

# Painel: cirurgia robótica e a coloproctologia

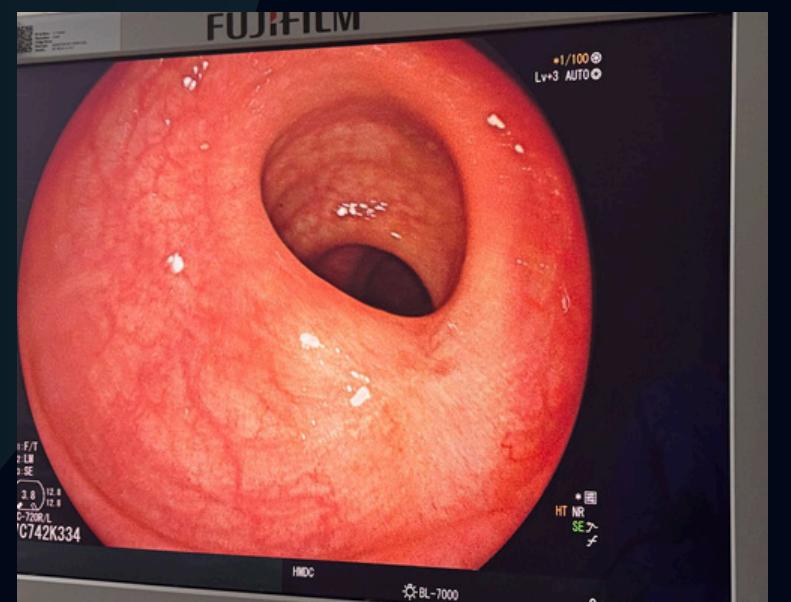
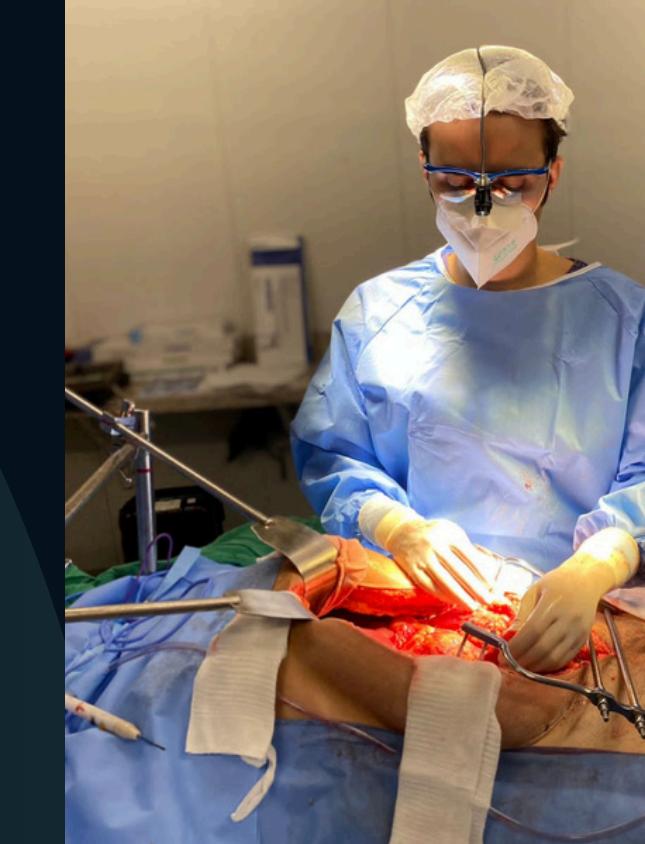
## -Panorama do Hospital Mater Dei em 2025

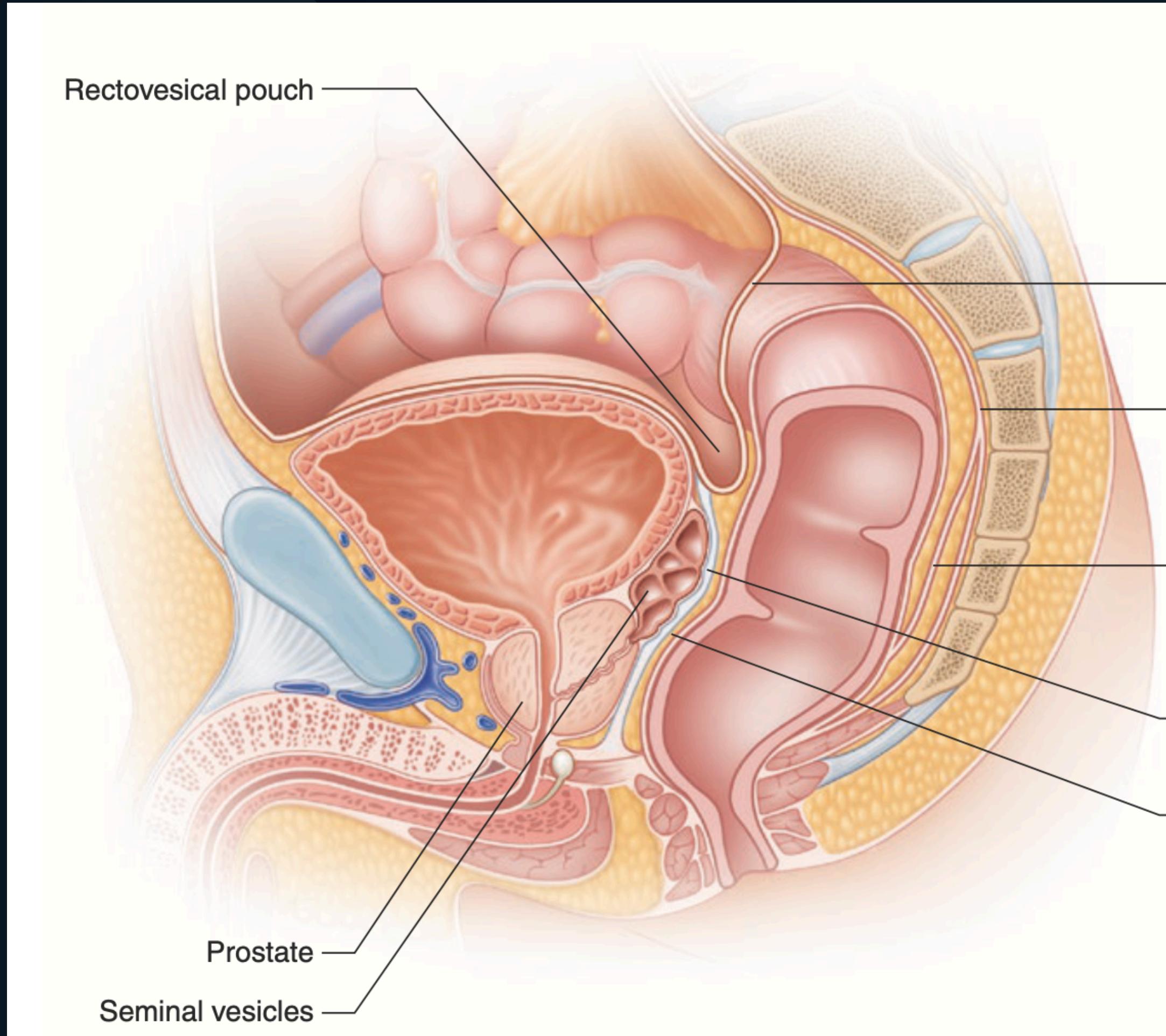


**DR. MATHEUS MEYER**  
COLOPROCTOLOGISTA DA REDE MATER DEI  
TITULAR DA SBCP  
TITULAR DA SOBRACIL  
PRECEPTOR DE COLOPROCTOLOGIA DA SANTA CASA  
SECRETÁRIO DA SMCP

