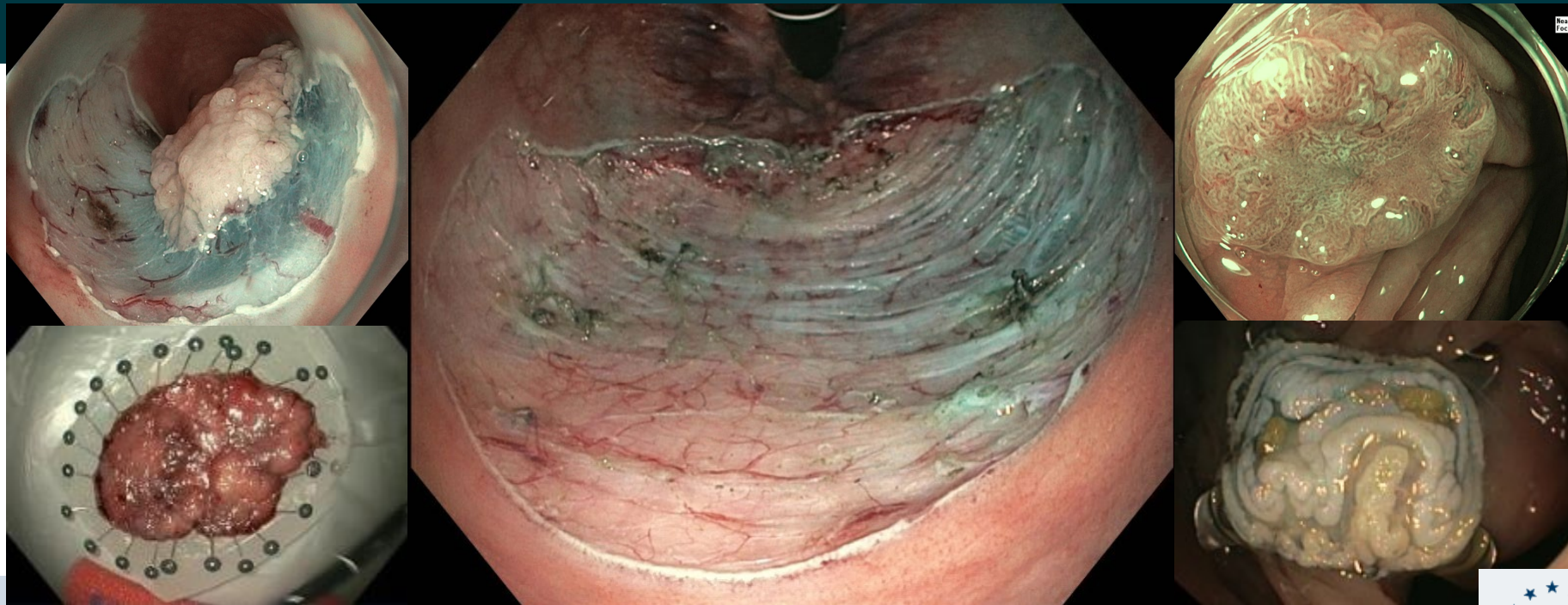


Poliepen in de darm

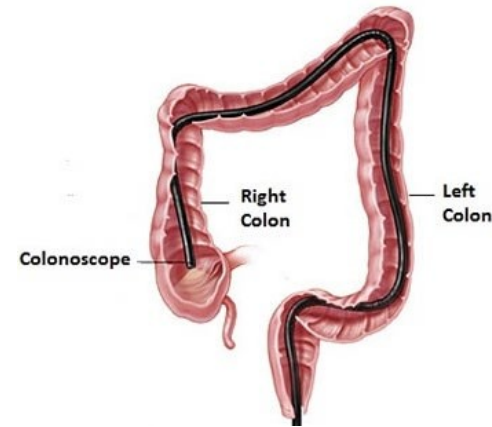
Endoscopie vs Chirurgie

Barbara Bastiaansen

MDL arts

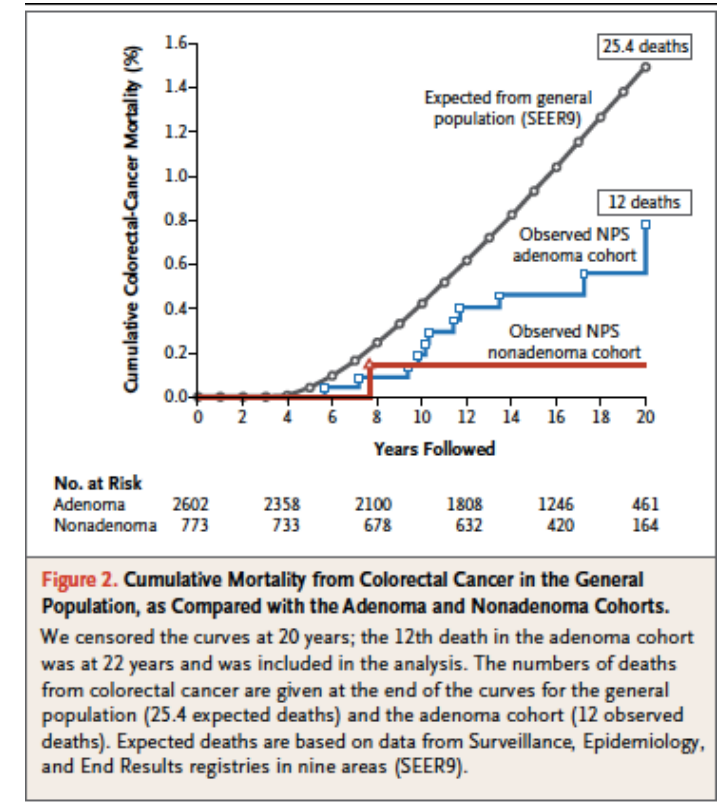
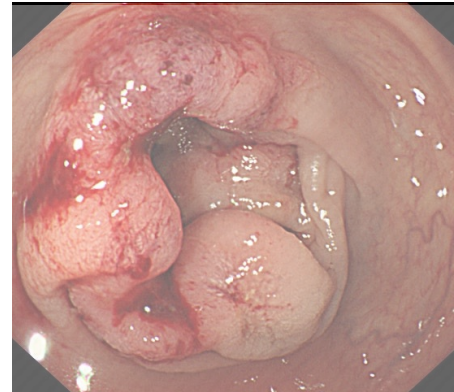
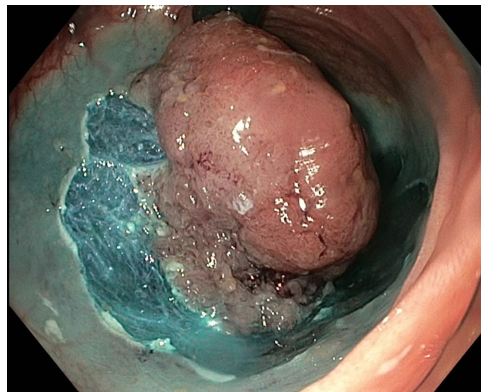
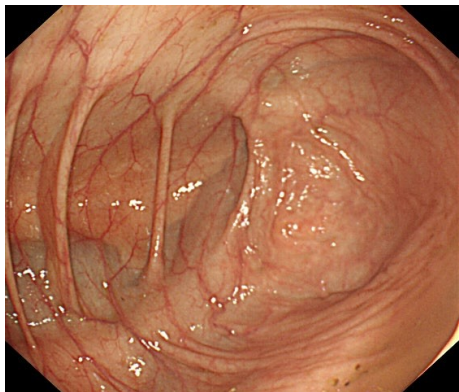


