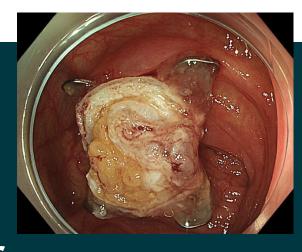


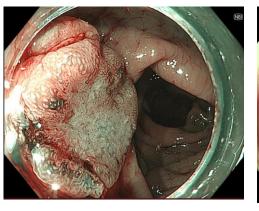
A Decade of FTRD: Global Insights and Future Directions

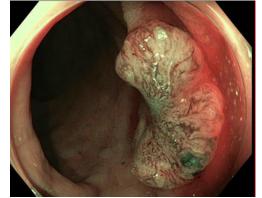


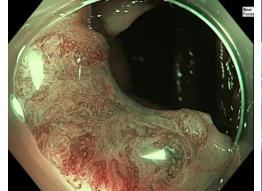
eFTR for T1 colorectal cancer

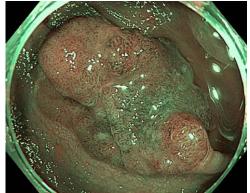
Barbara Bastiaansen, Gastroenterologist

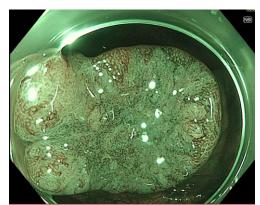
November 2024







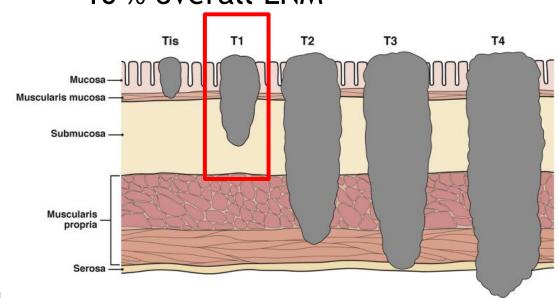




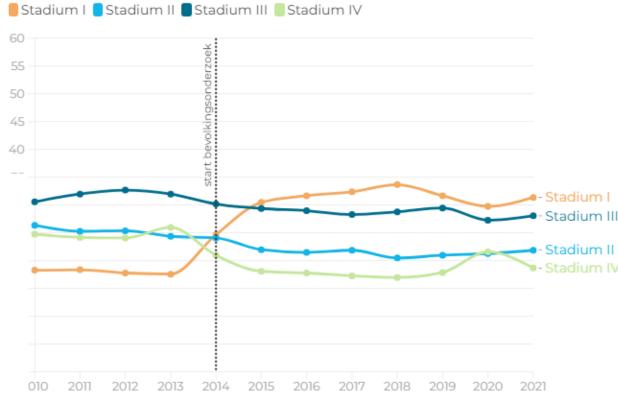


T1 colorectal cancer

- Invasion limited to submucosa
- Screening increases detection
- Potential local treatment & cure
 ~10 % overall LNM



