



LA POLIPECTOMIA A FREDDO: UNA METODICA DI SEMPRE MAGGIOR DIFFUSIONE

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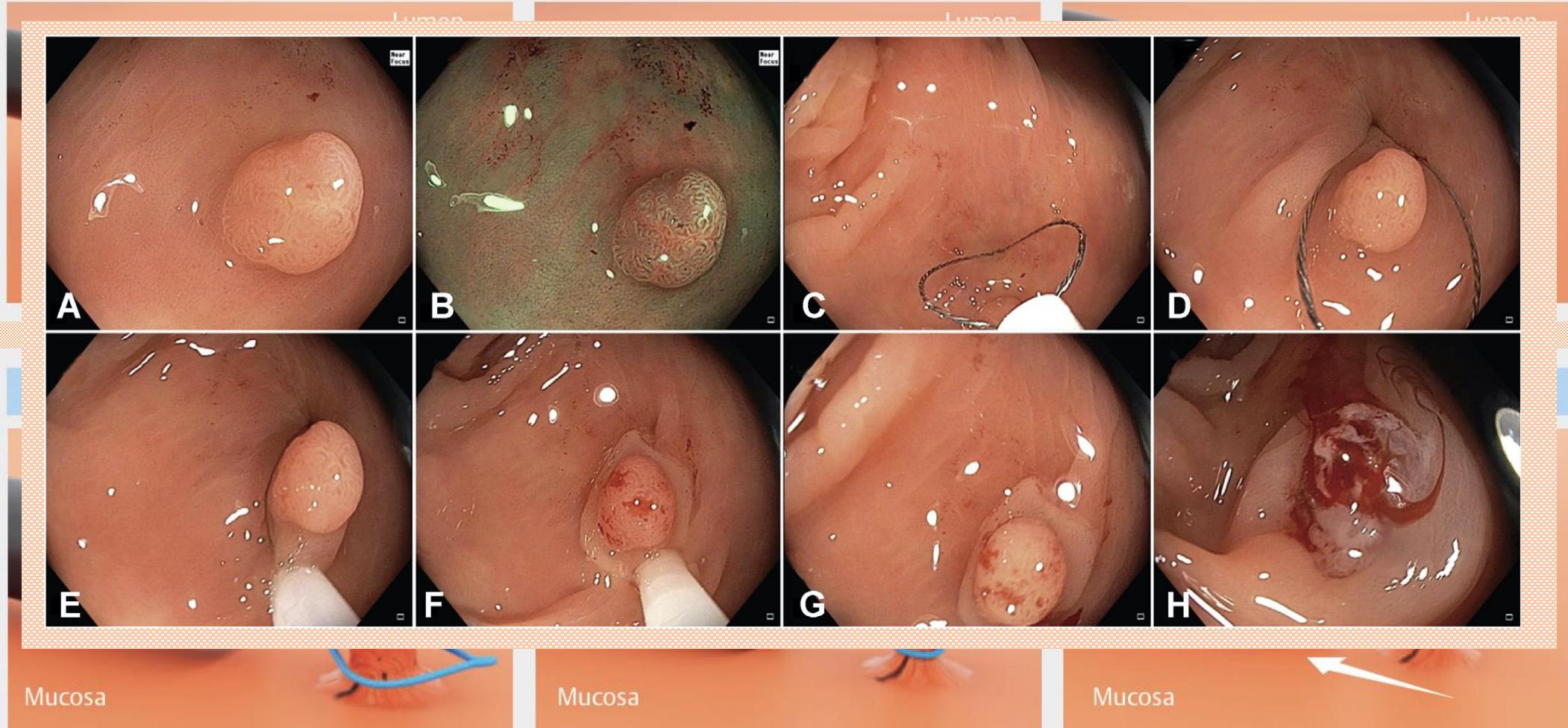
Cold snare excision of small colorectal polyps

Gianfranco Tappero MD ⁸, Ezio Gaia MD, Paolo De Giuli MD, Sabina Martini MD, Luciano Gubetta MD, Giorgio Emanuelli MD

COLD
Revolution



Cold snare polypectomy





BREAKING NEWS

BREAKING NEWS
BREAKING NEWS

Colorectal polypectomy and endoscopic mucosal resection: European Society of Gastrointestinal Endoscopy (ESGE) Guideline – Update 2024



