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**Name of Journal:** *World Journal of Gastrointestinal Surgery*

**Manuscript NO:** 64270

**Manuscript Type:** MINIREVIEWS

**Robotic Transanal Total Mesorectal Excision: Is the future now?**

Robotic Transanal Total Mesorectal Excision.

Juan Carlos Sebastián-Tomás, Aleix Martínez-Pérez, Elías Martínez-López, Nicola de'Angelis, Marcos Gómez Ruiz, Eduardo García-Granero

**Abstract**

Robotic Transanal Total Mesorectal Excision: Is the future now?



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## [Transanal Total Mesorectal Excision \(taTME\)](#)

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**Transanal Total Mesorectal Excision (taTME)**, also known as '**bottom-up**' surgery, is a new minimally invasive robotic alternative to conventional **surgery** for patients with lower rectal cancer.

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## Total me excision

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Robotic transanal total mesorectal excision: Is the future now?



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## [Robotic Transanal Total Mesorectal Excision \(RTaTME ...](#)

<https://europepmc.org/article/PMC/PMC8233761> ▾

Jun 01, 2021 · 1. Introduction. **Total mesorectal excision** (TME) is the standard procedure in the surgical treatment of rectal cancer [1]. In the last two decades this technique has revolutionized the results of rectal cancer surgery, demonstrating how surgical quality has a direct impact on local control and survival [2,3], the circumferential radial margin (CRM) and the integrity of **mesorectal** envelope being ...

## [Transanal Total Mesorectal Excision: Evolution of ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7188508>

Apr 28, 2020 · Demonstration of **transanal total mesorectal excision** (taTME) in a cadaver model. Top images show direct visualization and placement of the purse-string suture. Bottom images show placement of **transanal** endoscopic operation (TEO) platform transanally followed by circumferential dissection of the rectum and extension of the dissection into the ...

**Author:** Heather Carmichael, Patricia Sylla    **Publish Year:** 2020

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What is the current status of transanal total mesorectal excision? ▾

How is Total mesorectal excision used to treat rectal cancer? ▾

How is local transanal excision different from a polypectomy? ▾



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Robotic transanal total mesorectal excision assisted by ...

https://pubmed.ncbi.nlm.nih.gov/31320234

Background: Laparoscopy-assisted **robotic transanal total mesorectal excision** is a novel surgical technique for rectal cancer resection. Compared to prior DaVinci Si system case series, this case series is the first to report **robotic** taTME assisted by laparoscopy (r-taTME) in which the "**transanal** team" operates via the DaVinci Xi system.

Cited by: 3 Author: Je-Ming Hu, Chun-Ho Chu, Jeng-Kae Jiang,...  
Publish Year: 2020

Robotic Transanal Total Mesorectal Excision (RTaTME ...

https://europepmc.org/article/PMC/PMC8233761

Jun 01, 2021 · 1. Introduction. **Total mesorectal excision** (TME) is the standard procedure in the surgical treatment of rectal cancer [].In the last two decades this technique has revolutionized the results of rectal cancer surgery, demonstrating how surgical quality has a direct impact on local control and survival [2,3], the circumferential radial margin (CRM) and the integrity of **mesorectal** envelope being ...

PEOPLE ALSO ASK

- What is the current status of transanal total mesorectal excision?
- How is Total mesorectal excision used to treat rectal cancer?
- How does transanal TME help in distal dissection?
- How is the TME concept based on rectal carcinoma?

Feedback

Transanal total mesorectal excision (TaTME): current ...

https://pubmed.ncbi.nlm.nih.gov/30734896

**Total mesorectal excision** (TME) is the gold standard surgical treatment for mid- and low rectal cancer; however, it is associated with specific technical hurdles. **Transanal** TME (TaTME) is a new procedure developed to overcome these difficulties, through an enhanced visualization of the dissection pl ...

Cited by: 14 Author: Andrea Vignali, Ugo Elmore, Marco Milone

Total mesorectal excision

Total mesorectal excision is a standard surgical technique for treatment of rectal cancer, first described in 1982 by Professor Bill Heald at the UK's Basingstoke District Hospital. It is a precise dissection of the mesorectal envelope comprising rectum containing the tumour together with all the surrounding fatty tissue and the sheet of tissue that contains lymph nodes and blood vessels. Dissection is along the avascular alveolar plane between the presacral and mesorectal fascia, described as holy plane. Dissection along this plane facilitates a straightforward dissection and preserves the sacral vessels and hypogastric nerves and is a sphincter-sparing resection and decreases permanent stoma rates. It is possible to rejoin the two ends of the colon; however, most patients require a temporary ileostomy pouch to bypass the colon, allowing it to heal with less risk of infection, perforation or leakage.

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