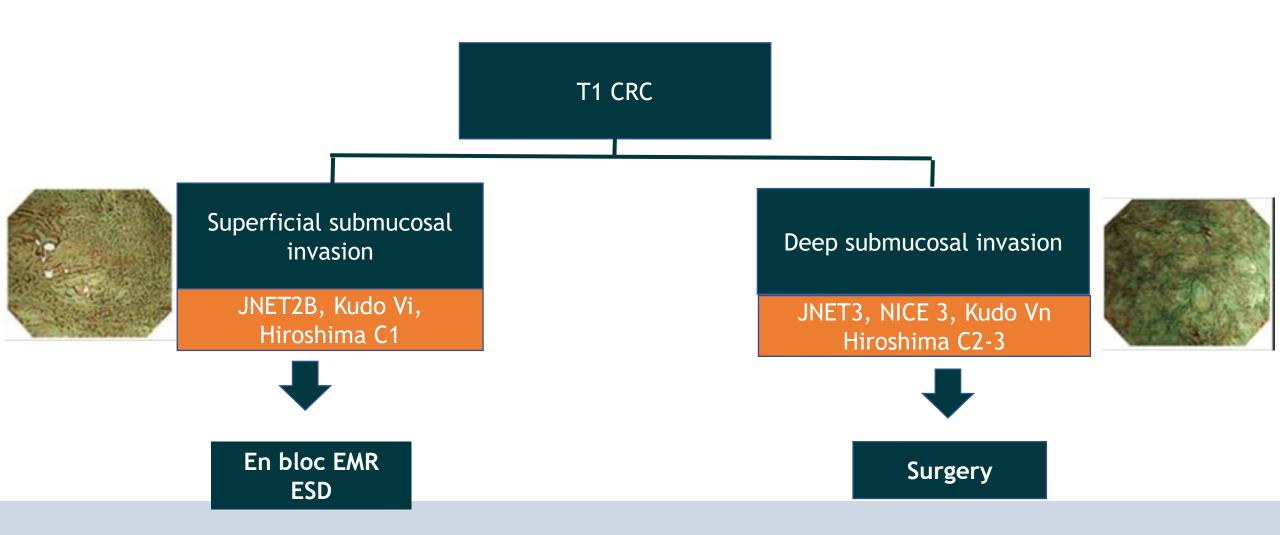


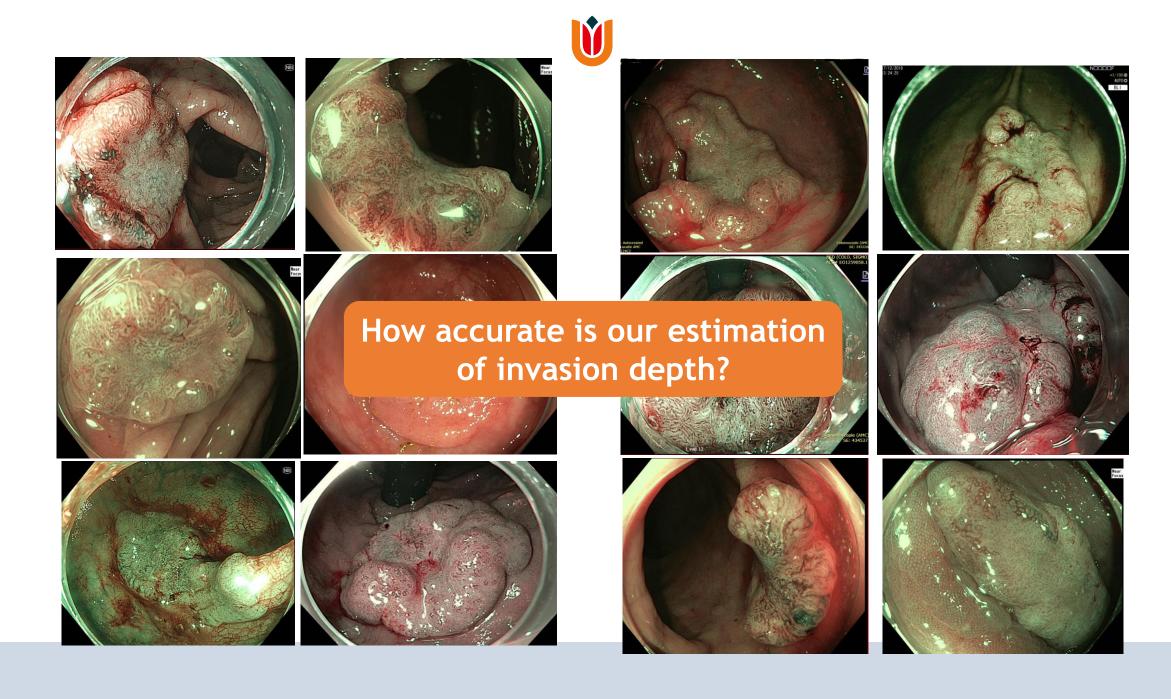


Netherlands Cancer Registry/IKNL Toes Zoutendijk Gut 2017



Guideline-directed algorithm treatment T1CRC







Optical diagnosis has its limitations

Original Article

First report from the International Evaluation of Endoscopic classification Japan NBI Expert Team: International multicenter web trial

36 European endoscopists (ESGE)

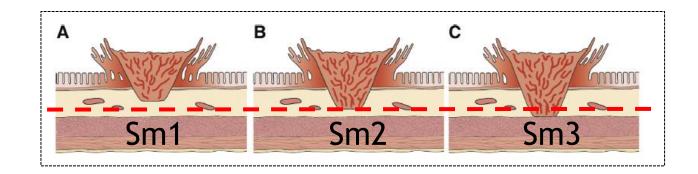
49 Japanese endoscopists (JGES)

JNET classification	Sensitivity	Specificity	Accuracy
Type I	73.3%	94.7%	93%
Type 2A	53%	64.9%	62.1%
Type 2B	43.9%	67.7%	55.1%
Type 3	38.1%	93.7%	85.1%



Transmural resection for T1 CRC- necessary?

