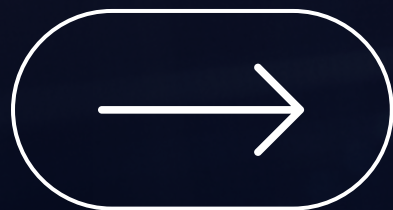


Painel: cirurgia robótica e a coloproctologia

–Panorama do Hospital Mater Dei em 2025



DR. MATHEUS MEYER

COLOPROCTOLOGISTA DA REDE MATER DEI

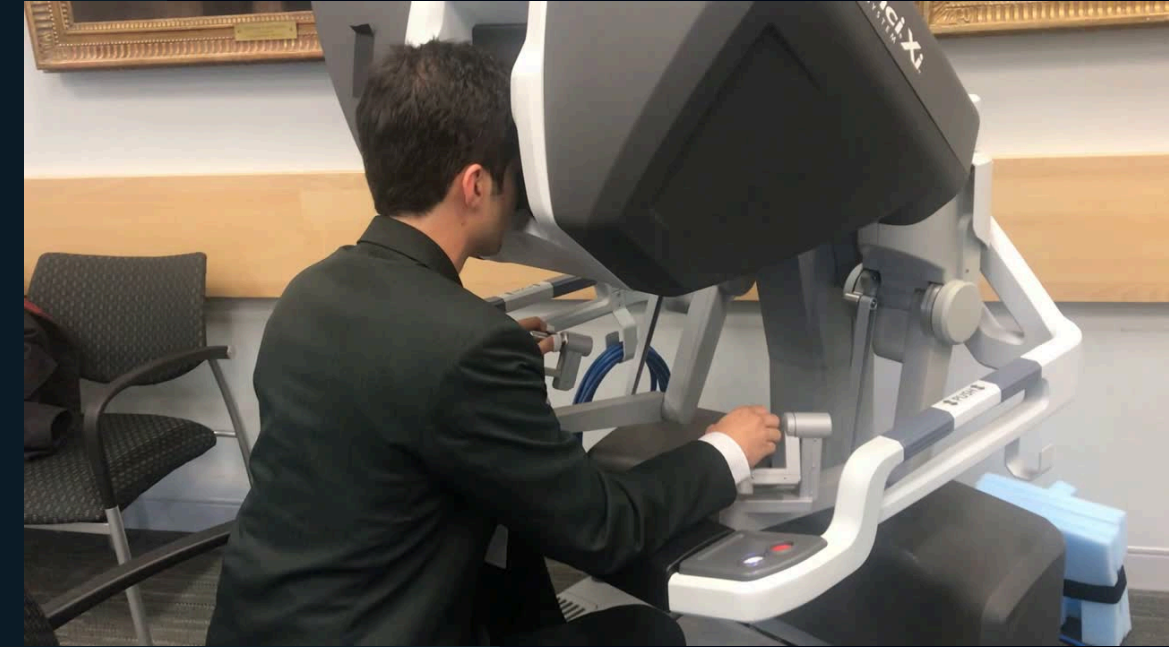
TITULAR DA SBCP

TITULAR DA SOBRACIL

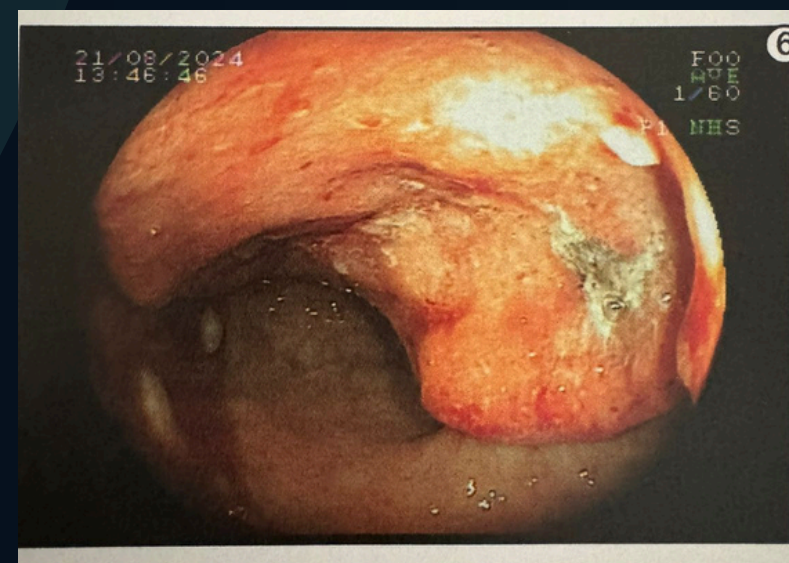
PRECEPTOR DE COLOPROCTOLOGIA DA SANTA CASA