Coloscopie



Gouden standaard voor detectie en resectie poliepen

Reduceert CRC gerelateerde mortaliteit¹



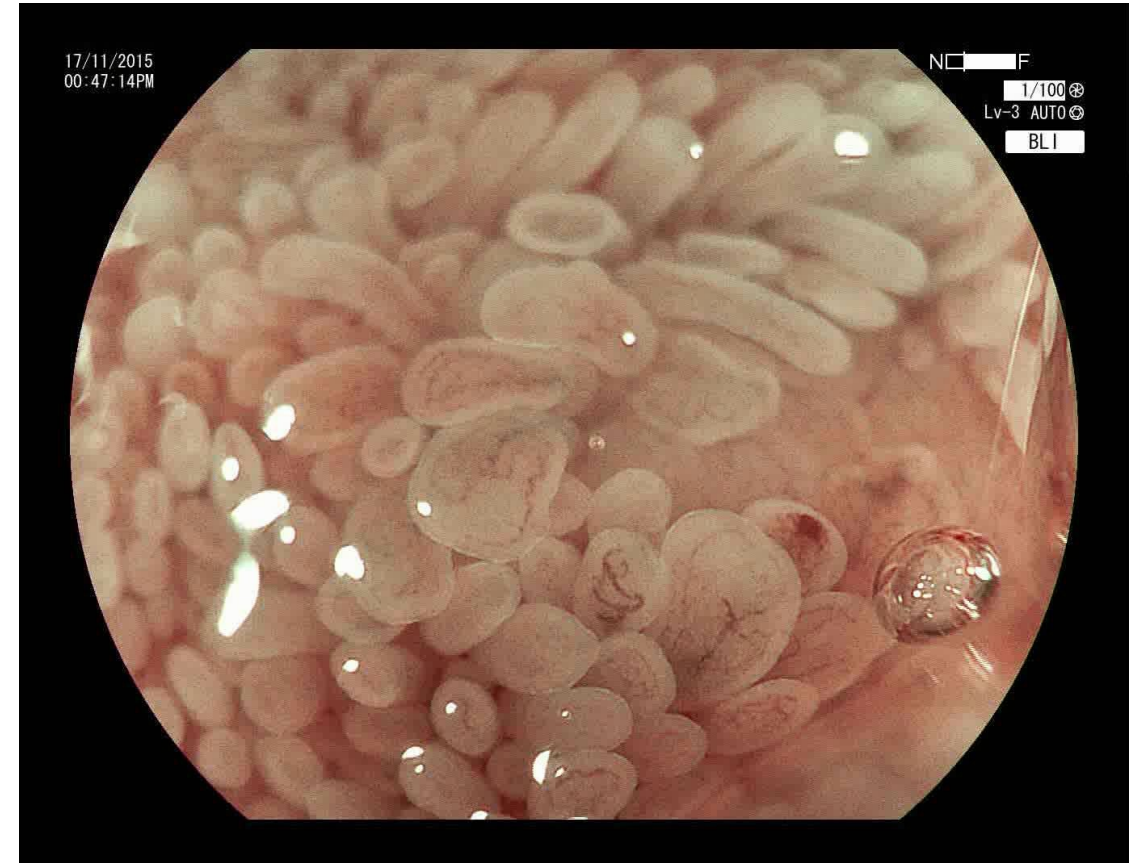
- 1895 -



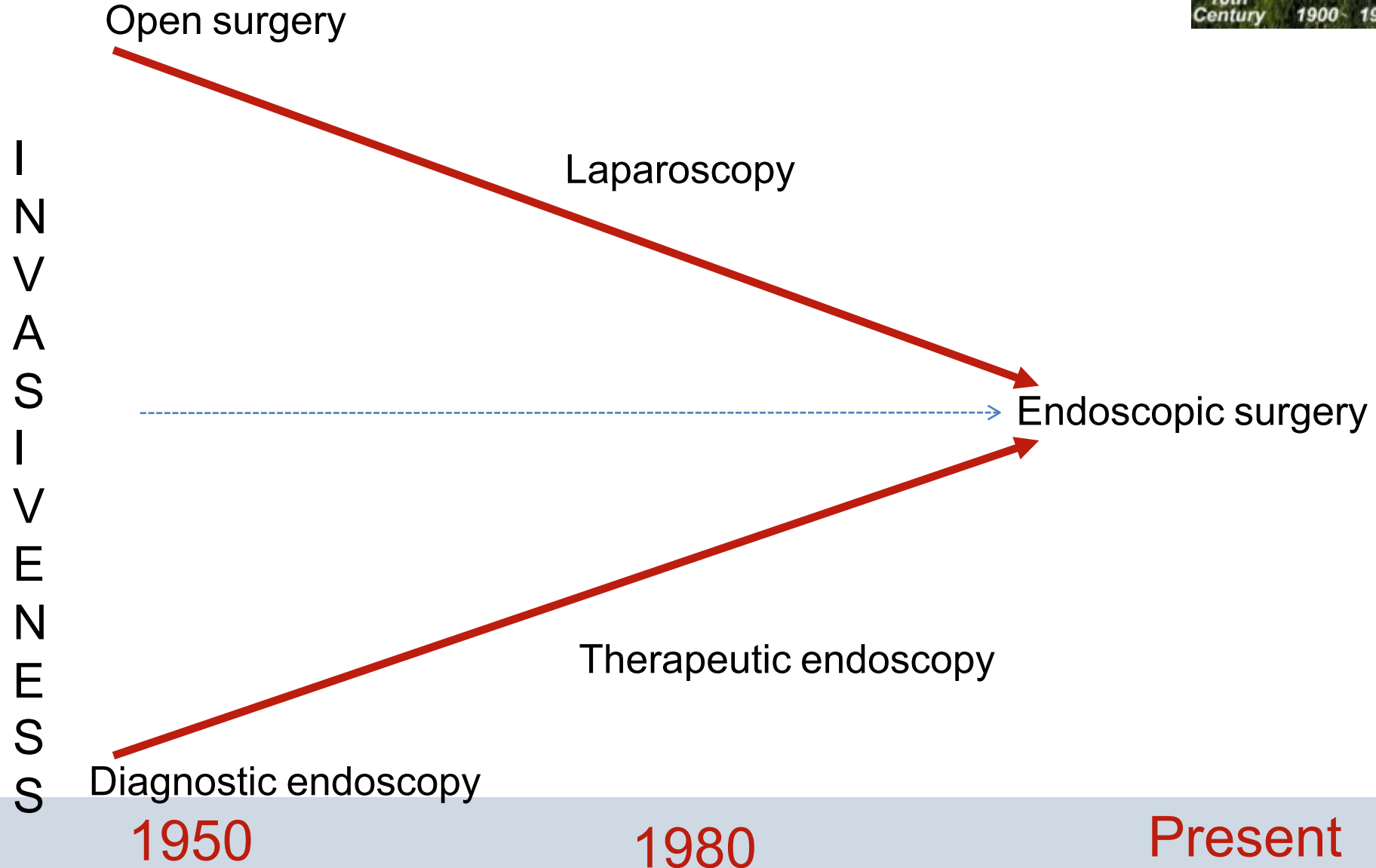
- 2021 -



Fig. 3.
Howard Kelly described the first sigmoidoscopy in 1895. The technique of examination utilized an electric light placed close to the patient's sacrum, and the light reflected off the examiner's head mirror.

