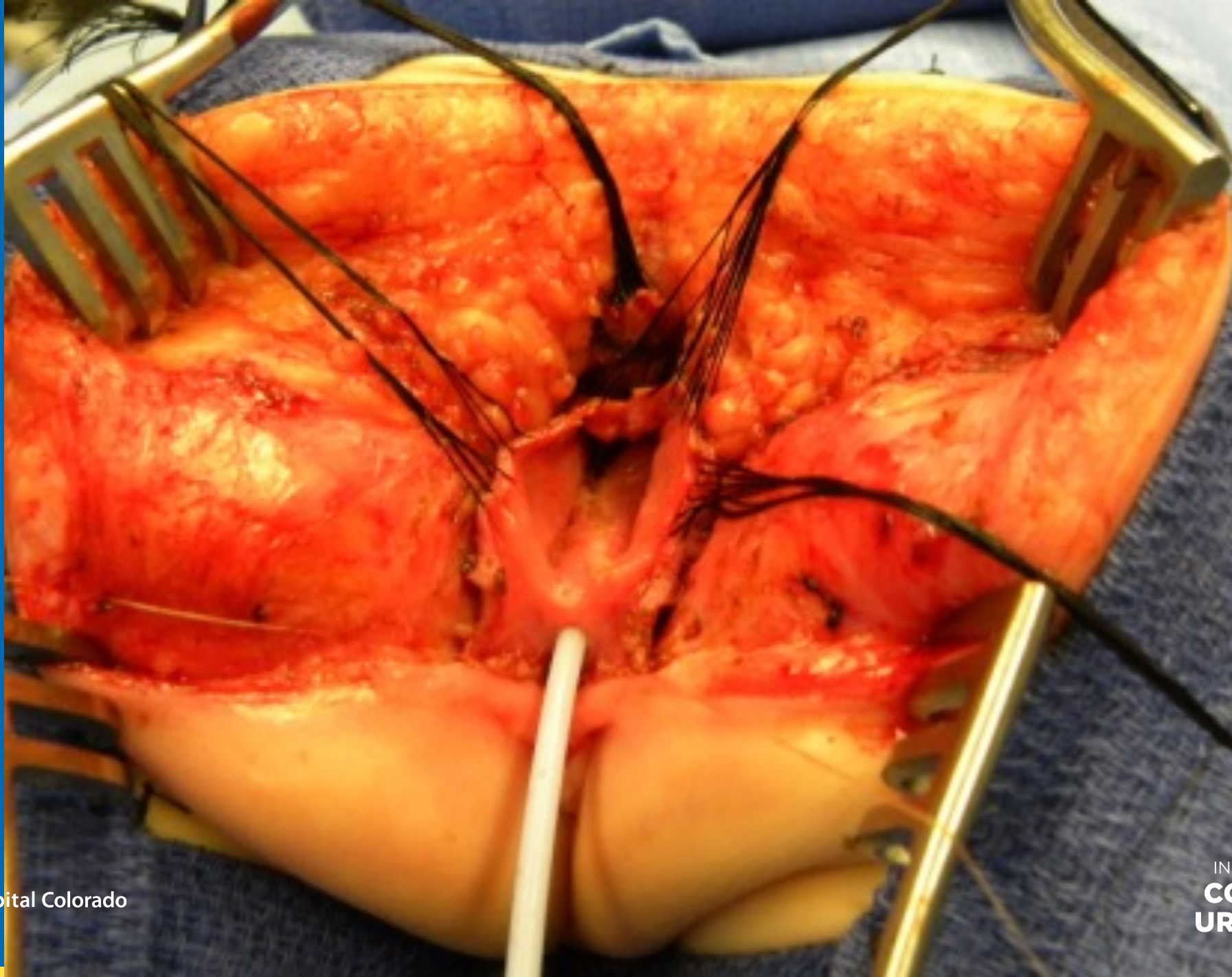
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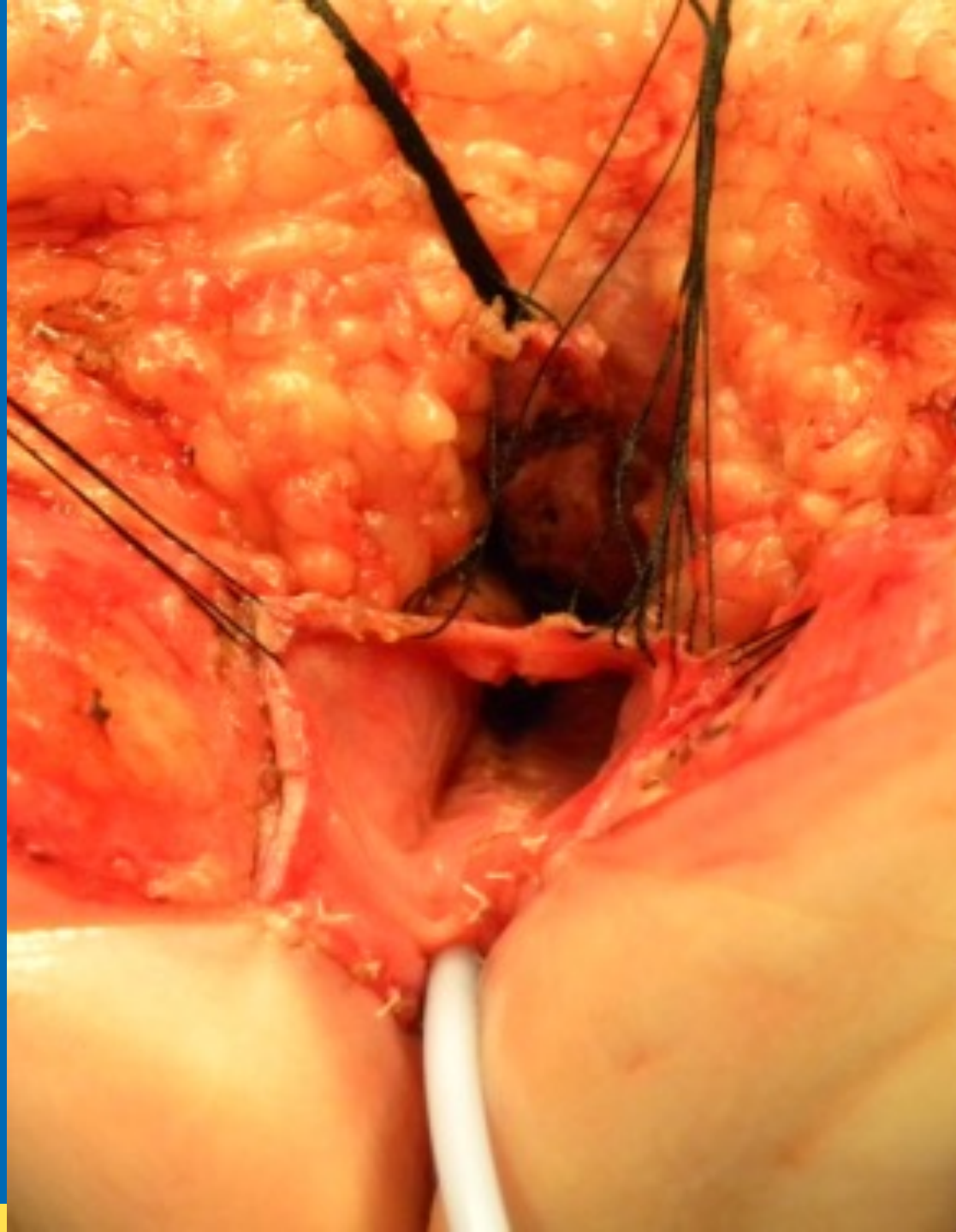
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## 3 – 5cm

- Technically demanding procedure.
- Decision making process requires experience and training in pediatric urology.
- Most cases require an abdominal approach.
- Not very reproducible.

# EXTENDED TRANSABDOMINAL UROGENITAL MOBILIZATION



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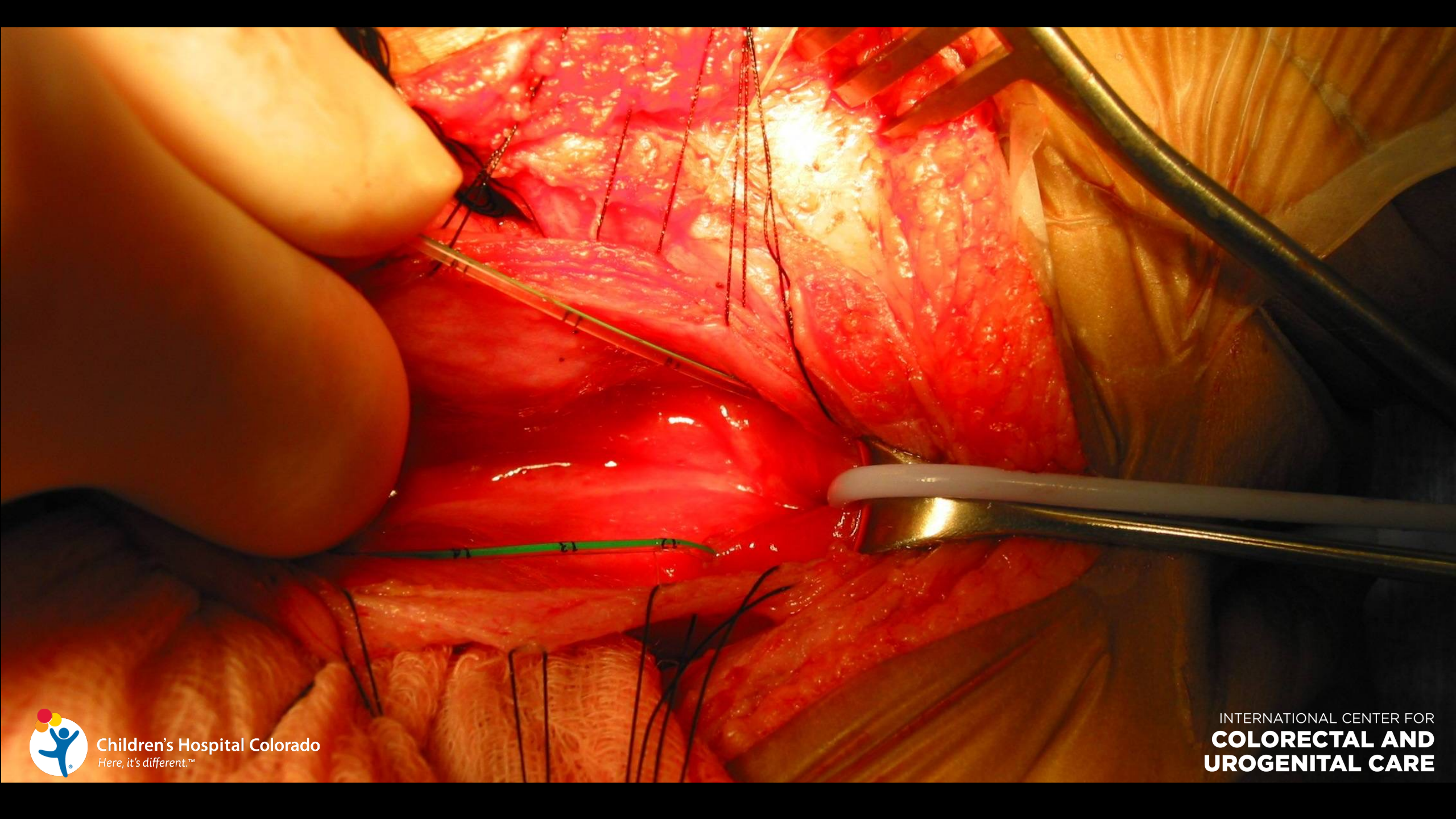


# Separation of vagina/vaginas from the urinary tract



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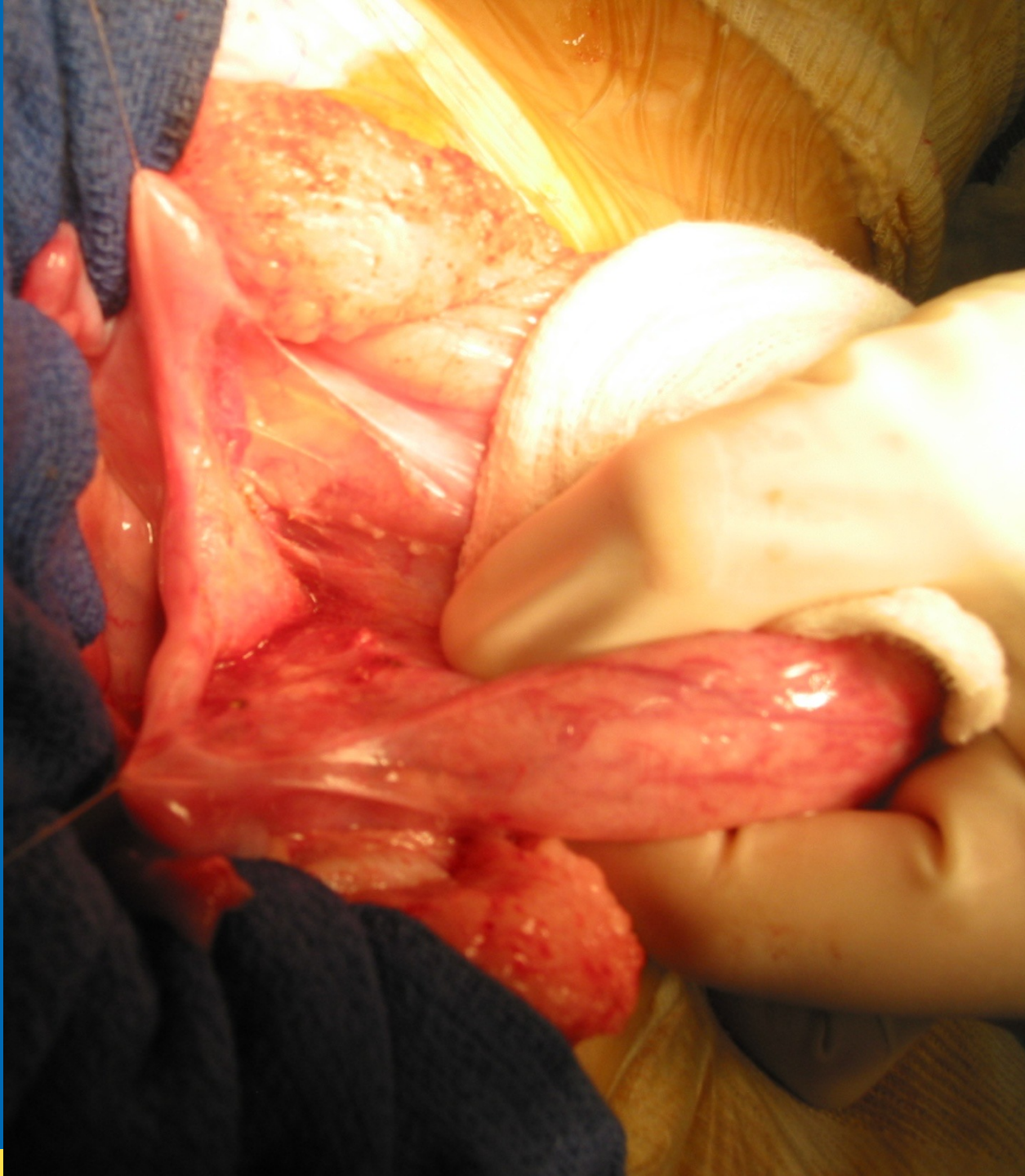
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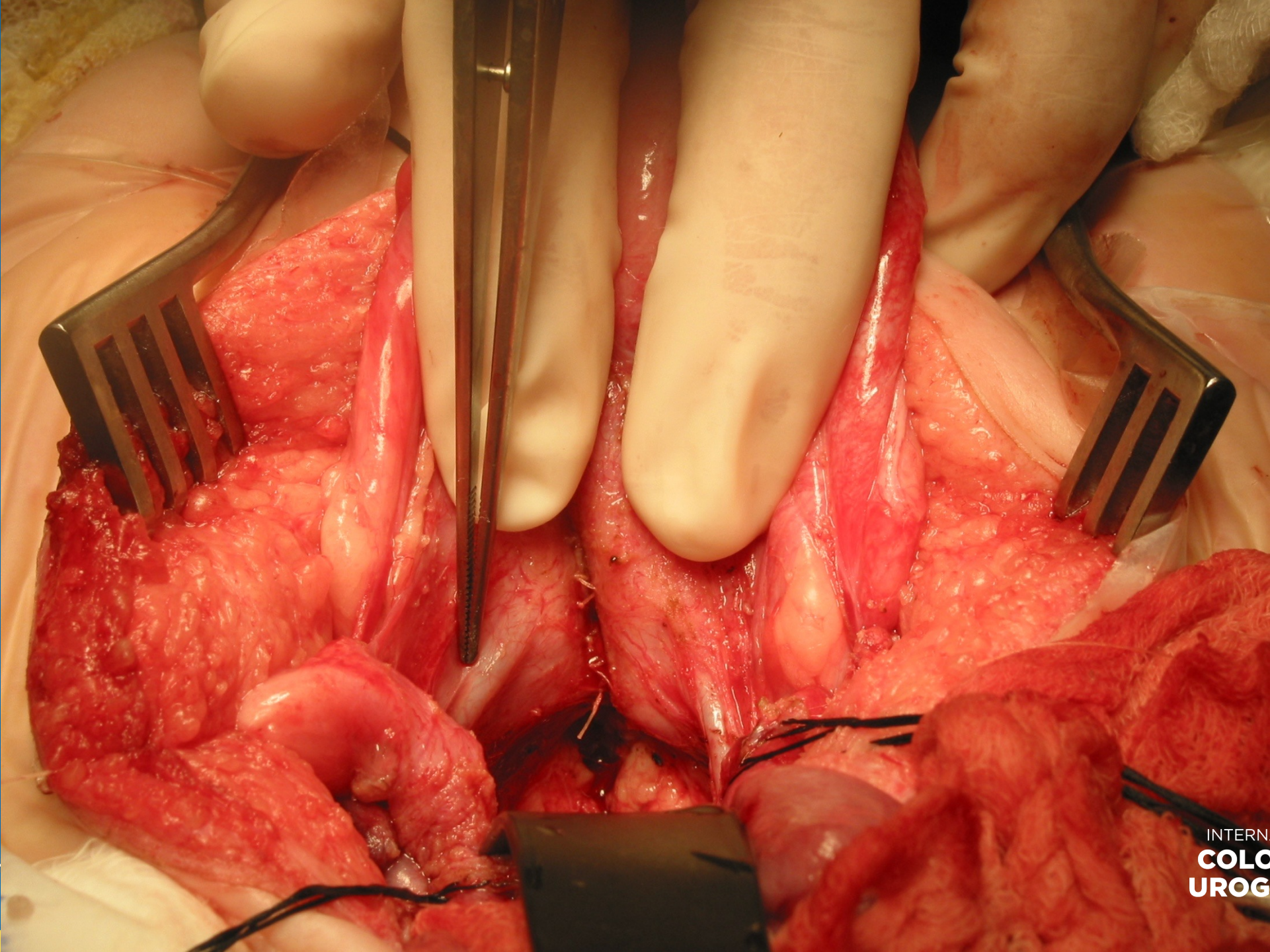




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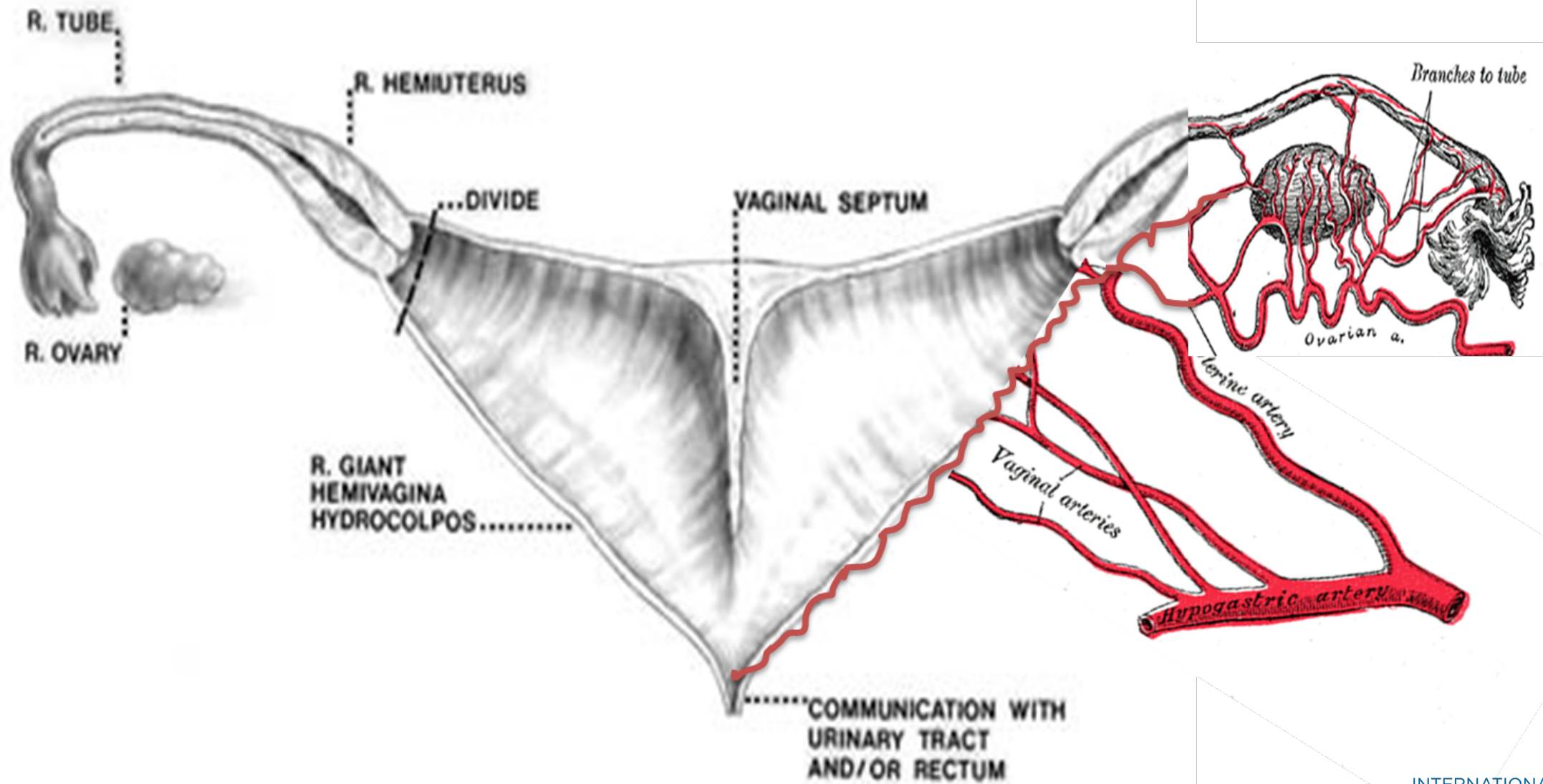