SECRETÁRIO DA SMCP

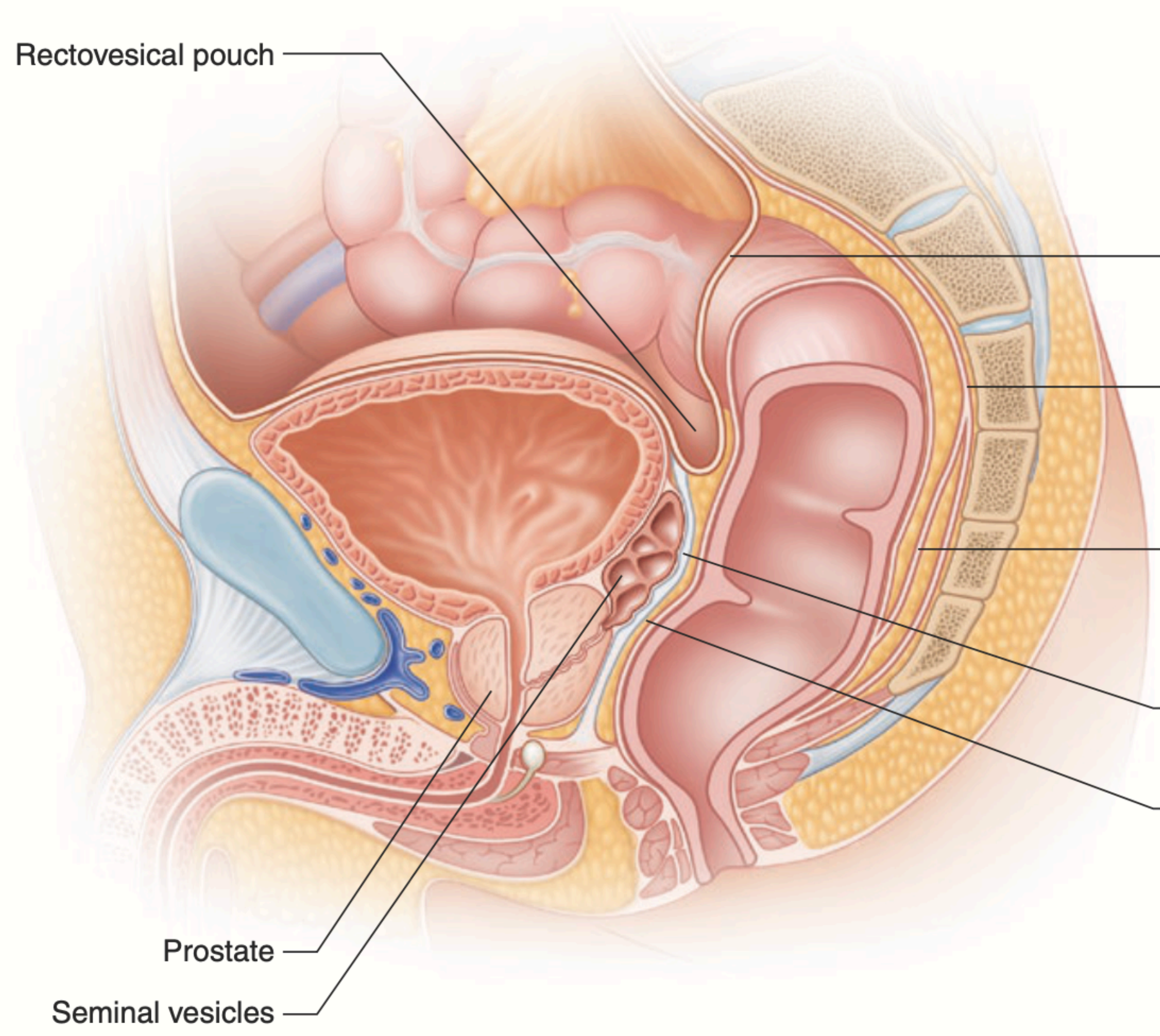
***“Tumor tocado,
tumor amputado.”***



“Tumor tocado,
tumor amputado.”



Rectovesical pouch



Prostate

Seminal vesicles



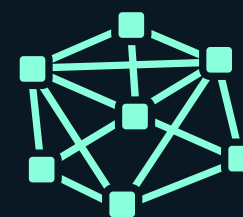
Tortuoso



Limite de espaço



Órgãos nobres



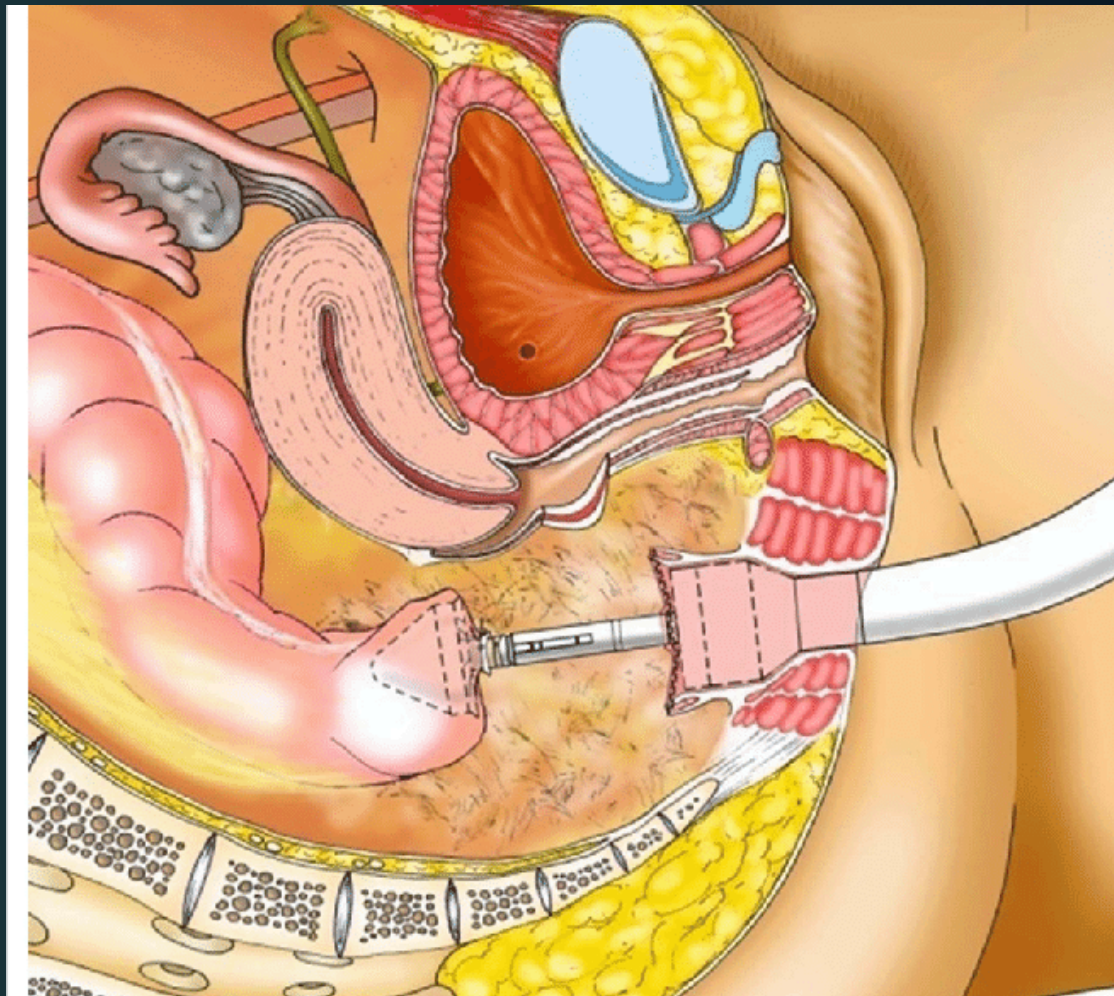
Complexidade



1908

Anastomose baixas
mais factíveis

A disseccção ainda
era desafiadora



Hümér Hütl



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?



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 ¹, Abhijit Shaligram, Valerie Shostrom, Eugene Boilesen, Jon Thompson, Dmitry Oleynikov



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 ¹, Kuan-Chih Chung ², Hong-Hwa Chen ¹, Kung-Chuan Cheng ¹, Kuen-Lin Wu ¹, Ling-Chiao Song ³