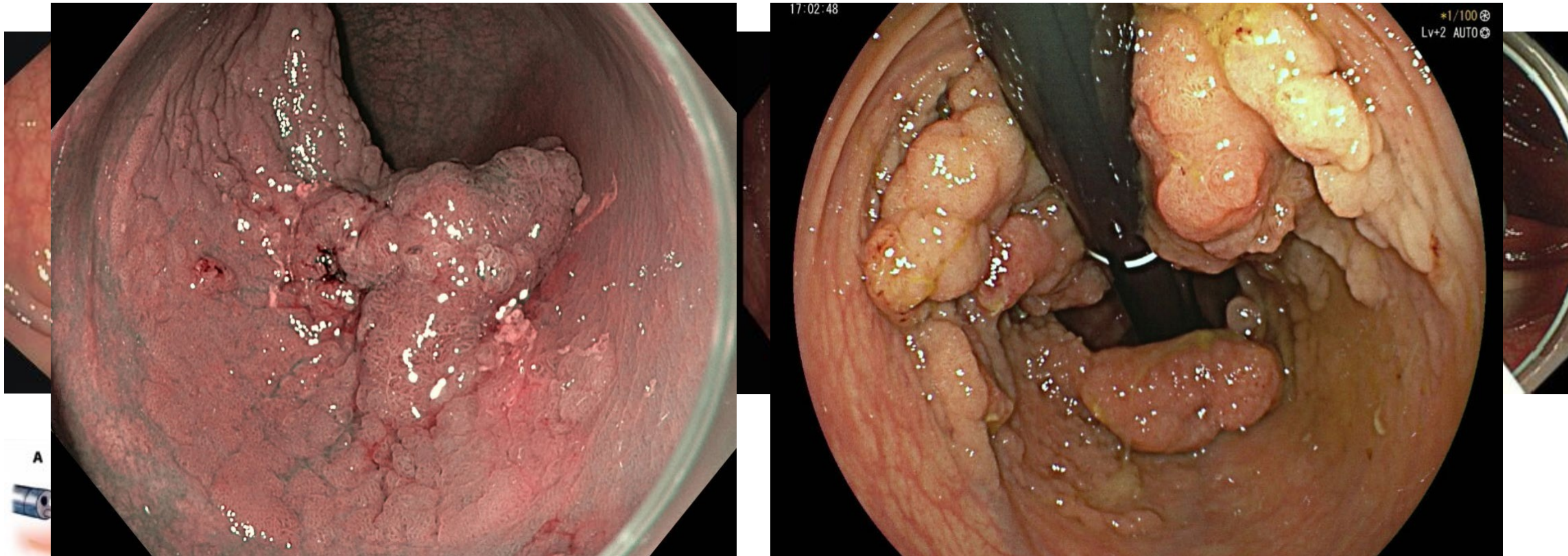


GE evolutie





Reguliere poliepectomie

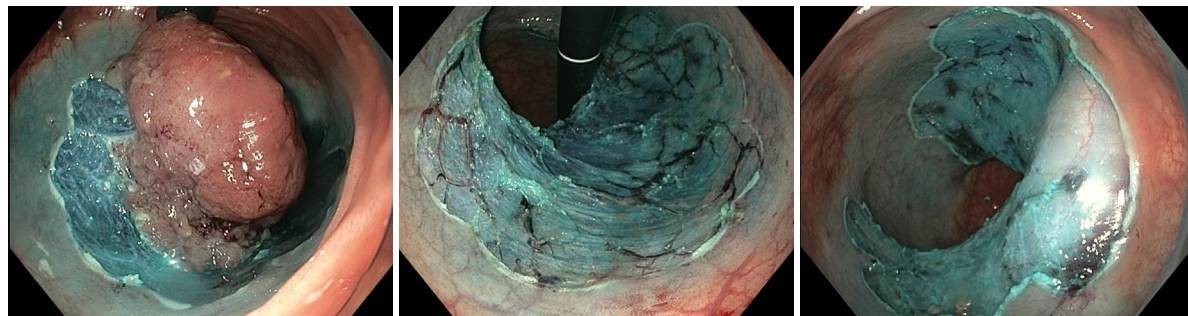
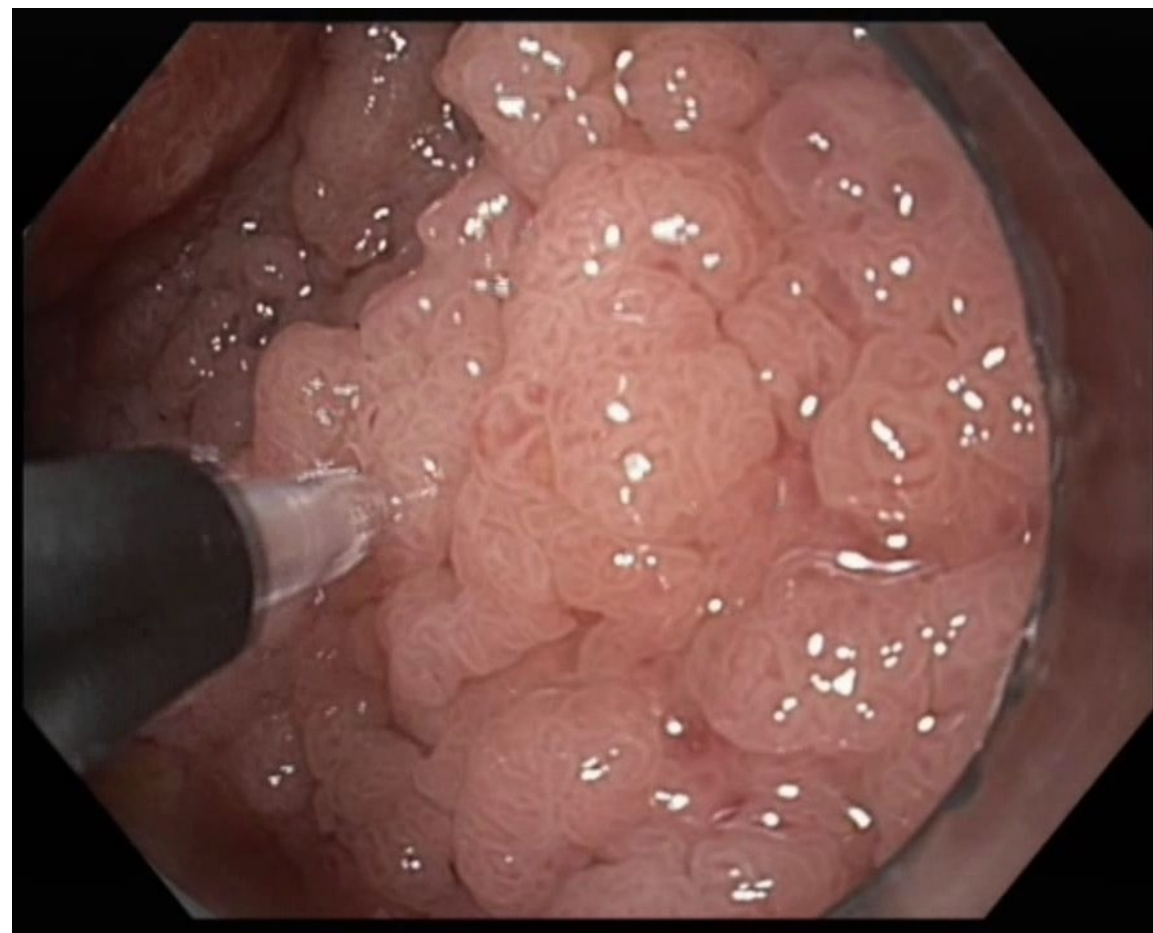




(piecemeal) Endoscopic Mucosal Resection



- ✓ Veilig (emergency surgery < 0.5%)
- ✓ Efficient (>92% technical/clin succes)
- ✓ Relatief goedkoop
- ✓ Relatief eenvoudig en snel
- ✓ Ook voor zeer grote (benigne) lesies





Endoscopische resectie voor complexe poliepen

We recommend the removal of polyps with characteristics of malignancy (suspected deep invasion or suspicion of malignancy) for the removal of polyps with characteristics of malignancy (suspected deep invasion or suspicion of malignancy).

Endoscopic resection is first-line therapy
There is no suspicion of malignancy in these

We suggest that patients with benign polyps undergo surgery without suspicion (GRADE 1B).

RECOMMENDATION
ESGE recommends that polyps without characteristics of malignancy should not be removed endoscopically.

Strong
Alvorens een poliep voor chirurgische resectie te verwijzen op basis van een andere reden dan verdenking op diepe invasie in de submucosa, dient overleg plaats te vinden met een expert endoscopist met aangetoonde ervaring in de verwijdering van complexe poliepen.

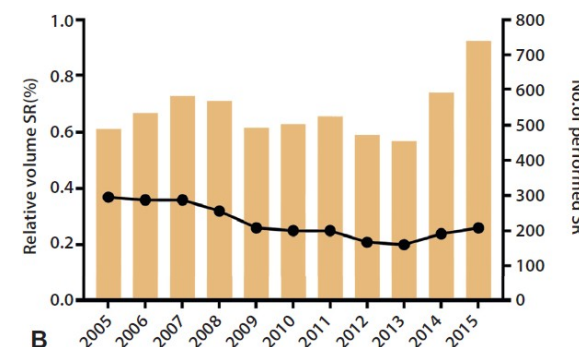
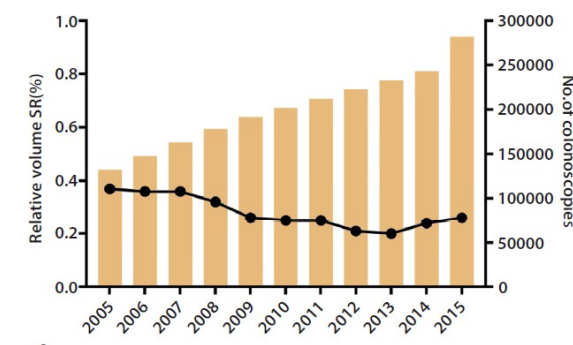


Chirurgie voor benigne colonpoliepen

Volume of surgery for benign colorectal polyps in the last 11 years

Maxime E. S. Bronzwaer, MD,¹ Lianne Koens, MD, PhD,² Willem A. Bemelman, MD, PhD,³
Evelien Dekker, MD, PhD,¹ Paul Fockens, MD, PhD¹; on behalf of the COPOS study group

- Absoluut en relatief volume voor benigne chirurgie **stabiel** 2005-2015:
- > 80% geen poging tot endoscopische resectie
- 2,4% werd verwezen naar gespecialiseerd centrum
- Mortaliteit gemiddeld 1,4%
- Morbiditeit 35 %





Chirurgie voor benigne colonpoliepen

The impact of the national bowel screening program
in the Netherlands on detection and treatment of endoscopically
unresectable benign polyps

C. C. M. Marres¹ · C. J. Buskens² · E. Schriever¹ · P. C. M. Verbeek¹ · M. W. Mundt³ · W. A. Bemelman² ·
A. W. H. van de Ven^{1,2}

- Drievoudige toename chirurgische resecties voor benigne colonpoliepen na invoering BVO

Table 3 Perioperative complications

Complications	<i>N</i> (%)
Perioperative death	2 (2.6)
Complication Clavien–Dindo > 3b	9 (11.8)
Complication Clavien–Dindo < 3b	16 (21.0)
Anastomotic leak	3 (3.9)
Conversion	3 (3.9)
Total	76 (100)



POLIEP ADVIES



| PANEL VOOR COMPLEXE POLIEPEN IN NOORD-HOLLAND



Online tool voor advies t.a.v. behandeling complexe poliepen en vroegcarcinomen via www.poliepadvies.nl



Feedback binnen 5 werkdagen vanuit panel bestaande uit 14 MDL-artsen regio Noord-Holland & Flevoland

Voor meer informatie:

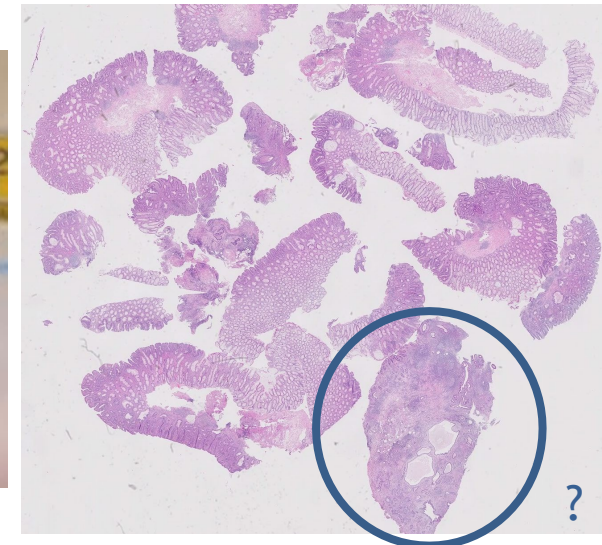
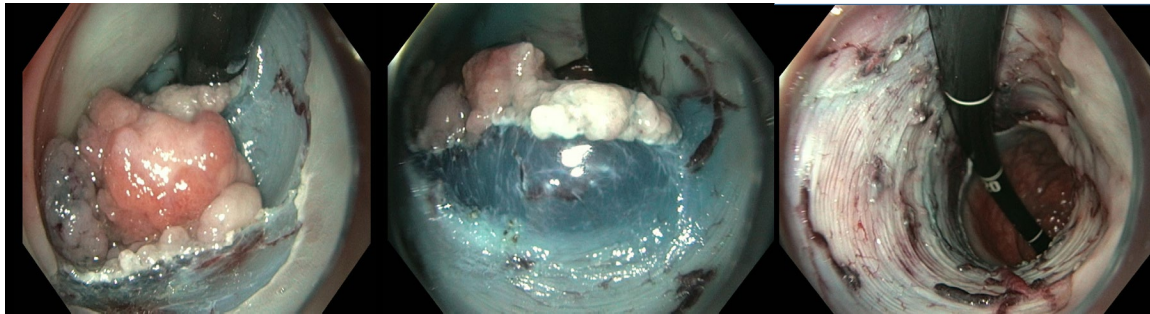
www.poliepadvies.nl

poliepadvies@amsterdamumc.nl



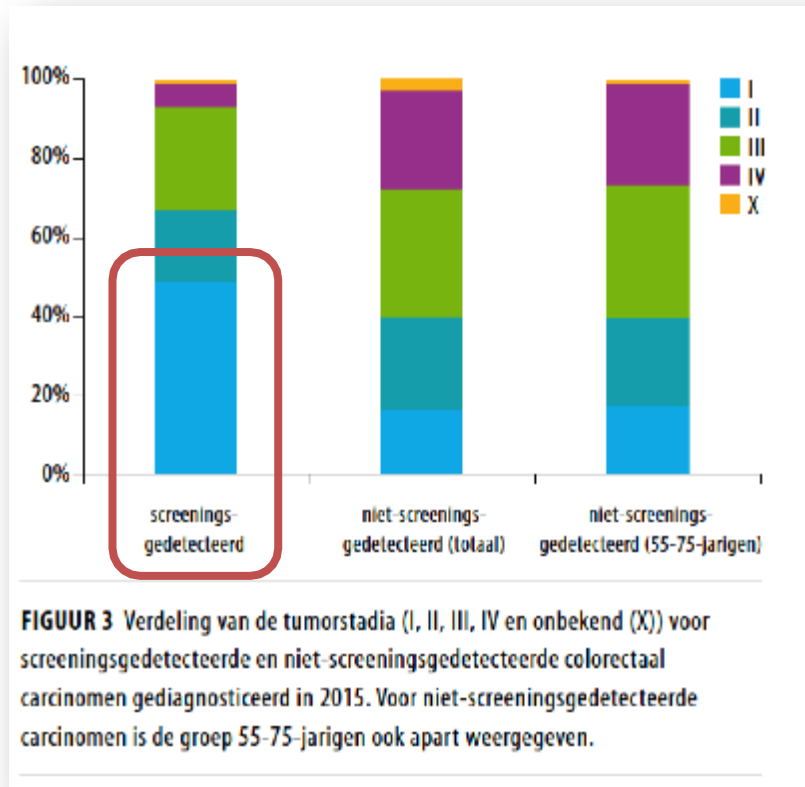
(piecemeal) Endoscopische Mucosale Resectie

- ✓ Veilig (emergency surgery < 0.5%)
 - ✓ Efficient (>92% technical/clin succes)
 - ✓ Relatief goedkoop
 - ✓ Relatief eenvoudig en snel
 - ✓ Ook voor zeer grote (benigne) lesies
- ✗ Kans op recidief 16%
 - ✗ Onverwacht maligniteit 7%
 - ✗ Inadequate histologie
 - ✗ Non curatief in T1CRC !!

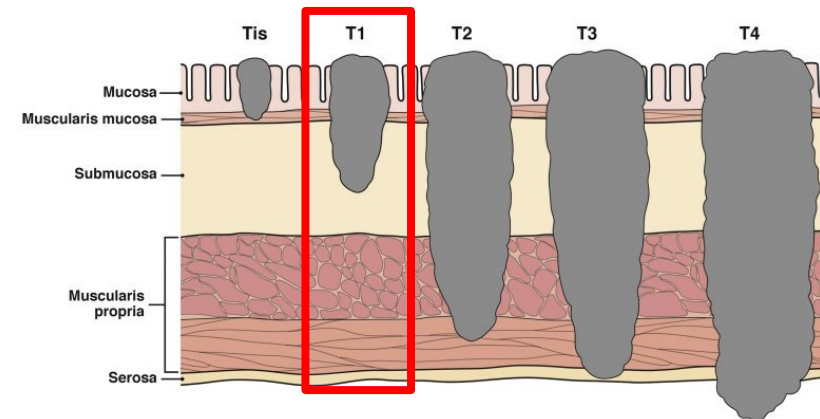




Vroegcarcinoom- T1 CRC



- 30-40% van alle CRC's gevonden in BVO is een T1CRC
- Invasie tot in submucosa
- Overall risico op LNM ~ 8%
- Potentieel endoscopisch/locaal te behandelen





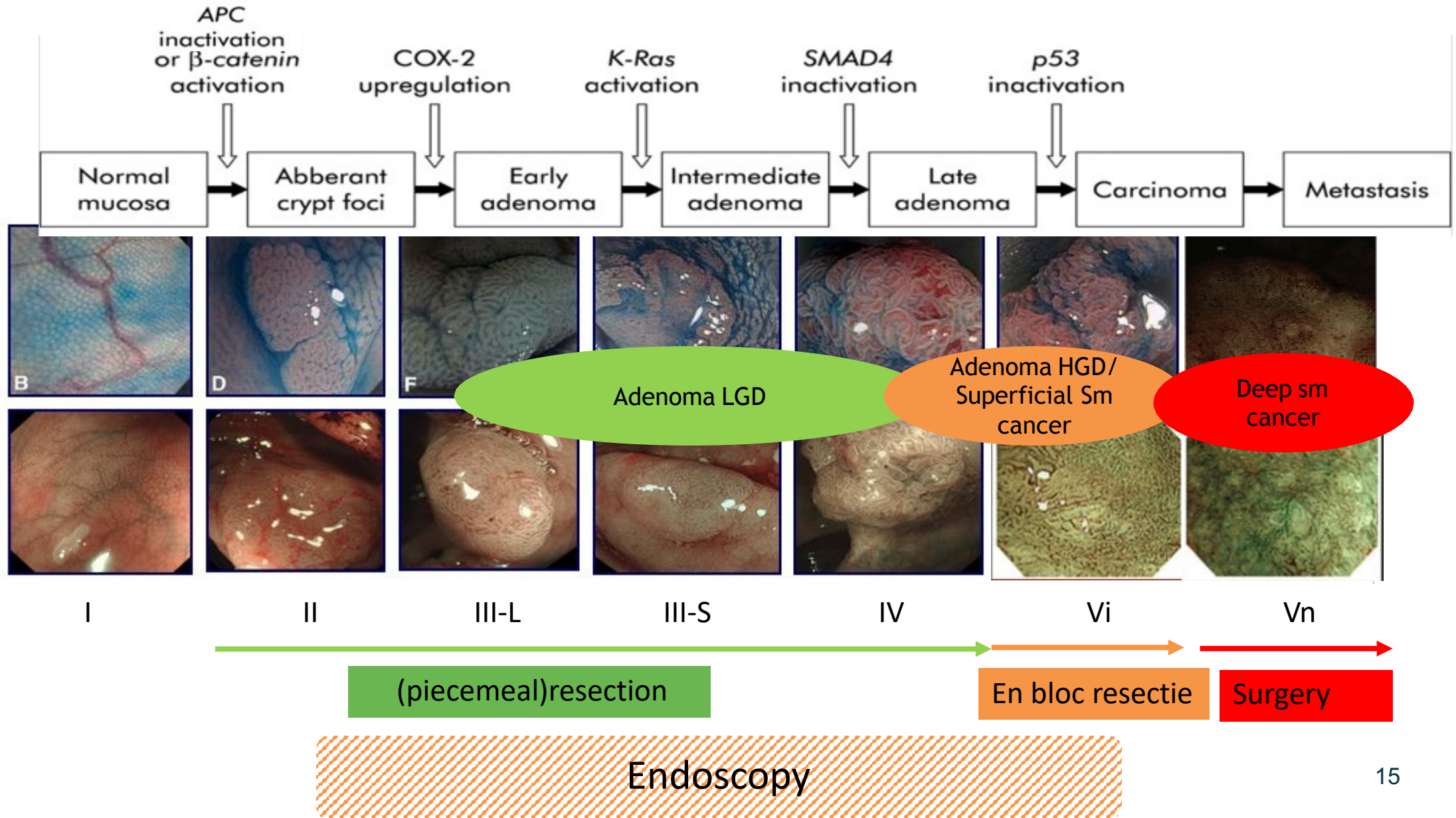
Lokale/endoscopische behandeling volstaat bij laag risico T1 CRC

- Radicaliteit → *en bloc* R0 resectie met marge ≥ 1 mm
- Afwezigheid hoog risico kenmerken:
 - ✓ Diepe submucosale invasie (i.e. $\geq 1000\mu\text{m}$, Sm2-3 or Haggitt 4)
 - ✓ Lymfovasculaire invasie (LVI)
 - ✓ Slechte tumor-differentiatie