**“ *Tumor tocado,  
tumor amputado.* ”**

**“ Tumor tocado,  
tumor amputado. ”**







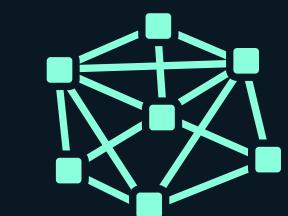
Tortuoso



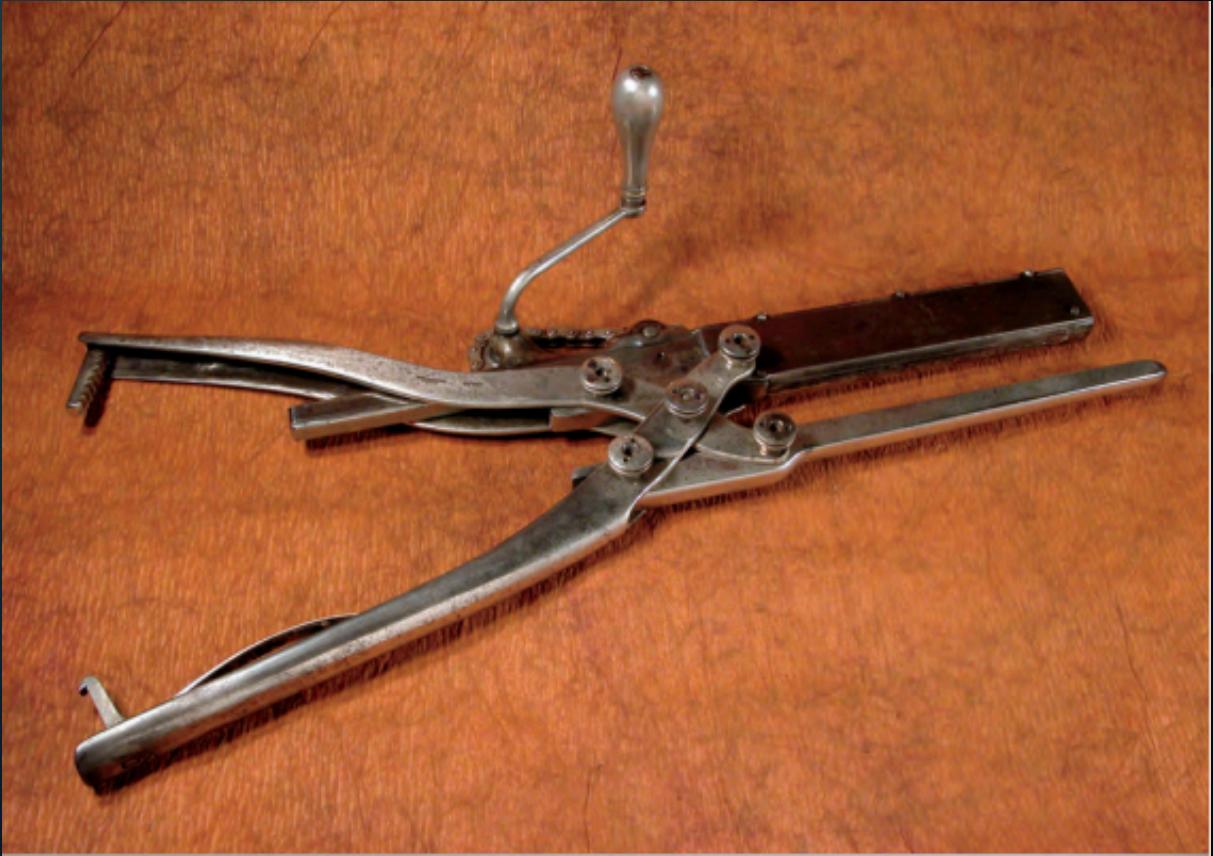
Limite de espaço



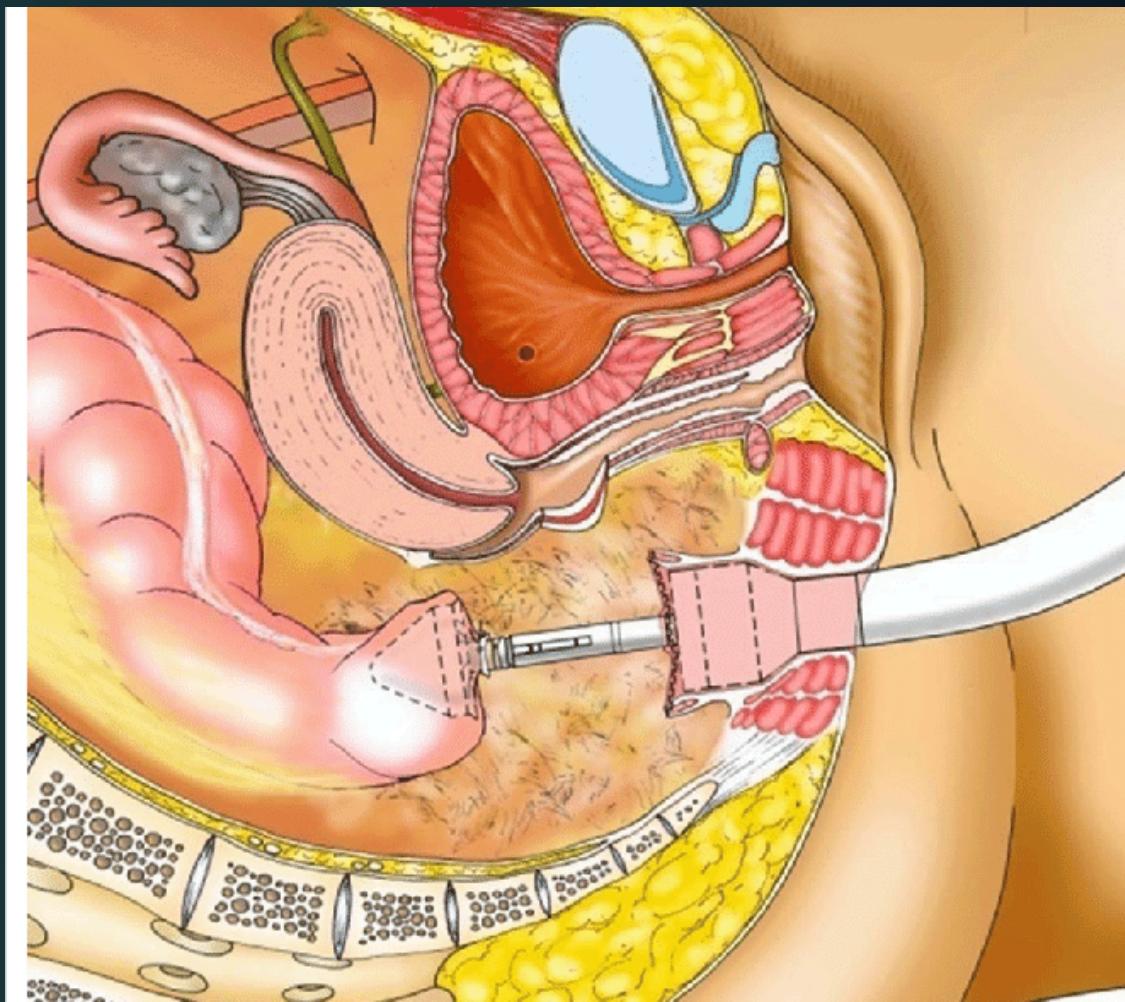
Órgãos nobres



Complexidade



1908



Hümér Hütl

Anastomose baixas  
mais factíveis

A dissecação ainda  
era desafiadora



# Laparoscopia

- Menor dor
- Menor sangramento
- Menor cicatriz
- Menor índice de hérnias
- Menor índice de aderências
- Menor índice de complicações
- Menor resposta metabólica (REMIT)
- Menor tempo de internação
- Menos íleo adinâmico
- Recuperação funcional mais rápida
- Menos desidratação per operatória
- Menor custo
- **Menor mortalidade**