Ferlitsch M, *Endoscopy* 2024

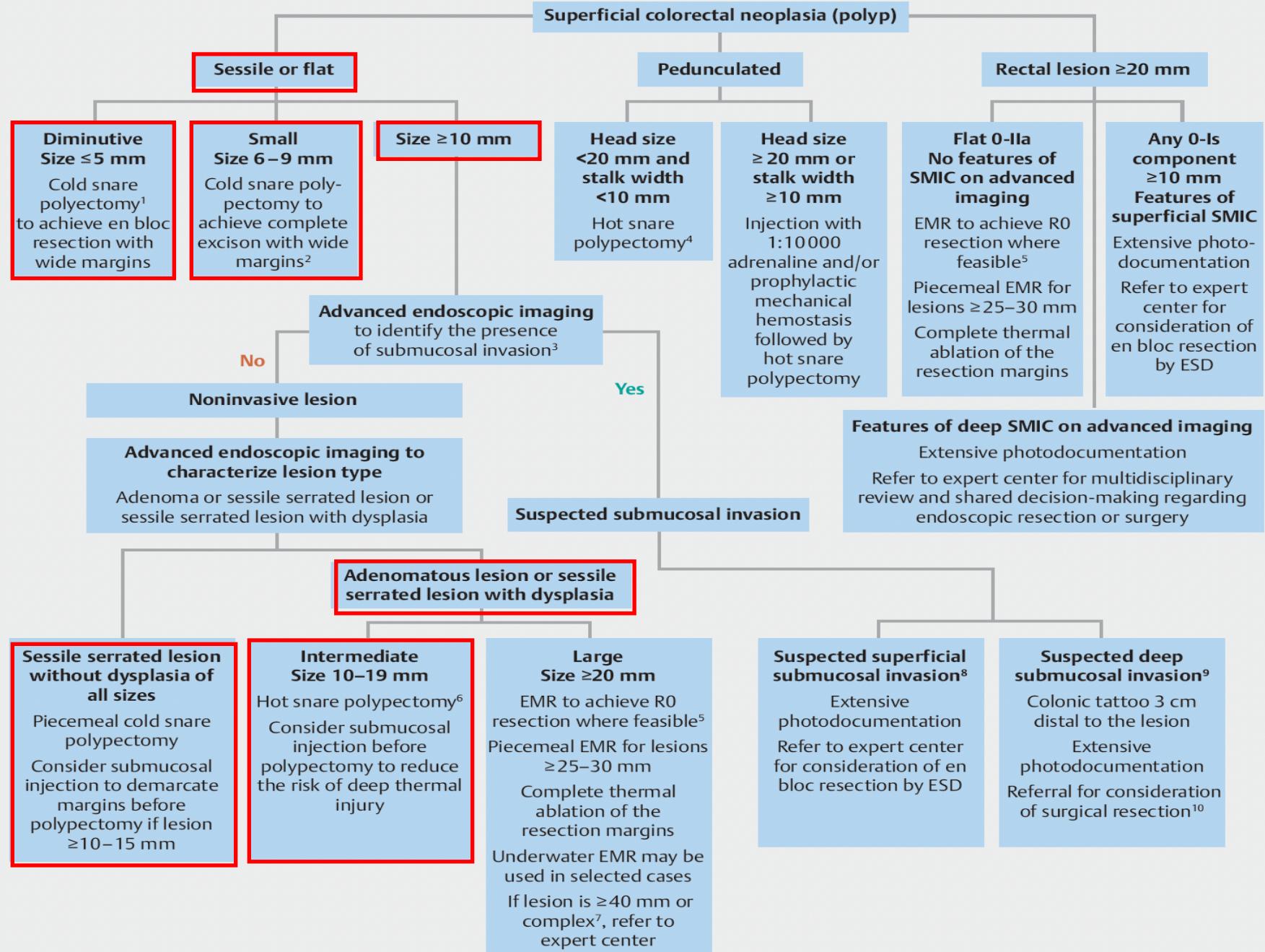
Clinical Gastroenterology and Hepatology 2024;22:470–479

CLINICAL PRACTICE UPDATES

AGA Clinical Practice Update on Appropriate and Tailored Polypectomy: Expert Review



Andrew P. Copland,¹ Charles J. Kahi,² Cynthia W. Ko,³ and Gregory G. Ginsberg⁴



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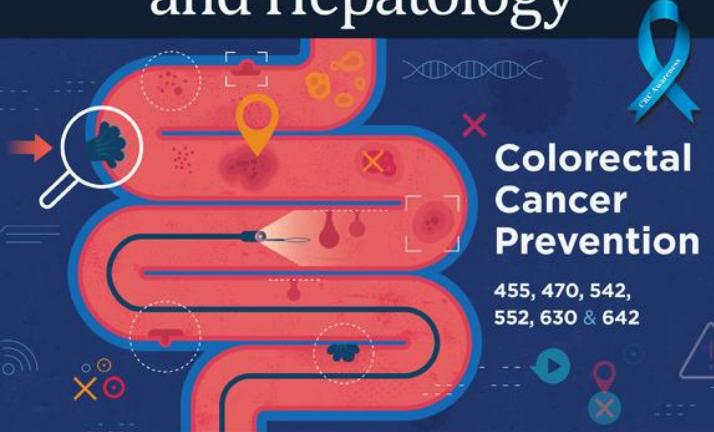
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American
Gastroenterological
Association

Use cold snare polypectomy for polyps <10 mm in size. Cold forceps polypectomy can alternatively be used for 1- to 3-mm polyps where cold snare polypectomy is technically difficult.

Do not use hot forceps polypectomy.

Clinicians should be familiar with various techniques, such as cold and hot snare polypectomy and endoscopic mucosal resection, to ensure effective, safe, and optimal resection of intermediate-size polyps (10–19 mm).

Consider using lifting agents or underwater endoscopic mucosal resection for removal of sessile polyps 10–19 mm in size.

Serrated polyps should be resected using cold resection techniques. Submucosal injection may be helpful for polyps >10 mm if margins cannot be well delineated.

POLIPI DIMINUTIVI <=5 mm

CFP vs CSP

- Per lesioni <=3 mm stesso tasso di eradicazione completa: 92,1% - 98%
- per lesioni <= 4 mm, CSP dimostra una significativamente più elevata percentuale di resezione en bloc
- In un ampio studio osservazionale si dimostra la sicurezza ed efficacia di entrambe le tecniche di resezione con asportazione completa pari a 99,4 %; ma analisi multivariata dimostra che l'asportazione con pinza di polipi > 3 mm ha un rischio significativamente più elevato di recidiva a 1 anno di follow-up

Huh CW, GIE 2019

Wei MT, AJG 2022

Kuwai T, Endoscopy 2019



PICCOLI POLIPI 6-9 mm

CSP vs HSP

- Elevato tasso di resezione completa tra CSP e HSP: 98,2% vs 97,4% (non inferiority $P < .0001$).
- Tasso di resezione incompleta: IRR < 2 % (1,8% vs 2,6%)
- Bassa percentuale di sanguinamento post-procedura (0-0,1 %), bassa frequenza di PPS
- Minore tempo per la procedura (18 vs 25 min; $P < .0001$)