# Vaginal Switch

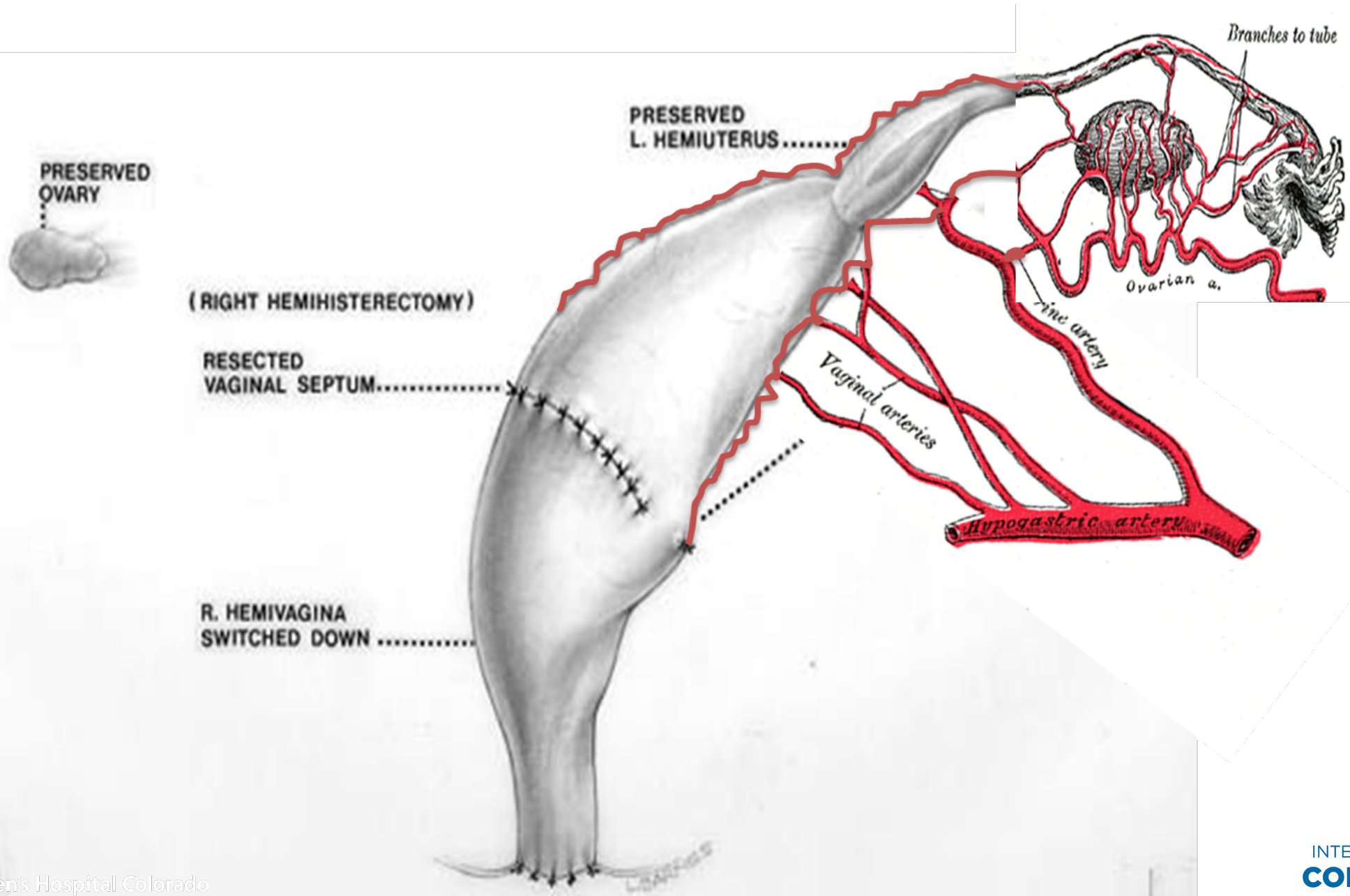


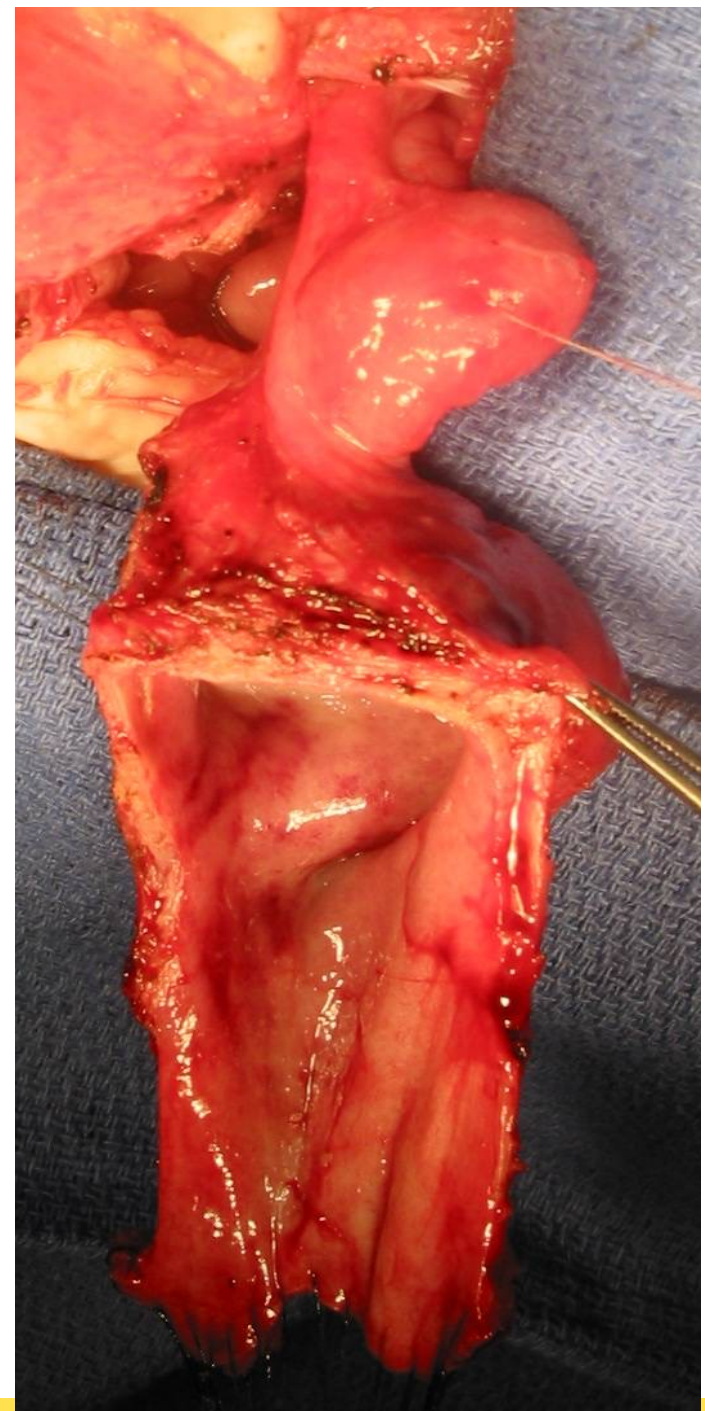
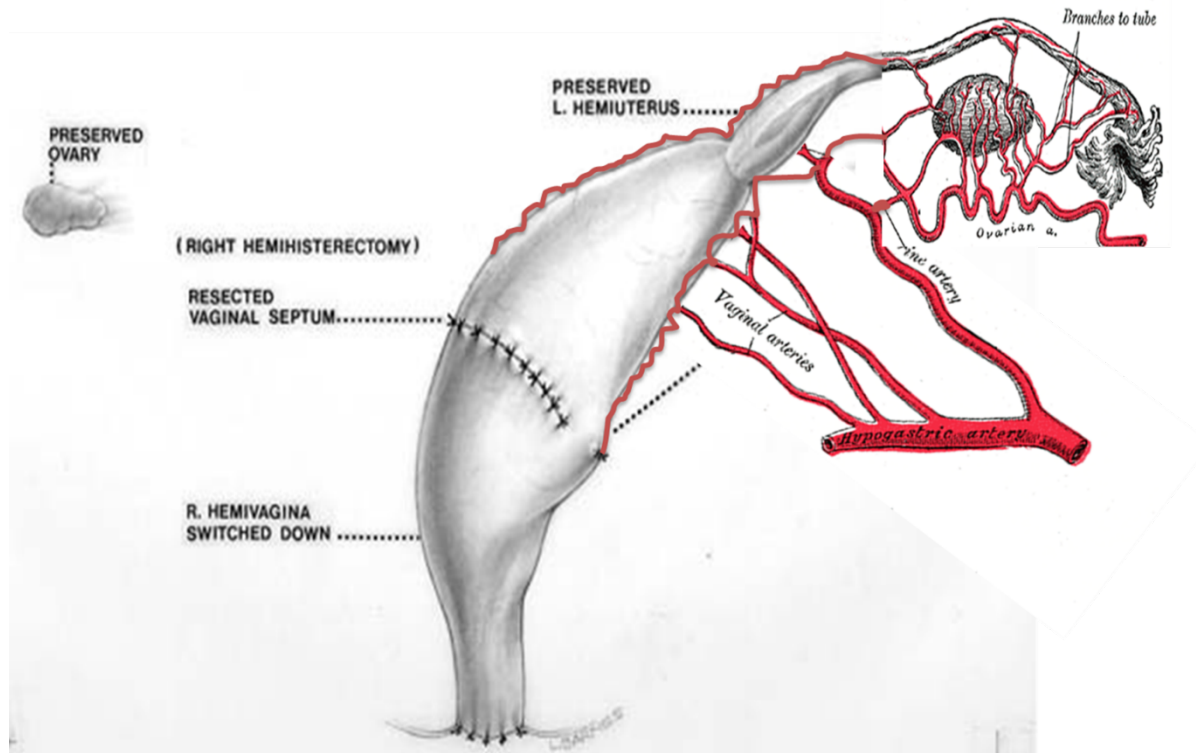
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# Vaginal Replacement - 130 cases

- With rectum - 50 cases
- With colon - 44 cases
- With small bowel - 36 cases



# VAGINAL REPLACEMENT WITH RECTUM



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INFERIOR  
MESENTERIC  
VESSELS .....

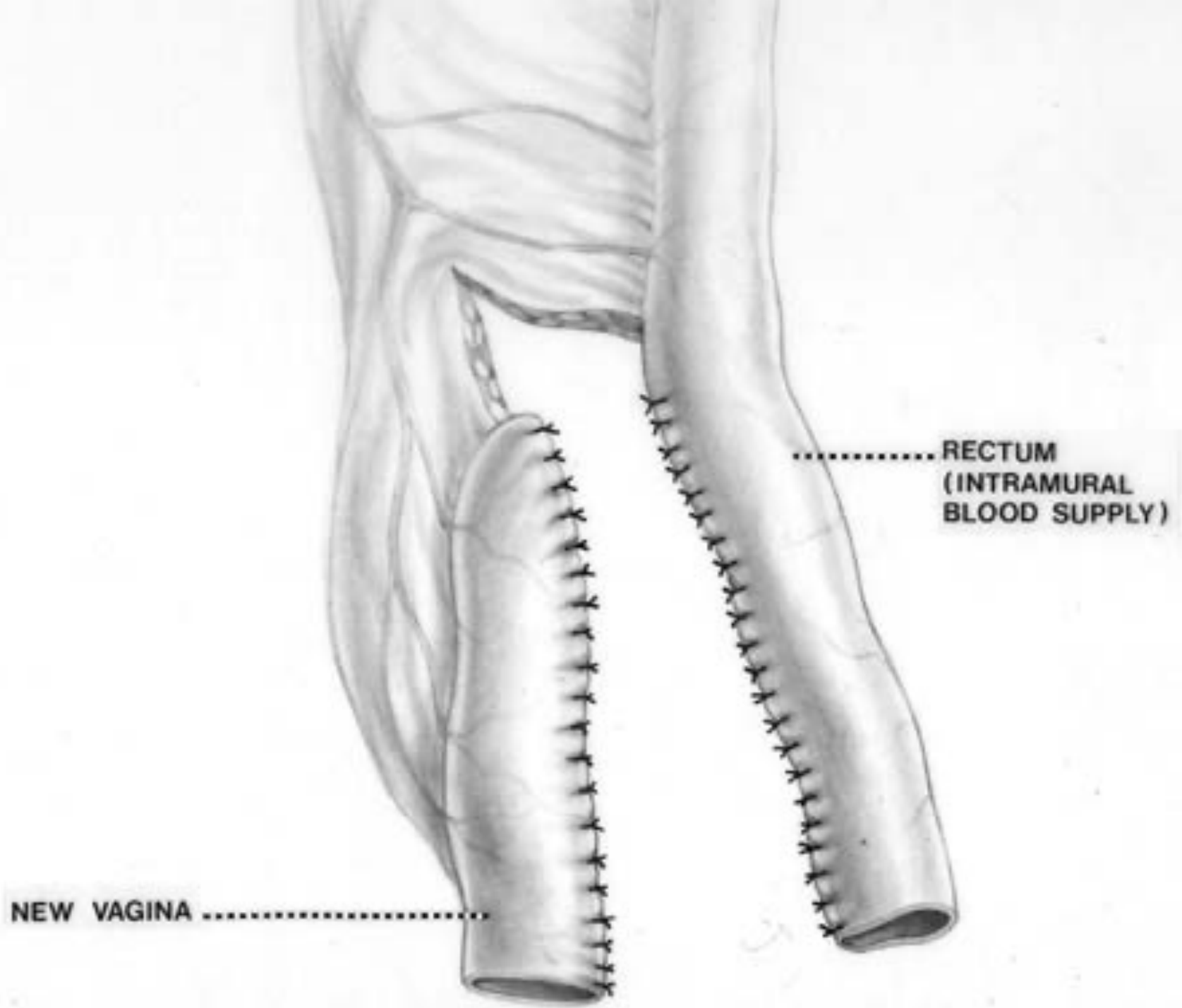
FUTURE VAGINA .....

LINE OF DIVISION



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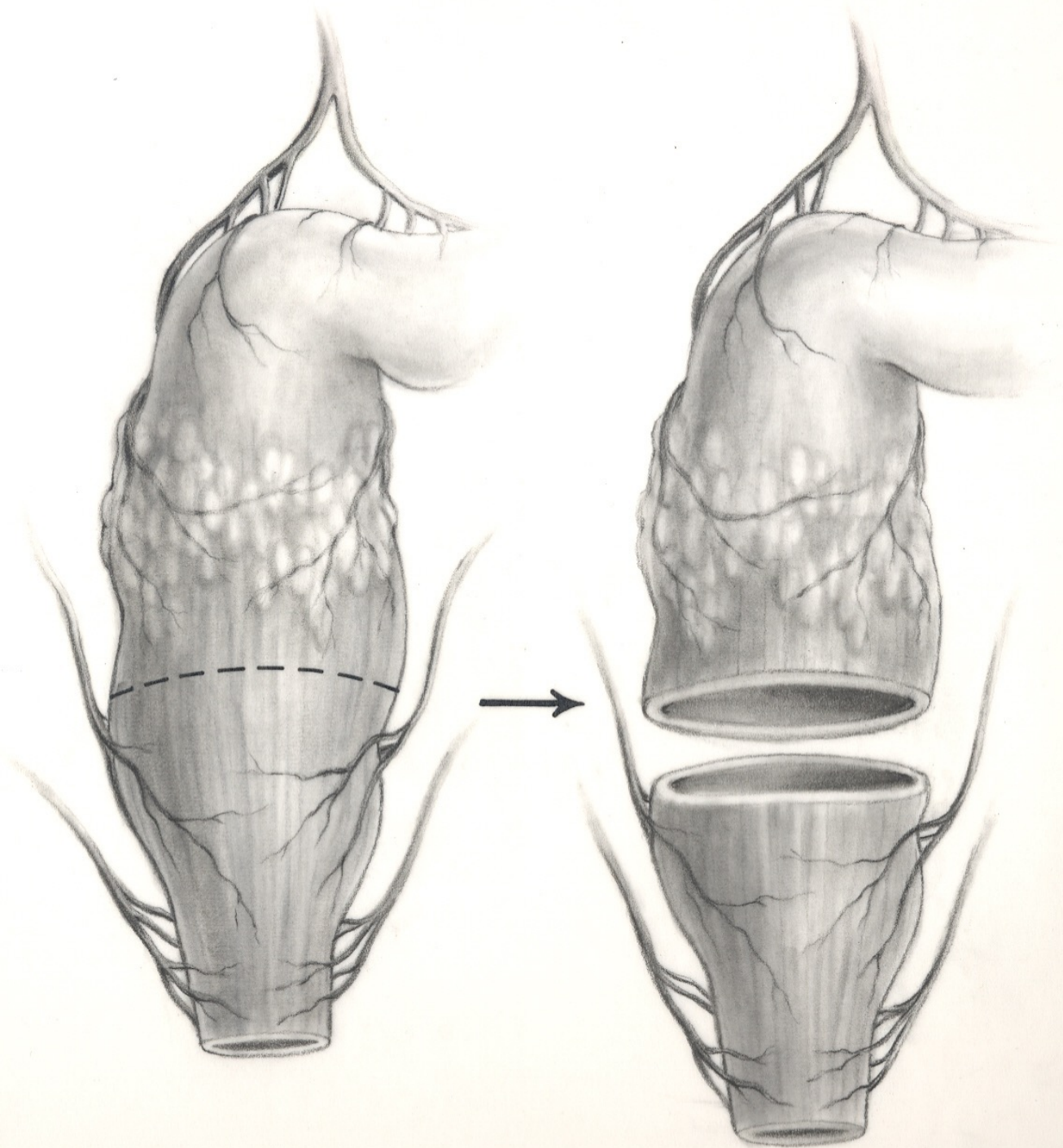
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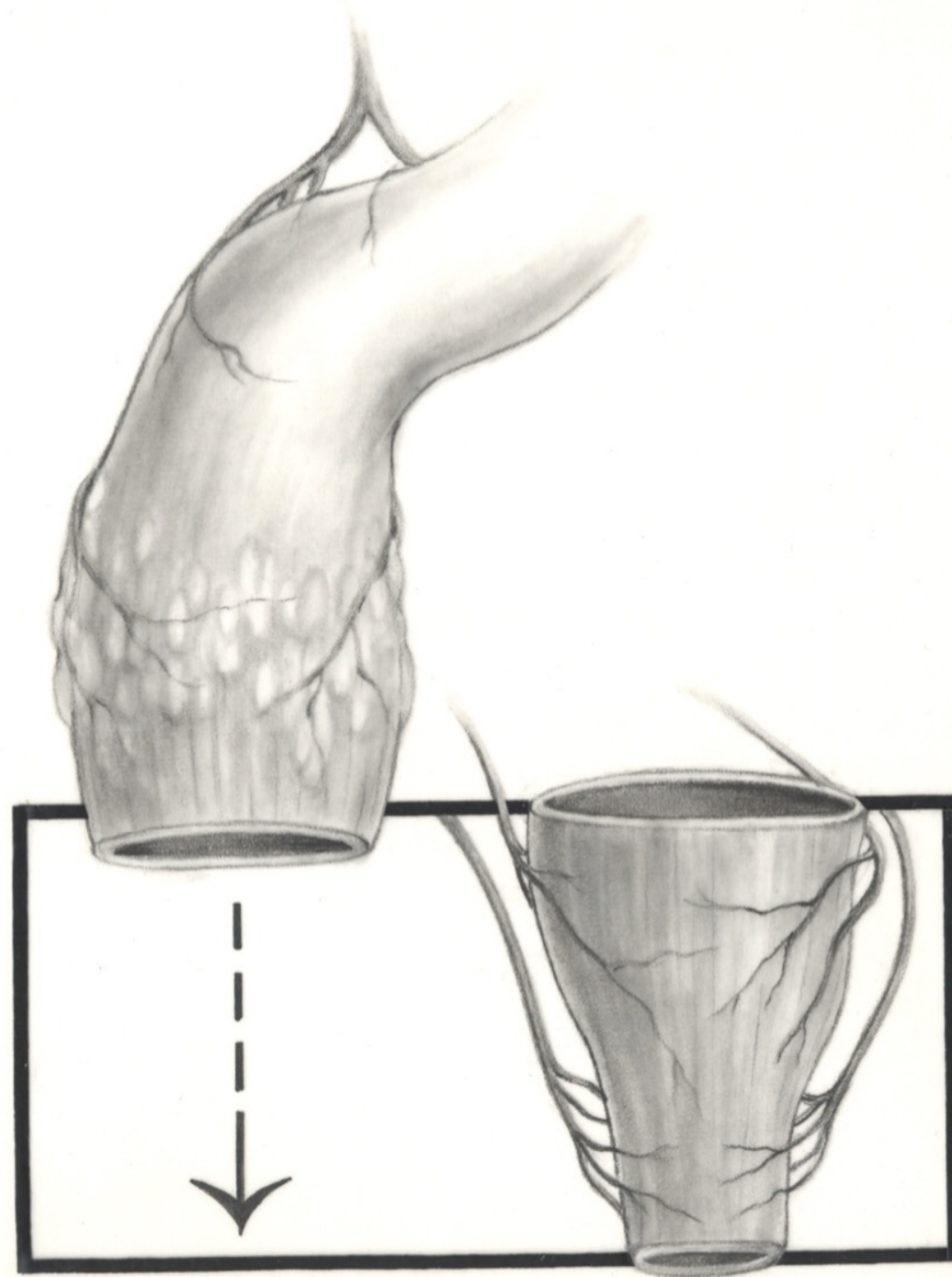