Lacy 2002 NEJM; COST Study Group 2004 NEJM; COLOR Trial 2005 Lancet; CLASICC Trial 2005 Lancet / Jayne 2010 BMJ (long-term); COREAN Trial (Kang) 2010 Lancet Oncol / 2014 Ann Surg Oncol; COLOR II 2013 Lancet Oncol; Vennix 2014 Cochrane Rev; Gietelink 2016 Ann Surg; Munasinghe 2015 Surg Endosc; Song 2019 Medicine (Baltimore); Podda 2022 Br J Surg; Fahim 2021 Colorectal Dis; Antoniou 2015 Surg Endosc; Mamidanna 2012 Arch Surg; Panis 2011 Ann Surg; Masoomi 2012 J Am Coll Surg; Petersson 2023 Sci Rep; Manfredi 2017 Int J Colorectal Dis; Mamidanna 2016 Colorectal Dis.

# Qual desafio restou?



**22-42%**  
**conversão**

## Pacientes obesos

> *Support Care Cancer*. 2022 Mar;30(3):2151-2161. doi: 10.1007/s00520-021-06626-7.  
Epub 2021 Oct 23.

**The impact of obesity on postoperative outcomes in colorectal cancer patients: a retrospective database study**

Ko-Chao Lee <sup>1</sup>, Kuan-Chih Chung <sup>2</sup>, Hong-Hwa Chen <sup>1</sup>, Kung-Chuan Cheng <sup>1</sup>, Kuen-Lin Wu <sup>1</sup>,  
Ling-Chiao Song <sup>3</sup>



**15%**

## Índice de conversão ADERÊNCIAS

> *Ann Surg*. 2012 Sep;256(3):462-8. doi: 10.1097/SLA.0b013e3182657ec5.

**Laparoscopic colon resection trends in utilization and rate of conversion to open procedure: a national database review of academic medical centers**

Anton Simorov <sup>1</sup>, Abhijit Shaligram, Valerie Shostrom, Eugene Boilesen, Jon Thompson,  
Dmitry Oleynikov



## Lesões baixas RESSECÇÕES INCOMPLETAS E RECIDIVAS MAIORES

Comparative Study > *Ann Surg*. 2018 Aug;268(2):318-324.  
doi: 10.1097/SLA.0000000000002329.

**Open versus Laparoscopic Surgery for Advanced Low Rectal Cancer: A Large, Multicenter, Propensity Score Matched Cohort Study in Japan**

Koya Hida <sup>1</sup>, Ryosuke Okamura <sup>1</sup>, Yoshiharu Sakai <sup>1</sup>, Tsuyoshi Konishi <sup>2</sup>, Tomonori Akagi <sup>3</sup>,  
Tomohiro Yamaguchi <sup>4</sup>, Takashi Akiyoshi <sup>2</sup>, Meiki Fukuda <sup>5</sup>, Seiichiro Yamamoto <sup>6</sup>,  
Michio Yamamoto <sup>7</sup>, Tatsuto Nishigori <sup>1</sup>, Kenji Kawada <sup>1</sup>, Suguru Hasegawa <sup>8</sup>, Satoshi Morita <sup>7</sup>,  
Masahiko Watanabe <sup>9</sup>; Japan Society of Laparoscopic Colorectal Surgery

# Pesadelo da laparoscopia, mas na robótica torna-se factível



Arquivo pessoal

# Será que o robô ainda pode agregar?

- MENOR TAXA DE CONVERSÃO
- MENOS COMPLICAÇÕES
- MENOS ÍLEO ADINÂMICO
- MENOS SANGRAMENTO
- RECUPERAÇÃO MAIS RÁPIDA
- MELHOR FUNÇÃO URINÁRIA , SEXUAL E EVACUATÓRIA PRECOCE
- MARGENS CIRÚRGICAS MELHORES
- MAIOR NÚMERO DE LINFONODOS
- MELHOR DFS E MENOR LR PARA RETO MÉDIO E BAIXO



Robotic surgery is associated with a decreased risk of circumferential resection margin positivity compared with conventional laparoscopic surgery in patients with rectal cancer undergoing mesorectal excision: A systematic review and meta-analysis

Mitsuru Ishizuka · Norisuke Shibuya · Hiroyuki Hachiya · ... · Takatoshi Nakamura · Taku Aoki · Tsunekazu Mizushima ... Show more

Systematic Review 8 28 January 2023

## Outcomes of Robot-Assisted Surgery in Rectal Cancer Compared with Open and Laparoscopic Surgery

Elias Khajeh<sup>1,2</sup>, Ehsan Aminizadeh<sup>1</sup>, Arash Dooghaie Moghadam<sup>1</sup>, Rajan Nikbakht<sup>1</sup>, Gil Goncalves<sup>2</sup>, Carlos Carvalho<sup>3</sup>, Amjad Parvaiz<sup>2</sup>, Yakup Kulu<sup>1</sup> and Arianeb Mehrabi<sup>1\*</sup>

## Robotic versus laparoscopic right hemicolectomy with complete mesocolic excision using a cranial approach: a propensity score-matched retrospective cohort study

Original Article | Open access | Published: 16 October 2025

Volume 29, article number 181, (2025) [Cite this article](#)

► *Surg Endosc.* 2021 Aug;36(5):3574–3584. doi: [10.1007/s00464-021-08681-x](https://doi.org/10.1007/s00464-021-08681-x)

## Lower conversion rate with robotic assisted rectal resections compared with conventional laparoscopy; a national cohort study

Elisabeth Myrseth<sup>1,2,\*</sup>, Linn Såve Nymo<sup>1,2</sup>, Petter Fosse Gjessing<sup>1,2</sup>, Hartwig Kørner<sup>3,4</sup>, Jan Terje Kvaløy<sup>5,6</sup>, Stig Norderval<sup>1,2</sup>

## Original Investigation

## Robotic vs Laparoscopic Surgery for Middle and Low Rectal Cancer The REAL Randomized Clinical Trial

Qingyang Feng, MD<sup>1,2</sup>; Weitang Yuan, MD<sup>3</sup>; Taiyuan Li, PhD<sup>4</sup>; et al