Lesões baixas

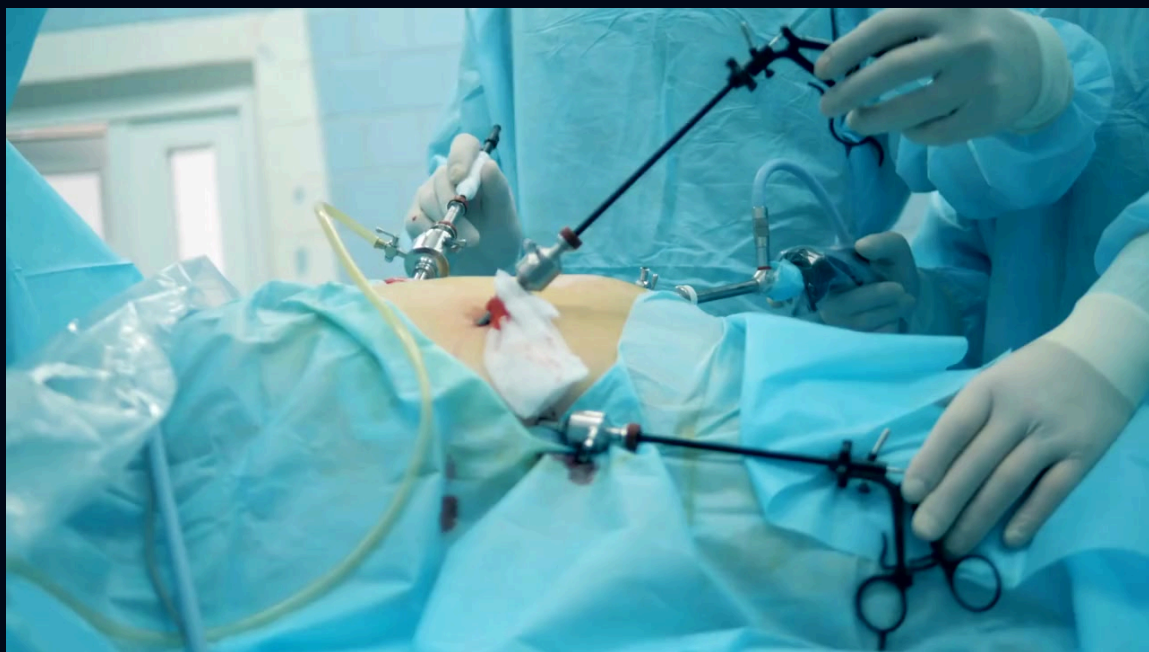
RESSECÇÕES INCOMPLETAS
E RECIDIVAS MAIORES

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 ¹, Ryosuke Okamura ¹, Yoshiharu Sakai ¹, Tsuyoshi Konishi ², Tomonori Akagi ³, Tomohiro Yamaguchi ⁴, Takashi Akiyoshi ², Meiki Fukuda ⁵, Seichiro Yamamoto ⁶, Michio Yamamoto ⁷, Tatsuto Nishigori ¹, Kenji Kawada ¹, Suguru Hasegawa ⁸, Satoshi Morita ⁷, Masahiko Watanabe ⁹, 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^a · Norisuke Shibuya^a · Hiroyuki Hachiya^a · ... · Takatoshi Nakamura^a · Taku Aoki^b · Tsunekazu Mizushima^a ... Show more

Systematic Review 28 January 2023

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

Elias Khajeh^{1,2}, Ehsan Aminizadeh¹, Arash Dooghaie Moghadam¹, Rajan Nikbakht¹, Gil Goncalves², Carlos Carvalho³, Amjad Parvaiz², Yakup Kulu¹ and Arianeb Mehrabi^{1*}

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 18;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^{1,2,8}, Linn Sæve Nymo^{1,2}, Petter Fosse Gjessing^{1,2}, Hartwig Kørner^{3,4}, Jan Terje Kvaløy^{5,6}, Stig Norderval^{1,2}

Original Investigation

Robotic vs Laparoscopic Surgery for Middle and Low Rectal Cancer

The REAL Randomized Clinical Trial

Qingyang Feng, MD^{1,2}; Weitang Yuan, MD³; Taiyuan Li, PhD⁴; et al

» [Author Affiliations](#) | [Article Information](#)

TAXAS DE CONVERSÃO

2–5%

RECORRÊNCIA LOCAL EM RETO BAIXO

1,6% X 4%

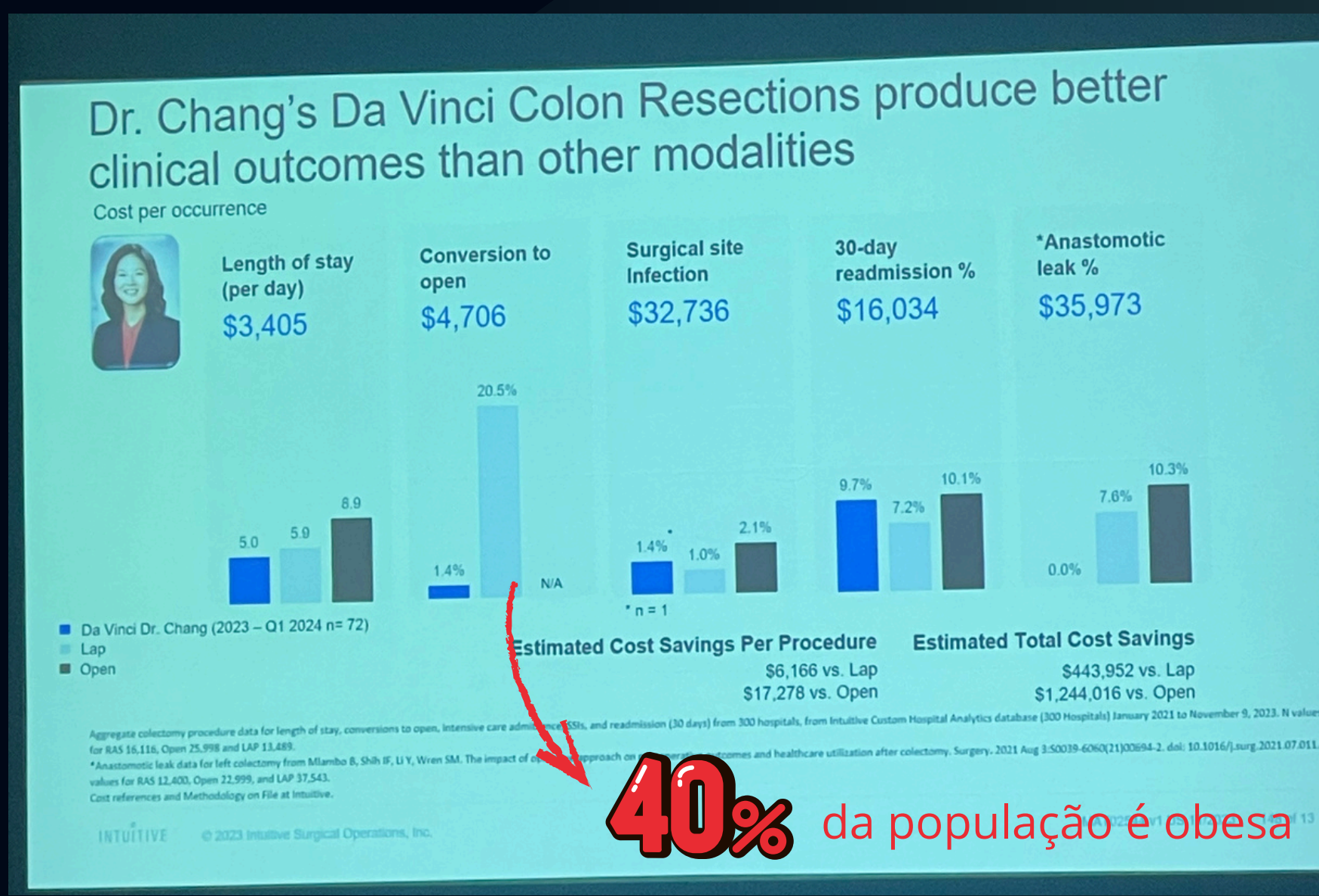
CUSTO

Comparative Study > Ann Surg. 2020 Aug;272(2):334-341.
doi: 10.1097/SLA.0000000000003196.