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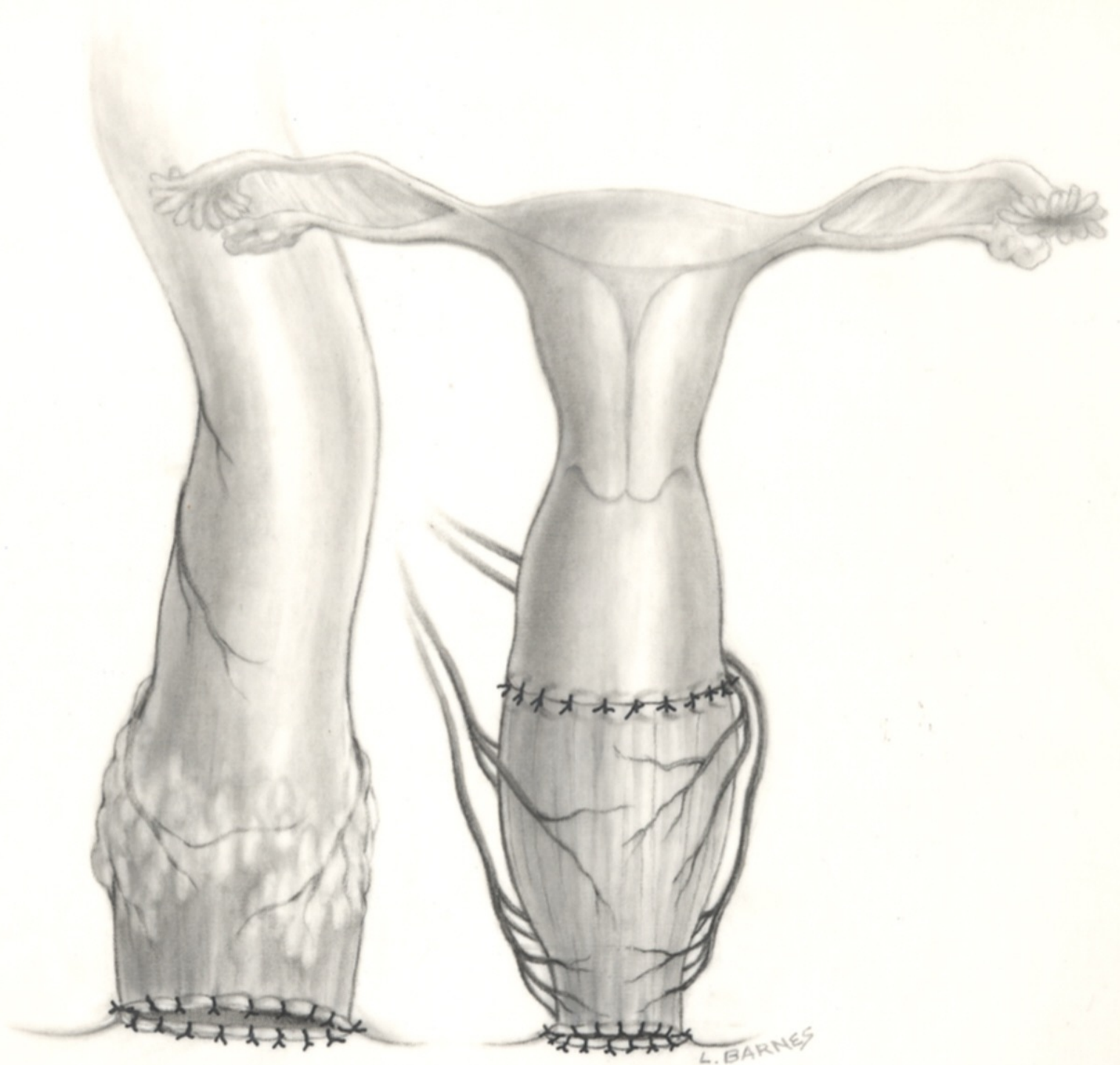
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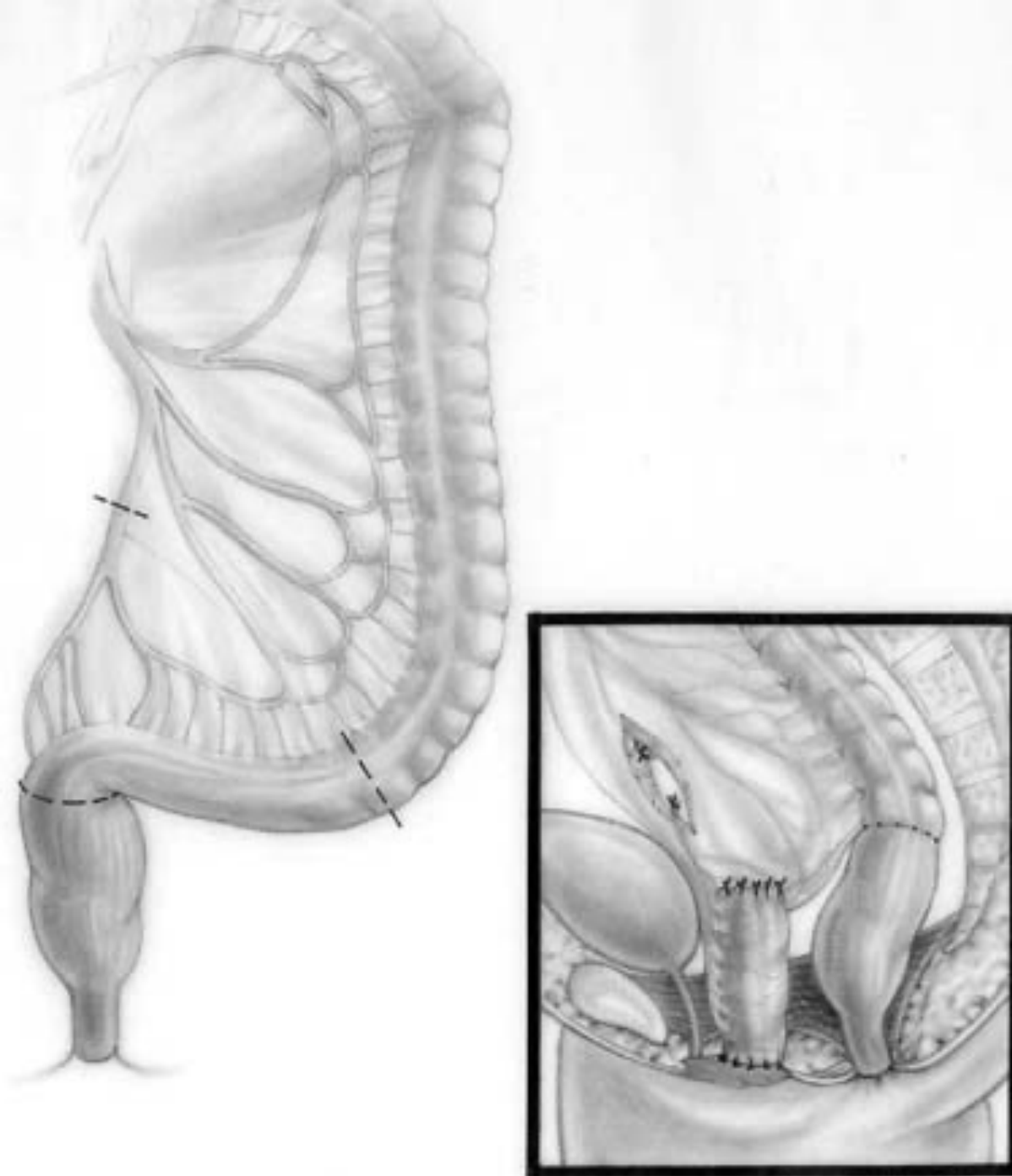
# Vaginal Replacement with Colon



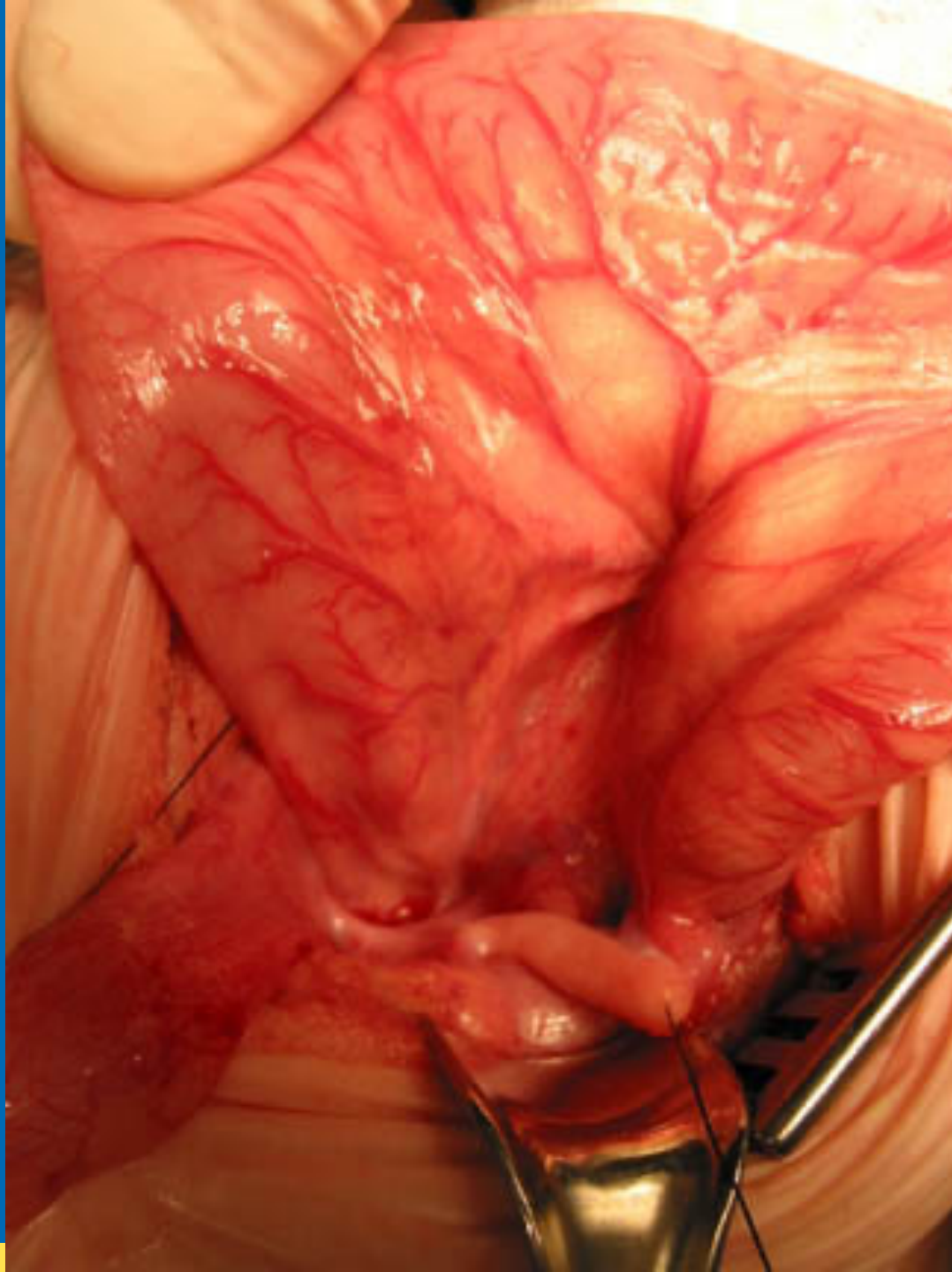
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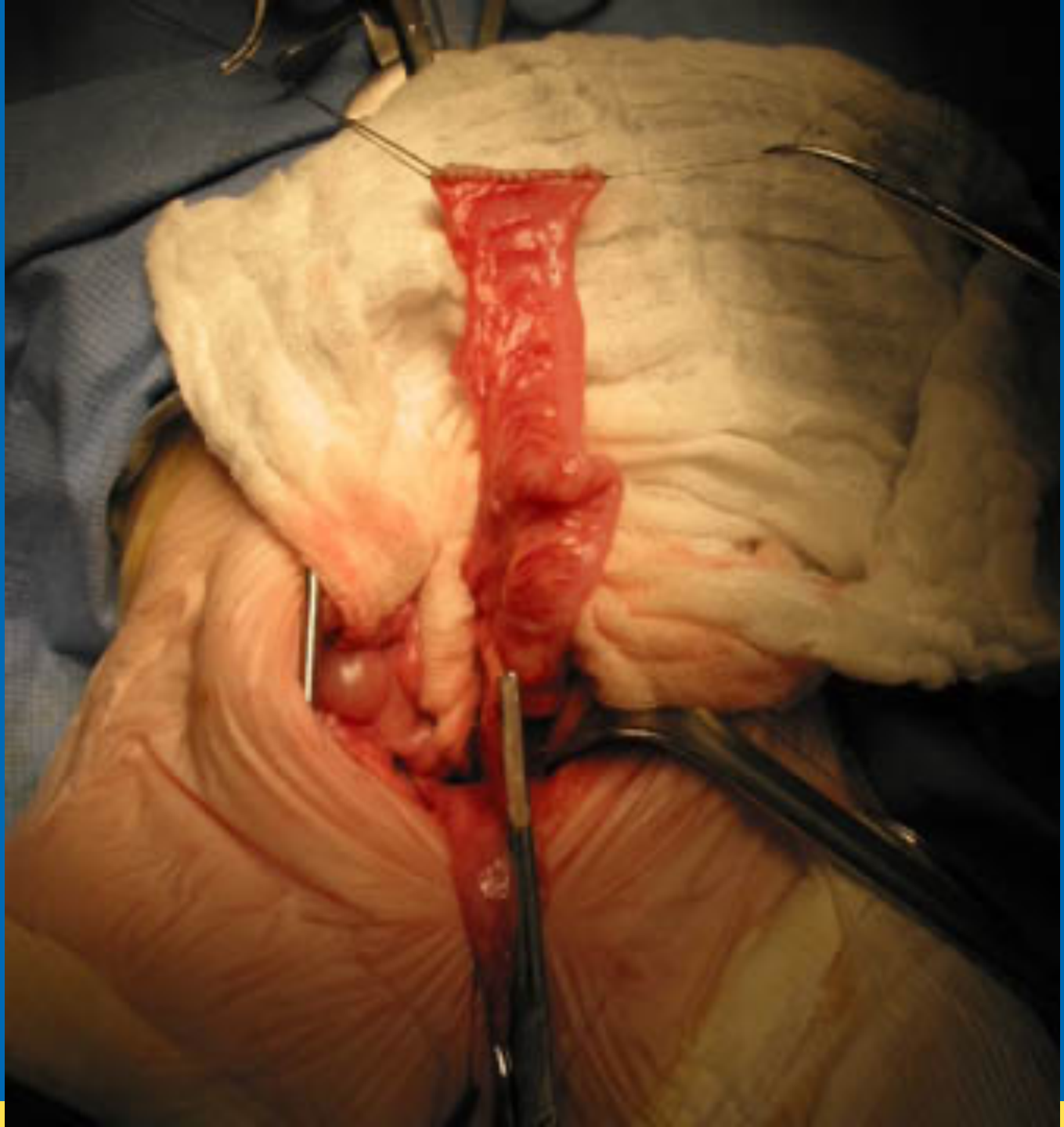
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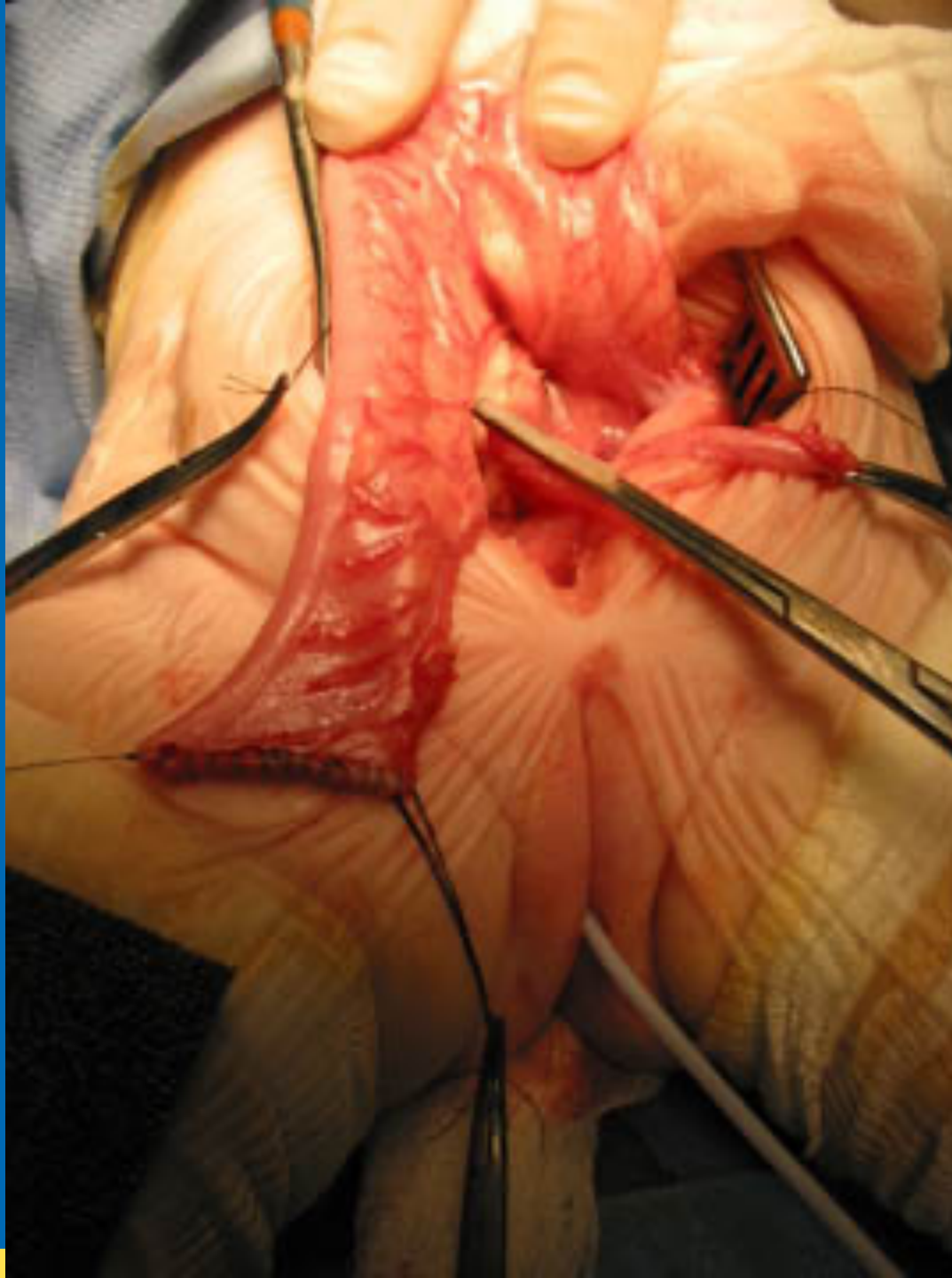
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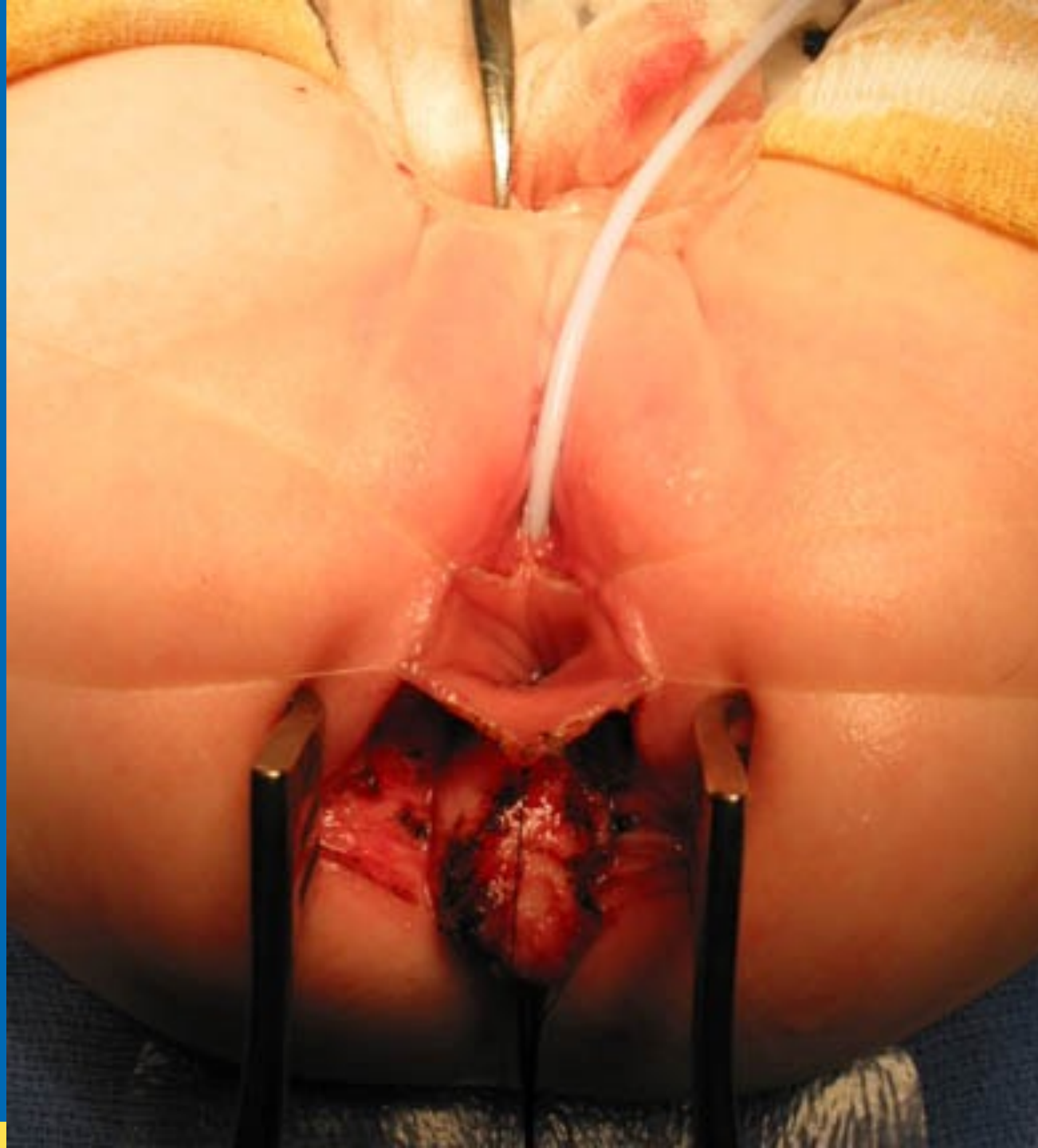
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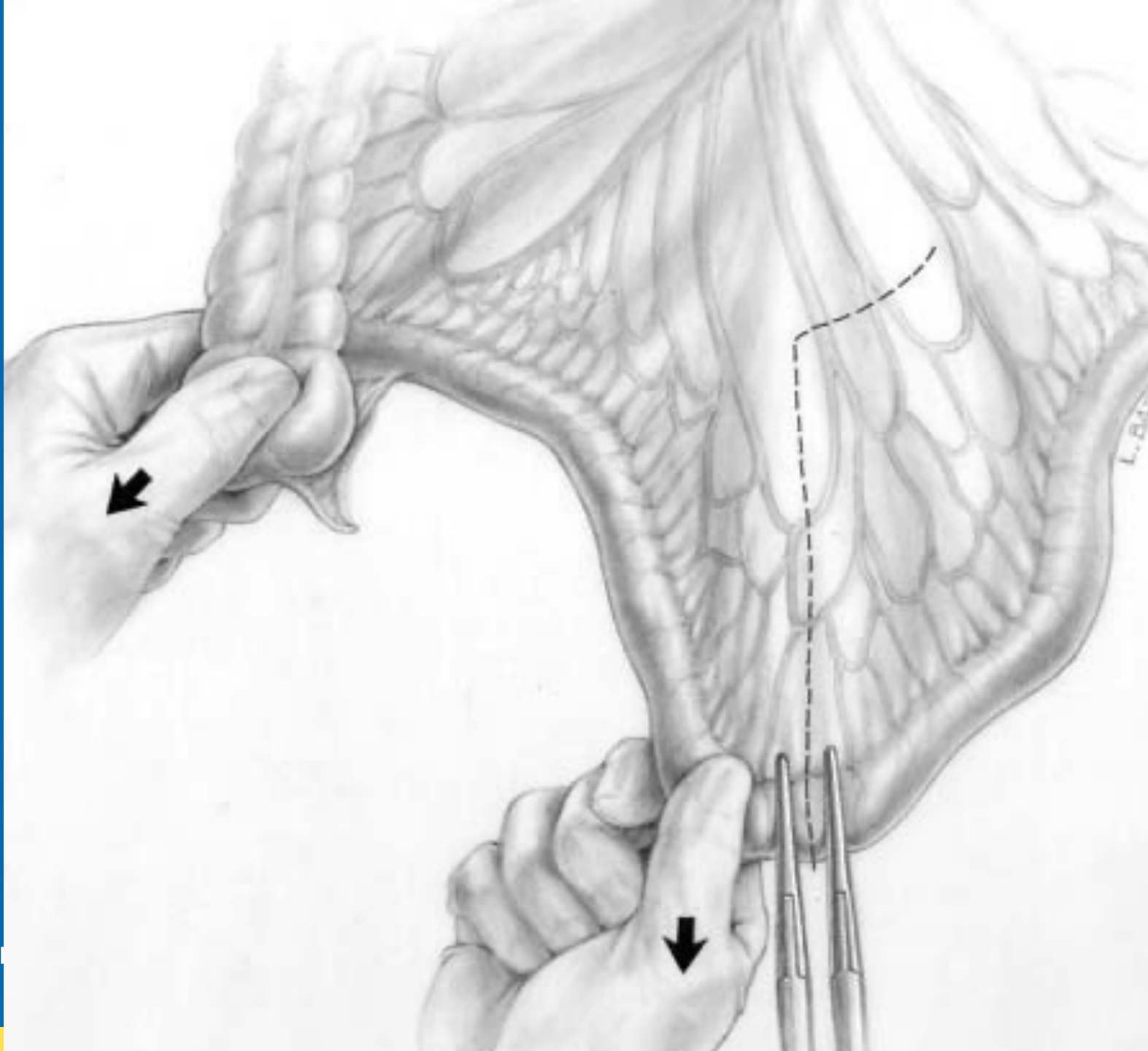
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# VAGINAL REPLACEMENT WITH SMALL BOWEL