» Author Affiliations | Article Information

## TAXAS DE CONVERSÃO

2–5%

## RECORRÊNCIA LOCAL EM RETO BAIXO

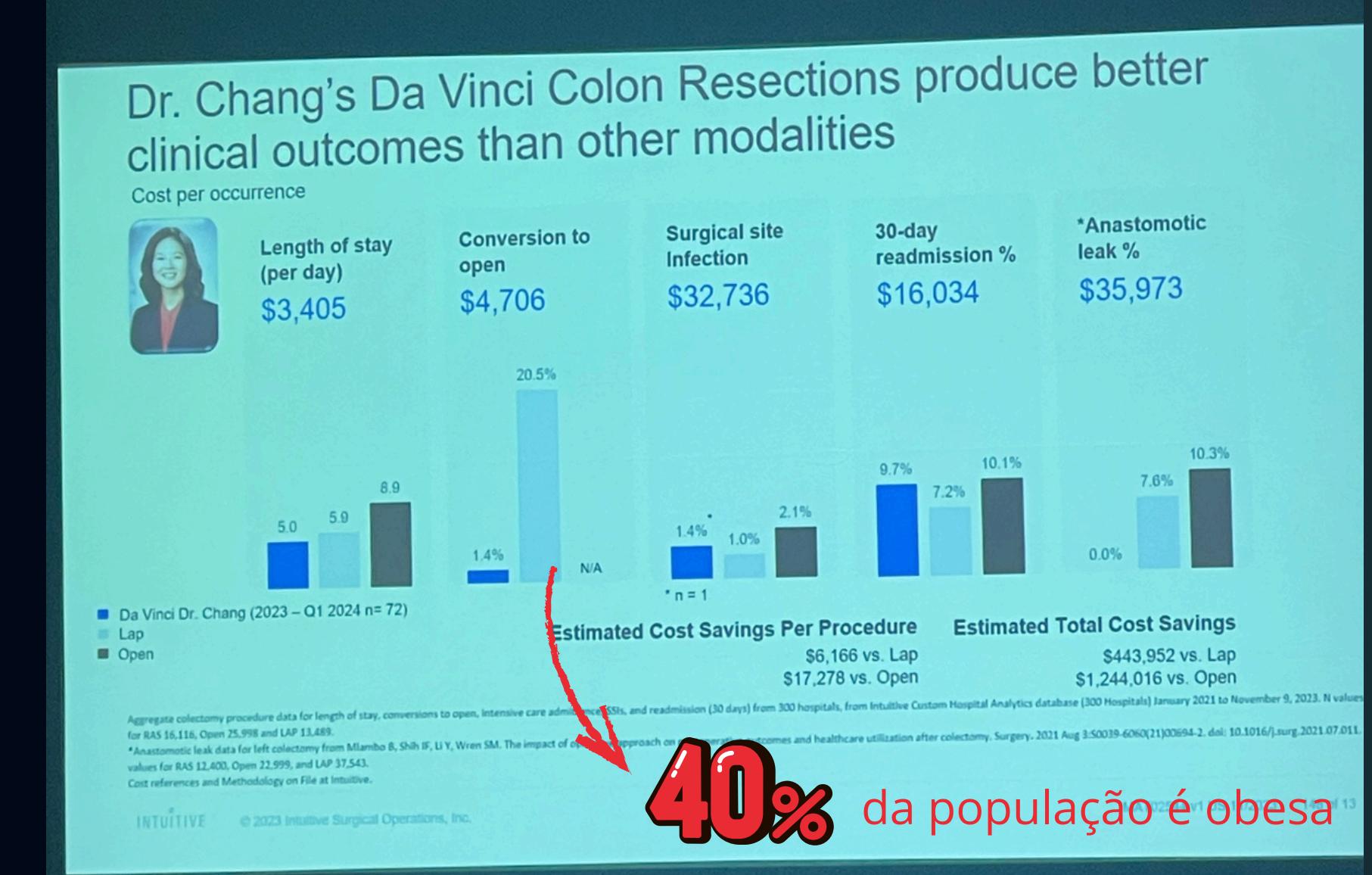
1,6% X 4%

# CUSTO



## CONSIDERANDO

- CONVERSÃO
- READMISSÃO
- FÍSTULA



**ESTAMOS SABENDO  
AVALIAR DE FORMA  
GLOBAL O "CUSTO"**

ROBÓTICA X VÍDEO

**-\$ 6.166**

ROBÓTICA X ABERTA

**-\$17.278**

# Marcos históricos

- 1991: Primeira série de casos colorretais laparoscópicos
- 1991: Primeira cirurgia colorretal por vídeo no Brasil
- 2001: Primeira colectomia robótica descrita no mundo
- 2008: Primeira colectomia robótica do Brasil
- 2017: Primeira cirurgia robótica da rede Mater Dei



> Surg Laparosc Endosc. 1991 Sep;1(3):144-50.

Minimally invasive colon resection (laparoscopic colectomy)

M Jacobs<sup>1</sup>, J C Verdeja, H S Goldstein

Laparoscopic Colorectal Surgery. Outcomes after 401 Cases

Francisco Sérgio P. Regadas, Sthela M.M. Regadas, Lusmar V. Rodrigues, Doryane Lima, Flávio R. Silva, Francisco Sergio P. Regadas Filho

> Ann Surg Oncol. 2010 Nov;17(11):2856-62. doi: 10.1245/s10434-010-1175-0. Epub 2010 Jun 22. > Stud Health Technol Inform. 2020 Jun 26;272:123-126. doi: 10.3233/SHTI200509.

Robotic right colon resection: evaluation of first 50 consecutive cases for malignant disease

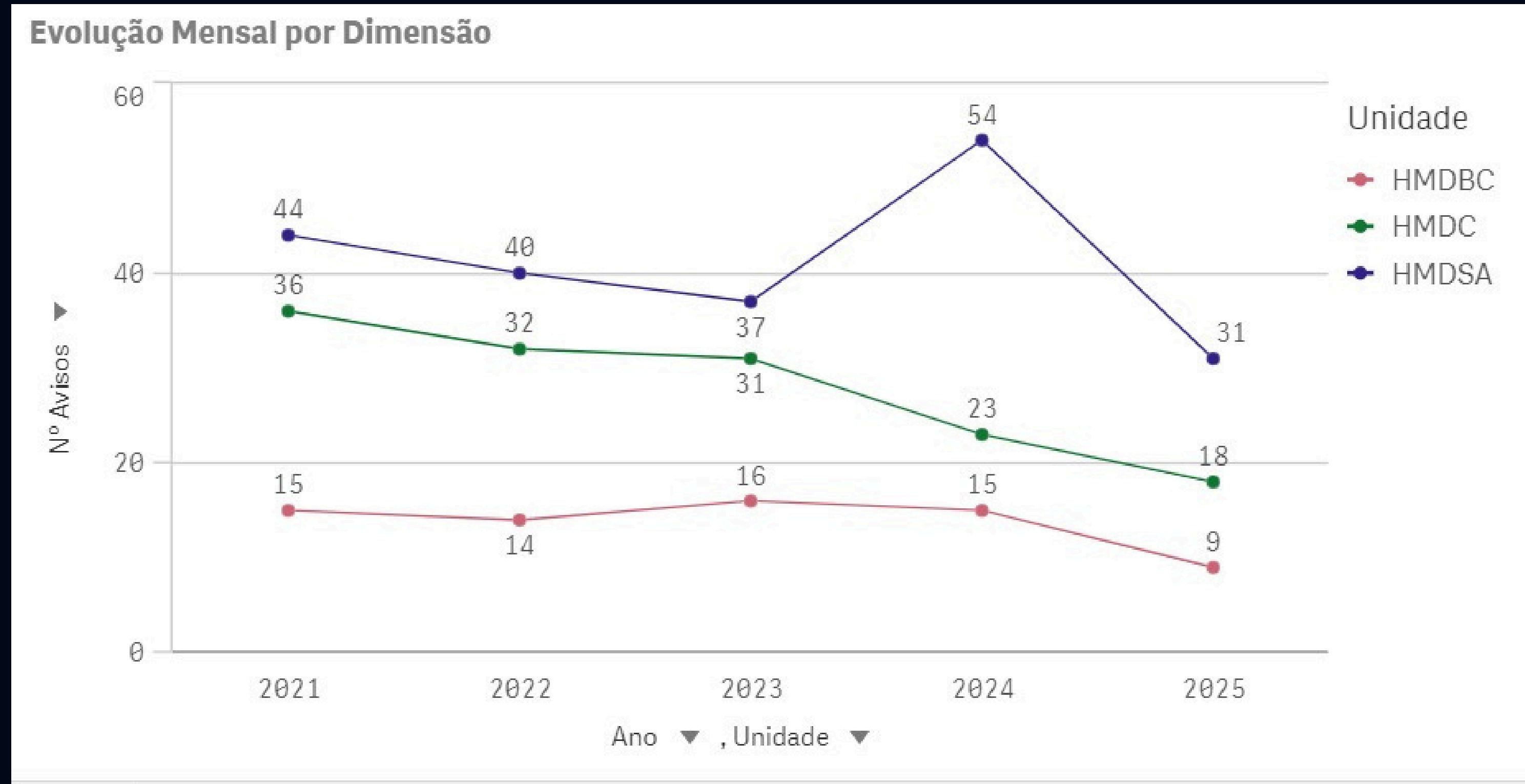
Annibale D'Annibale<sup>1</sup>, Graziano Pernazza, Emilio Morpurgo, Igor Monsellato, Vito Pende, Giorgio Lucandri, Barbara Termini, Camillo Orsini, Gianna Sovrigno