- 60 % of T1 CRC's are sized 2cm or less 1,4
- 50-75% of T1 CRC's have deep submucosal invasion at diagnosis ^{2,3,4}
- R0 resection rate for T1 CRC's drops from 92% (Sm1) to 35-62% for Sm2-3 in ESD ^{5,6}



¹ Kessels K, J Clin Gastroenterol Hepatol 2018 ⁴ Yasue C, J gastroenterol 2019

 ² Zwager LW Endoscopy 2022
 ³ Ohata K Gastroenterol 2022

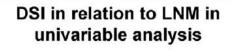
⁵ Spadaccini M, Gut 2022

⁶ Watanabe D, Surg Endosc 2018



Deep Submucosal Invasion Is Not an Independent Risk Factor for Lymph Node Metastasis in T1 Colorectal Cancer: A Meta-Analysis

Deep submucosal invasion is not an independent risk factor for lymph node metastasis in T1 colorectal cancer: a meta-analysis



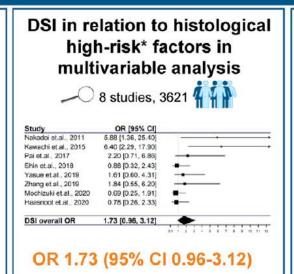


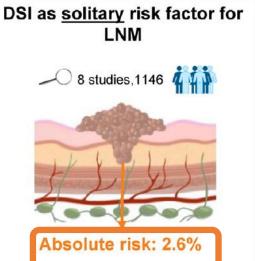
67 studies

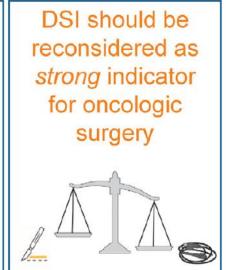
21,238 patients

Overall LNM-rate: 11.2%

OR 2.58 (95% CI 2.10-3.18)







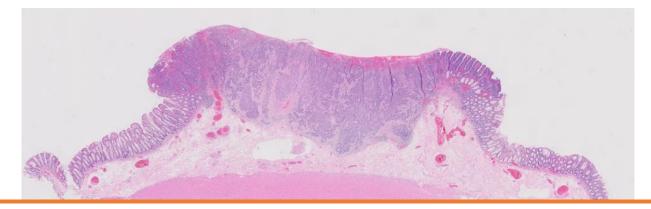
40 % of all DSI cancers do not have other risk factors!

Gastroenterology

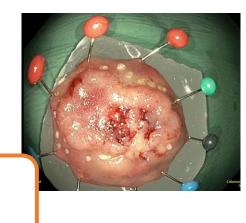


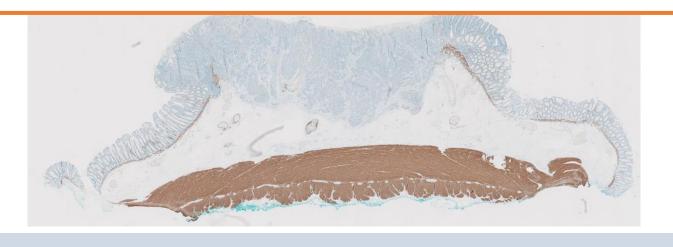
Risk stratification requires high quality specimen

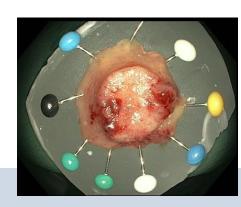










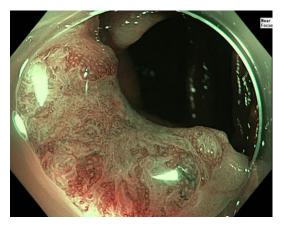




Expanding eFTR indications



- T1 colorectal cancers
 - > Primary treatment for supect lesions as "excisional biopsy"
 - > Secondary scar excision after previous incomplete resection T1 CRC

















eFTR for T1CRC

Endoscopic full-thickness resection of T1 colorectal cancers: a retrospective analysis from a multicenter Dutch eFTR registry