Kawamura T, Gut 2018

Shinozaki S, Dig. Endosc 2018

Horiuchi, GIE 2014

Chang LC, Ann Intern Med 2023

Belderop T, UEGJ 2017

- ✓ *CSP è equivalente per EFFICACIA a HSP*
- ✓ *CSP è superiore per SICUREZZA a HSP*
- ✓ *IRR rimane il problema principale sia per CSP che per HSP (1,8%-8,5% vs 2.6%-3,7%)*

Dwyer J, Endosc Int Open 2017

Horiuchi A, GIE 2015

Tate DJ, Endoscopy 2018

*Fattori che possono contribuire a migliorare IRR
dopo CSP:*

- *Utilizzo di anse dedicate: sottili monofilamento*
- *Acquisizione di un margine di tessuto normale
intorno al polipo resecato (almeno 2 mm)*
- *Valutazione dei margini di resezione dopo
asportazione della lesione*

Hewett DG, GIE 2015

Abe Y, Endosc Int Open 2018

Tutticci NJ, Gastrointest Endosc Clin N Am 2019



A Randomized Controlled Trial of Cold Snare Polypectomy Technique: Technique Matters More Than Snare Wire Diameter

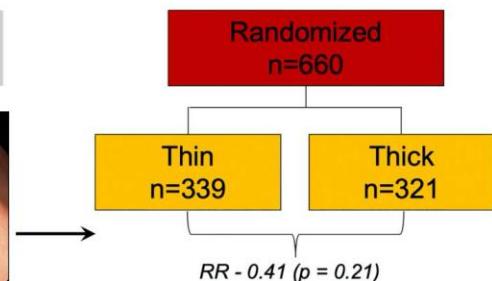
A randomized trial of cold snare polypectomy technique

VOLUME 117 | JANUARY 2022

CSP is recommended for small ($\leq 10\text{mm}$) colorectal polyps, however rates of incomplete resection (IRR) vary



Snare design has been hypothesized to reduce IRR, but studies to date are contradictory



CSP for small colorectal polyps can achieve very low IRR, independent of snare design

Technique	HSP	CSP
Lesion orientation	6 o'clock	6 o'clock
Extent of tissue capture	Minimized (adapted to the size of the target lesion to minimize the risk of DMI)	Maximized/unlimited (extended beyond the target lesion to ensure margin of normal tissue and achieve complete resection)
Snare pressure on mucosal surface	Minimal (tent away from the mucosa to minimize the risk of DMI and transmural thermal injury)	Maximal (firm downward pressure using the up/down wheel to ensure adequate tissue capture)
Speed of transection	Fast (to minimize unnecessary mural thermal injury)	Not critical, but avoid rapid snare closure to ensure adequate seating of the snare into the surrounding normal mucosa during closure
Primary method of transection	Diathermy/partly mechanical	Mechanical
Depth of excision	Submucosa (6%–20%) (34)	Muscularis mucosa (common, ~ 60%) Submucosa (uncommon, ~ 7%)
Defect		
Protrusion	Nil	Yes (common)
Examining for residual adenoma	Challenging, limited due to diathermy-related tissue artefact	Detailed examination by using water pump to expand the defect and evert margins
Extending defect margin	Not recommended	Recommended if any suspected residual adenoma
Method of extending defect margin	EMR	CSP (piecemeal)

	Thin (n = 339)	Thick (n = 321)	Total (N = 660)	P
Complete endoscopic resection, n (%)	339 (100)	321 (100)	660 (100)	—
Complete excision at first attempt, n (%)	316 (93.2)	303 (94.4)	619 (93.8)	0.53
Endoscopic cold snare protrusion, n (%)				
Yes	85 (25.1)	104 (32.4)	189 (28.6)	0.04
Specimen not retrieved, n (%)	0 (0)	1 (0.3)	1 (0.2)	—
Margin biopsy, n (%)	339 (100)	320 (99.8)	659 (99.8)	654 (99.1)
IRR, n (%) ^a	3/339 (0.9)	6/320 (1.9)	9/654 (1.4)	0.28
Histopathology, n(%) ^a				
Hyperplastic	41 (12.1)	45 (14.1)	86 (13.1)	—
TA	210 (61.9)	184 (57.3)	394 (59.7)	—
TVA	7 (2.1)	3 (0.9)	10 (1.5)	0.43
SSL	35 (10.3)	33 (10.3)	68 (10.3)	—
Other	46 (13.6)	55 (17.2)	101 (15.3)	—
Dysplasia, n(%) ^a				
None	127 (37.5)	129 (40.3)	256 (38.8)	—
Low-grade	212 (62.5)	189 (58.9)	401 (60.8)	0.24
High-grade	0 (0)	2 (0.6)	2 (0.3)	—
Adverse events, n (%)				
IPB	1 (0.3)	2 (0.6)	3 (0.5)	0.53
Deep mural injury ^b	0 (0)	0 (0)	0 (0)	—
PPB	0 (0)	0 (0)	0 (0)	0.33
Delayed perforation	0 (0)	0 (0)	0 (0)	—

IRR, incomplete resection rate; IPB, intraprocedural bleeding; PPB, postpolypectomy bleeding; SSL, sessile serrated lesion; TA, tubular adenoma; TVA, tubular villous adenoma.
^aPercentage calculated from retrieved specimens only.
^bSydney DMI Classification.²⁹





- IRR < 2 %
- Stesso IRR sia con uso di anse sottili che spesse
- Resezione istologica completa per singolo endoscopista è > 98%