Affiliations... Expand

Innovation in Cancer Treatment: The Impacts of Robotic-Assisted Surgery Adoption at the Brazilian National Cancer Institute

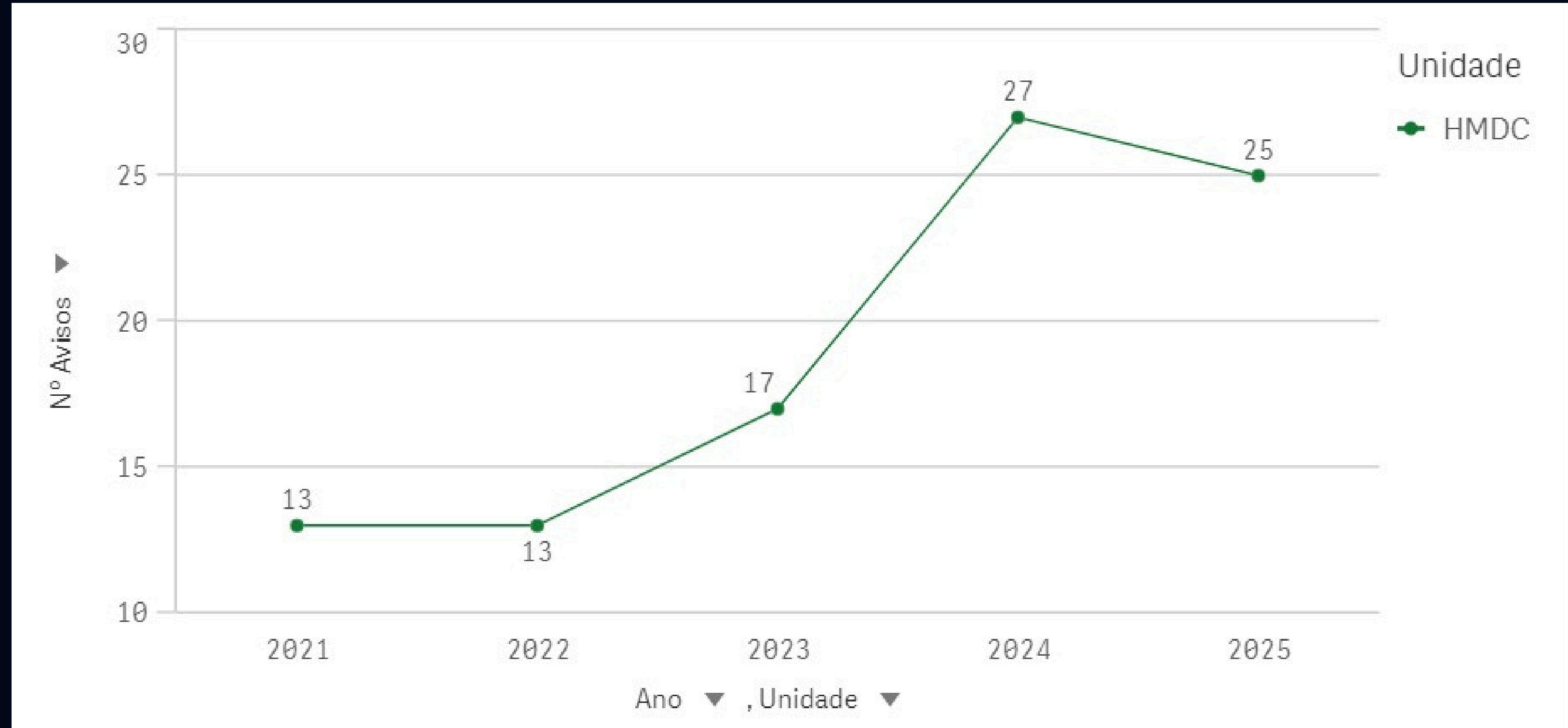
Antônio Augusto Gonçalves<sup>1,2</sup>, Sandro Luís Freire De Castro Silva<sup>1</sup>, Claudio Pitassi<sup>3</sup>, Marcus Brauer<sup>2,4</sup>, Sandra Gois<sup>2</sup>, Saulo Barbara de Oliveira<sup>5</sup>