Cost-effectiveness Evaluation of Laparoscopic Versus Robotic Minimally Invasive Colectomy

Vlad V Simianu¹, Wolfgang B Gaertner², Karen Kuntz³, Mary R Kwaan⁴, Ann C Lowry², Robert D Madoff², Christine C Jensen²

- CONSIDERANDO
- CONVERSÃO
 - READMISSÃO
 - FÍSTULA



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

ROBÓTICA X VÍDEO
-\$ 6.166

ROBÓTICA X ABERTA
-\$17.278

40% da população é obesa

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](#)¹, [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, Flavio 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

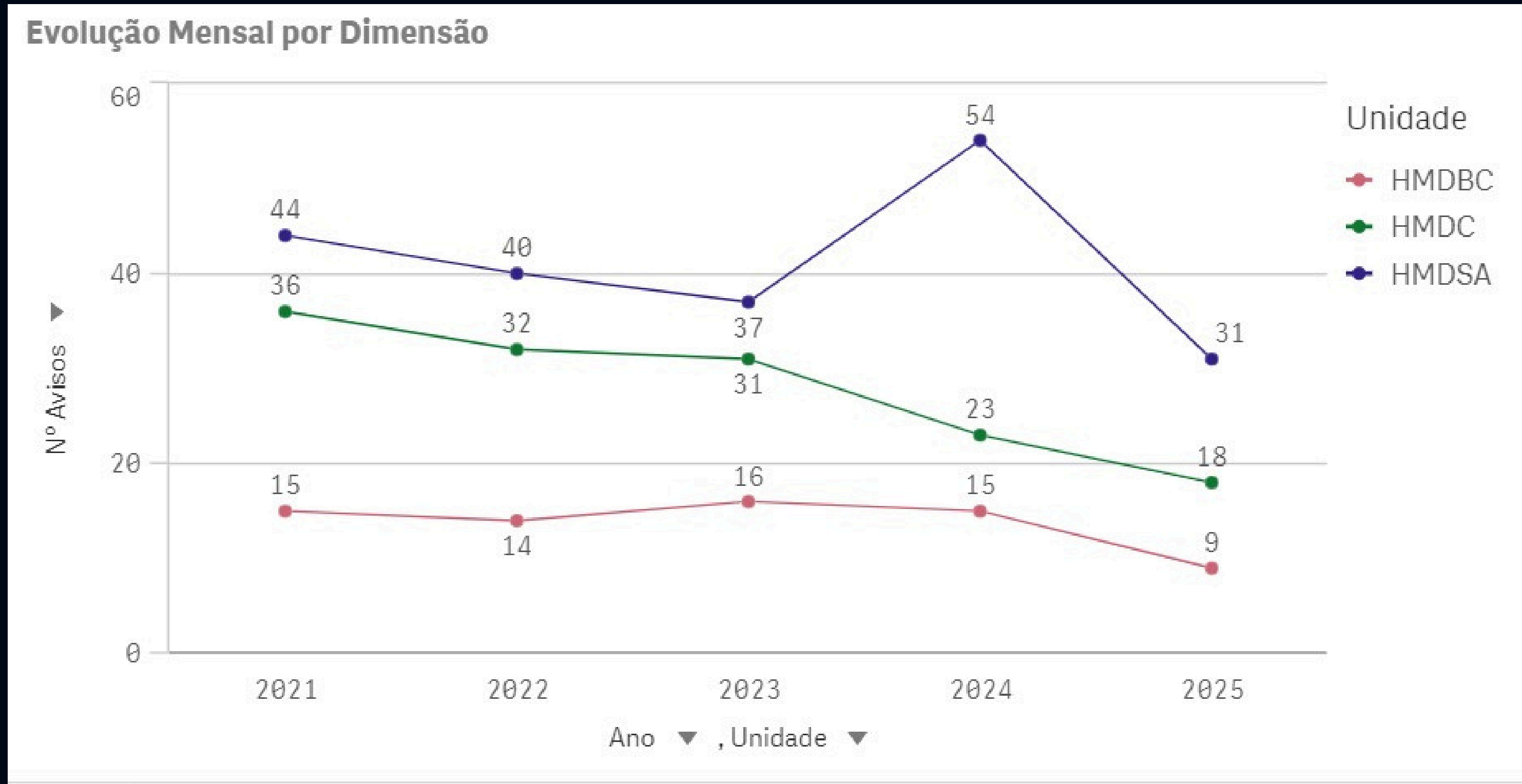
[Annibale D'Annibale](#)¹, [Graziano Pernazza](#), [Emilio Morpurgo](#), [Igor Monsellato](#), [Vito Pende](#), [Giorgio Lucandri](#), [Barbara Termini](#), [Camillo Orsini](#), [Gianna Sovernigo](#)

Affiliations: [Expand](#)