TECNICA ENDOSCOPICA OTTIMIZZATA

- 1- LA SISTEMATICA ACQUISIZIONE DI TESSUTO SANO INTORNO ALLE LESIONI (2 mm)
- 2- LA METICOLOSA ISPEZIONE DEI MARGINI DELLA LESIONE DOPO ASPORTAZIONE CON CSP

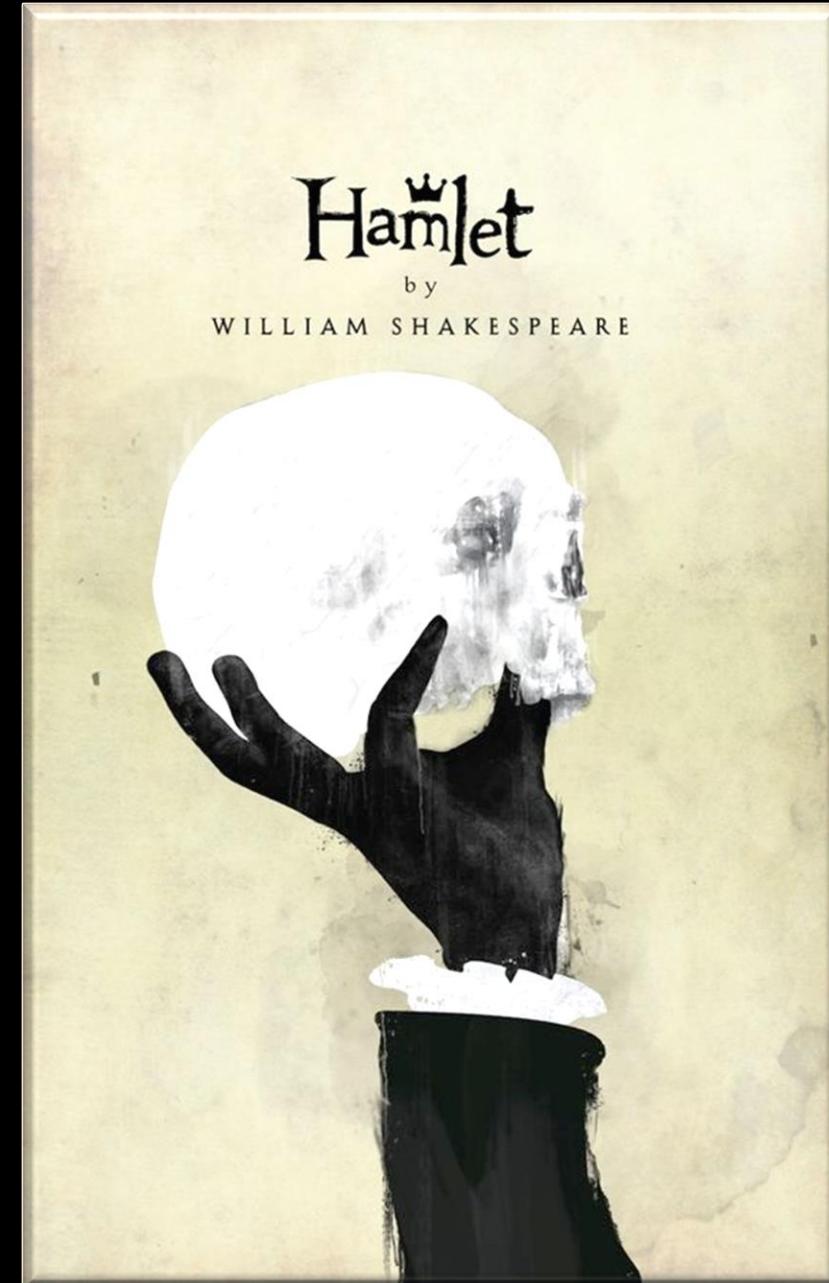


RECOMMENDATION

ESGE recommends including a clear margin of normal tissue (1–2 mm) surrounding the polyp.
Strong recommendation, high quality of evidence.

Larger Polyps > 10 mm

*To heat
or
not to heat?*



HOT

PRO

CON

- Resezione più facile per tessuti di maggiore spessore
- Prevenzione del sanguinamento per rapida coagulazione vascolare
- Ablazione del tessuto ai margini della resezione



Danno termico di parete:

- Sanguinamento ritardato
- perforazione
- sindrome post-polipectomia

IRR = 17,3 %

per polipi sessili 10-20 mm

«CARE study»: Pohl H, Gastroenterol 2013

Endoscopic Mucosal Resection



EMR achieves complete endoscopic resection in 99.5% of the cases

Russo P, Endosc Int Open 2019



New benchmark for adenoma recurrence post EMR: 5,2%

Klein A, Gastroenterology 2019



Intra-procedural bleeding rates after EMR of polyps >10 mm is reported to be as high as 7.7%

Russo P, Endosc Int Open 2019



Perforation is an uncommon but serious event after EMR: 1%–2%.