- Dutch prospective eFTR registry (started 2015)
- N = 330 (suspected) T1 CRC
 - 132 primary
 - 198 secondary (scar resection after Rx/R1 resection)
- R0: 82% (primary resection) vs. 88% (secondary resection)
 - 85.9 % for lesions ≤ 20 mm vs 80.0 % for lesions > 20 mm

Technical success and RO resection for (suspected) T1CRC

Characteristics	Primary	Secondary
	treatment	treatment
eFTR procedures, n	132	198
Lesion size, median (IQR), mm	15 (12-16)	10 (7-15)
Specimen size, median (IQR), mm	27 (23-31)	22 (18-26)
Technical success, n (%)	118 (89)	169 (85)
R0 resection, n (%)	105 (82)	169 (88)
Full-thickness, n (%)	105 (82)	153 (80)

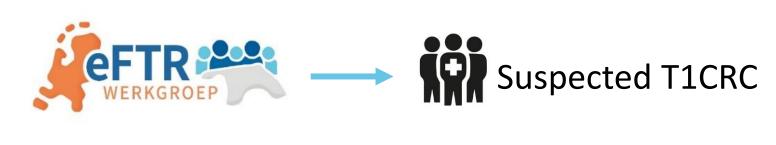
Curative resection rate (only T1CRC at histology)

Outcome	Primary treatment (N=97)	Secondary treatment (N=192)
Curative resection ¹ , n (%)	23 (24)	152 (79)
When excluding DSI as risk factor, n (%)	59 (61)	160 (83)

1. DSI included as risk factor



3 year oncological outcomes following endoscopic full-thickness resection for T1 colorectal cancer: results from the Dutch prospective colorectal eFTR registry



Low risk T1CRC

High risk T1CRC

≥1 risk factors (excl. DSI)