**Endoscopische herkenning is
belangrijk!**

Z
F

Optische diagnose- Kudo classificatie





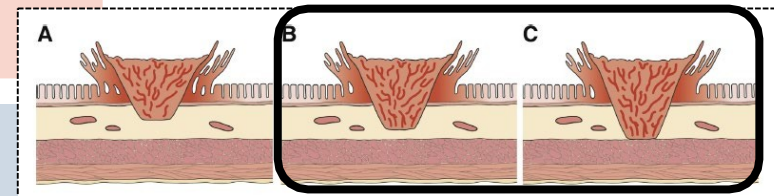
Invasiediepte is zwakke voorspeller voor LNM in T1

- Risico op LNM bij alleen diepe submucosale invasie is 1 - 2 %¹⁻⁵

Study, year		N	Risk for LNM
Suh	2012	118	2 (1,7 %)
Nakadoi	2012	249	3 (1,2 %)

Warning! Nauwkeurige histologische beoordeling noodzakelijk

Yasue	2019	258	4 (1,6 %)
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Rectum is hoog risico voor maligniteit

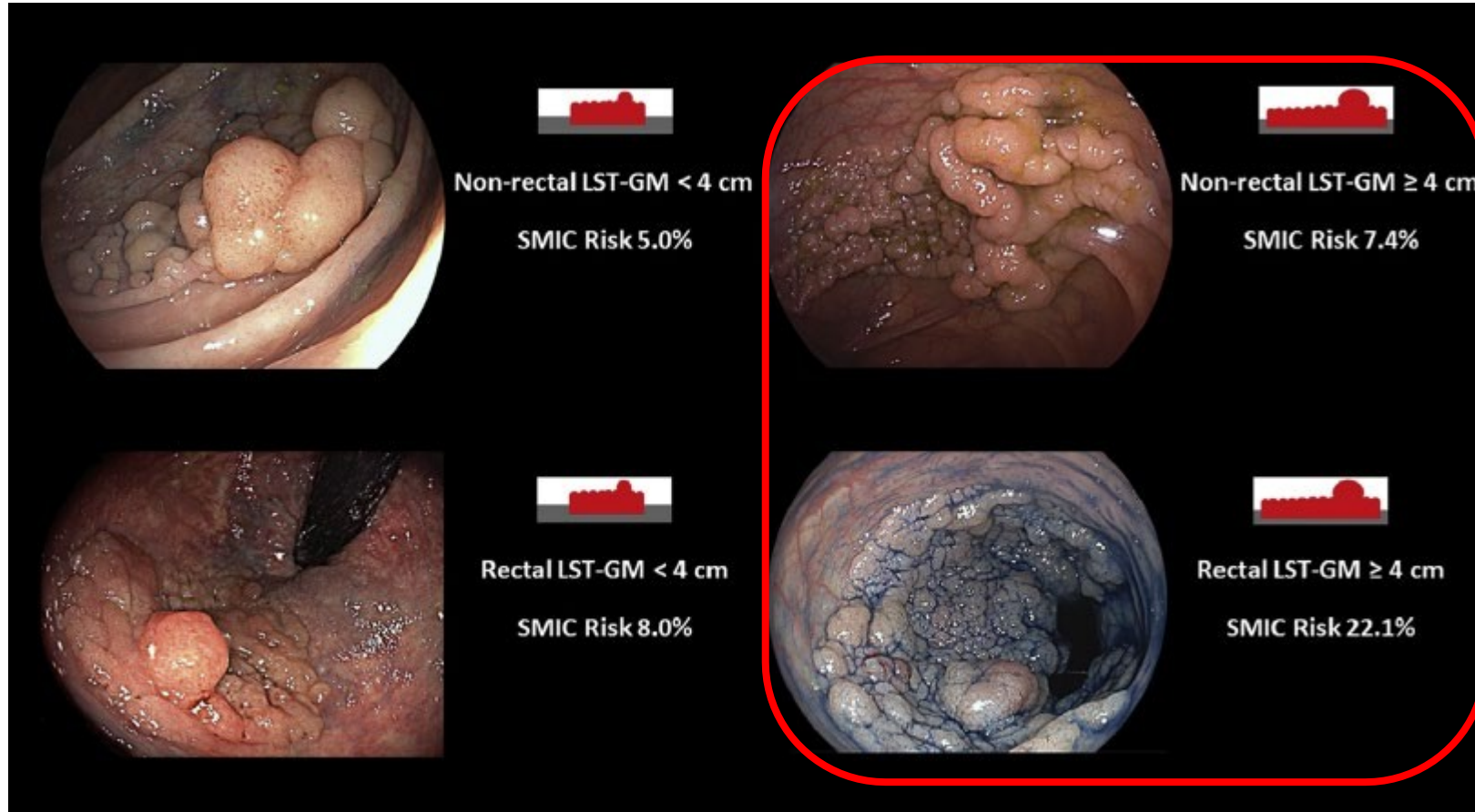
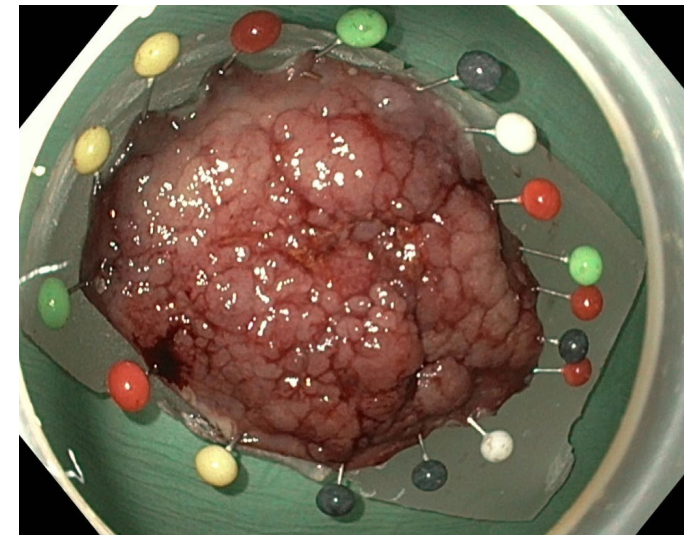
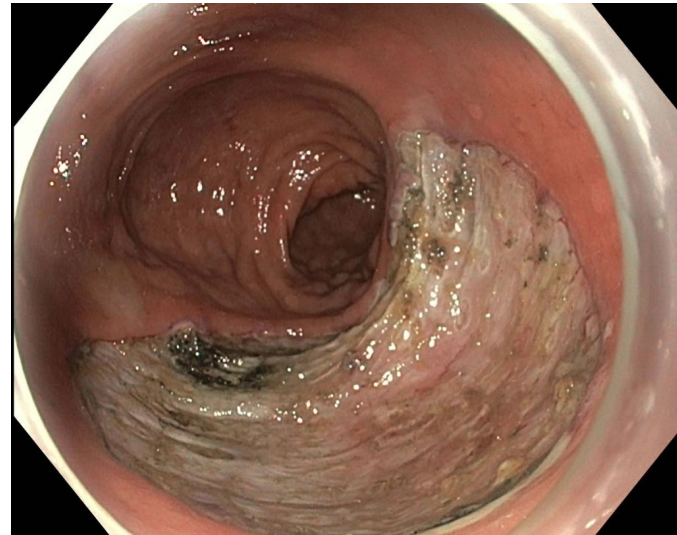
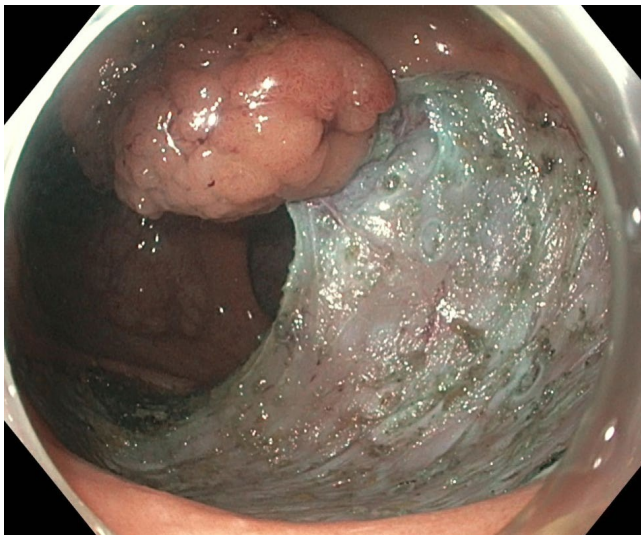
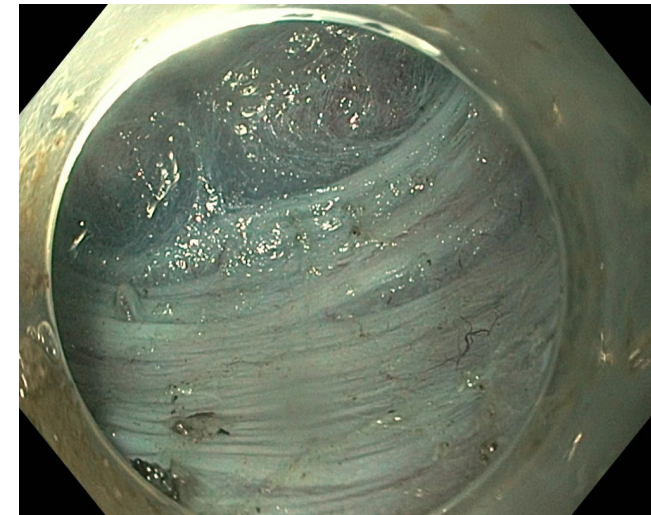
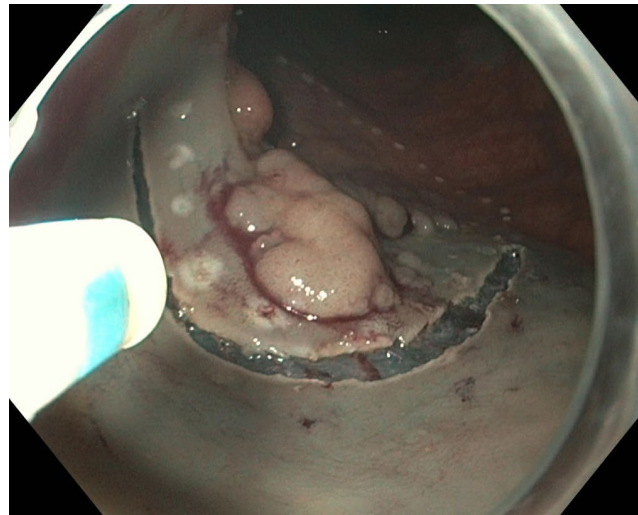
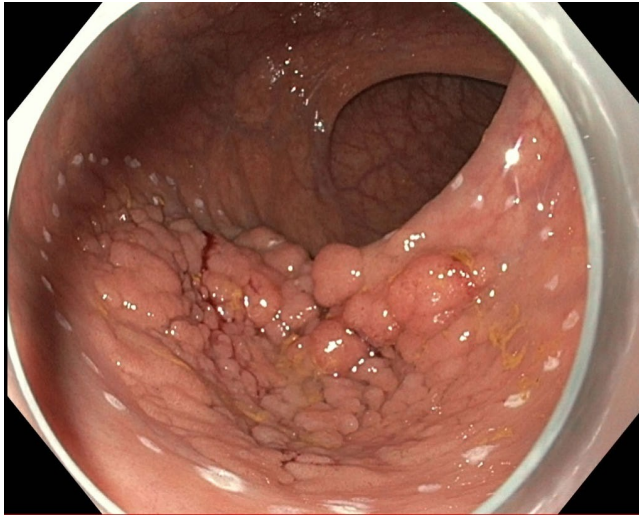