Russo P, Endosc Int Open 2019



Post-EMR bleeding after resection of polyps ≥ 20 mm was 6%, of which 55% were managed conservatively

Burgess NG, Clin Gastroenterol Hepatol 2014

Lee SH, Clin Endosc. 2014

ESGE Guideline 2024

HPS è lo standard of care per la rimozione di polipi adenomatosi non peduncolati di dimensioni tra 10-19 mm, con o senza iniezione sottomucosa

pCSP è raccomandata per la rimozione di lesioni sessili serrate (SSLs), senza displasia di dimensioni tra 10-19 mm; l'iniezione sottomucosa può essere proposta per facilitare la resezione del tessuto e delineare meglio i margini

Prendere in considerazione la pCS EMR per adenomi piatti attentamente selezionati di 10-19 mm (LNPCPs granulari omogenei), soprattutto del colon dx e specialmente in caso di importanti comorbidità

HSP per la rimozione di SSLs con displasia con resezione en bloc

*AGA Clinical practice Update on
Appropriate and Tailored Polypectomy:
Expert Review*

Clinicians should be familiar with various techniques, such as CSP and HSP and EMR, to ensure effective, safe and optimal resection of intermediate-size polyps (10-19 mm)

**BEST PRACTICE
ADVICE 4:**

SSLs should be resected using COLD resection techniques. Submucosal injection may be helpful for polyps > 10 mm if margin cannot be well delineated

**BEST PRACTICE
ADVICE 6:**

COLD-EMR

EFFICACY

- ✓ Complete resection rate by CSP of 99.3 %
- ✓ Recurrence rate 4.1%
- ✓ Recurrence rates were higher in polyps ≥ 20 mm (15.4%) and adenomas (11.1% vs 1.0% for SSLs), but are comparable to reported recurrence rates of hot EMR



Thoguluva Chandrasekar V,
Gastrointest Endosc 2019

SAFETY

- ✓ Remarkably low adverse event rate
- ✓ Even in larger polyps, most single-arm studies report adverse event rates close to 0%
- ✓ The CSP perforation rate was 0% in all studies due to the lack of thermal wall injury.
- ✓ cold EMR was associated with significantly lower rates of PPB (0% vs. 2.3%, p = 0.03)

Thoguluva Chandrasekar V,
Clin Gastroenterol Hepatol 2020

Original article

Effectiveness and safety of cold snare polypectomy and cold endoscopic mucosal resection for nonpedunculated colorectal polyps of 10-19mm: a multicenter observational cohort study

Mangira D, Endoscopy 2023

EFFICACY

- Residual polyp tissue on biopsies: 7/350
- IRR = 2 %
- Submucosal injection prior to resection and fewer pieces per polyp resection were associated with a reduced risk of incomplete resection
- Completed SC1: 229/350 (65,4%)
- Recurrent Rate = 1,7 %

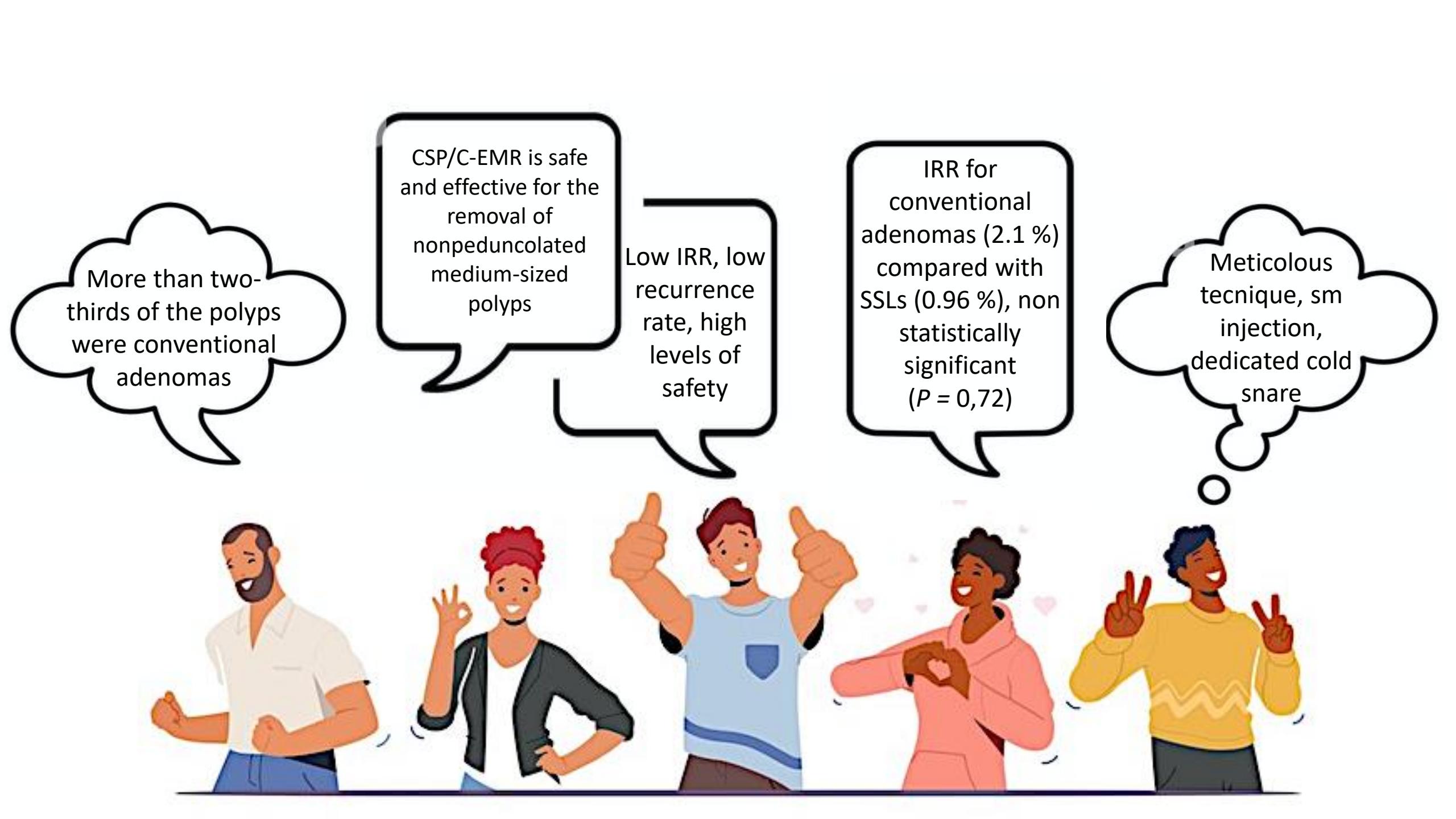
SAFETY

- AEs
 - $10/295 = 3,4 \%$
 - 1 intraprocedural event (0.34 %): Bleeding
 - 3 immediate post-procedural events (1 %): abdominal pain
 - 6 delayed post-procedural events (2 %): PPS, abdominal pain, delayed bleeding