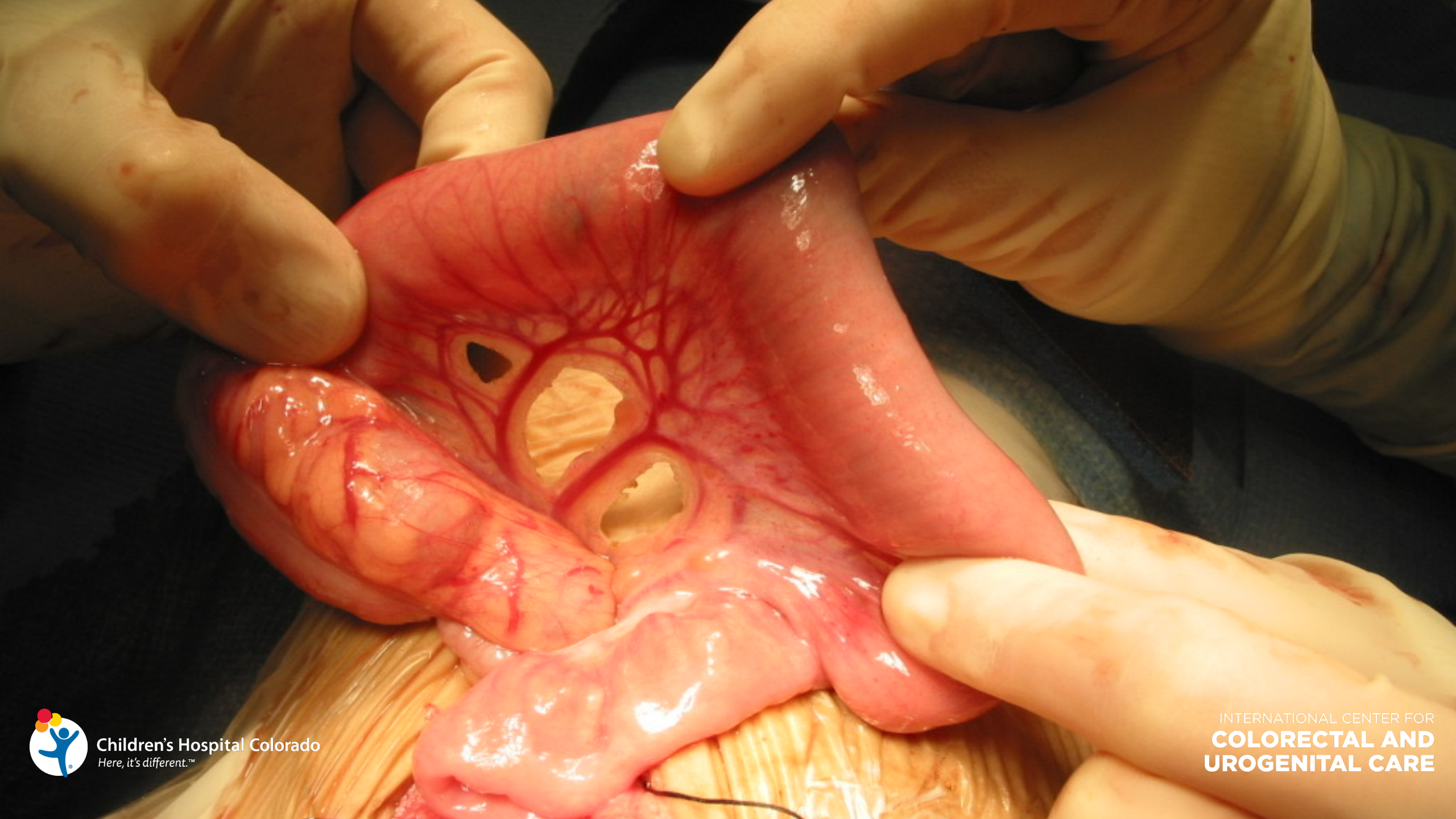


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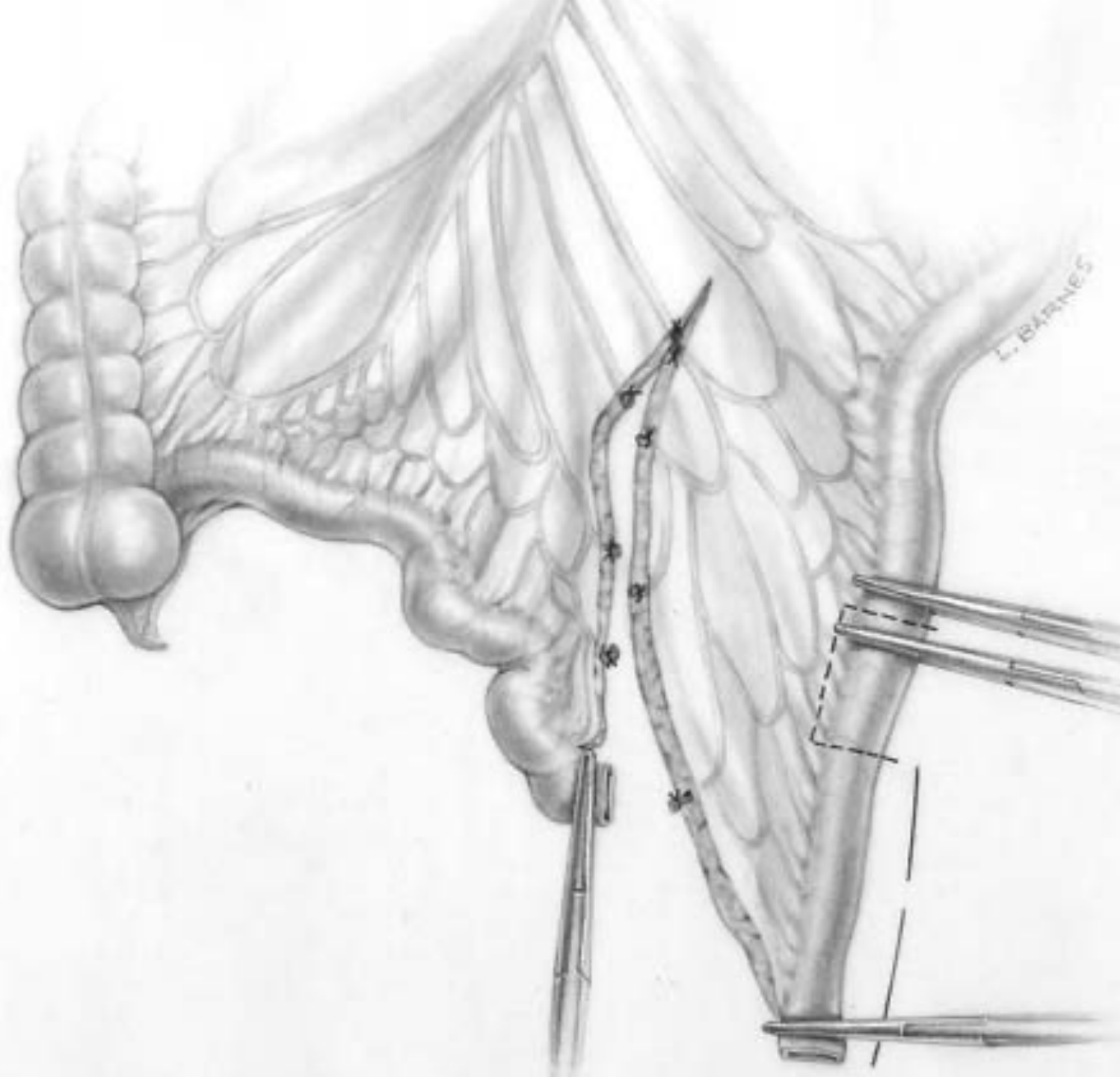
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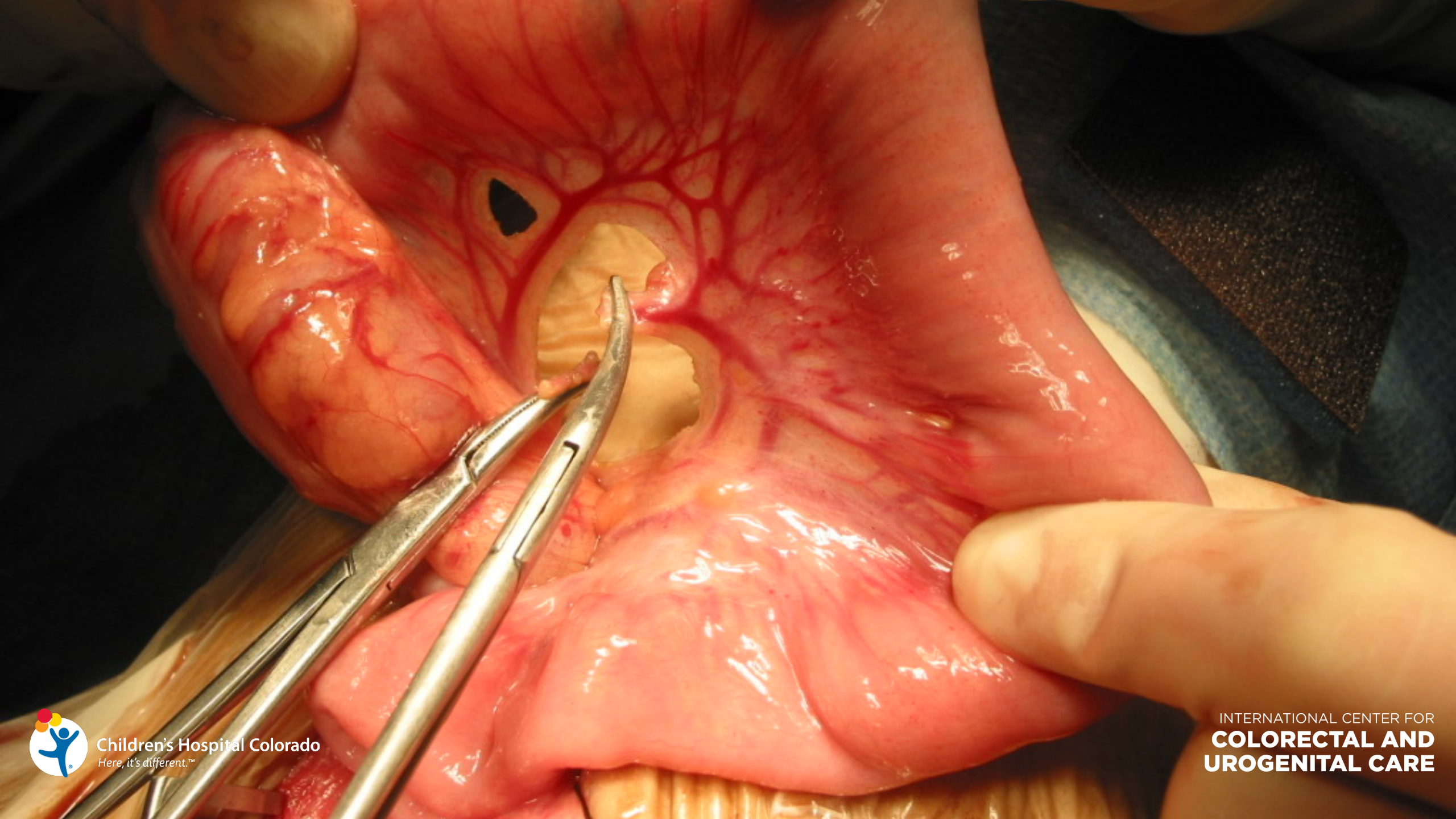
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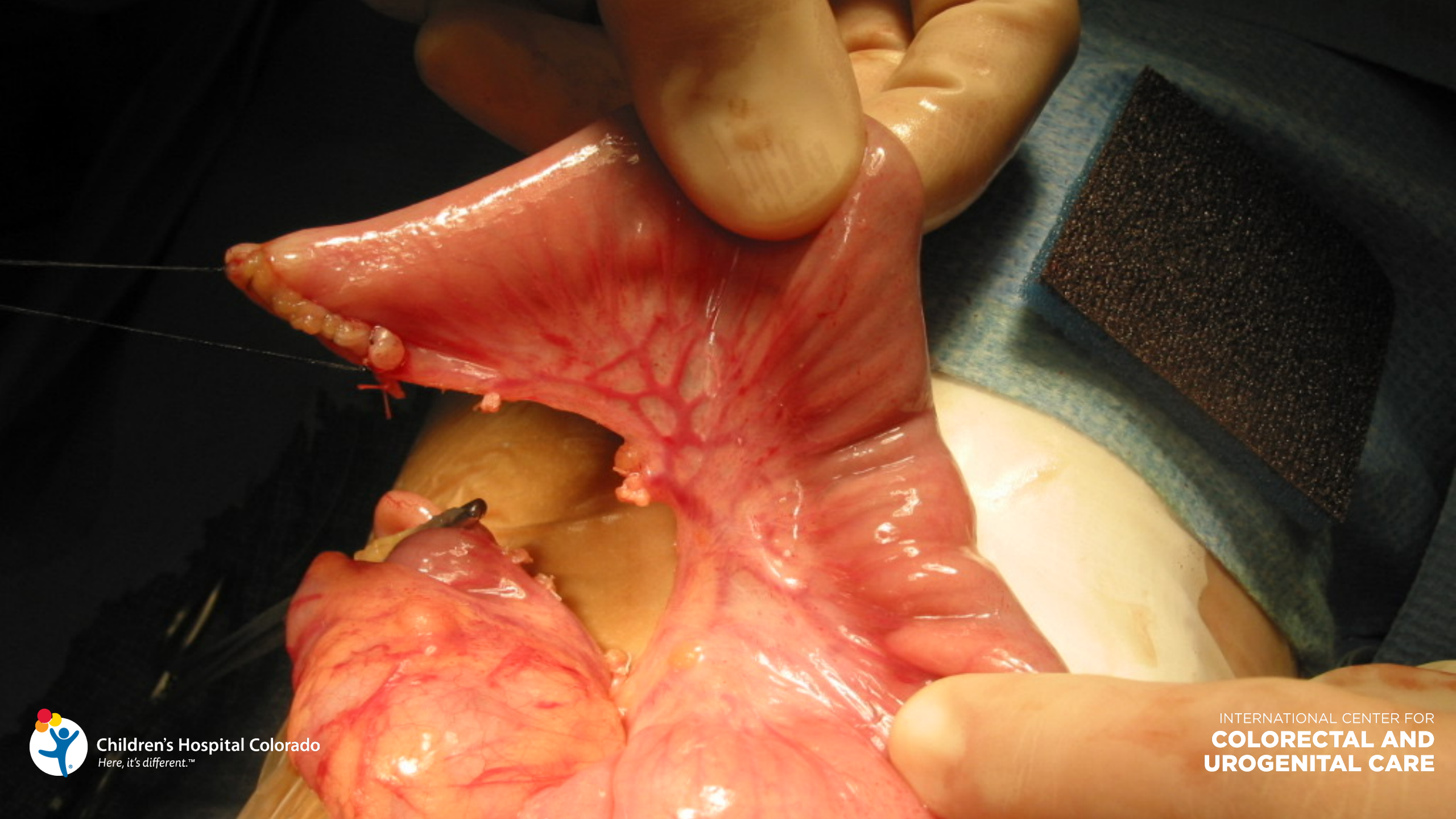
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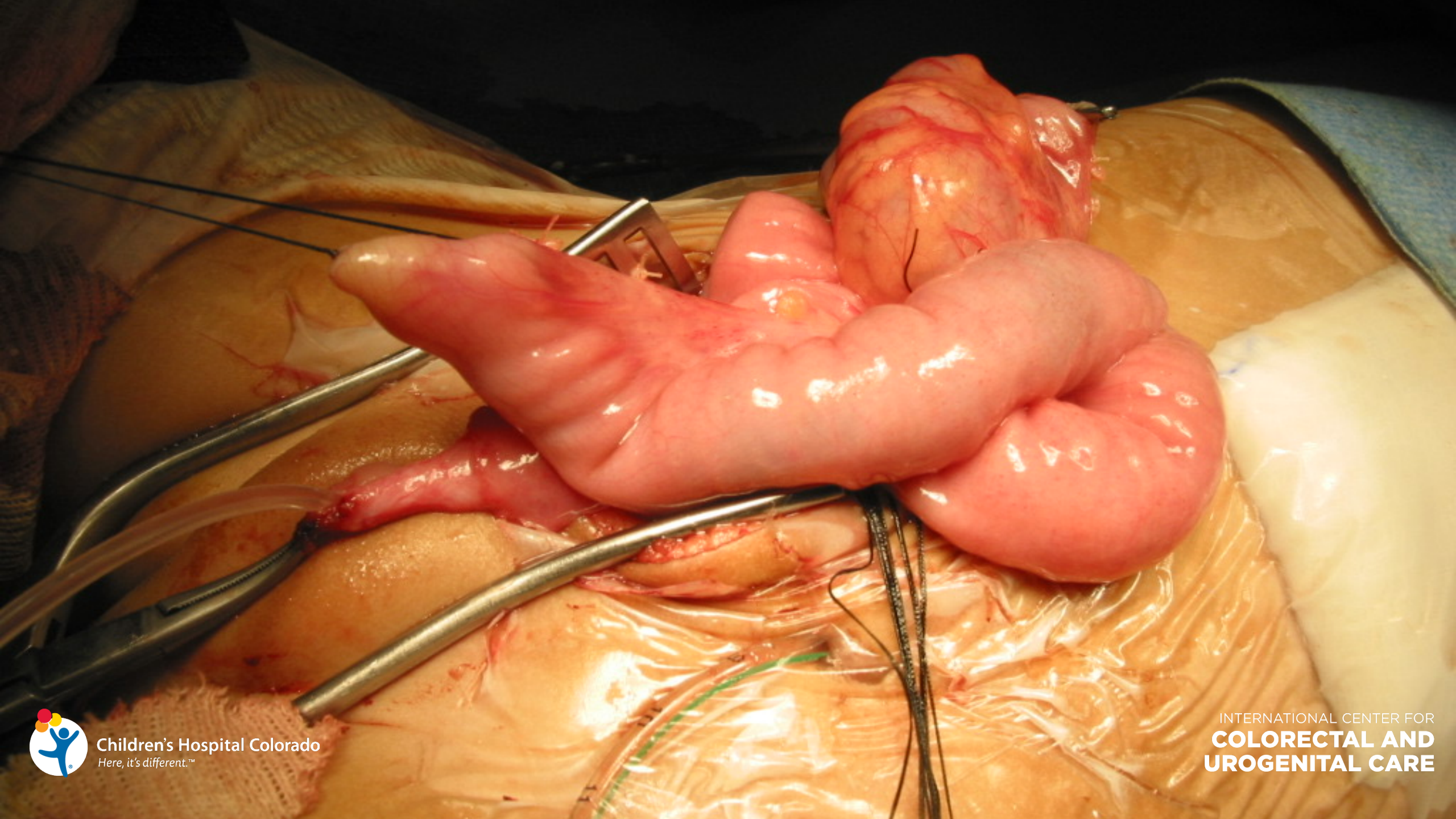