# CIRURGIAS DE ABAIXAMENTO VÍDEO E ABERTA



DADOS DA REDE MATER DEI

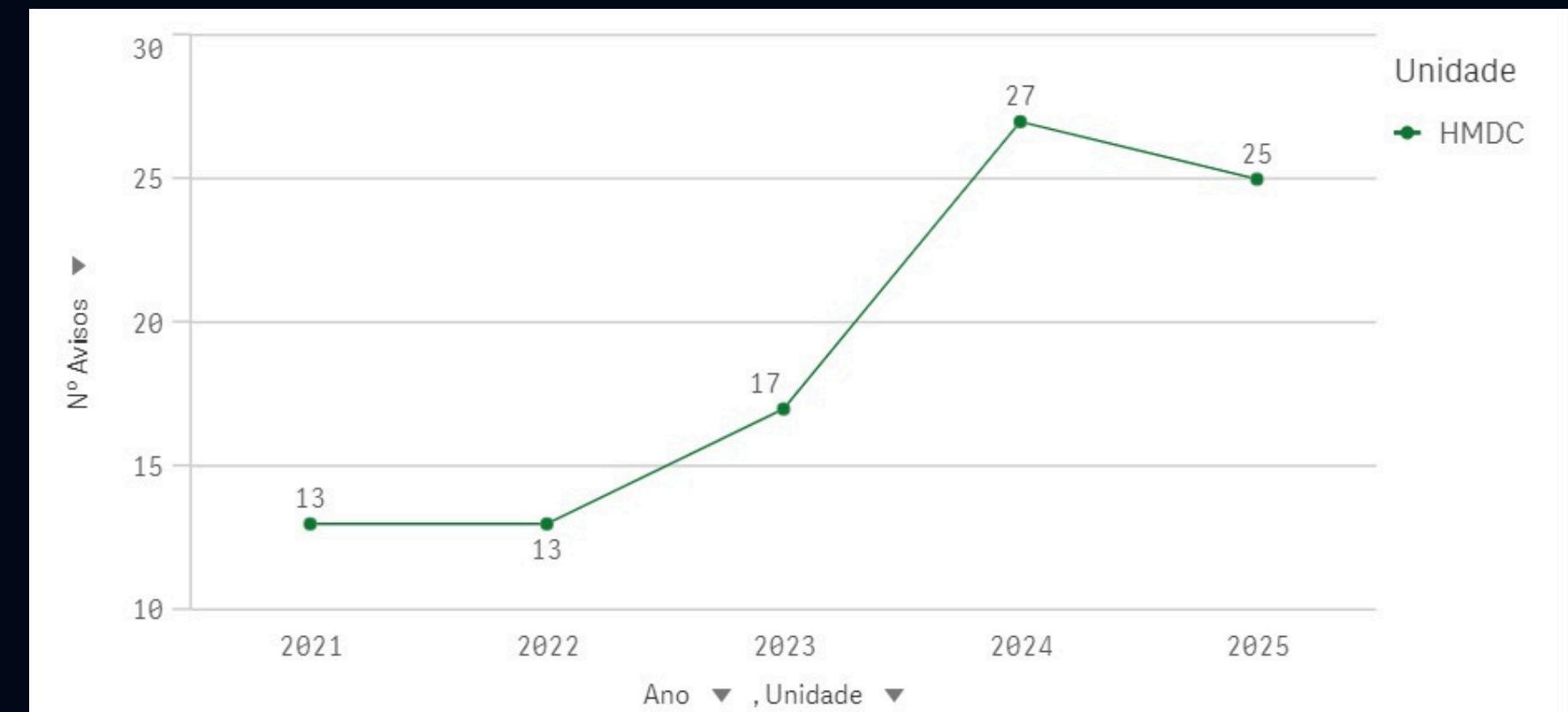
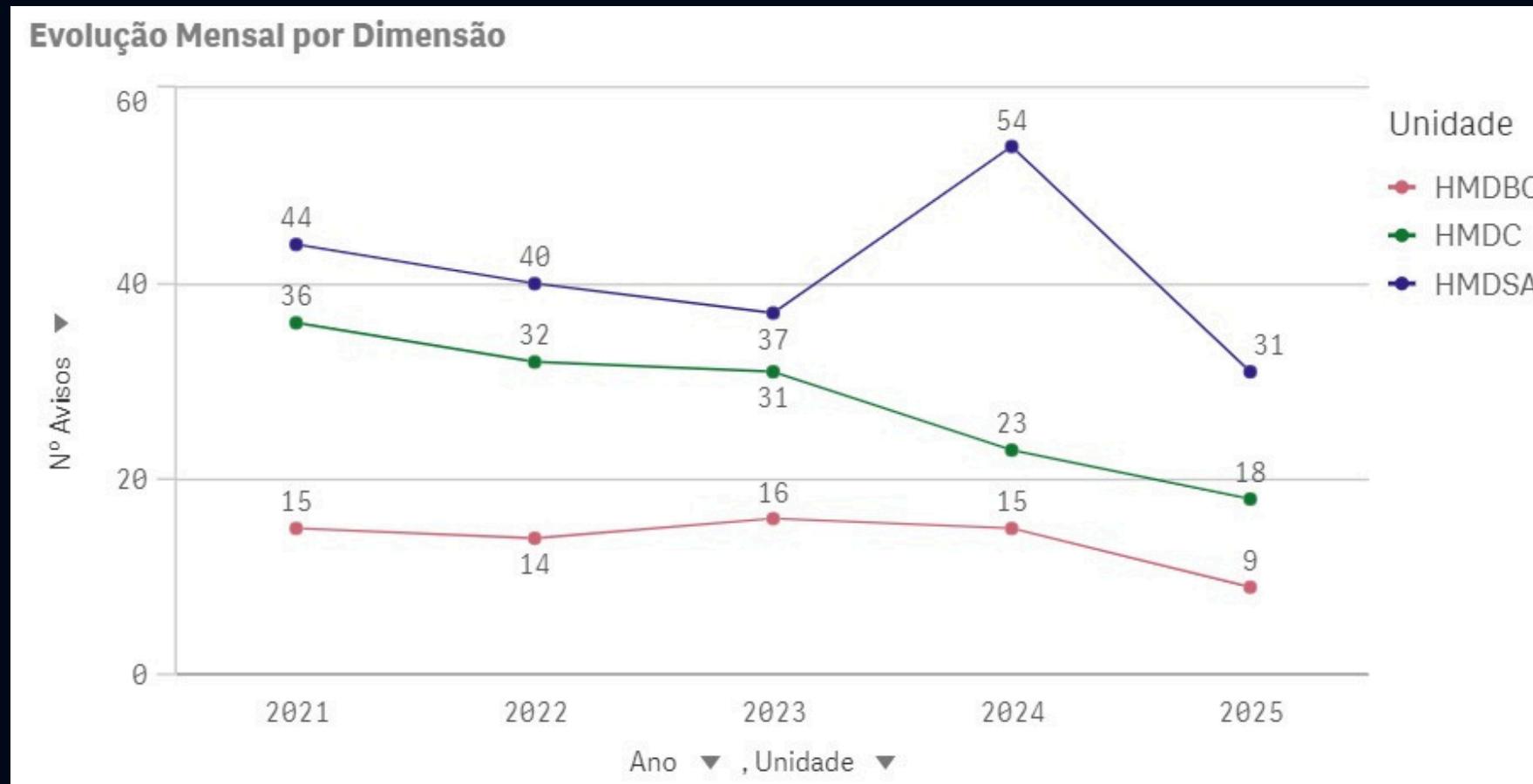
# CIRURGIAS DE ABAIXAMENTO ROBÓTICAS