Table 3. Results of the Multivariate Analysis for Detection of Covert SMIC in GM-LSTs

Variable	Adjusted Odds Ratio (95% CI) ^a	P Value
Sex		
Male ^b	1.00	.92
Female	0.98 (0.58–1.65)	
Age, years	0.99 (0.97–1.01)	.23
Lesion size, mm ^c	1.02 (1.01–1.03)	.003
Colonic location of the lesion ^c		
Right colon ^b	1.00	.004
Transverse colon	1.64 (0.51–5.21)	
Left colon	1.82 (0.67–4.99)	
Rectum	3.08 (1.62–5.83)	



Endoscopische Submucosale Dissectie (ESD)

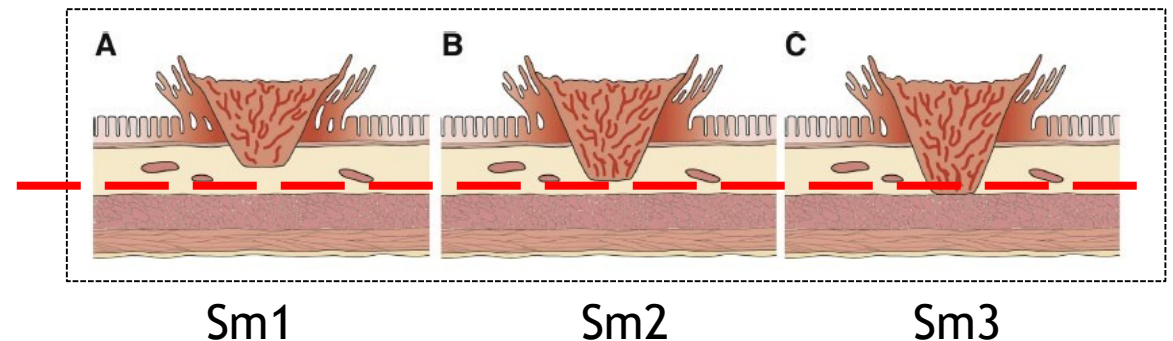
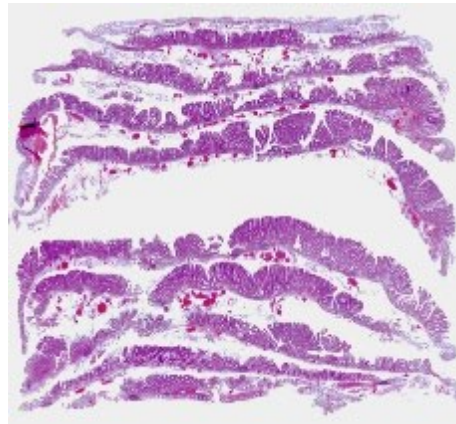
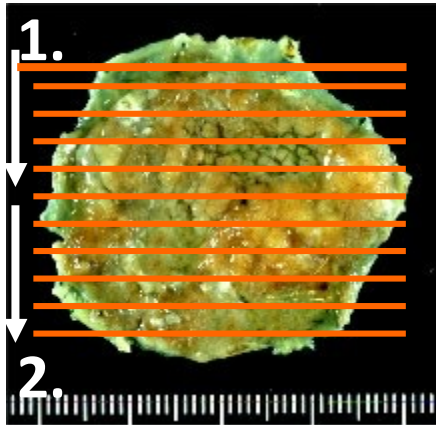




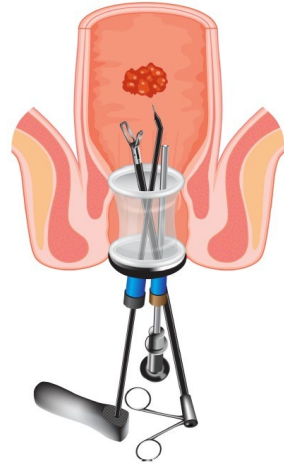
ESD

- ✓ Goede histologische beoordeling
- ✓ Laag recidief 1-2%
- ✓ Curatief voor laag risico T1 CRC
- ✓ En bloc resectie voor poliepen > 2 cm

- ✗ Technisch lastig
- ✗ Lange procedures/duurder dan EMR
- ✗ Meer complicaties dan EMR
- ✗ Weinig ESD experts
- ✗ Alleen geschikt voor oppervlakkige submucosale invasie (T1 Sm1)



TAMIS

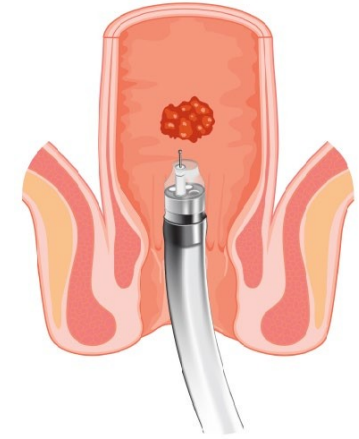


- ✓ High R0 rates > 95%
- ✓ Largely available
- x Expensive
- ✓ Quick
- x Higher recurrence?
- x General anesthesia/complications



vs

ESD



- ✓ High R0 rates > 95%
- x Lack of ESD centers
- ✓ Relative cheap
- x Time consuming
- ✓ Low recurrence rates
- ✓ Deep sedation/ Less complications



TAMIS vs ESD voor grote rectumpoliepen/T1Sm1

THE TRIASSIC STUDY

Multicentre, randomised controlled trial comparing **TR**ansanal minimal **InvA**sive **S**urgery (TAMIS) and endoscopic **S**ubmucosal **dl**isse**C**tion (ESD) for resection of non-pedunculated rectal lesions





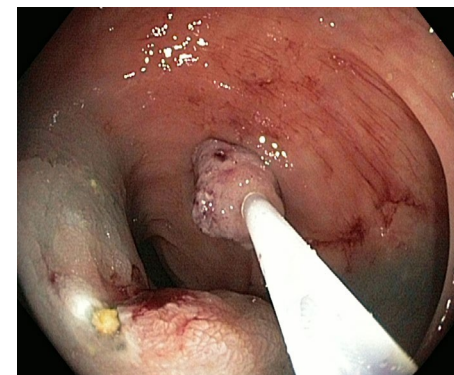
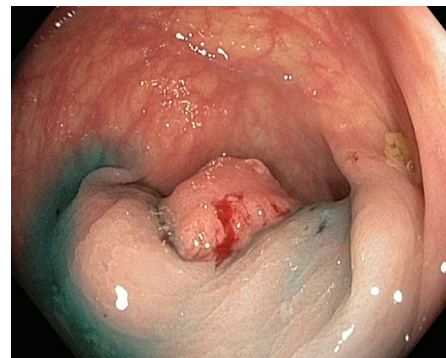
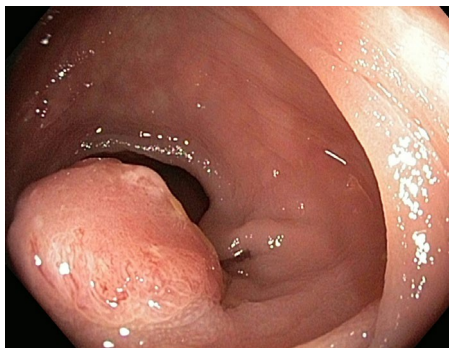
Suboptimale herkenning van T1 CRC