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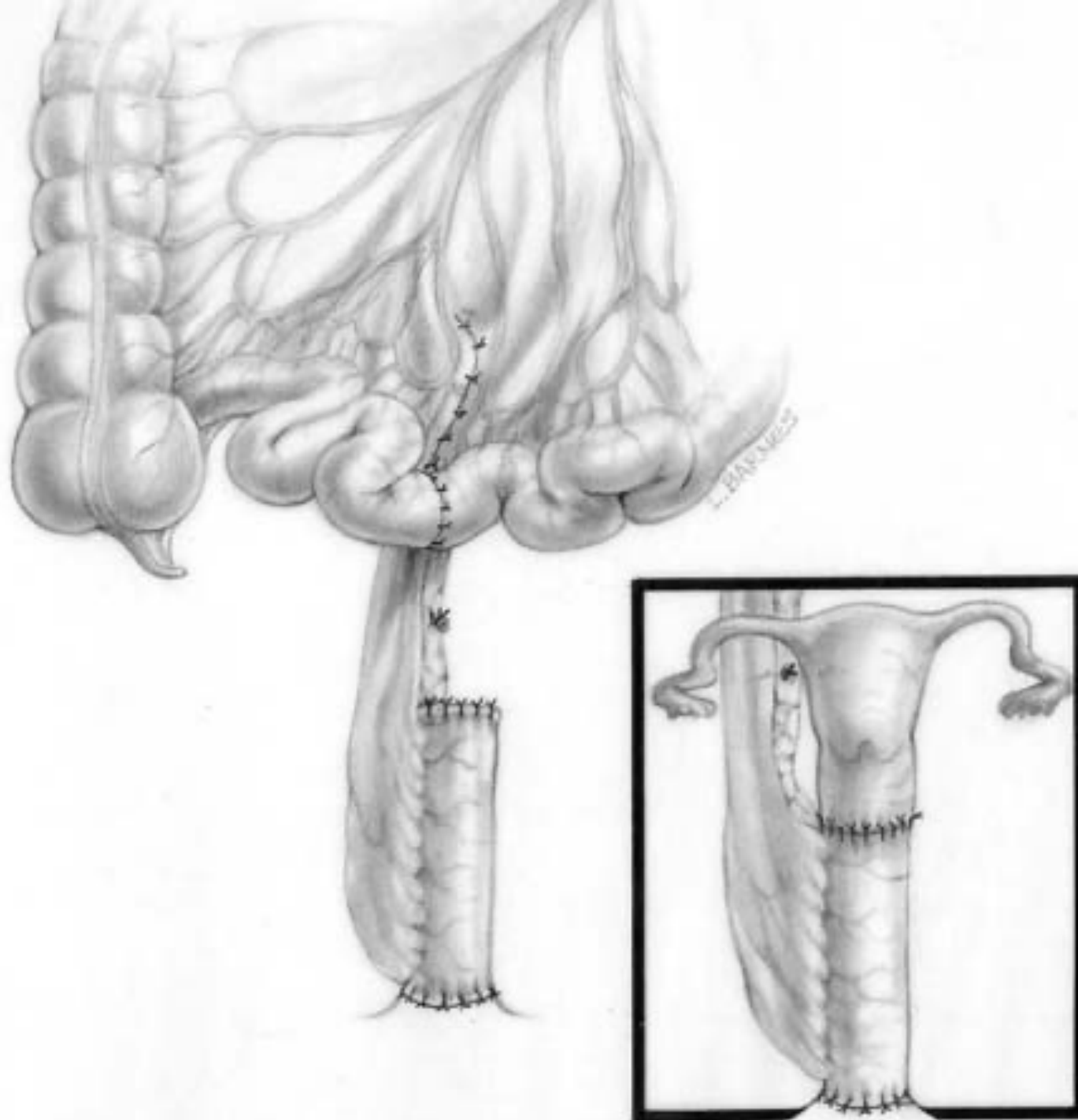
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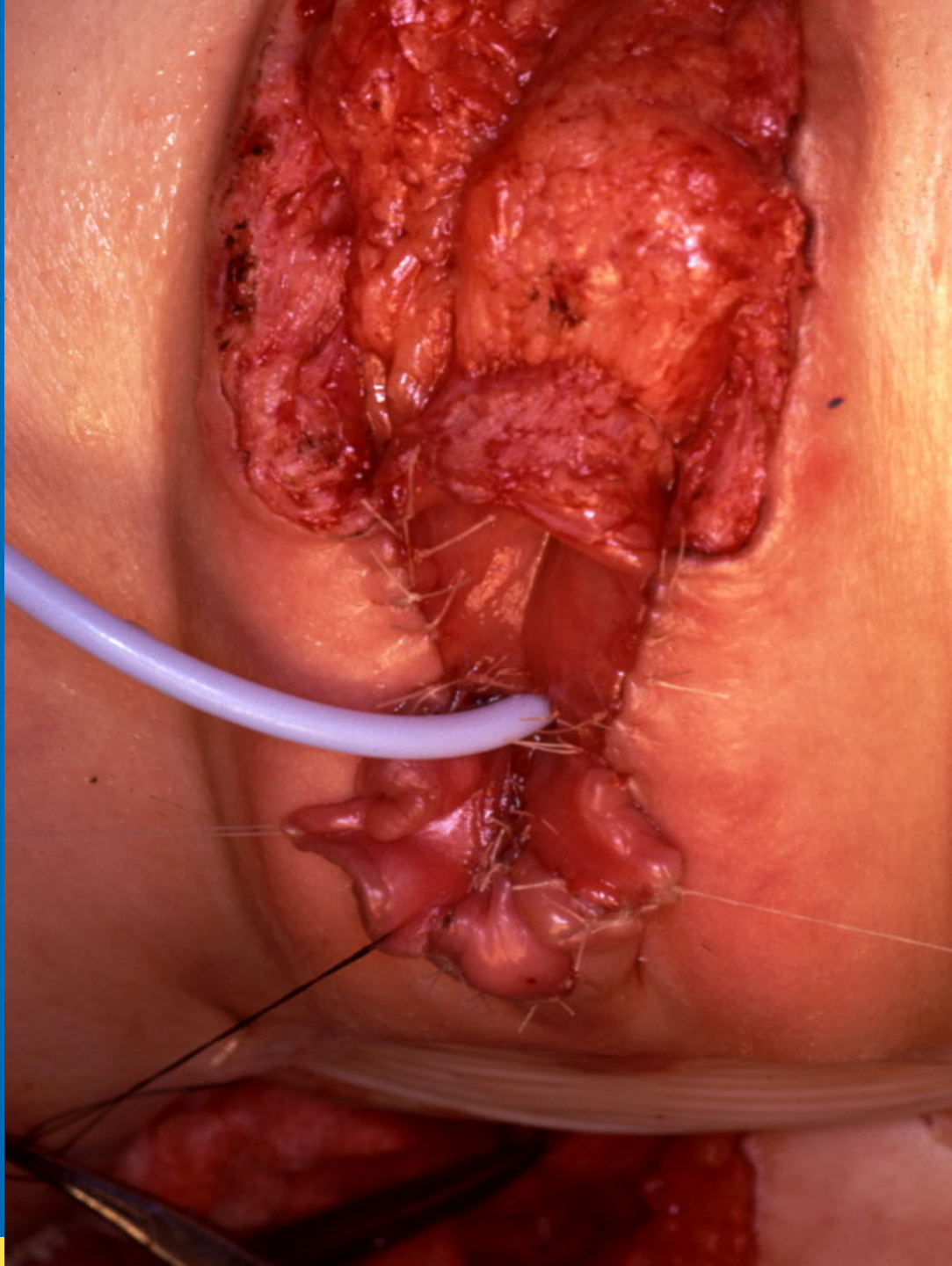
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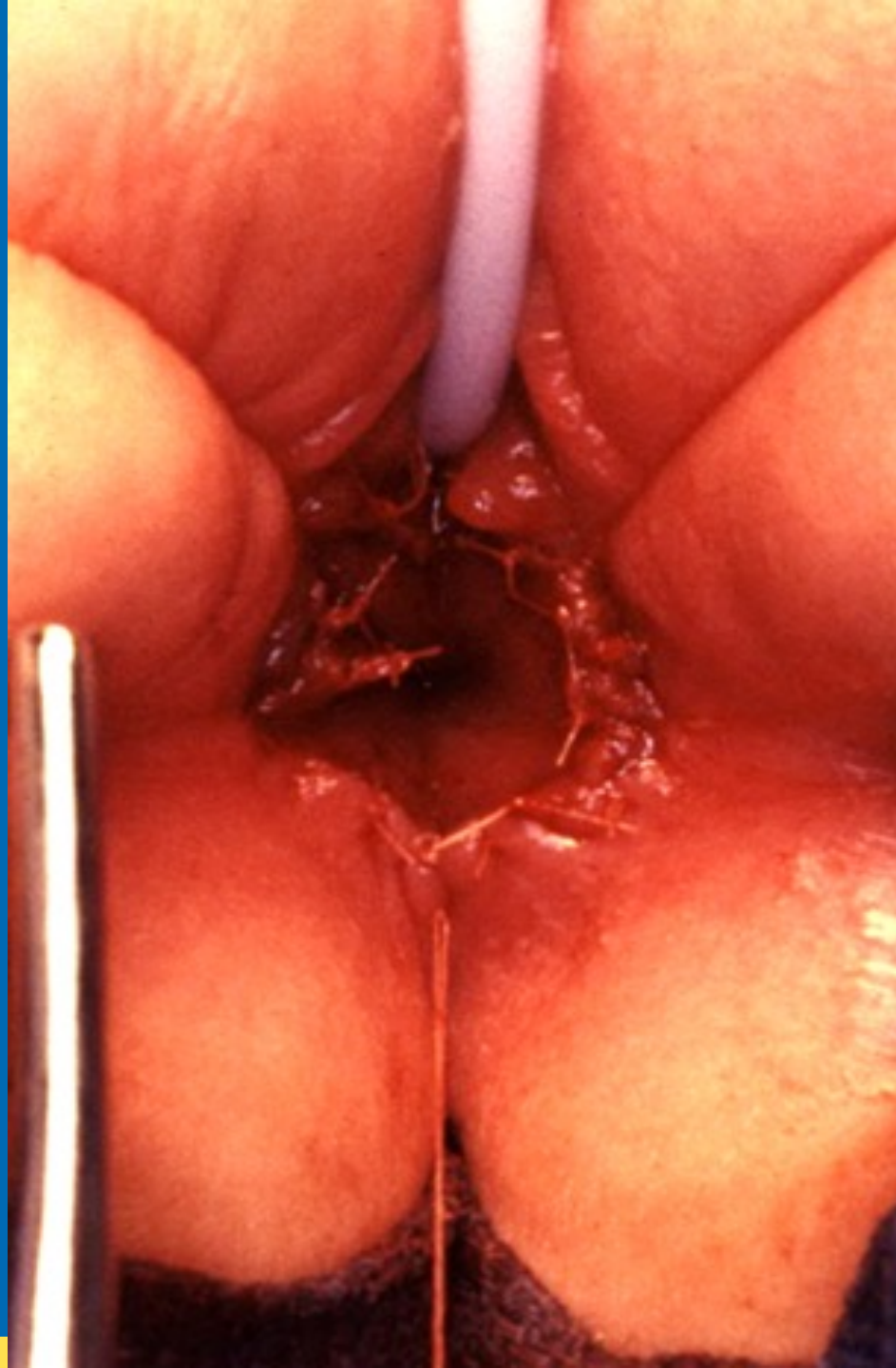




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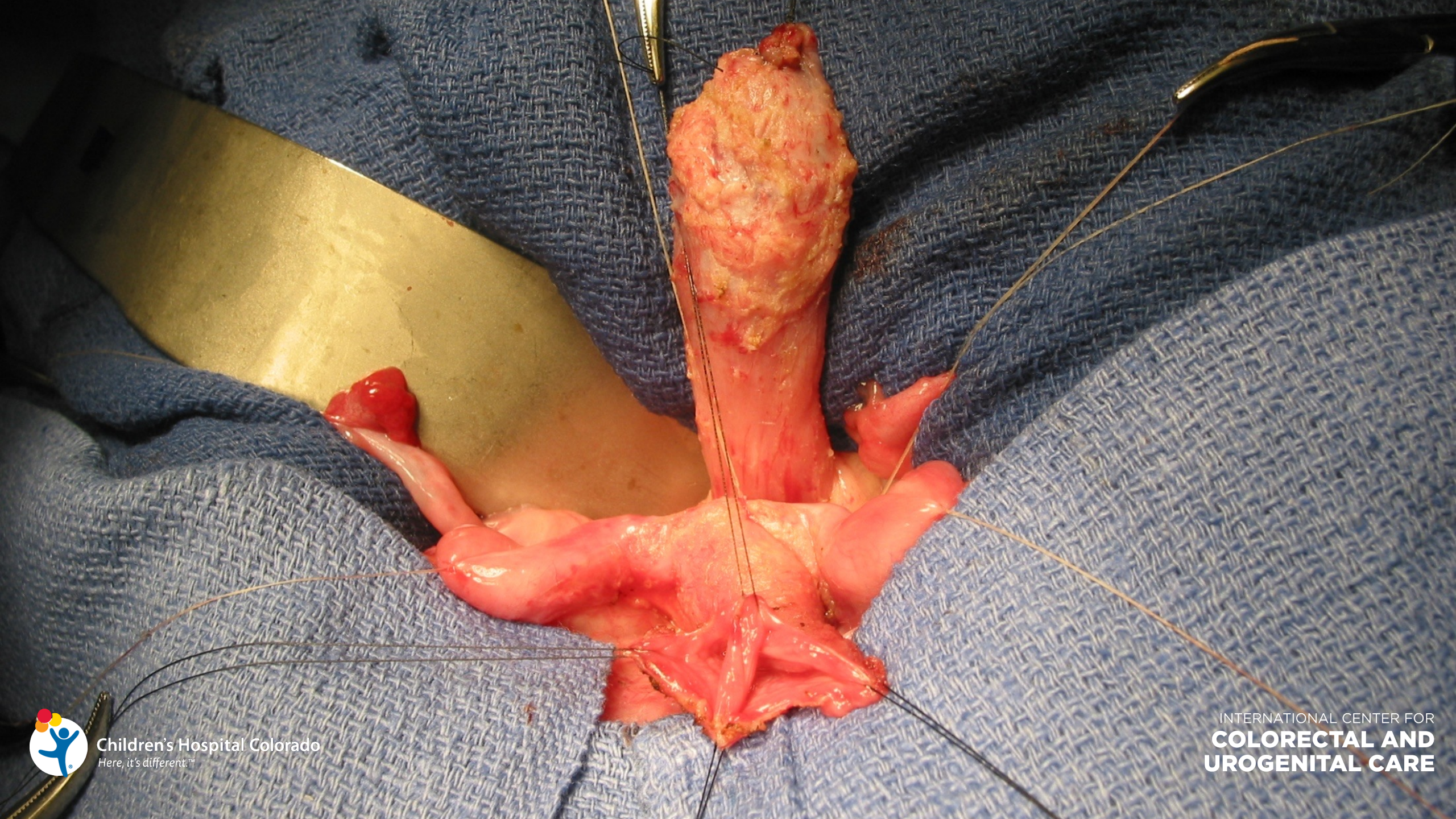
# PARTIAL VAGINAL REPLACEMENT



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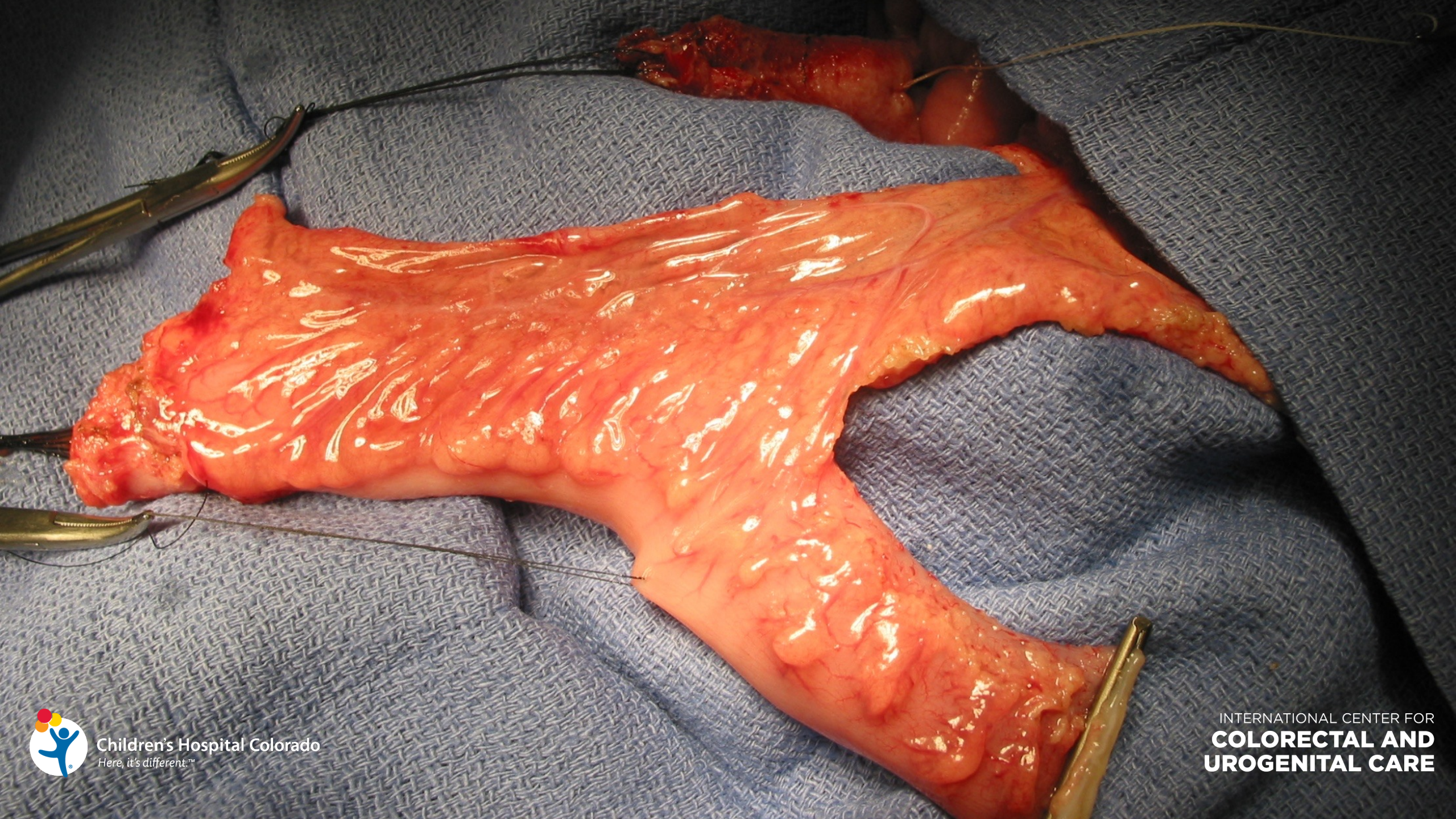