DADOS DA REDE MATER DEI

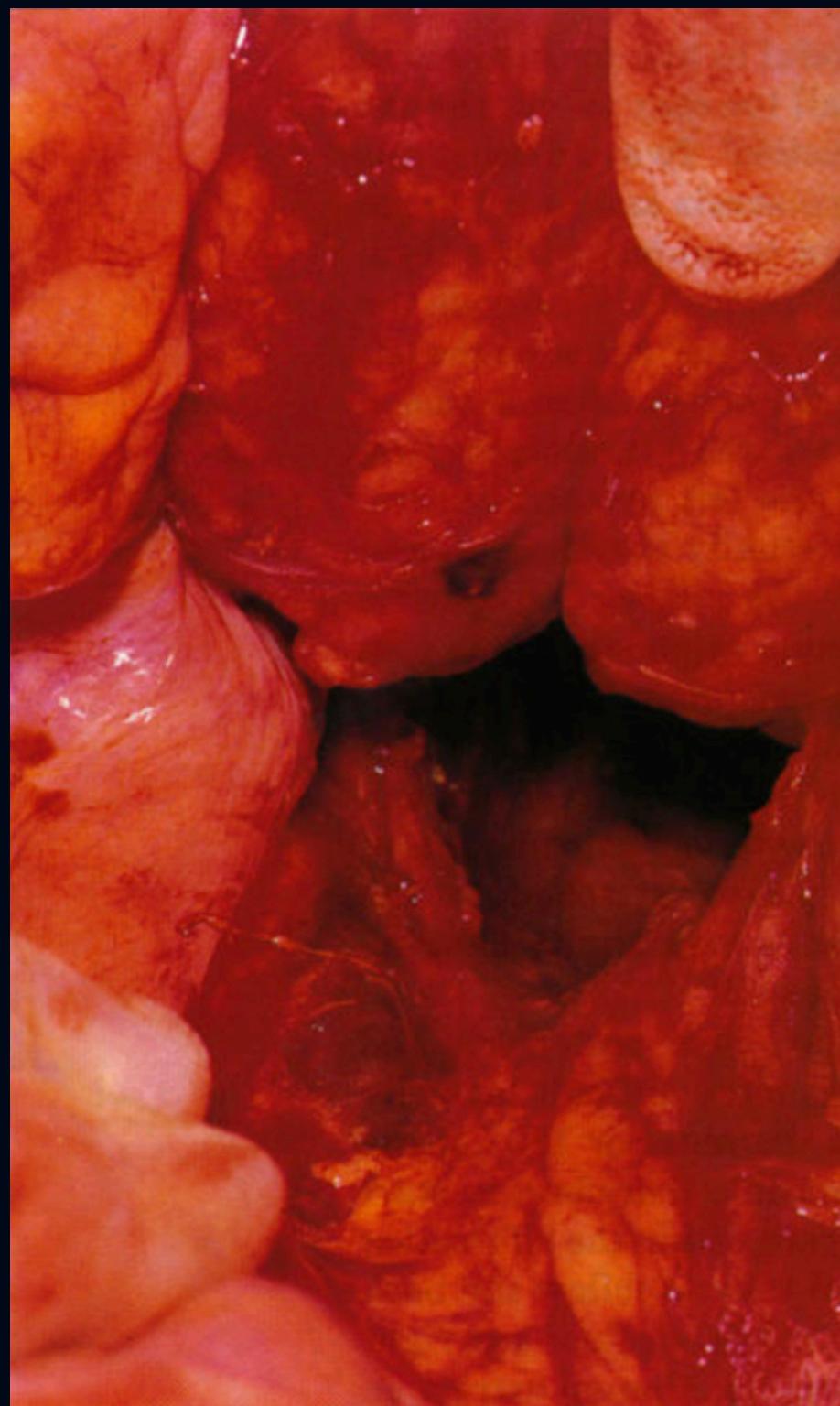
# CIRURGIAS DE ABAIXAMENTO

VÍDEO+ABERTA



ROBÓTICAS

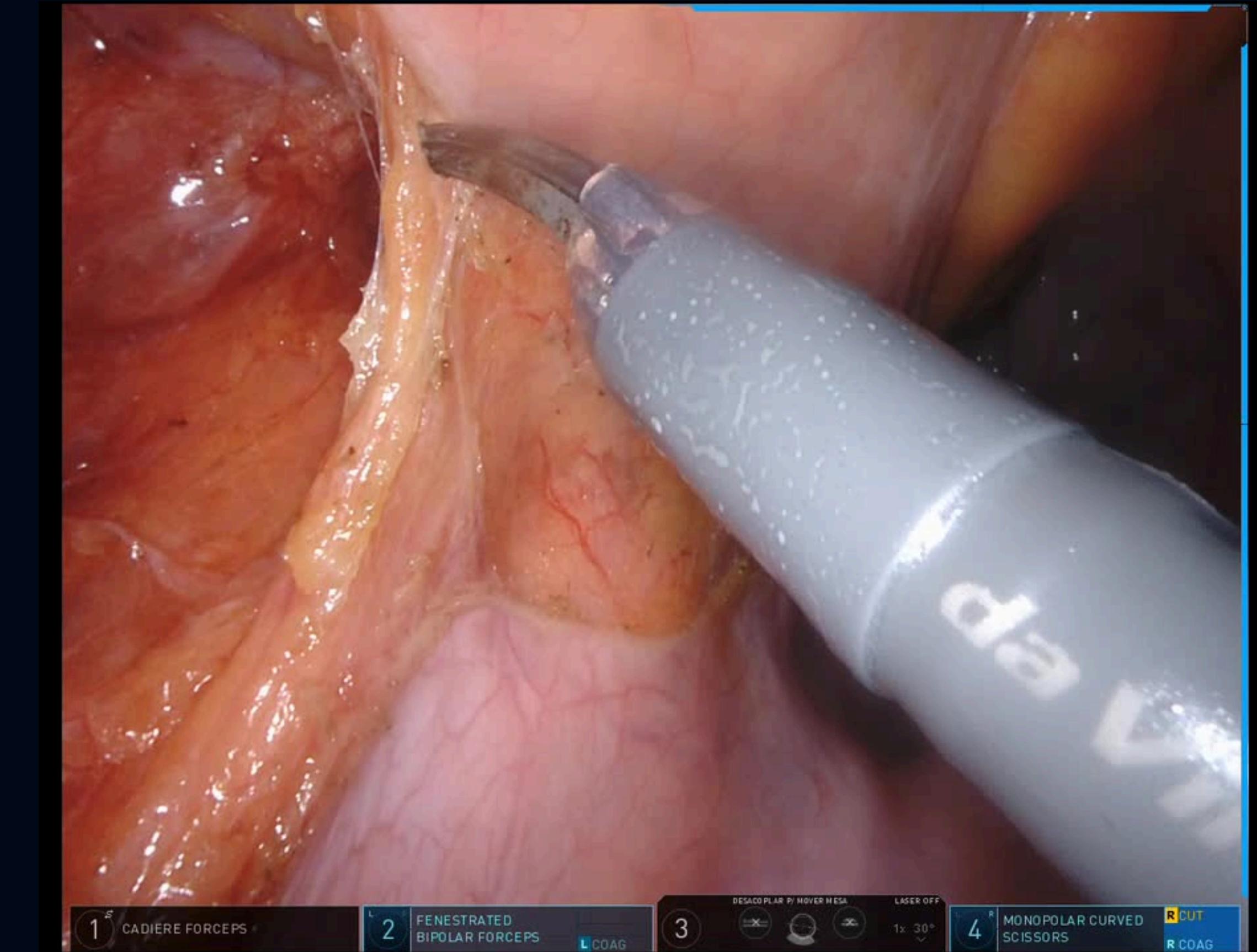
DADOS DA REDE MATER DEI



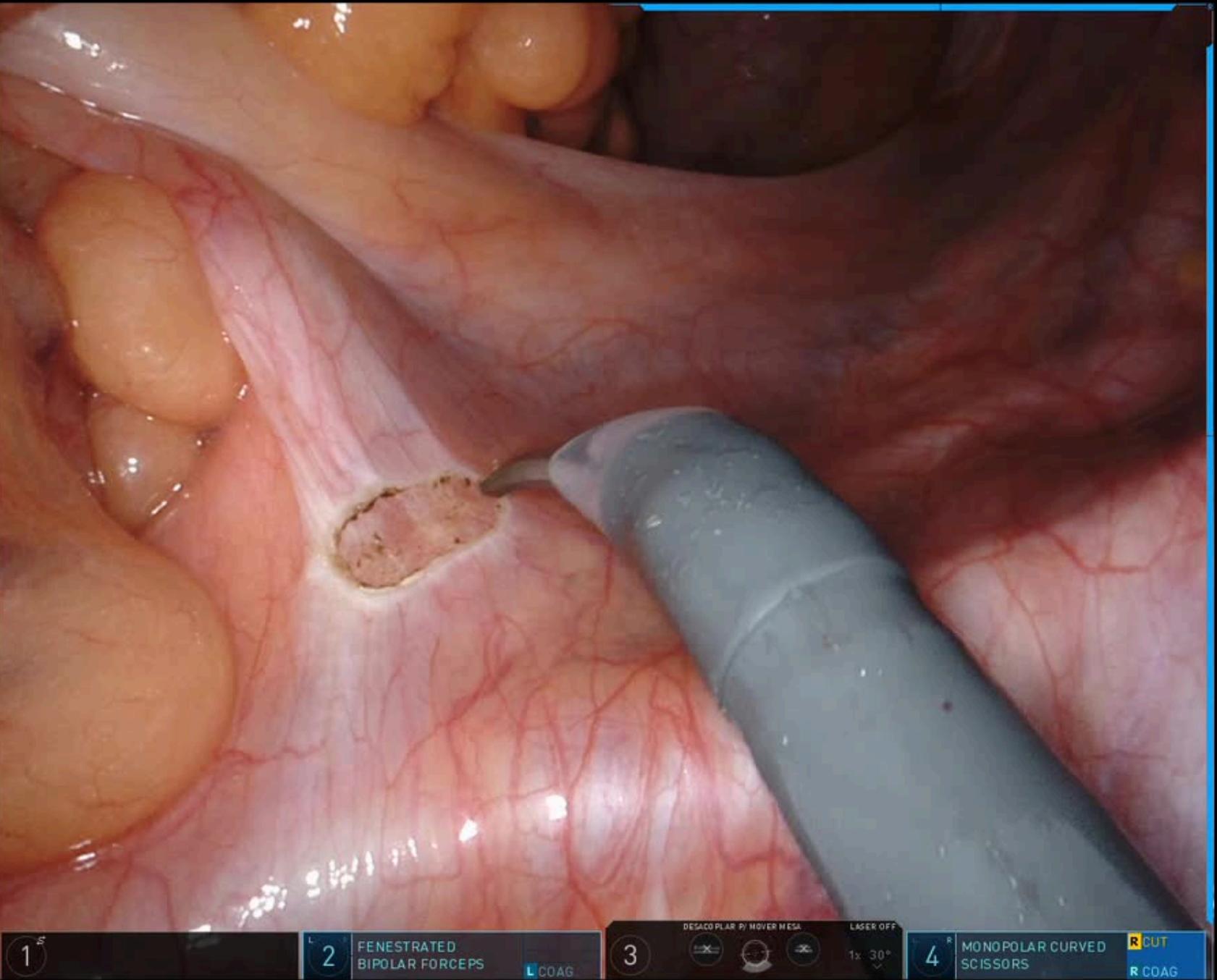
[J R Soc Med.](#) 1988 Sep; 81(9): 503–508.