Suboptimal endoscopic cancer recognition in colorectal lesions in a national bowel screening programme

LETTER

Optical diagnosis of T1 CRCs and treatment consequences in the Dutch CRC screening programme

- Tussen de 60-80% van alle T1 CRC niet goed vooraf herkend
- Hierdoor inadequate resectietechniek toegepast (zoals pEMR)
- Ca 44% mist hiermee kans tot endoscopische curatie



Jasper LA Vleugels et al, Gut 2019 ;
Lonne W T Meulen, Gut 2020

Dilemma in T1 CRC



Endoscopie

- ✓ Locoregionaal recurrence
- ✓ Lymphatic spread
- ✓ Cancer related death



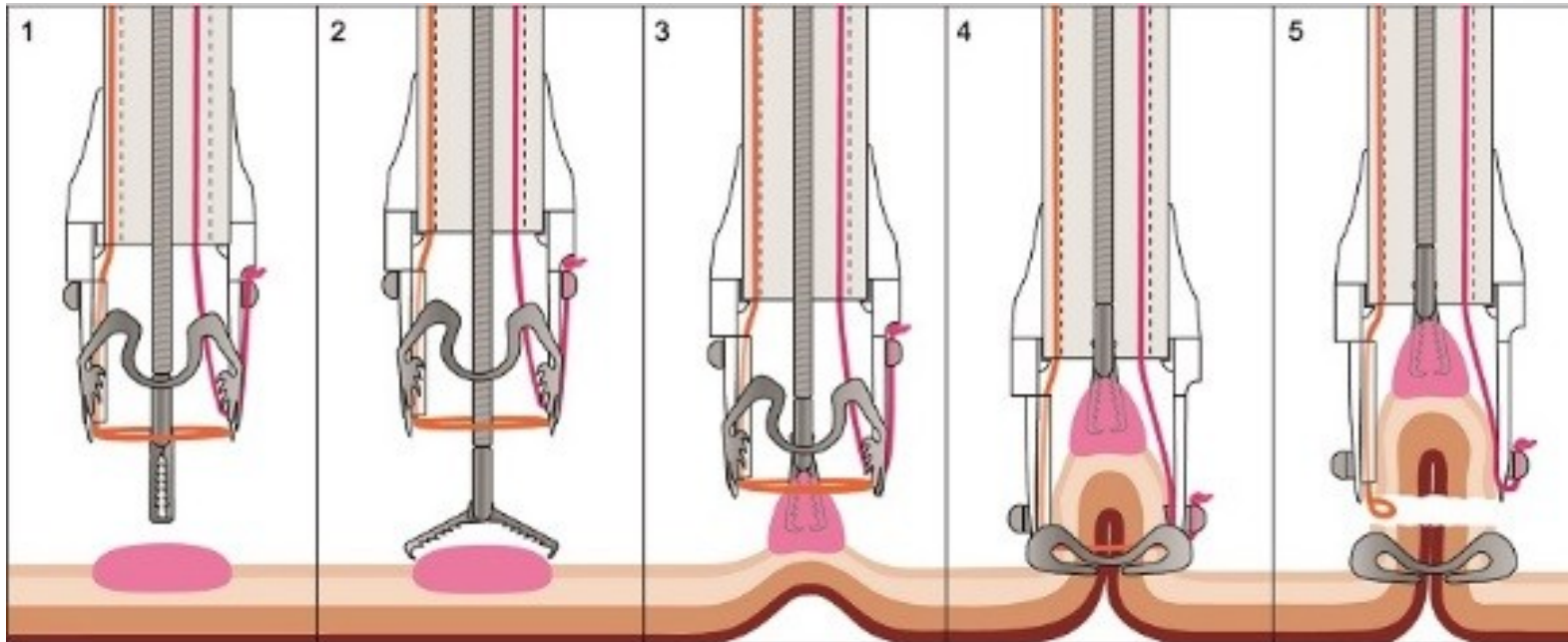
Chirurgie

- ✓ Morbidity
- ✓ Mortality
- ✓ Functional loss

~ 90% chirurgische overbehandeling !

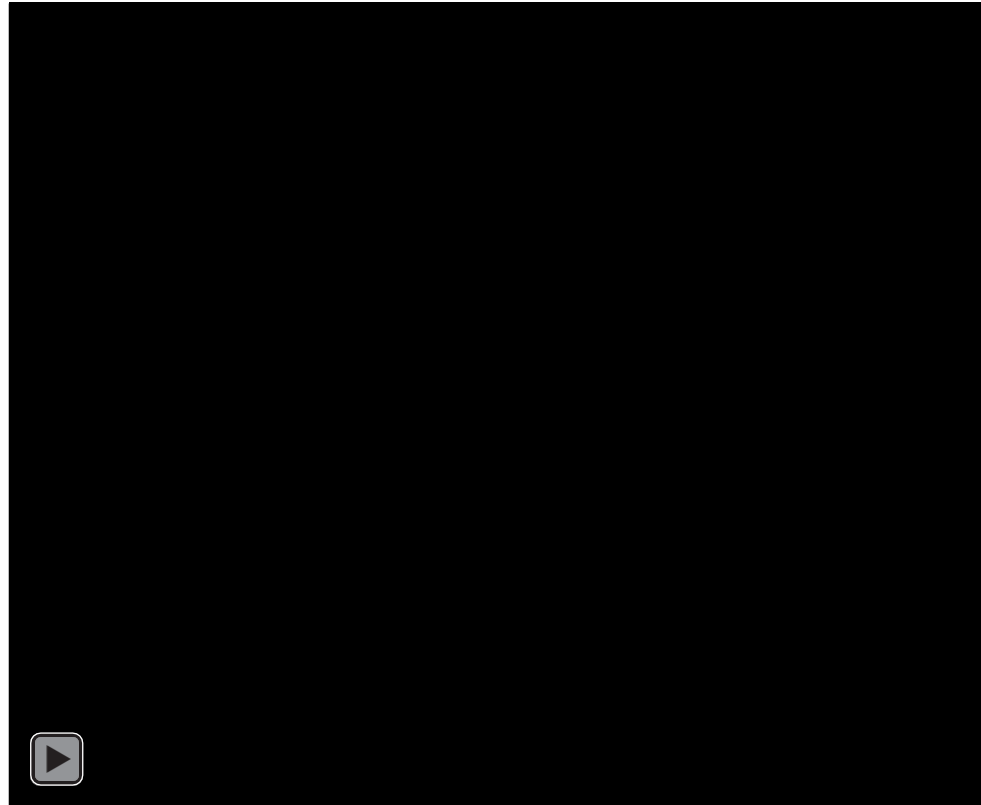


Endoscopische full thickness resection (eFTR)



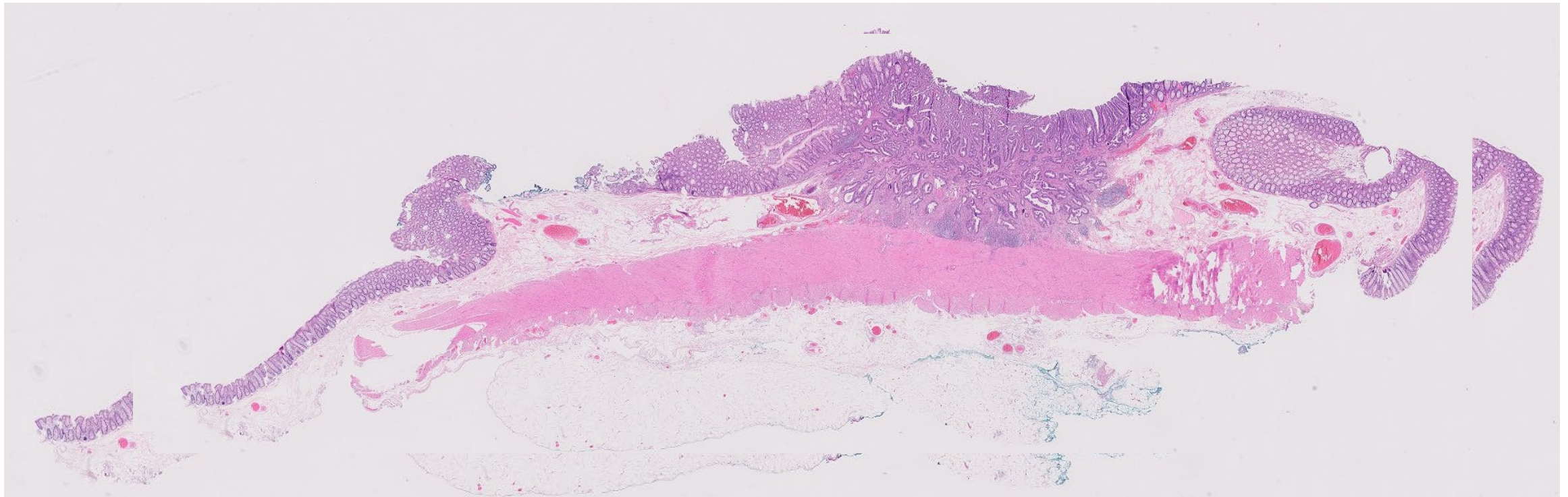
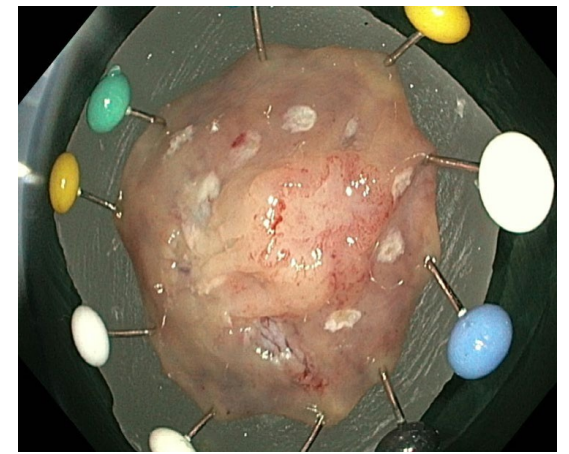


Expanding the horizons..