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

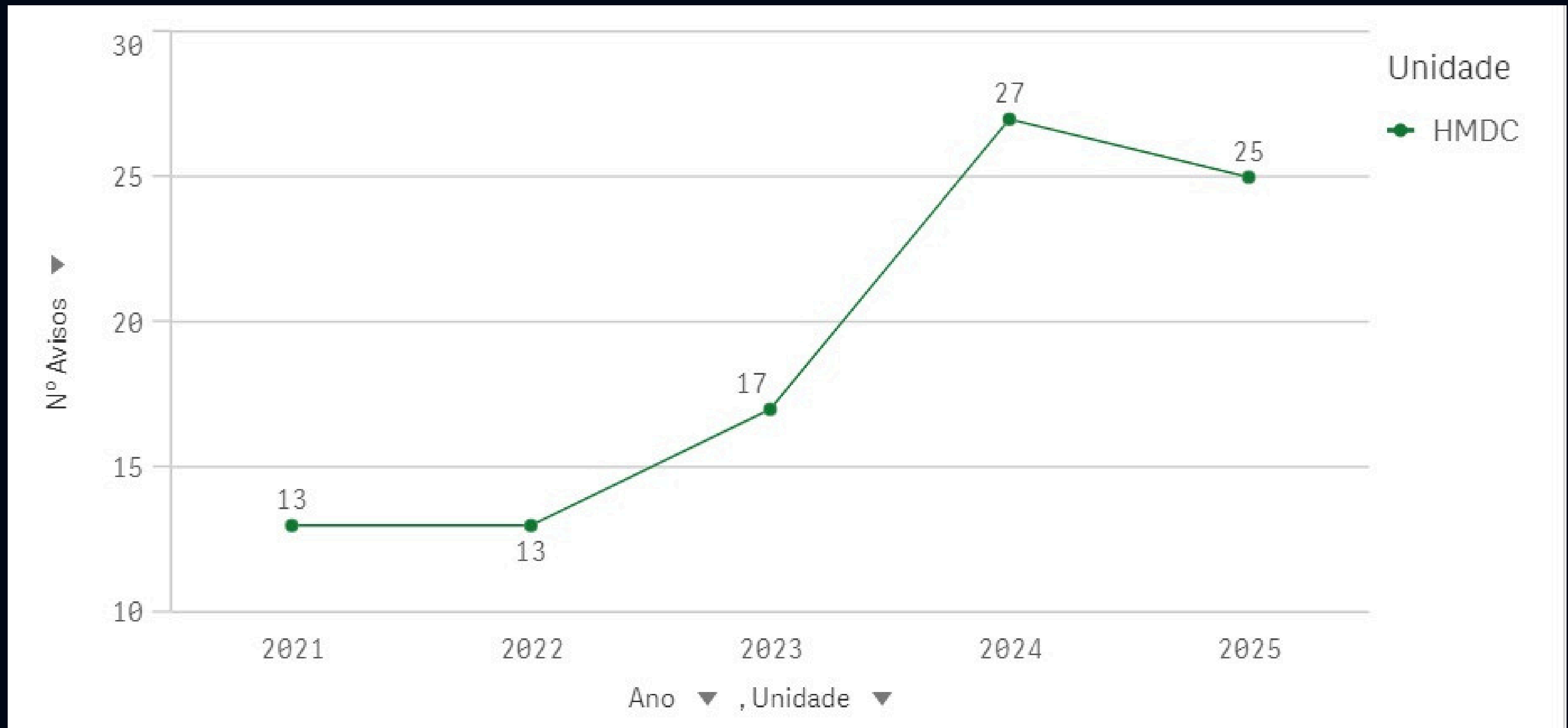
[Antônio Augusto Gonçalves](#)^{1, 2}, [Sandro Luís Freire De Castro Silva](#)¹, [Claudio Pitassi](#)³, [Marcus Brauer](#)^{2, 4}, [Sandra Gois](#)², [Saulo Barbara de Oliveira](#)⁵

CIRURGIAS DE ABAIXAMENTO VÍDEO E ABERTA



DADOS DA REDE MATER DEI

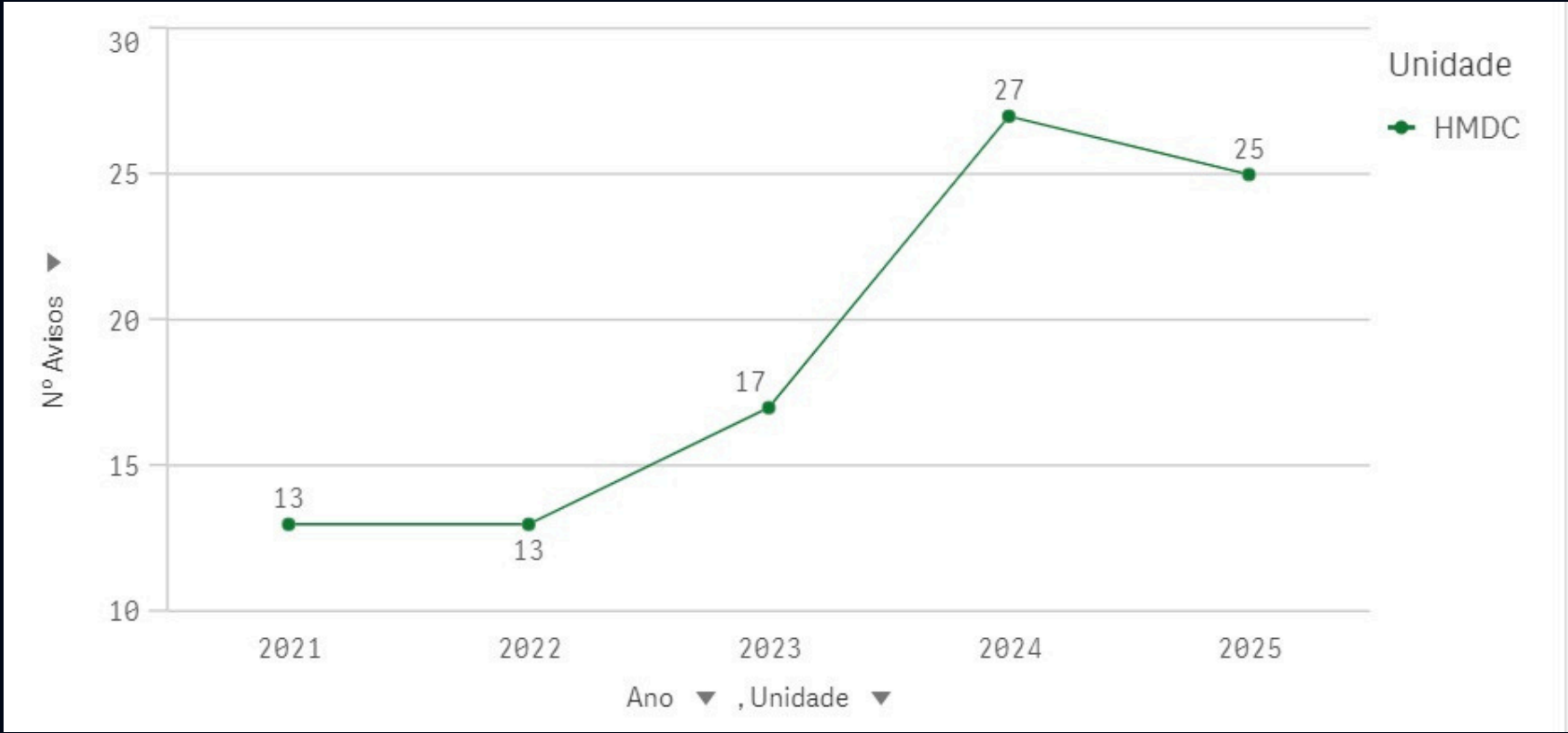
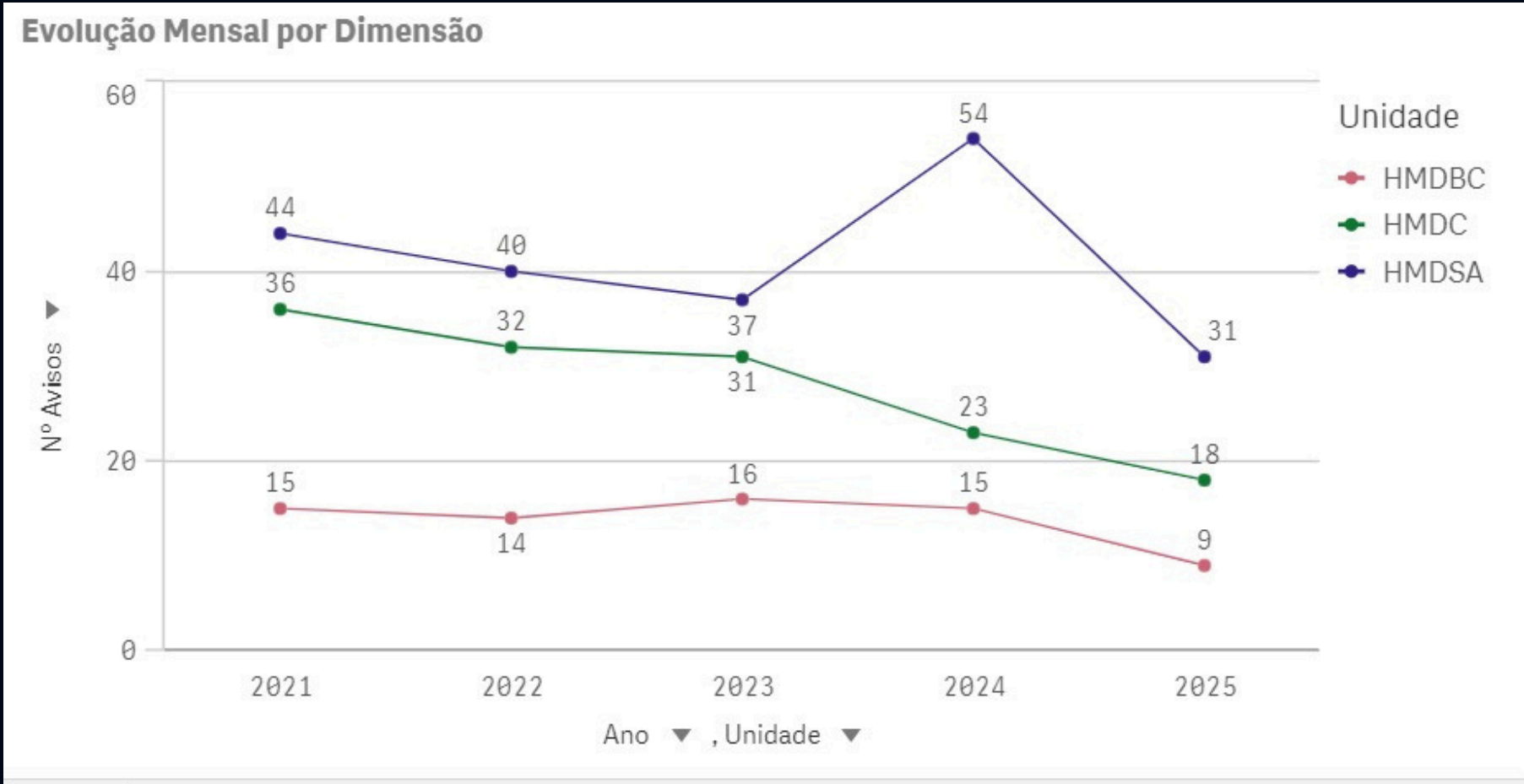
CIRURGIAS DE ABAIXAMENTO ROBÓTICAS