Prospective multicenter cohort study

- 350 nonpedunculated polyps of 10–19 mm removed with a cold snare (with or without submucosal injection)
- 69% adenomas, 30% sessile serrated lesions





More than two-thirds of the polyps were conventional adenomas

CSP/C-EMR is safe and effective for the removal of nonpedunculated medium-sized polyps

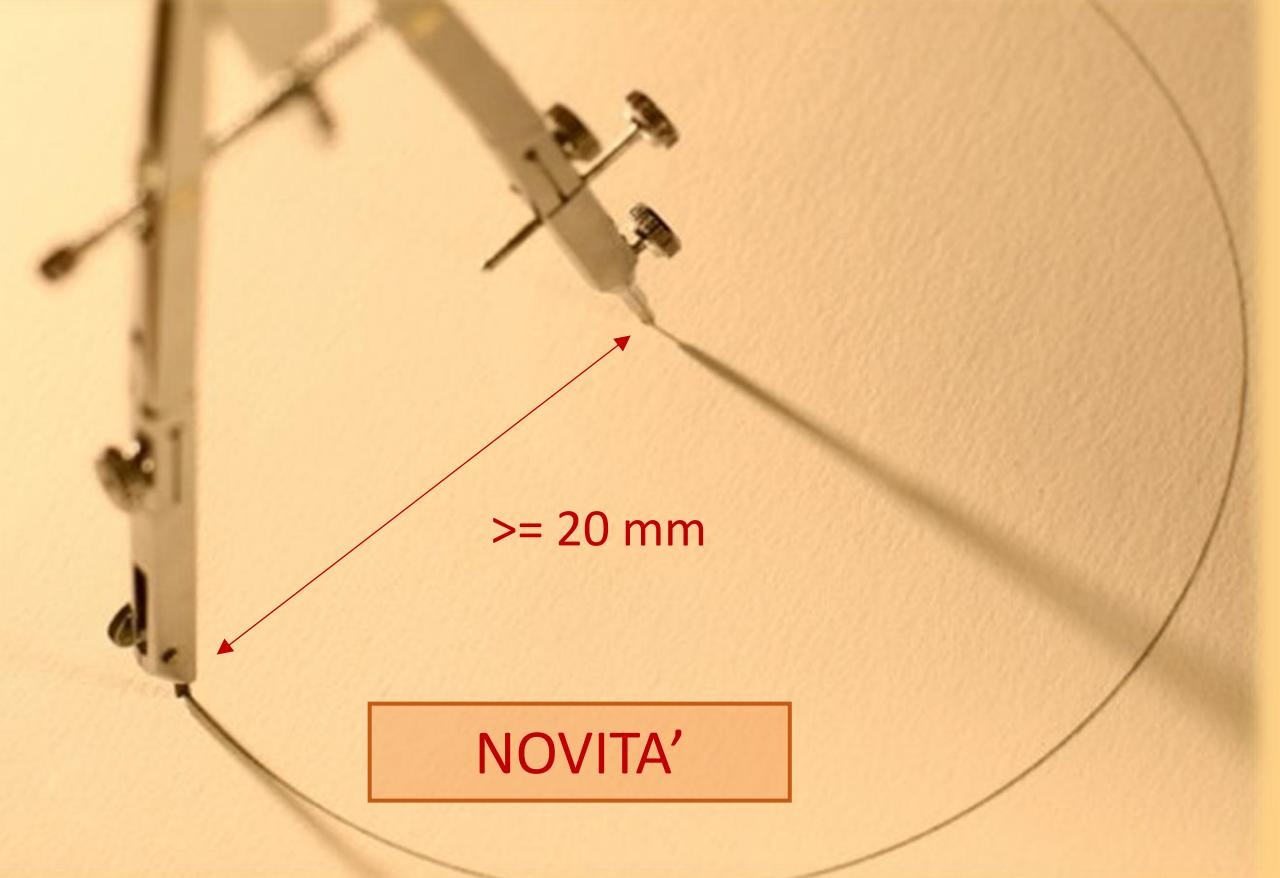
Low IRR, low recurrence rate, high levels of safety

IRR for conventional adenomas (2.1 %) compared with SSLs (0.96 %), non statistically significant ($P = 0,72$)

Meticulous technique, sm injection, dedicated cold snare

CHE COSA SAPPIAMO?

- EMR è lo *standard of care* per lesioni di dimensioni ≥ 10 mm ma presenta un rischio evidente di eventi avversi, incluso un sanguinamento post-procedura e deep mural injury
- In confronto con EMR convenzionale, C-EMR è sicura ed efficace per asportazione di lesioni di medie dimensioni < 20 mm



RECOMMENDATION

ESGE recommends piecemeal cold EMR for SSLs of ≥ 20 mm without suspected dysplasia.

Strong recommendation, moderate quality of evidence.

RECOMMENDATION

A suspected area of dysplasia within a large SSL should be resected en bloc by hot EMR.

Strong recommendation, moderate quality of evidence.