Histopathologie



Courtesy Dr. Lianne Koens, pathologist
Amsterdam UMC



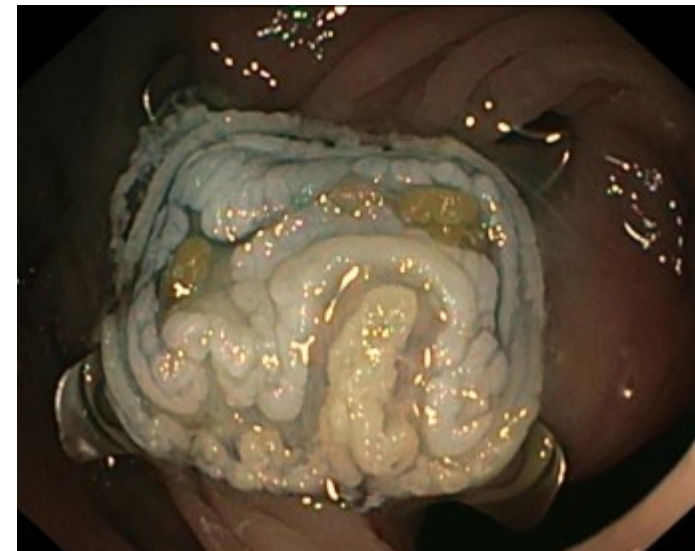
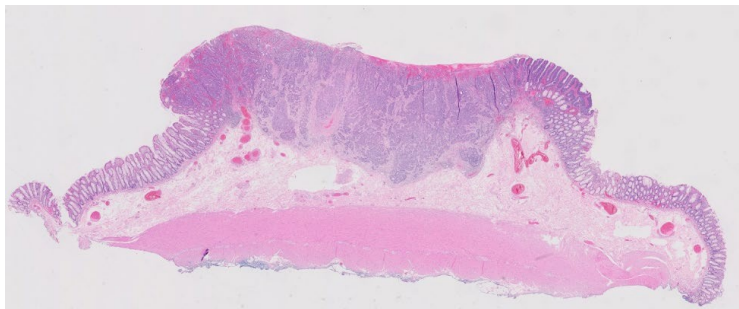
Aanvullende littekenresectie na Rx/R1 resectie





eFTR

- ✓ Optimale histologische beoordeling
 - ✓ Relatief hoog R0 percentage > 80%
 - ✓ Veilige transmurale resectie
 - ✓ Biedt kansen:
 - ✓ R0 bij diepere submucosale invasie
 - ✓ littekenresectie na eerder mogelijk incomplete resectie laag risico T1
- ✗ Alleen kleine lesies geschikt < 2 cm
 - ✗ Kans op late perforatie 1,2 %
 - ✗ Relatief nieuwe techniek, wachten op lange termijnsuitkomsten

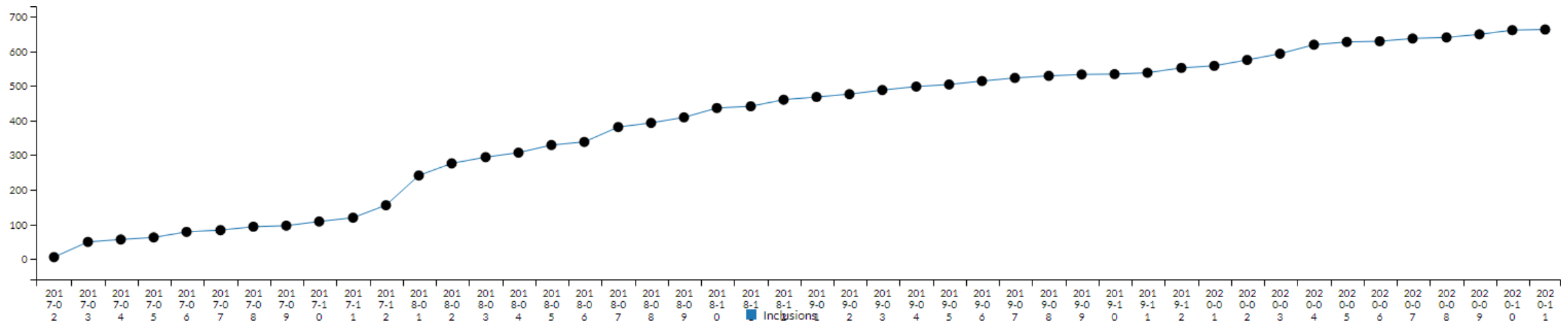




Dutch eFTR registry



- 29 centers
- ~ 700 patients



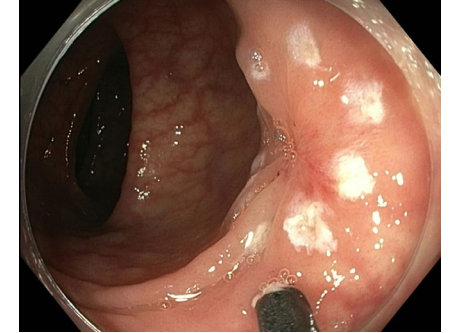
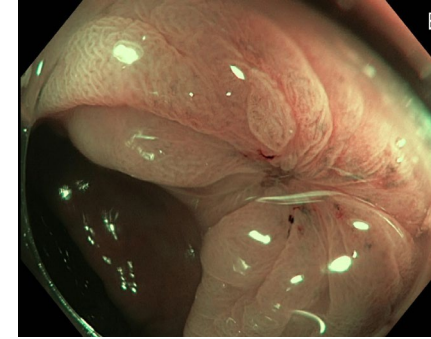
2016

2020



Endoscopic full-thickness resection (eFTR) of colorectal lesions: results from the Dutch colorectal eFTR registry

	Overall	T1 CRCs	Difficult polyps	Subepithelial tumors
Initiated eFTR procedures, n	367	221	133	13
Technical success, n (%)	308 (83.9)	191 (86.4)	105 (78.9)	12 (92.3)
Procedures amenable to eFTR, n ¹	346	211	122	13
Resection, n (%)				
▪ R0	285 (82.4)	186 (88.2)	86 (70.5)	13 (100)
▪ Full-thickness	288 (83.2)	176 (83.4)	100 (82.0)	12 (92.3)
Lesion diameter, median (IQR), mm ²				
▪ Lesion	12 (8 – 17)	13 (9 – 18)	12 (8 – 15)	9 (5 – 15)
▪ Resected specimen	23 (20 – 28)	23 (19 – 27)	23 (20 – 29)	26 (20 – 30)



LOCAL study

“Long-term oncological outcomes of eFTR after previous incomplete resection of low-risk T1 CRC”

- Doel: Oncologische veiligheid vaststellen van aanvullende littekenresectie met eFTR na eerdere incomplete resectie van laag risico T1 CRC
- Prospectieve Nederlandse multicenter cohort-studie
- 5 jaar intensieve follow up
- Voor aanvullende vragen: l.w.zwager@amsterdamumc.nl

Endoscopically resected (piecemeal or *en bloc*) T1 CRC $\leq$ 30 mm

R1 (irradical < 0.1 mm)/Rx (indeterminate) resection margins

Absence of high-risk histological features as poor differentiation, lymphovascular invasion and/or high-grade tumor budding (grade 2 or 3)

No suspect local lymph nodes or distant metastases at staging CT and MRI rectum in case of a rectal tumor

eFTR procedure for the re-resection of the scar/remnant lesion



Take home



- Endoscopie is **gouden** standaard voor > 90% van alle grote benigne colonpoliepen
- Regionale netwerken van belang voor optimale behandeling: Poliepadvies.nl
- Bij verdenking op T1 CRC is radicale en bloc resectie key
 - > in eerste instantie altijd diagnostisch!
- Locatie in rectum is hoog risico op onverwacht T1 → en bloc ESD/TAMIS
- eFTR vergoot het endoscopisch bereik:
 - Diagnostische/therapeutische resectie T1 CRC < 2 cm
 - Optimale histologie
 - Aanvullende littekenresectie na incomplete resectie T1 CRC
- Weeg risico's en benefits altijd af op MDO en samen met de patiënt