The 'Holy Plane' of rectal surgery.

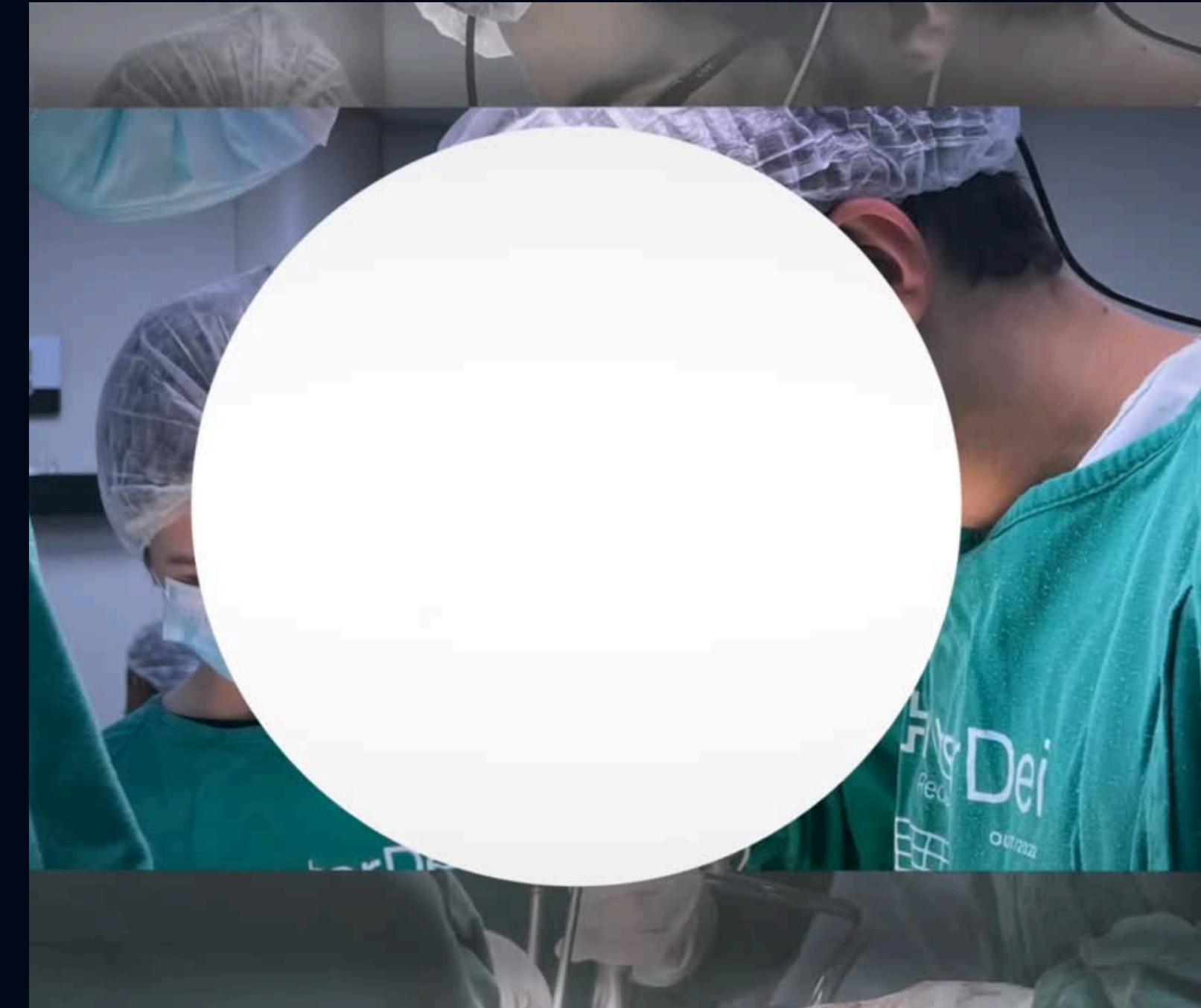
R J Heald



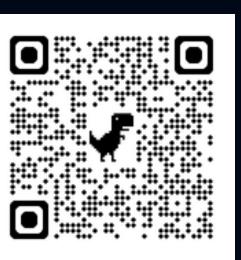
Arquivo pessoal



Arquivo pessoal



Arquivo pessoal





# Perspectivas



- Menos conversão (28% x 7%)
- Menos Fístula (4,4% x 0,8%)
- Menos CTI (20% x 10%)
- Menos tempo internado (10 x 9)
- p < 0,05



## Aumentar ainda mais as robóticas colorretais

Sabendo dos benefícios clínicos, cirúrgicos, oncológicos e até de custo-efetividade, o foco em migrar as cirurgias colorretais abertas e laparoscópicas para robótica é fundamental



## Melhorar as indicações das urgências

As cirurgias de urgência podem ter grandes benefícios com a abordagem robótica desde que indicadas com segurança e precisão

> J Am Coll Surg. 2025 Jul 23. doi: 10.1097/XCS.0000000000001500. Online ahead of print.

**Robotic Surgery in Emergency Colorectal Procedures: Analysis of Outcomes and Future Trends**

Davide Ferrari <sup>1 2 3</sup>, Tommaso Violante <sup>1 4 5</sup>, Marco Novelli <sup>1 6</sup>, Richard Sassun <sup>1</sup>, Annaclara Sileo <sup>1</sup>, David W Larson <sup>1</sup>

Review > Int J Colorectal Dis. 2023 May 25;38(1):142. doi: 10.1007/s00384-023-04436-3.

**Robotic colorectal surgery in the emergent diverticulitis setting: is it safe? A review of large national database**

Karleigh R Curfman <sup>1</sup>, Ian F Jones <sup>2</sup>, Jeffrey R Conner <sup>2</sup>, Christopher C Neighorn <sup>3</sup>, Ryan K Wilson <sup>3</sup>, Laila Rashidi <sup>4</sup>

# OBRIGADO



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