DADOS DA REDE MATER DEI

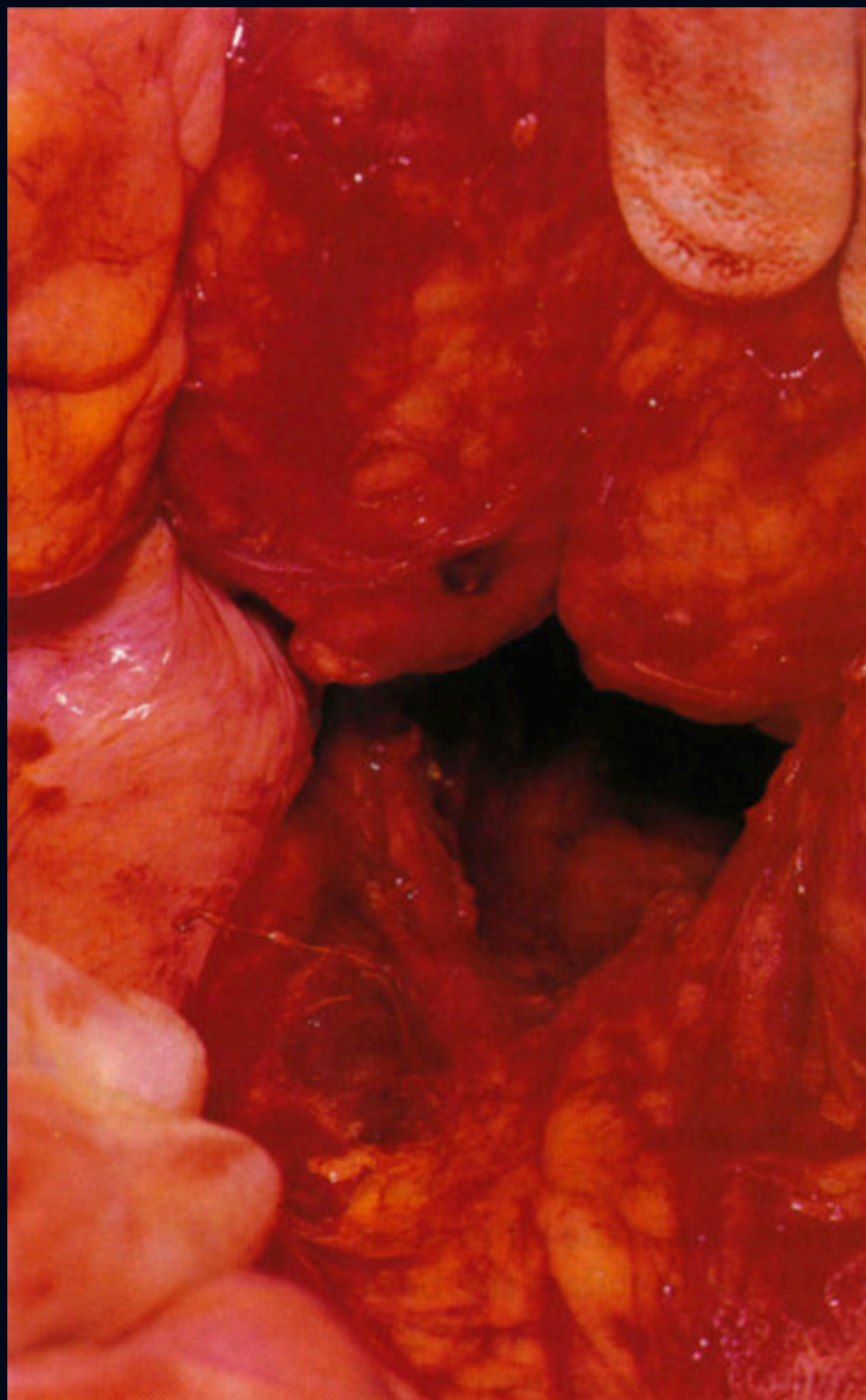
CIRURGIAS DE ABAIXAMENTO

VÍDEO+ABERTA



ROBÓTICAS