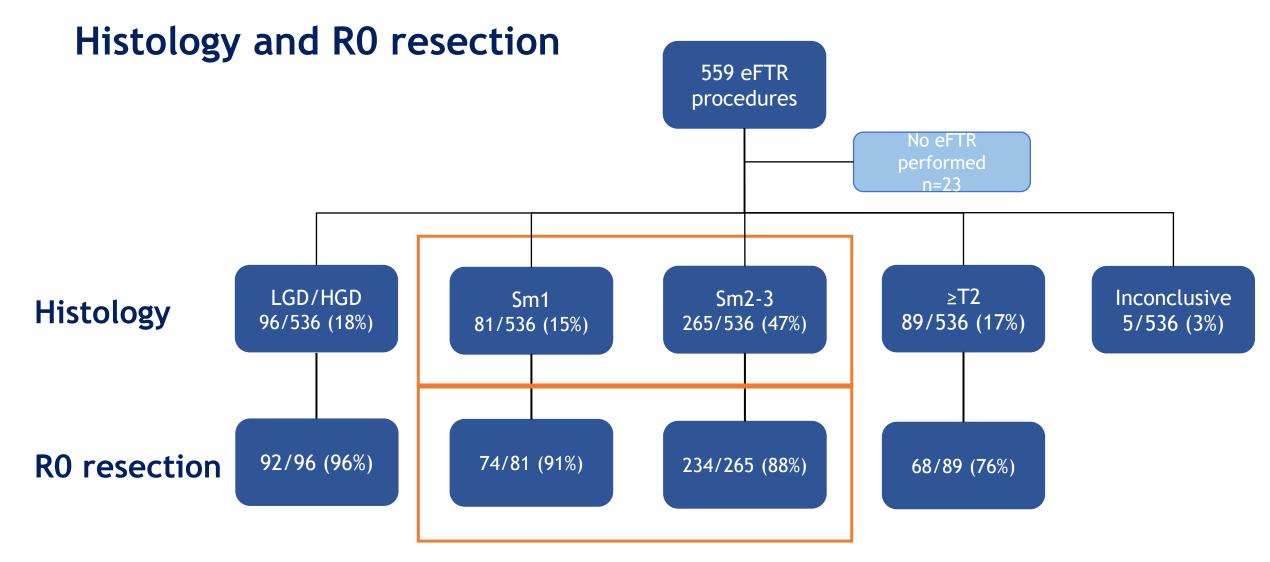
Patient and procedural characteristics



Total inclusion, number	559
Age, in years, mean (SD)	74 (9)
Male gender, number (%)	324 (58)
Tumour location Colon, number (%) Rectum, number (%)	460 (82) 99 (18)
Lesion size, in mm, median (IQR)	16 (6)
Specimen size, in mm, mean (SD)	28 (7)
Full-thickness, number (%)	463 (83)
Technical success, number (%)	501 (90)
Adverse events, number (%) Mild-moderate Severe	39 (7) 22 (4) 17 (3)





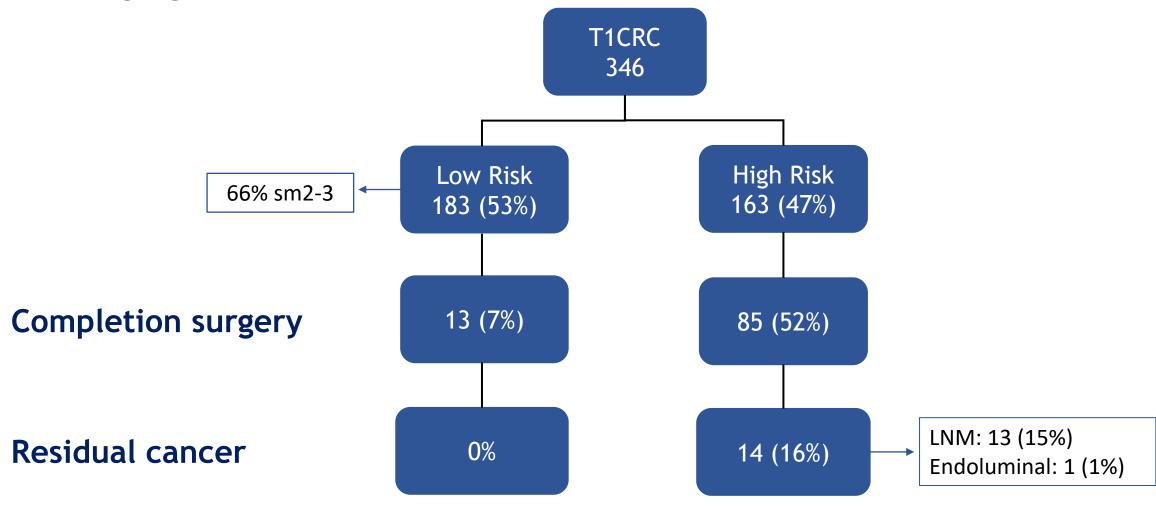


S. Albers ESGE 2024 Abstract OP066





T1CRC



S. Albers ESGE 2024 Abstract OP066





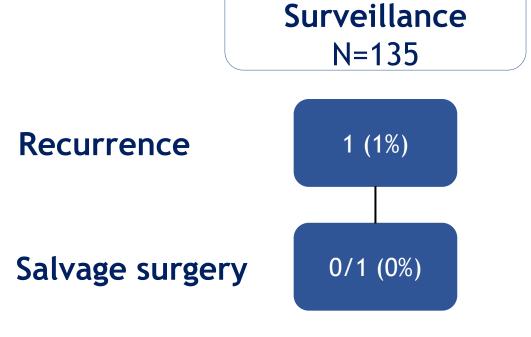
Follow-up T1CRC

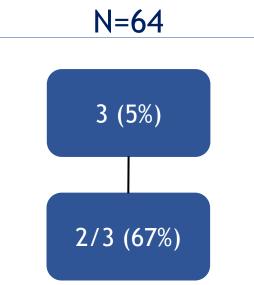




Low Risk

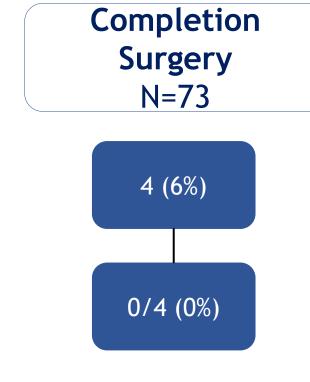
44 months (range 6-94)