RECOMMENDATION

ESGE suggests cold snare piecemeal EMR for carefully selected large (≥ 20 mm) flat adenomas (granular homogeneous LSLs), mostly in the right colon, and particularly when co-morbidity levels are high to reduce the risks of deep mural injury and delayed post-EMR bleeding.

Weak recommendation, low quality of evidence.

p-CSP vs p-EMR

Successo tecnico: 100% vs 99%

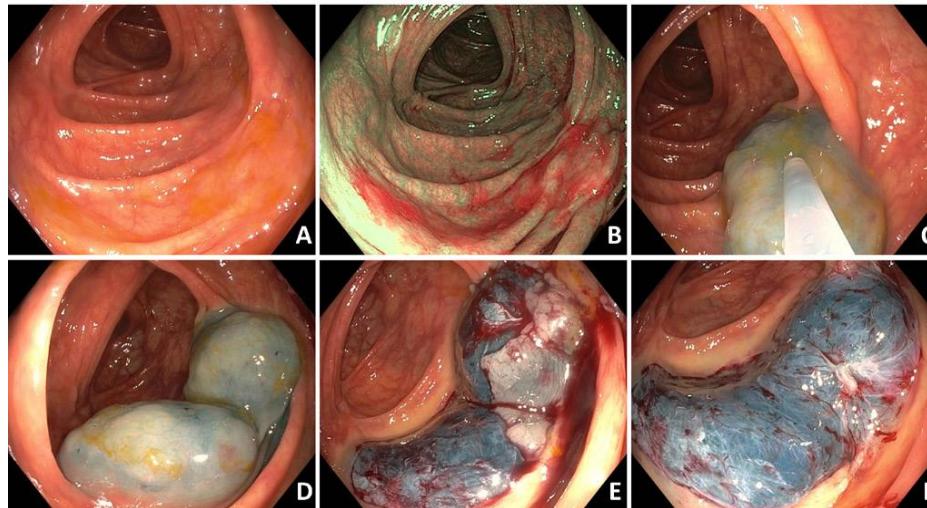
Nessun evento avverso in p-CSP

Per p-EMR: sang. ritardato 5,1%

DMI 3,4%

	p-CSP	EMR	P value
Per patient resection outcomes (n, %)	121 (25.5)	353 (74.5)	
CSPEB (n, %)	0 (0.0)	18 (5.1)	0.010
CSIPB (n, %)	0 (0.0)	5 (1.4)	0.336
DMI total (n, %)	0 (0.0)	10 (2.8)	0.071
Type 3 ('target sign')		9 (2.5)	
Type 4/5 (transmural perforation)		1 (0.3)	
Delayed perforation (n, %)	0 (0.0)	2 (0.6)	1.000

RISULTATI

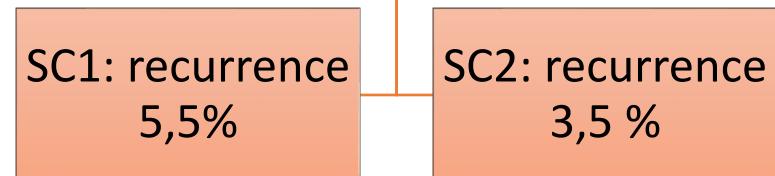


«PIECEMEAL COLD SNARE POLYPECTOMY VERSUS CONVENTIONAL ENDOSCOPIC MUCOSAL RESECTION FOR LARGE SESSILE SERRATED LESIONS: A RETROSPECTIVE COMPARISON ACROSS TWO SUCCESSIVE PERIODS»



Van Hattem WA, GUT 2020

«COLD SNARE PIECEMEAL EMR OF LARGE SESSILE COLONIC POLYPS >= 20 MM»



Mangira D, GIE 2020

SAFETY

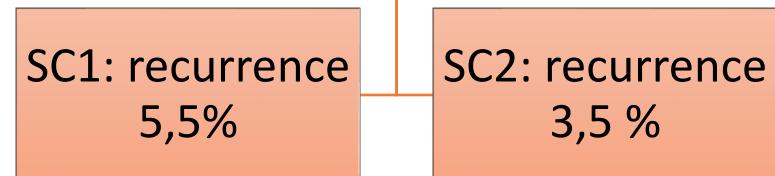
EVENTI AVVERSI TOT 5,4%

- Sang. intraprocedurale 2.2%
- Sang. post-EMR 3,8%
- Dolore addominale non specifico 0.5%

EFFICACY

«COLD SNARE PIECEMEAL EMR OF LARGE SESSILE COLONIC POLYPS >= 20 MM»

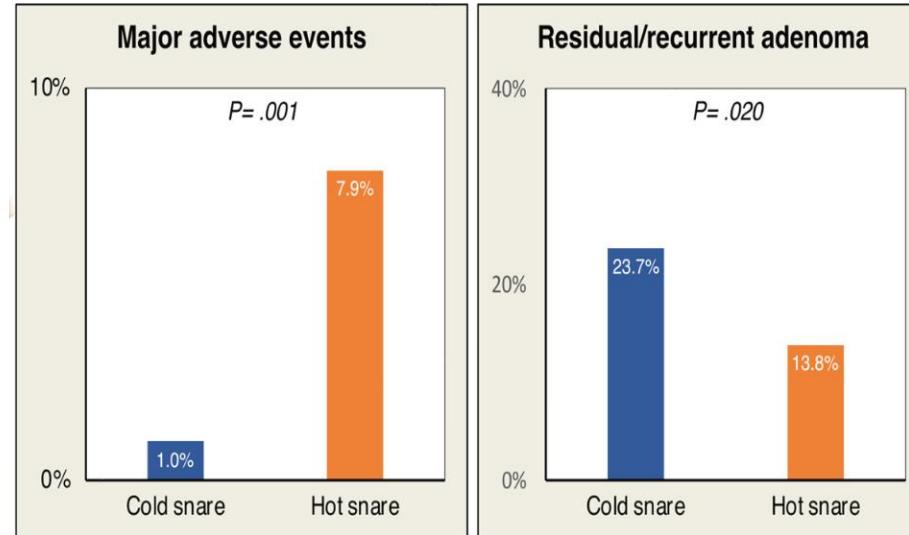
Mangira D, GIE 2020



Mangira D, GIE 2020

Cold versus Hot Snare Endoscopic Resection of Large Non-Pedunculated Colorectal Polyps (Randomized-controlled German CHRONICLE-trial)

Major adverse events are a relevant problem of hot snare-EMR of non-pedunculated colorectal polyps $\geq 2\text{cm}$.