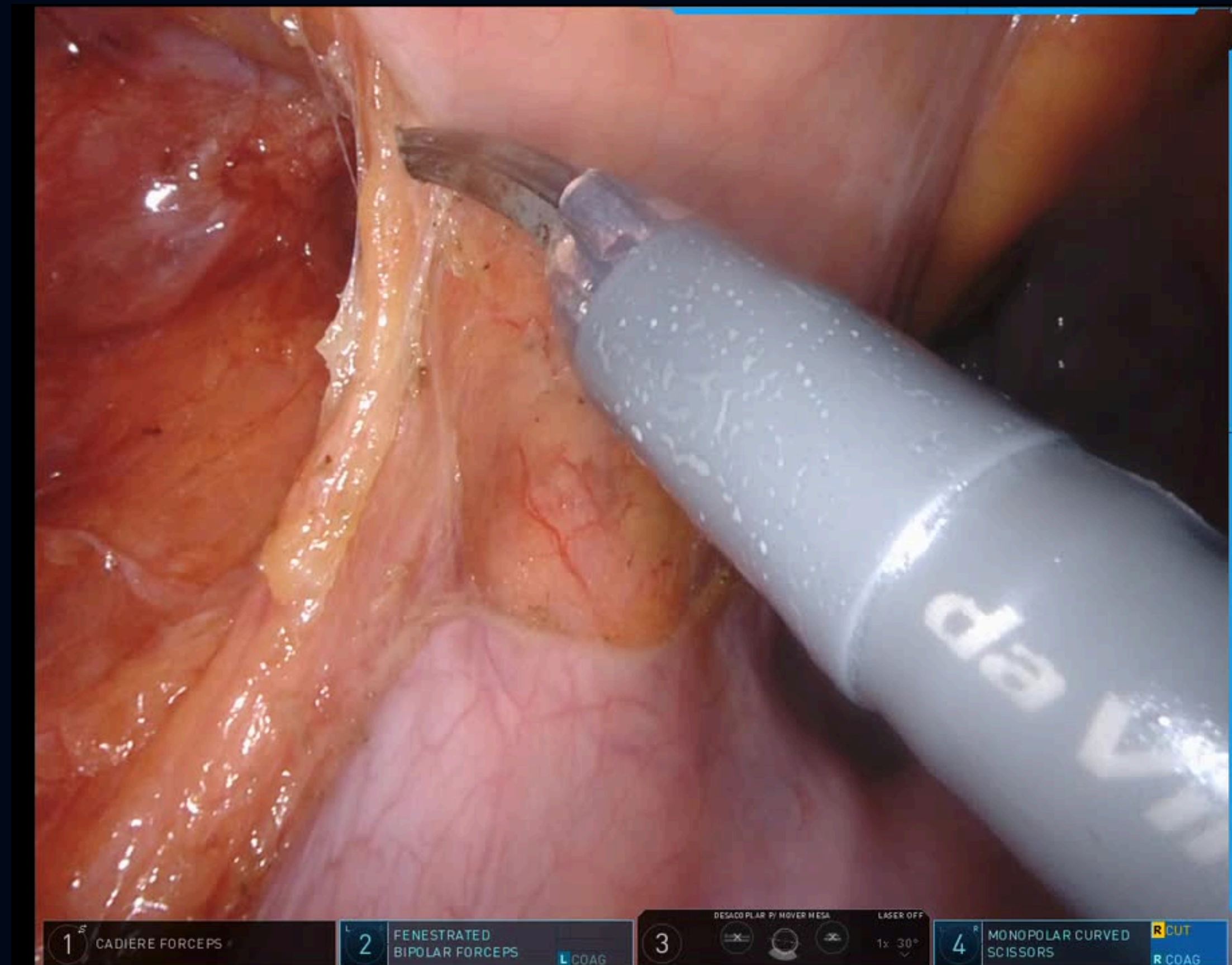
DADOS DA REDE MATER DEI



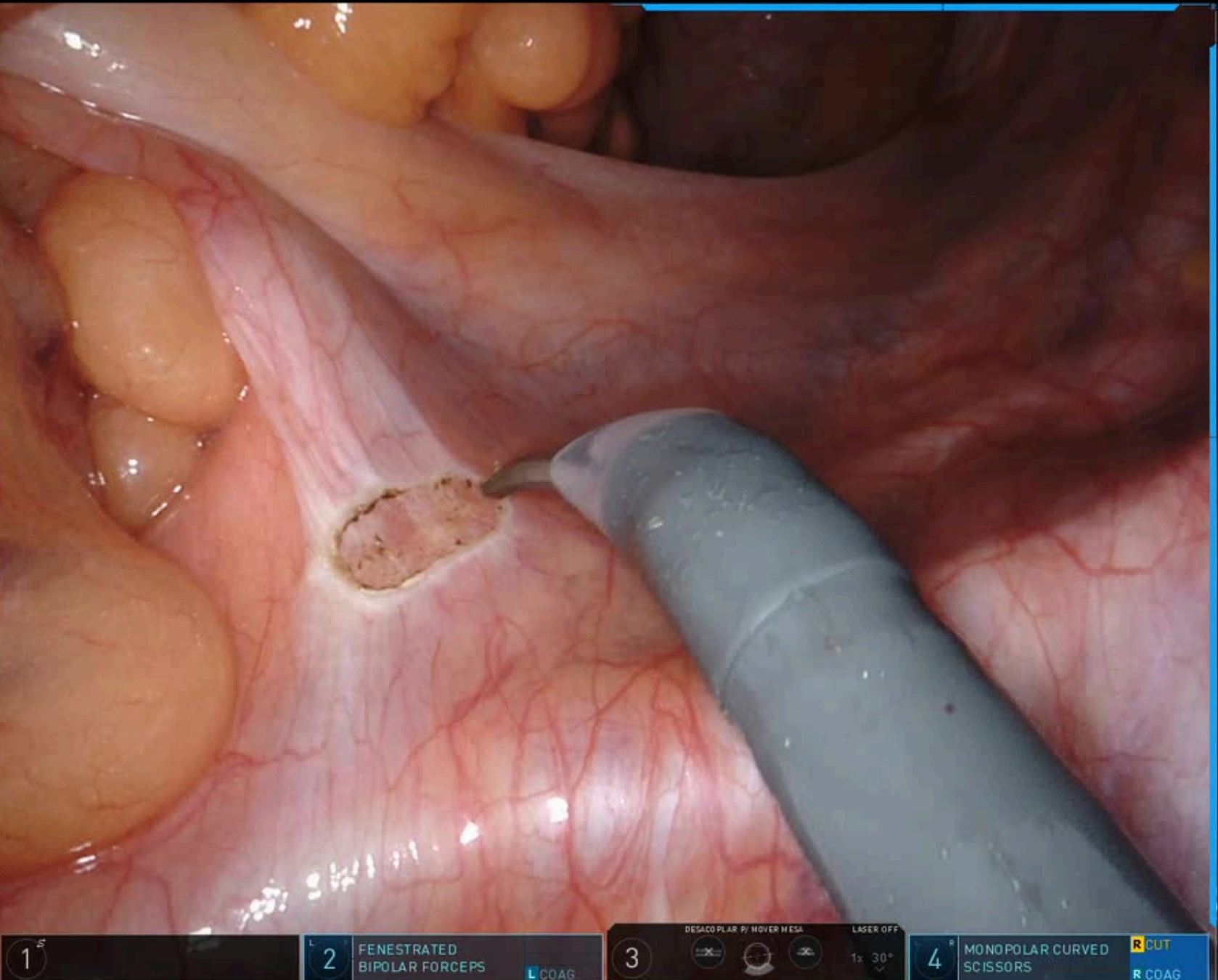
[J R Soc Med.](#) 1988 Sep; 81(9): 503-508.