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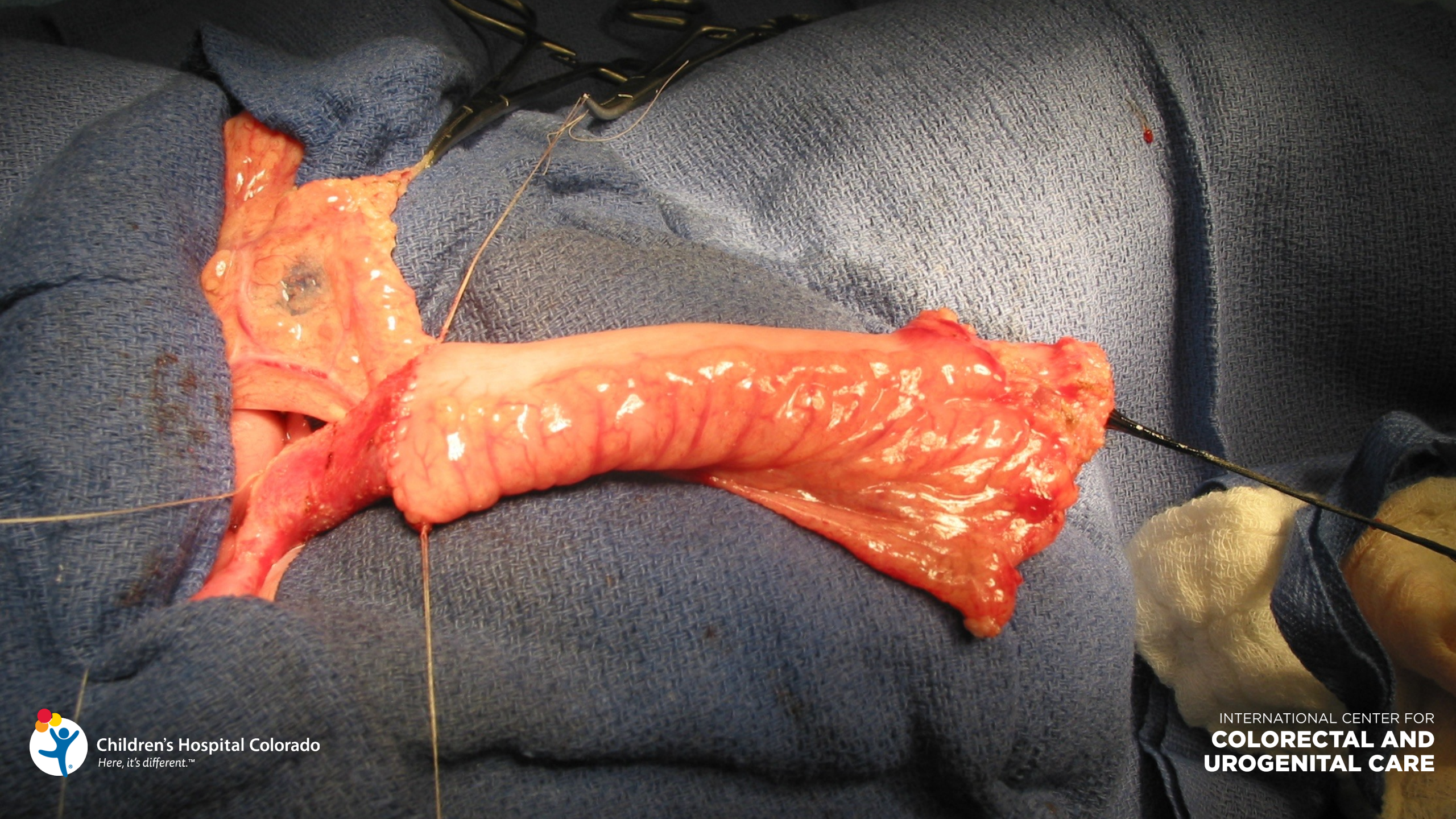




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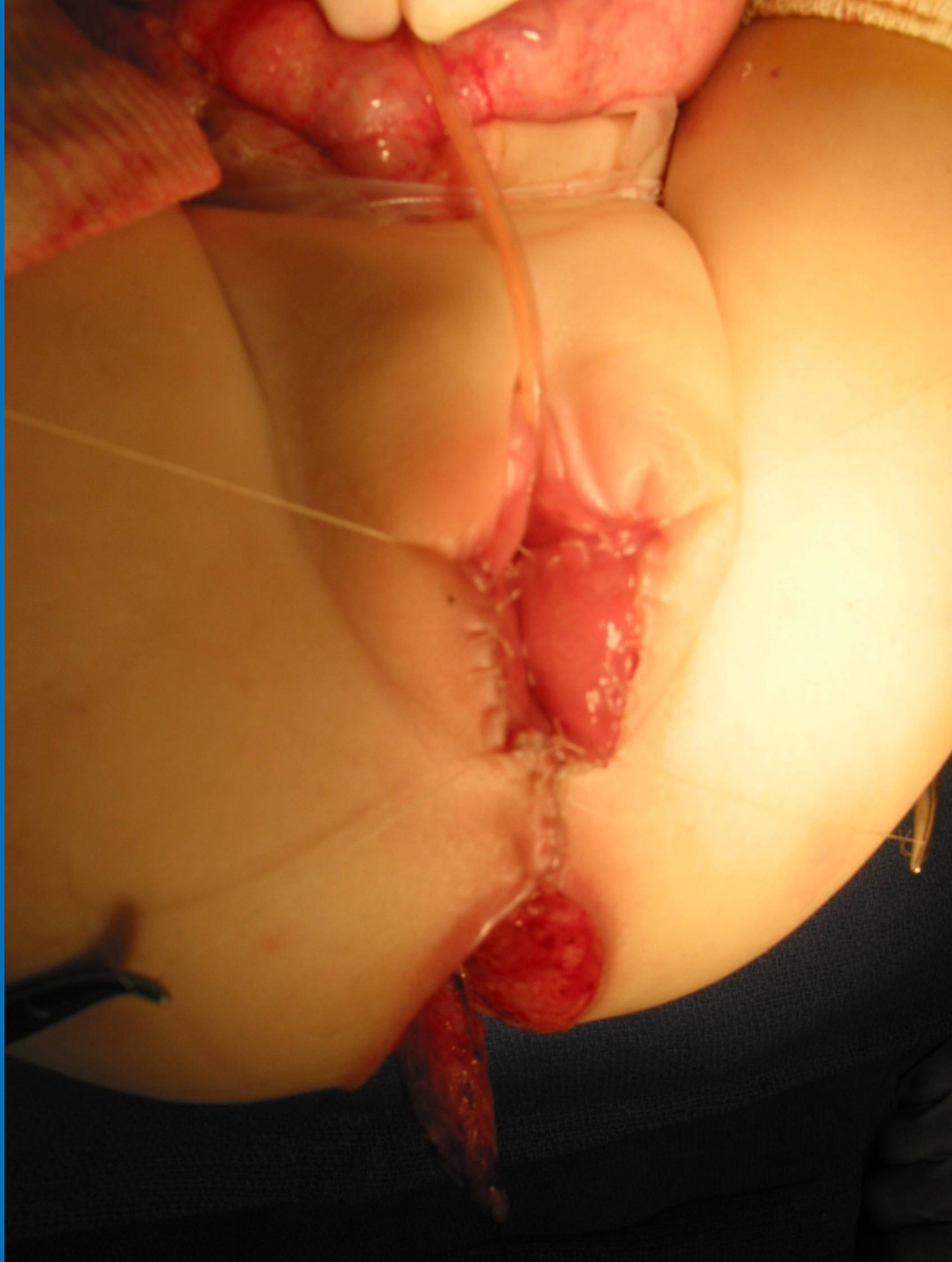




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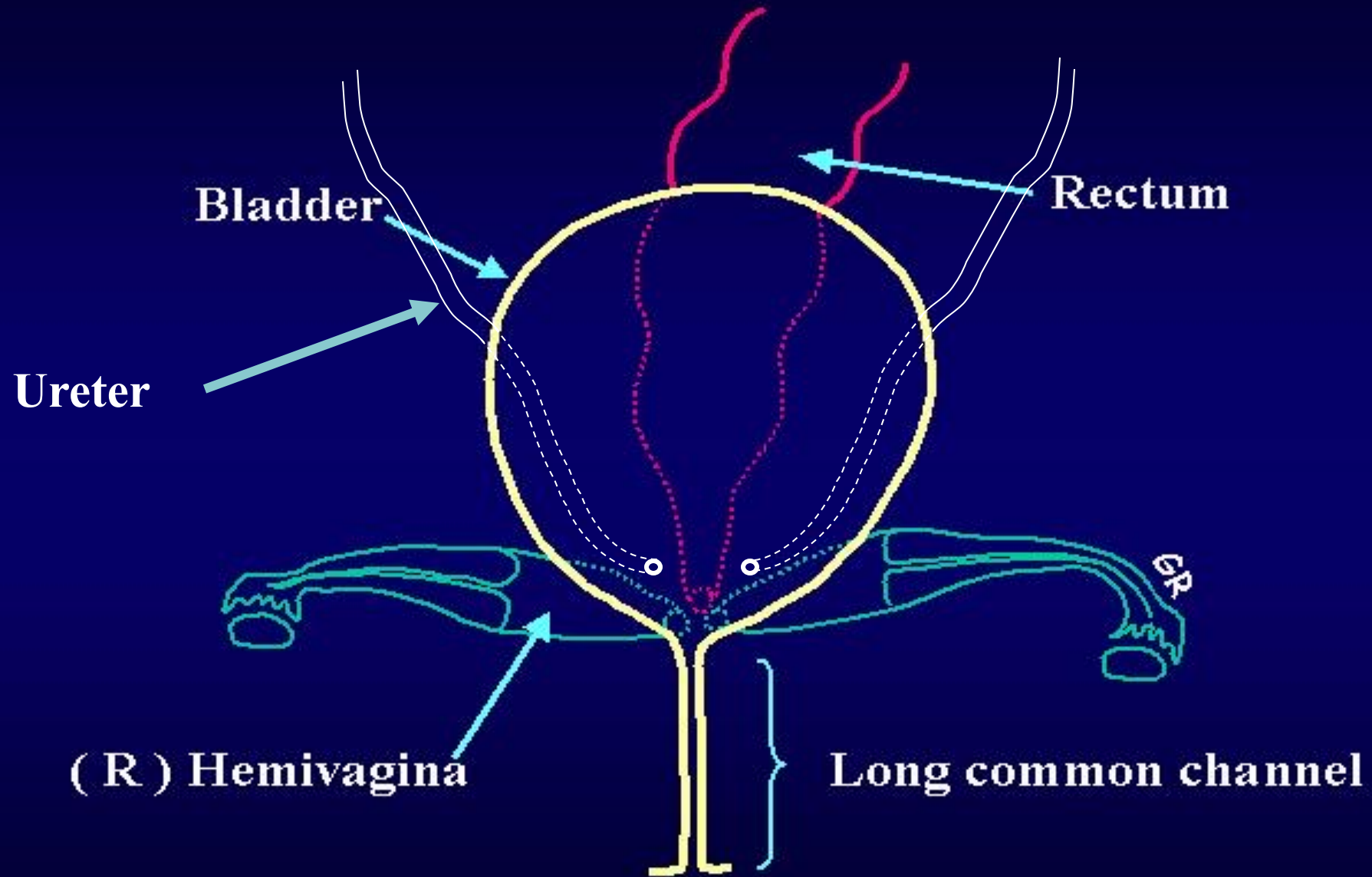


# EXTREMELY LONG COMMON CHANNEL



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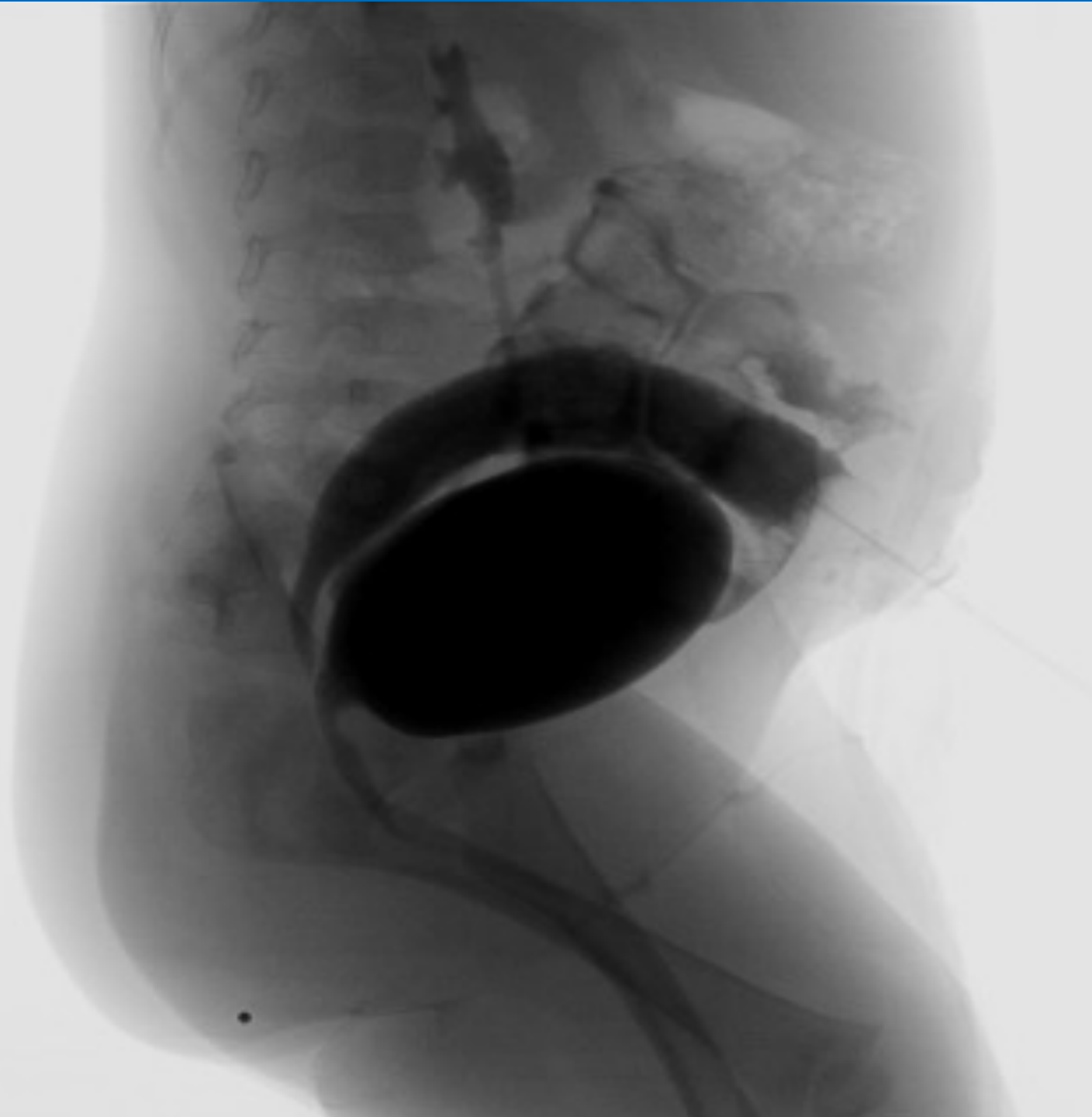
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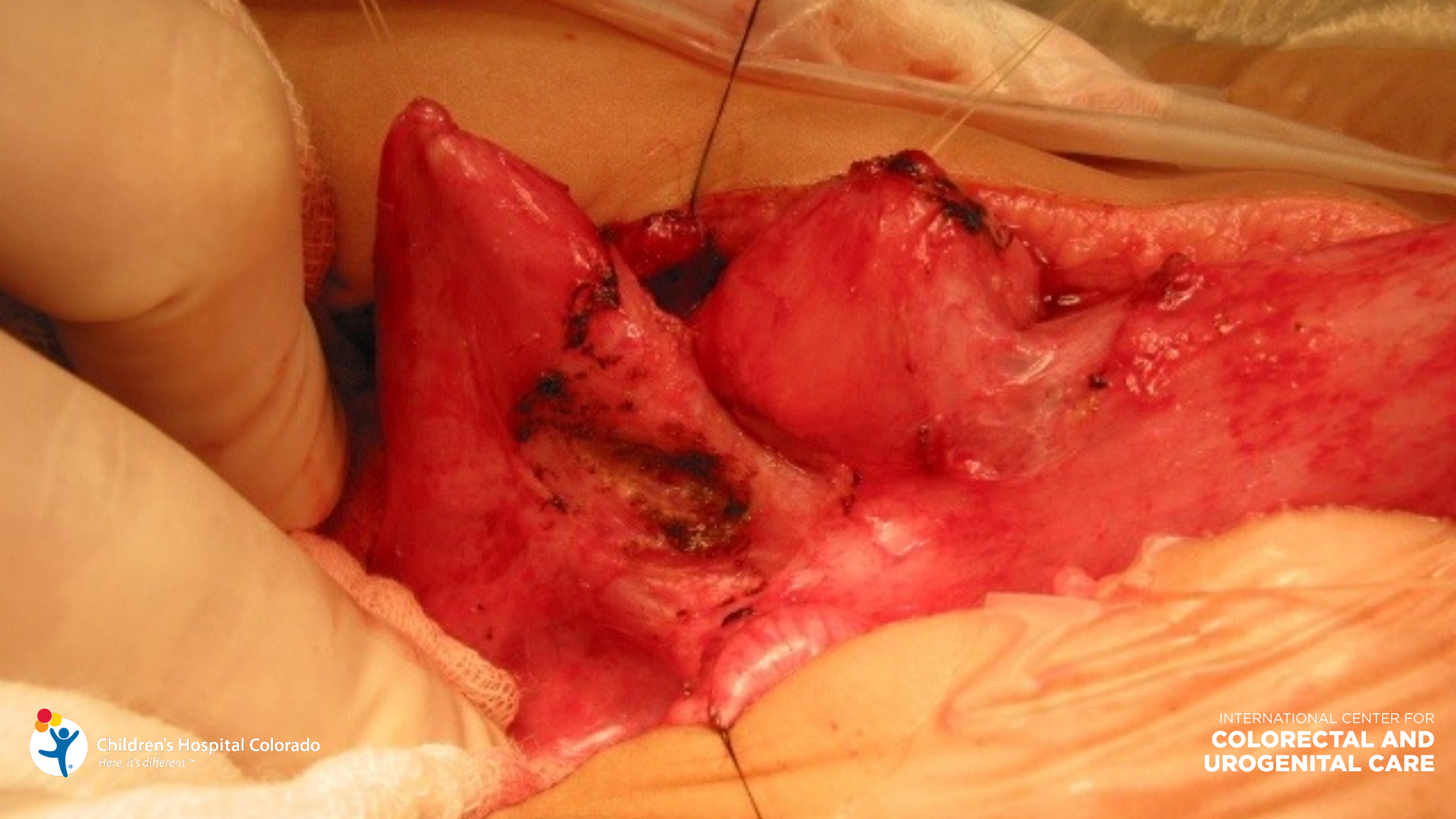
# LAPAROTOMY FIRST



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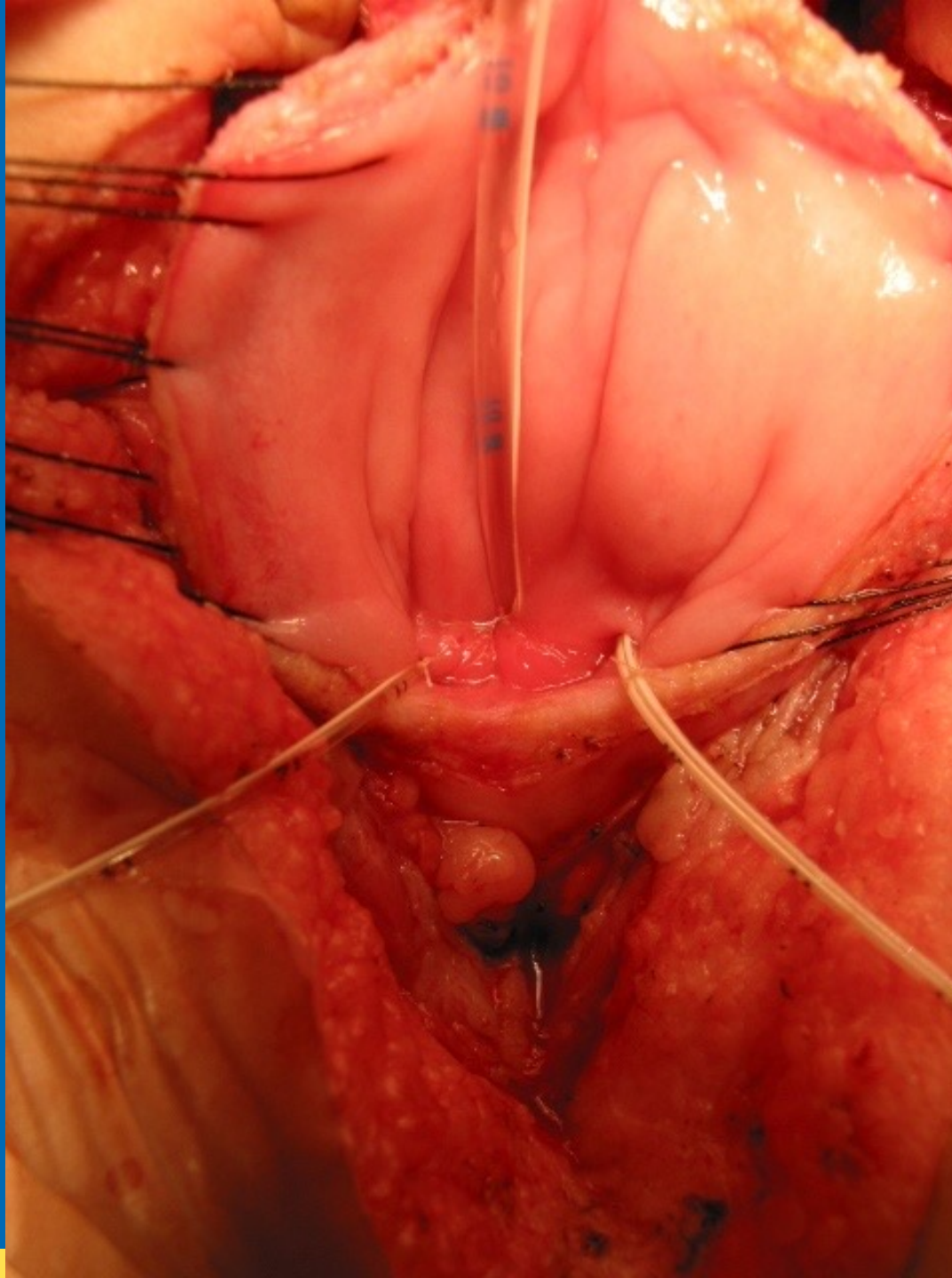
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# What about laparoscopy for cloacas?