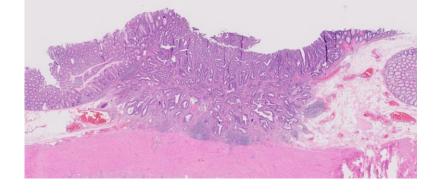
High Risk

Surveillance



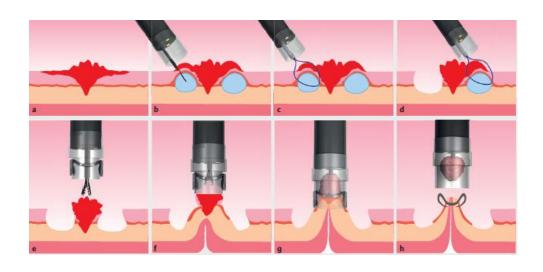


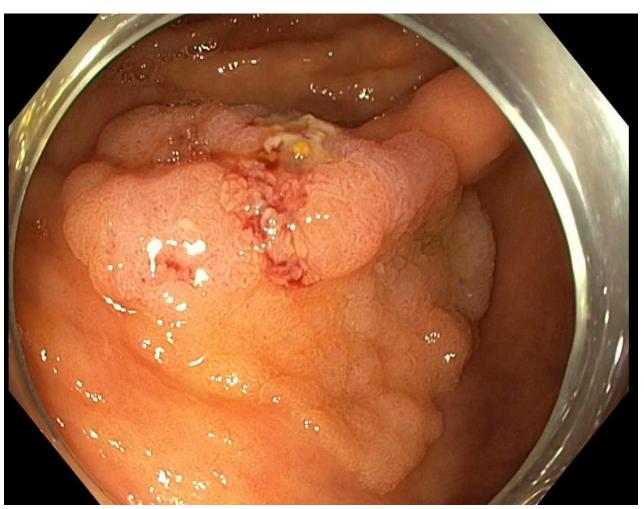




- ✓ eFTR is a highly effective primary resection technique for suspected T1CRC ≤ 2cm
- ✓ Optimal histology by including m. propria
- ✓ Complete histological risk assessment in > 99% of cases
- ✓ Favorable R0 resections overall 82-91 %
 - ✓ Majority (70%) of cases show deeper Sm infiltration (Sm 2-3)!
 - ✓ Low recurrence rate for low-risk (deep) T1 CRC at median follow-up of 3.5 years
- ✓ Expands endoscopic treatment options, pusuing organ preservation:
 - ✓ R0 resection in deeper Sm invasion
 - ✓ Scar resection after previous incomplete resection low-risk T1 CRC

Future directions - Hybrid EMR/eFTR

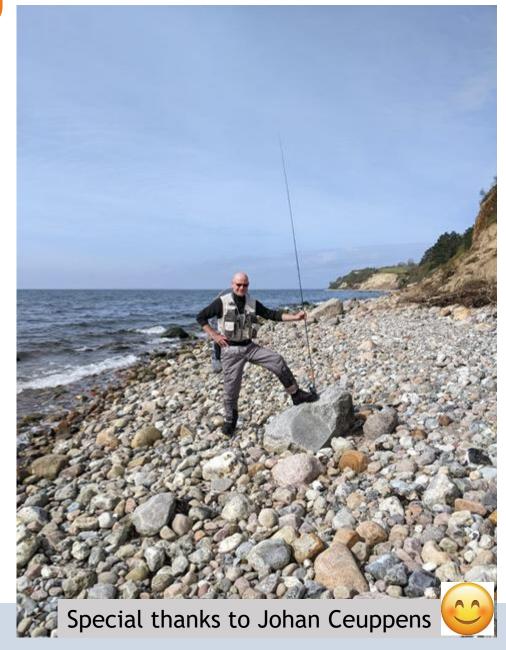






Happy anniversary!





Acknowledgements





































Deventer ziekenhuis





















meander MEDISCH CENTRUM









Contact information

b.a.bastiaansen@amsterdamumc.nl