The 'Holy Plane' of rectal surgery.

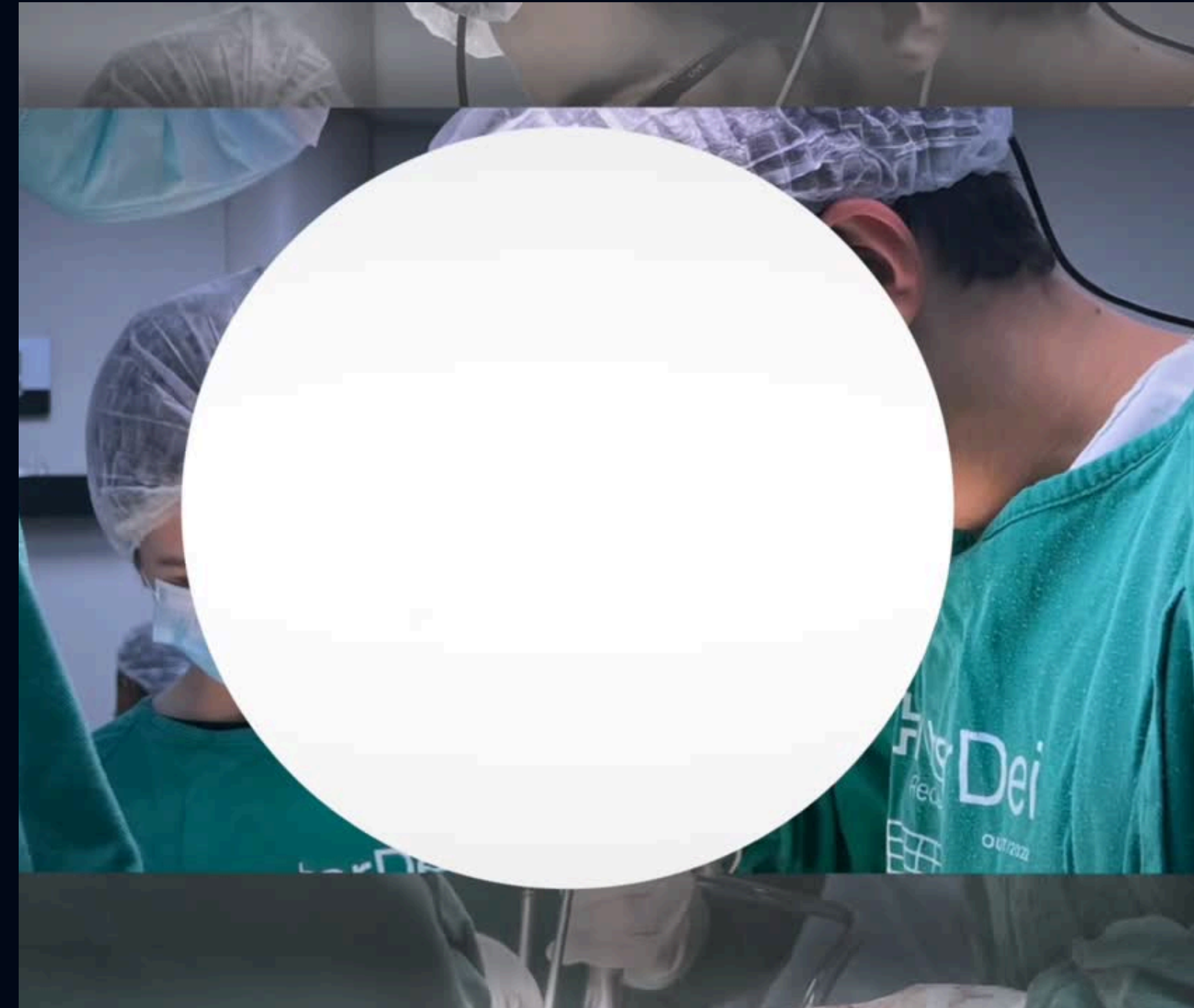
[R J Heald](#)



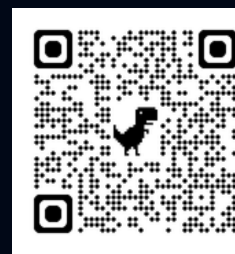
Arquivo pessoal



Arquivo pessoal



Arquivo pessoal

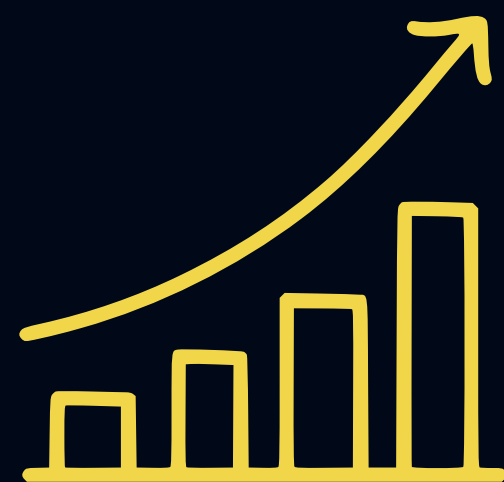




Perspectivas



- 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 ^{1 2 3}, Tommaso Violante ^{1 4 5}, Marco Novelli ^{1 6}, Richard Sassun ¹, Annaclara Sileo ¹, David W Larson ¹

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 ¹, Ian F Jones ², Jeffrey R Conner ², Christopher C Neighorn ³, Ryan K Wilson ³, Laila Rashidi ⁴

OBRIGADO



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