- Literature review:
  - 12 cases reported
  - Only the rectum was repaired laparoscopically!

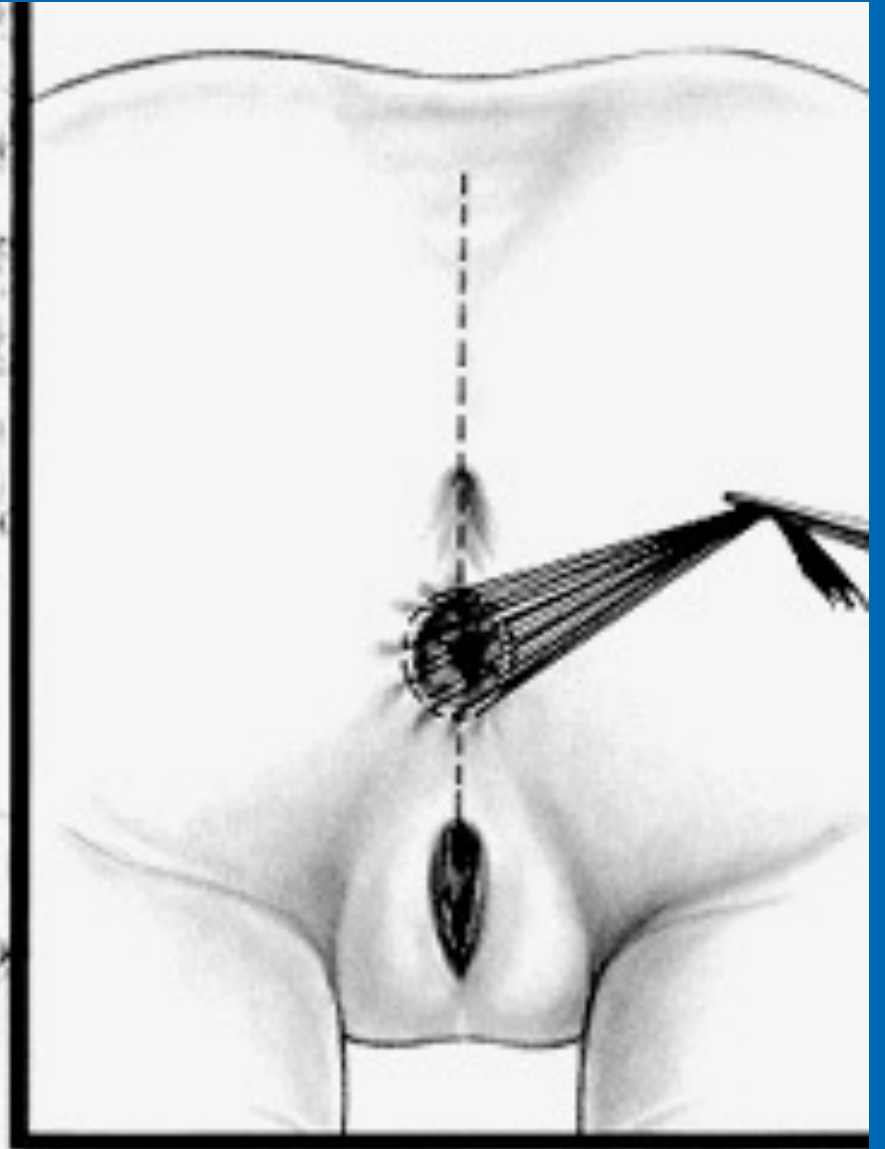
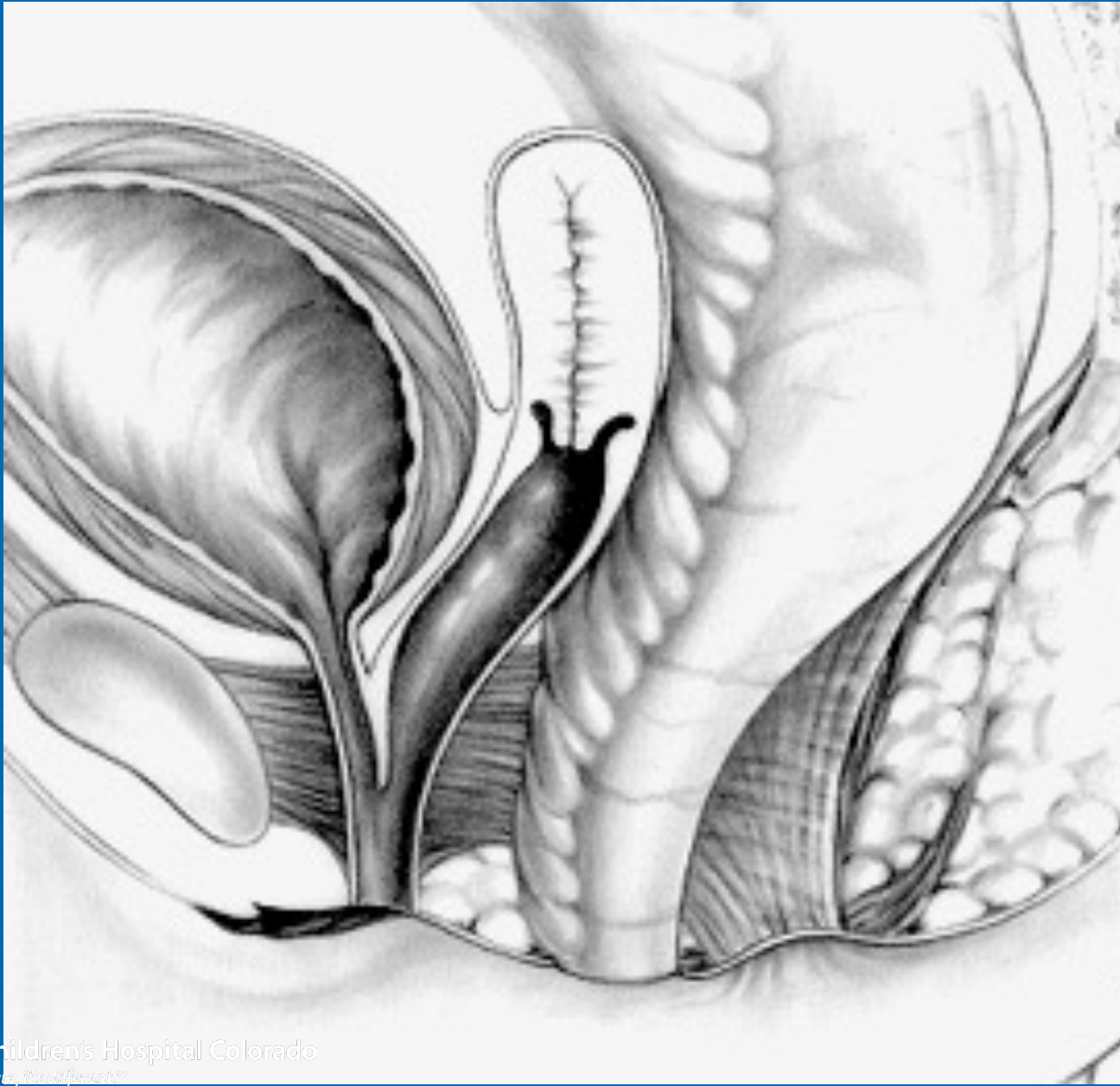
# CLOACA REOPERATIONS



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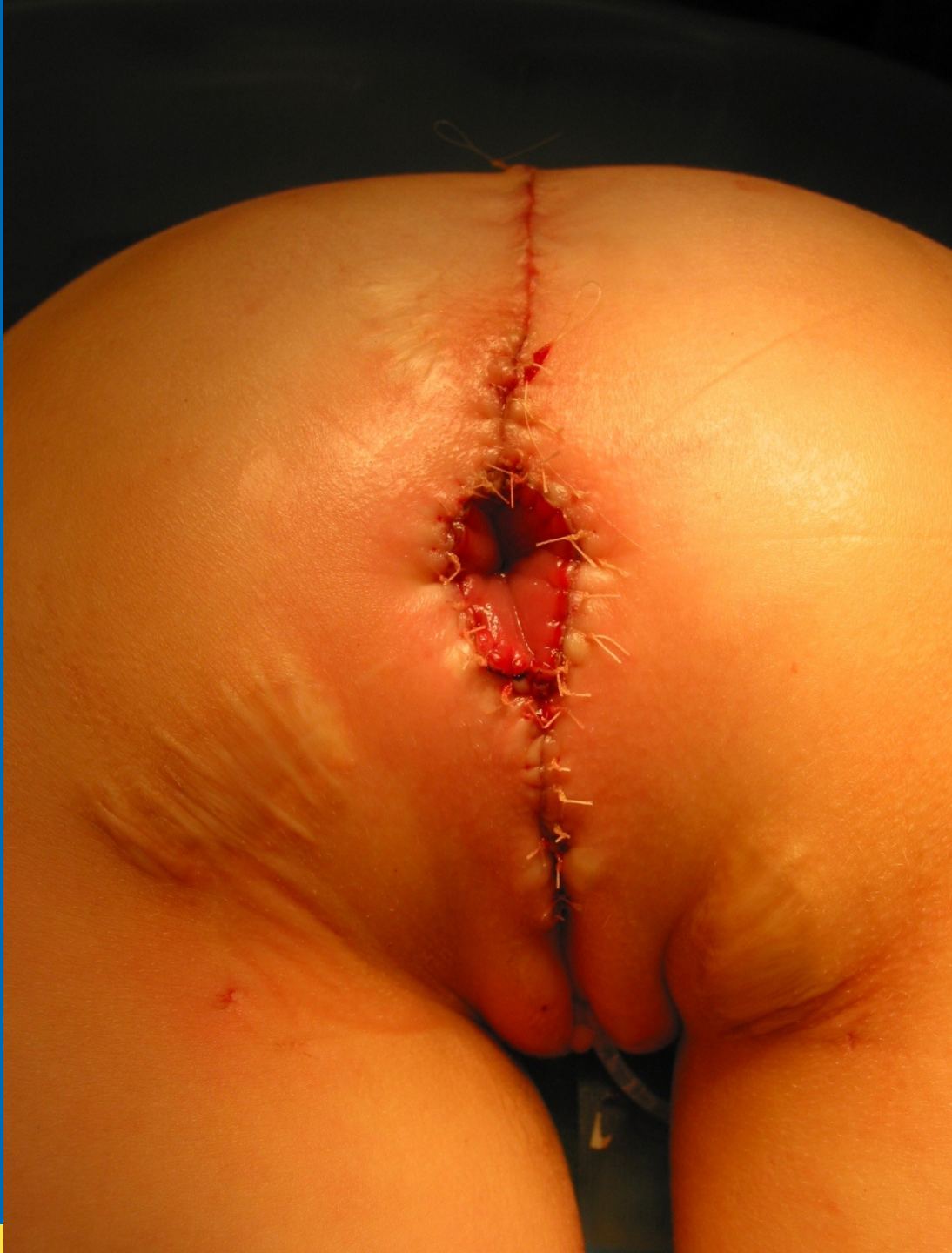
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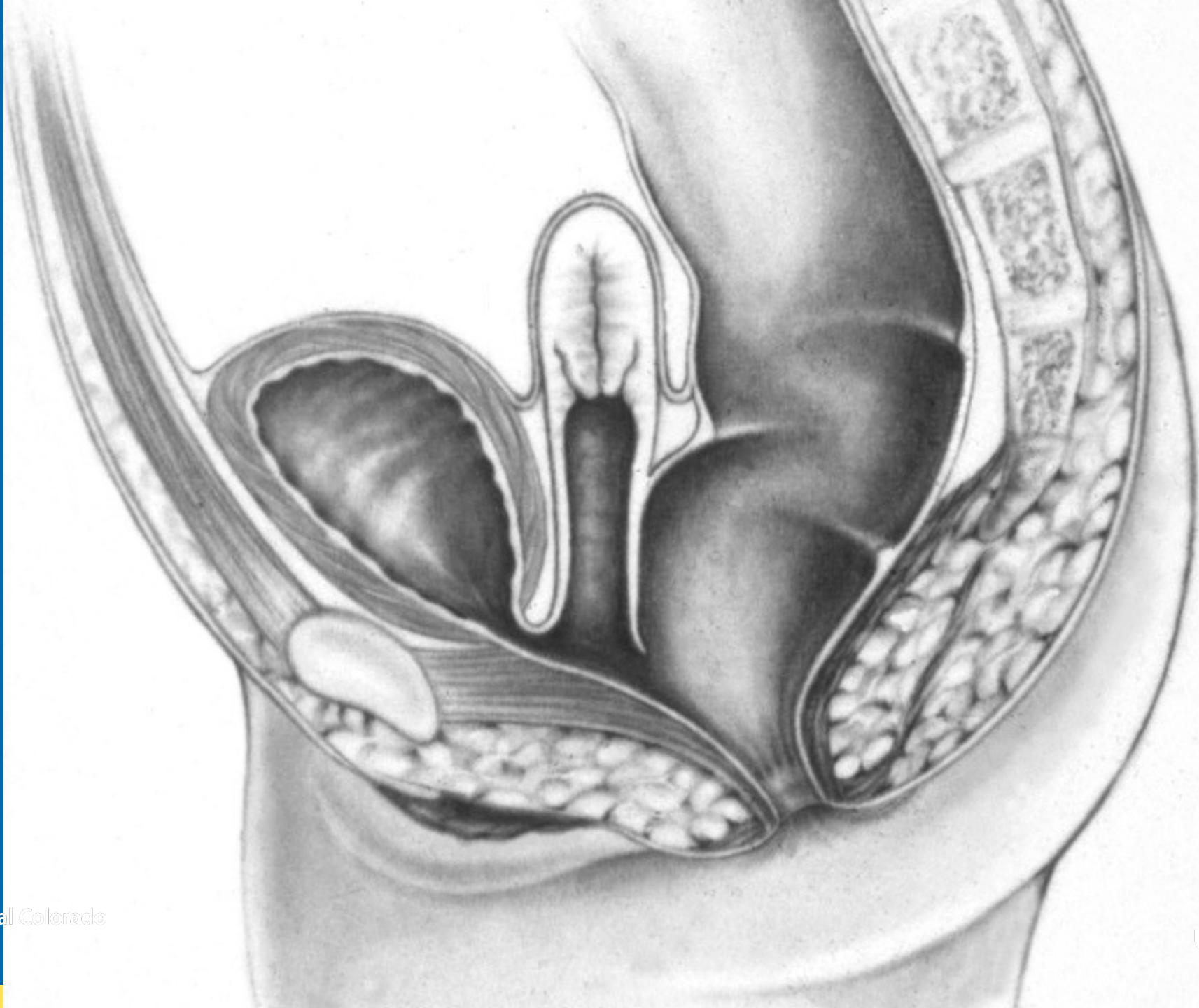
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# POSTERIOR CLOACA



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# 1753, Paris

- M. Louis described a girl with a “cloacal anus.” Menstrual discharge was eliminated through the anus.
- The presentation of this case led to legal prosecution and it was judged in the court of Paris.



# Brisbane, Australia

## November 29th, 1986



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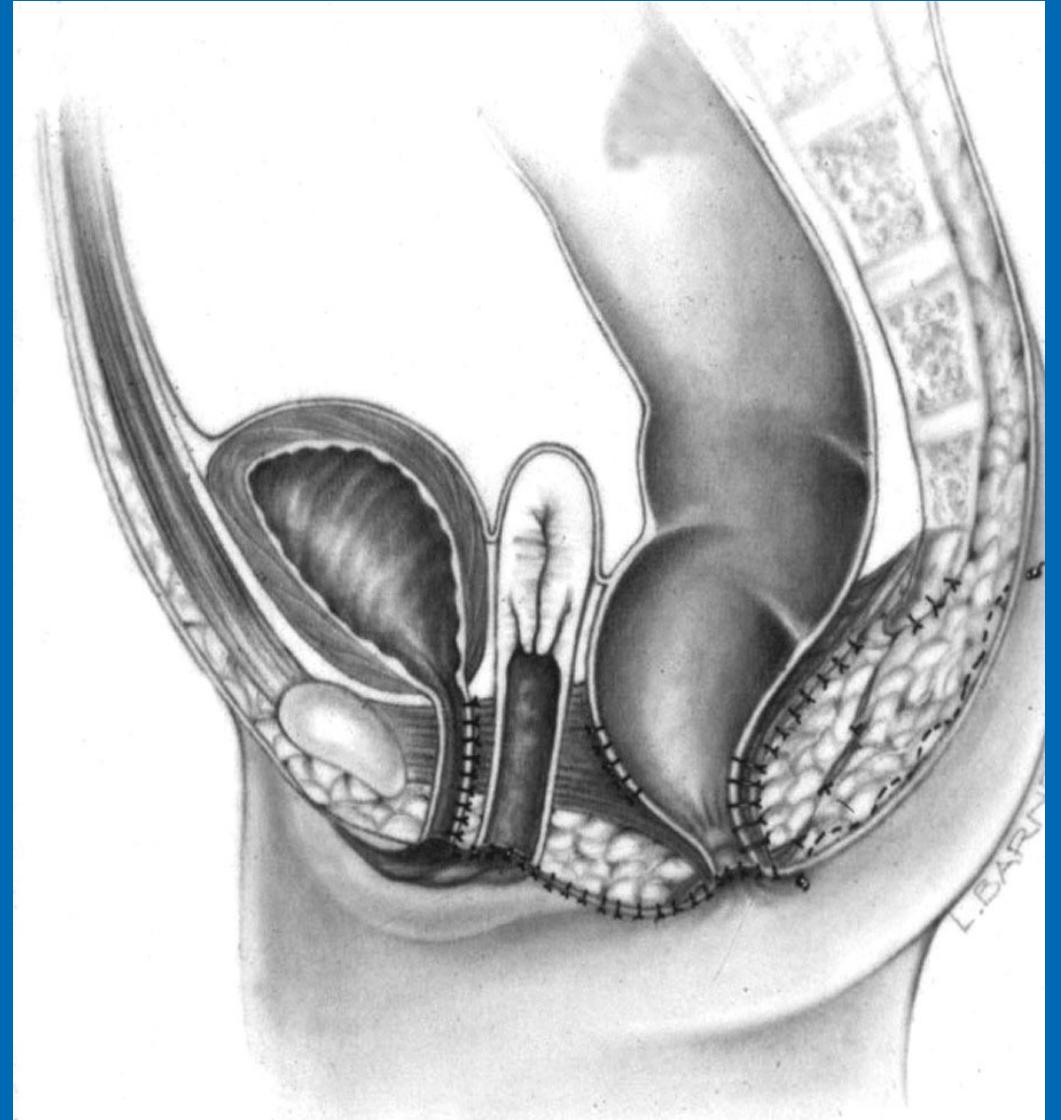
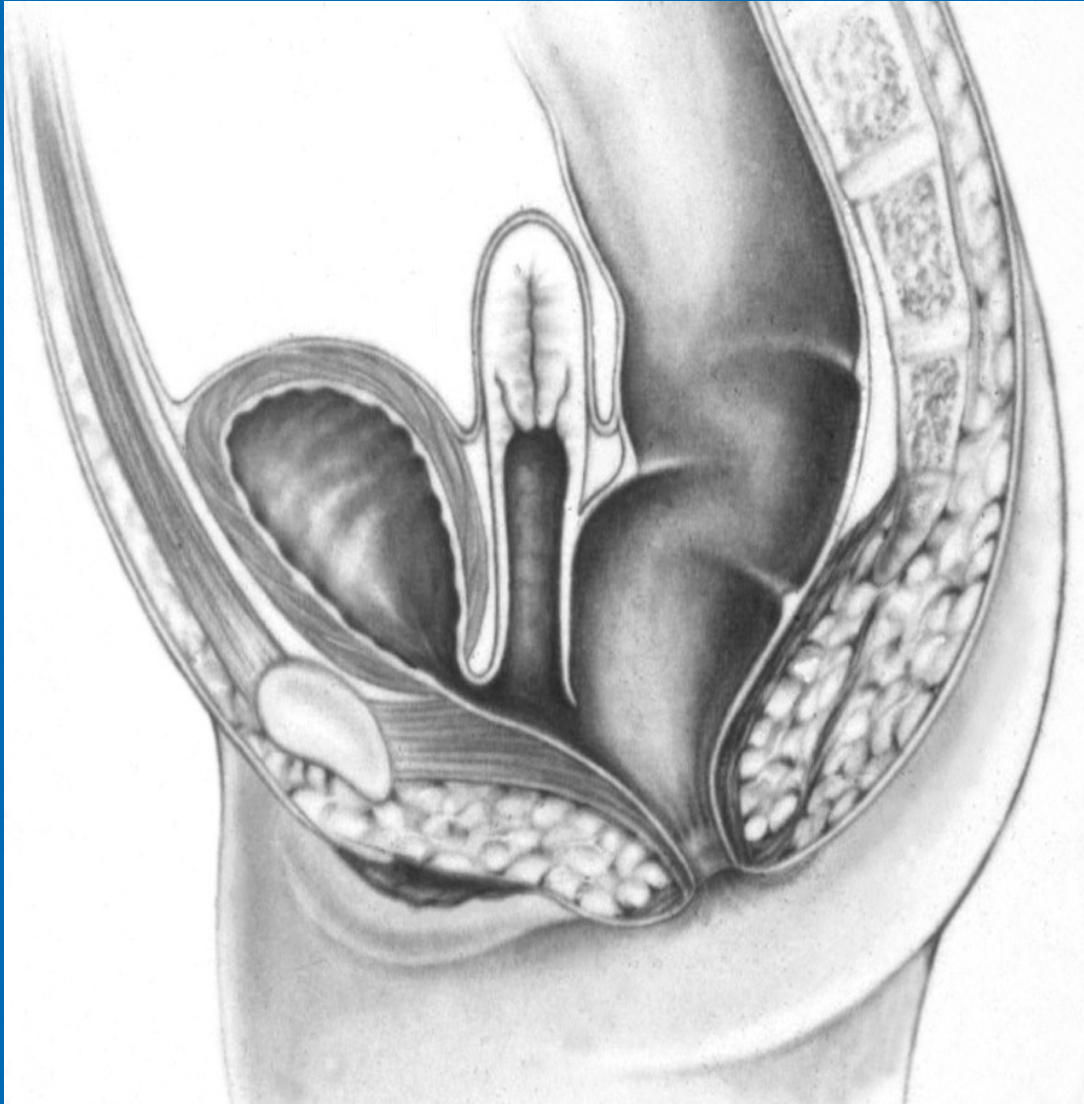
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# CLOACAL EXSTROPHY



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# Therapeutic Goals

- Urinary control (dryness)
- Bowel control (clean underwear)
- “Sexual function”

# UNIFIED MANAGEMENT



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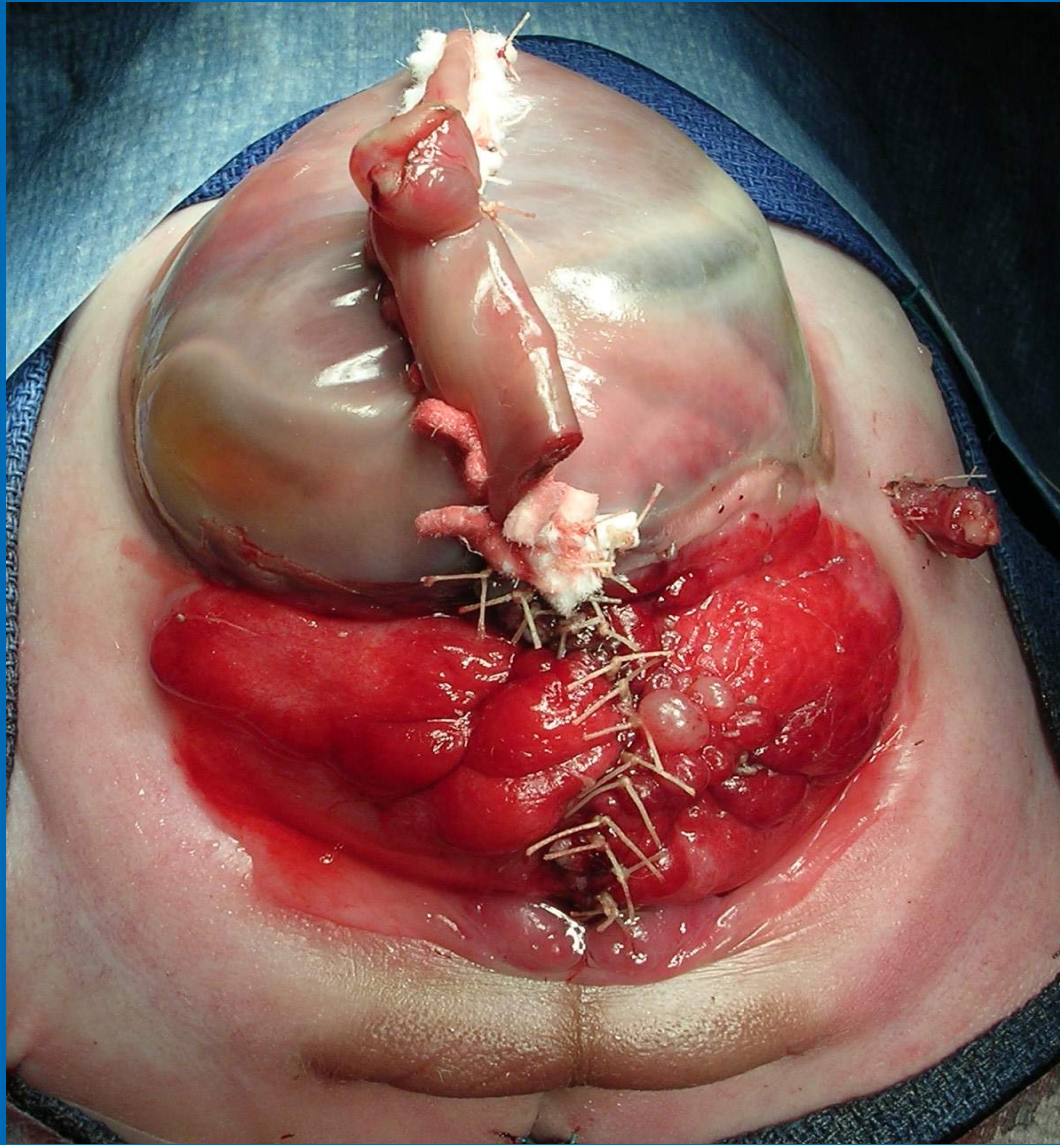
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# Accepted Neonatal Treatment

- Omphalocele repair
- Bladder closure
- Colostomy





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# Cloacal Exstrophy

It is a common belief that these patients  
have a short and / or  
useless colon.





# EXSTROPHY OF CLOACA

## Spectrum

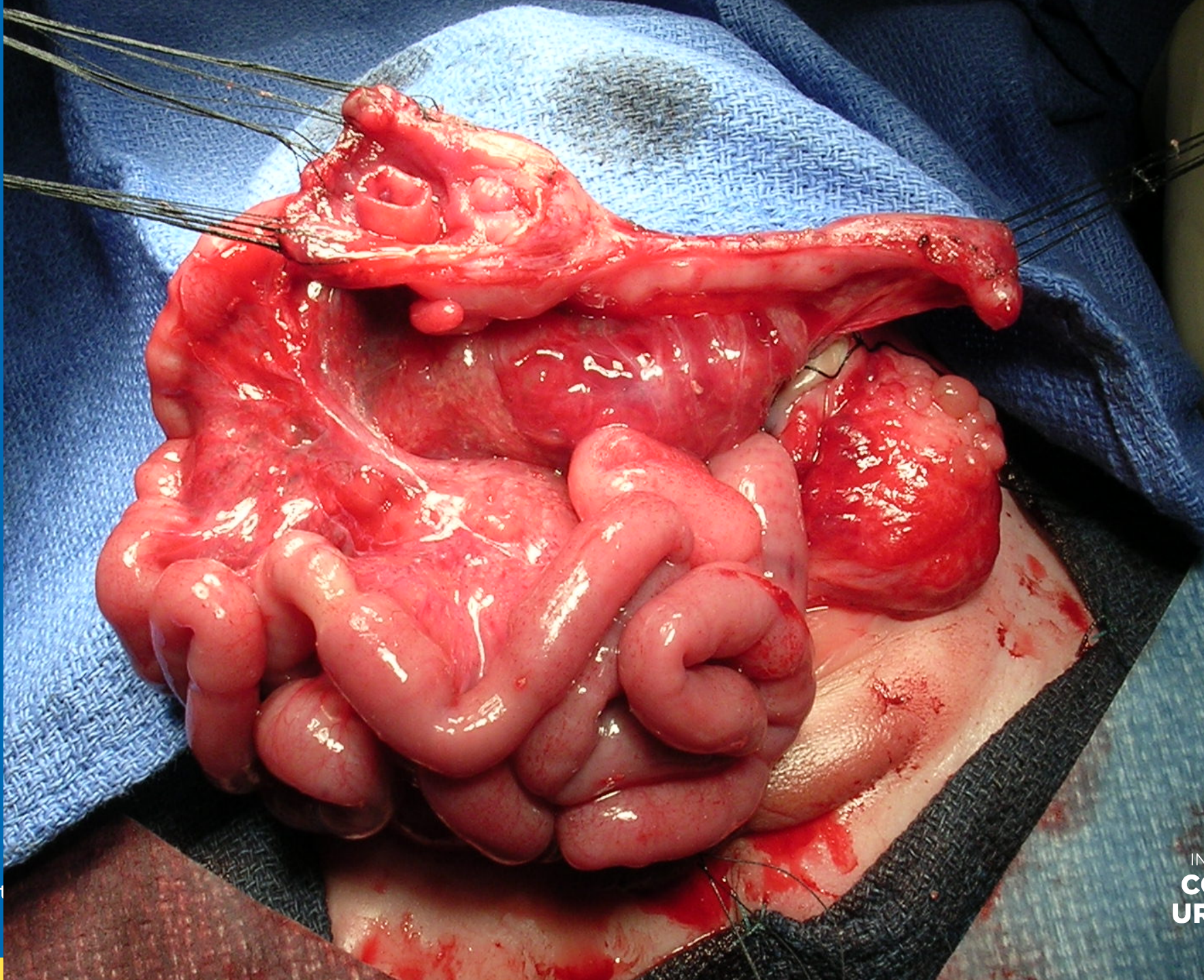


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# Separate all bowel tissue from urinary tract



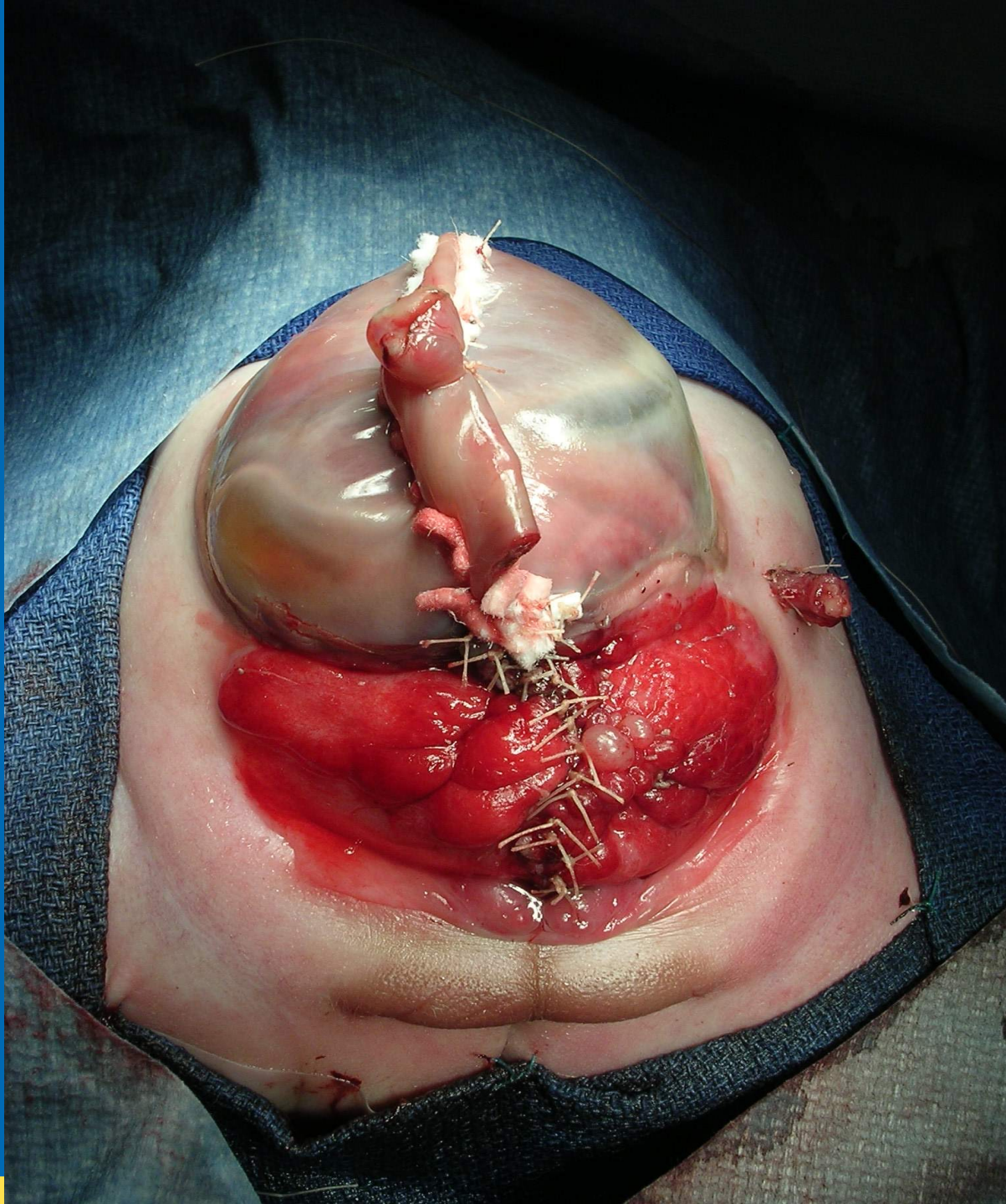
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# Unified Management Plan

- First decide:
  - Pull-through
  - Permanent stoma
- ONLY THEN, address any genitourinary reconstruction



# BOWEL MANAGEMENT THROUGH COLOSTOMY



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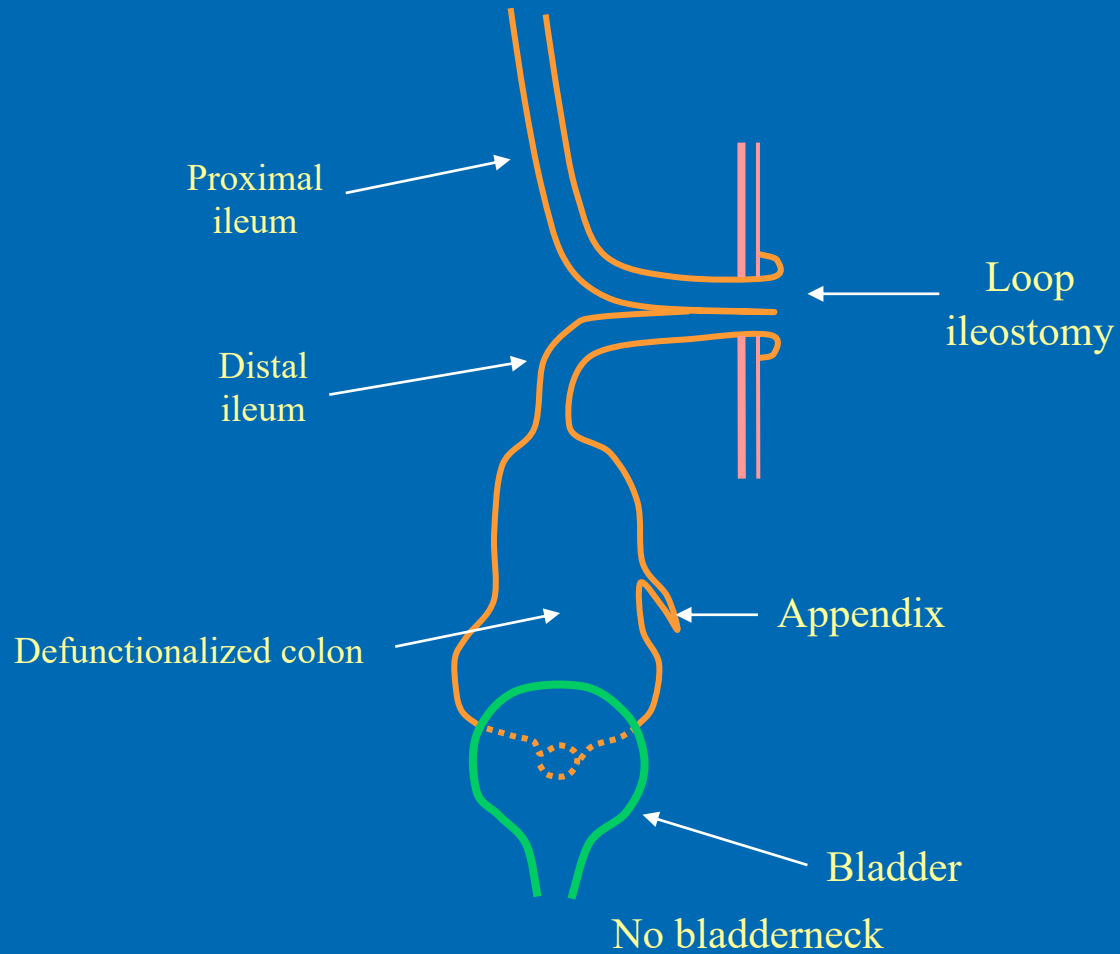
# RESCUE OPERATION



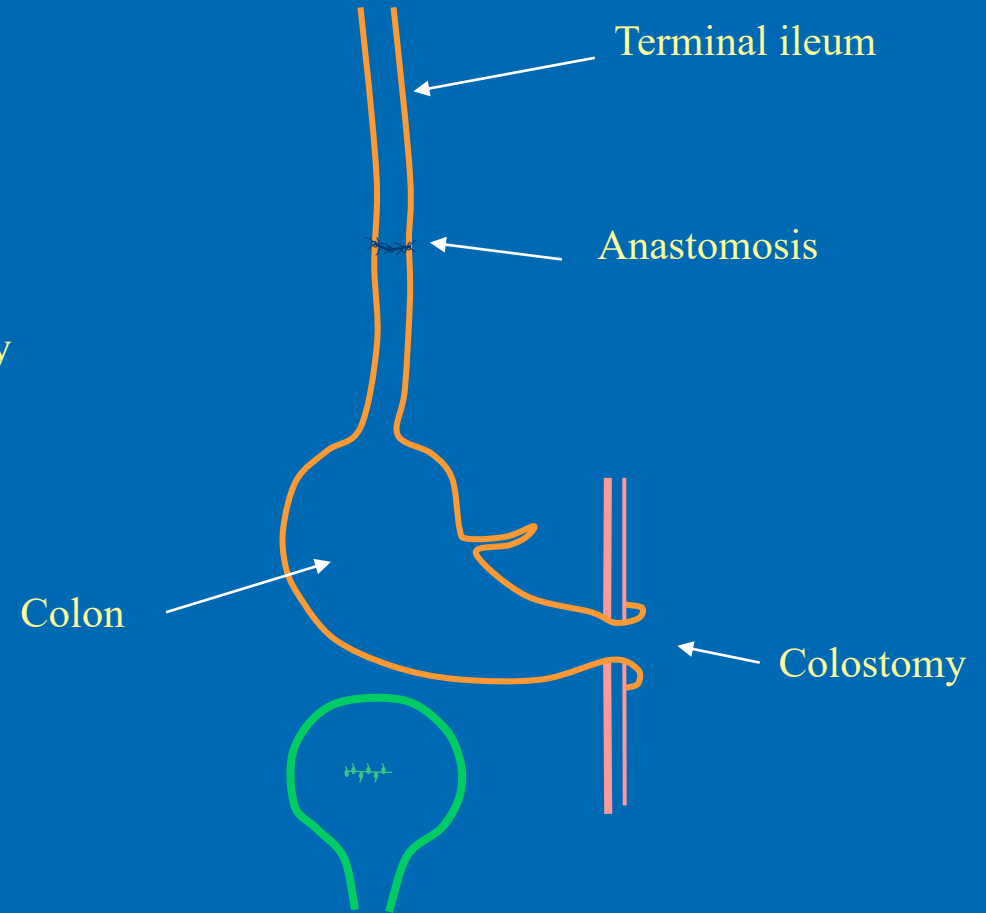
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# Pre-op



# Post-op





# Conclusion

The unified management plan allows some children with cloacal extrophy the opportunity to become a stoma-free adult who is able to remain fecally clean and dry.

[penabischoffcolped@gmail.com](mailto:penabischoffcolped@gmail.com)



Doctors Pena Bischoff



@DrsPenaBischoff



PENABISCHOFF



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