Gastroenterology

BACKGROUND AND CONTEXT

H-EMR is the standard therapy for the resection of nonpedunculated polyps $\geq 20\text{ mm}$, but major adverse events are clinically relevant problem

NEW FINDINGS

In this RCT, C-EMR appeared to be safer than H-EMR, with almost complete elimination of major adverse events, but resulted in a higher rate of residual neoplasia. However, in selected lesions, this drawback appears to be only minor

Steinbrück I, Gastroenterology 2024



The higher rate of residual adenoma/neoplasia after cold EMR of flat colorectal polyps >2 cm was confirmed by this RCT, with an increase of 10% compared with hot resection.

In SSL, rates of residual neoplasia were not different between cold and hot resection.

The rate of residual adenoma of 14% in the hot EMR group is similar to a recent review.

One limitation of the study is the not systematically performed margin coagulation

Outcomes in the Intention-to-Treat and Per-Protocol Analysis

Variable	ITT					
	Cold snare EMR (n = 193)		Hot snare EMR (n = 203)		P value	Odds ratio (95% CI)
	n (%)	95% CI	n (%)	95% CI		
Major AE	2 (1.0)	0.2–3.7	16 (7.9)	4.9–12.4	.001 ^a	0.12 (0.03–0.54)
Perforation	0 (0)	0.0–1.8	8 (3.9)	2.0–7.6	.007 ^b	0.06 (0.003–1.04)
Postprocedural bleeding	2 (1.0)	0.2–3.7	9 (4.4)	2.3–8.2	.040 ^a	0.23 (0.05–1.06)
Intraprocedural bleeding	27 (14.0)	9.8–19.5	46 (22.7)	17.4–28.8	.026 ^a	0.56 (0.33–0.94)
Postpolypectomy syndrome	6 (3.1)	1.4–6.6	9 (4.4)	2.3–8.2	.490 ^a	0.69 (0.24–1.98)
Residual/recurrent adenoma (first FU)	42/177 (23.7)	18.1–30.5	24/174 (13.8)	9.4–19.7	.020 ^b	1.94 (1.12–3.38)
PP						
Variable	Cold snare EMR (n = 173)		Hot snare EMR (n = 197)		P value	Odds ratio (95% CI)
	n (%)	95% CI	n (%)	95% CI		
Major AE	2 (1.2)	0.3–4.1	15 (7.6)	4.6–12.1	.003 ^a	0.14 (0.03–0.63)
Perforation	0 (0)	0.0–2.1	8 (4.1)	2.1–7.8	.008 ^b	0.06 (0.004–1.12)
Postprocedural bleeding	2 (1.2)	0.3–4.1	8 (4.1)	2.1–7.8	.112 ^a	0.28 (0.06–1.32)
Intraprocedural bleeding	18 (10.4)	6.7–15.8	44 (22.3)	17.1–28.6	.002 ^a	0.40 (0.22–0.73)
Postpolypectomy syndrome	6 (3.5)	1.6–7.4	9 (4.6)	2.4–8.5	.592 ^a	0.75 (0.26–2.15)
Residual/recurrent adenoma (first FU)	38/160 (23.8)	17.8–31.0	20/168 (11.9)	7.8–17.7	.006 ^b	2.30 (1.28–4.17)

Subgroup Analysis for Residual/Recurrent Adenoma/Neoplasia at the First Follow-up Examination (Intention-to-Treat and Per-Protocol Datasets)

Variable	Cold snare EMR		Hot snare EMR		<i>P</i> value	Odds ratio (95% CI)
	n (%)	95% CI	n (%)	95% CI		
ITT dataset						
Suspected SSL	4/48 (8.3)	3.3–19.5	2/42 (4.8)	1.3–15.8	.681 ^b	1.75 (0.30–14.75)
LST granular-type homogeneous	17/57 (29.8)	19.55–42.6	12/57 (21.1)	12.5–33.3	.116 ^a	1.58 (0.67–3.81)
LST nodular mixed-type	15/37 (40.5)	26.3–56.5	6/42 (14.3)	6.7–27.8	.011^a	3.97 (1.38–12.80)
LST nongranular-type	6/35 (17.1)	8.1–32.7	4/33 (12.1)	4.8–27.3	.735 ^b	1.48 (0.37–6.56)
PP dataset						
Suspected SSL	4/44 (9.1)	3.6–21.2	2/41 (4.9)	1.3–16.1	.677 ^b	1.87 (0.33–15.84)
LST granular-type homogeneous	15/51 (29.4)	19.1–43.7	11/56 (19.6)	11.3–31.8	.261 ^a	1.69 (0.69–4.25)
LST nodular mixed-type	13/32 (40.6)	25.5–57.7	5/41 (12.2)	5.3–25.5	.007^a	4.74 (1.52–17.09)
LST nongranular-type	6/33 (18.2)	8.6–34.4	2/30 (6.7)	1.8–21.3	.261 ^b	2.93 (0.59–23.67)

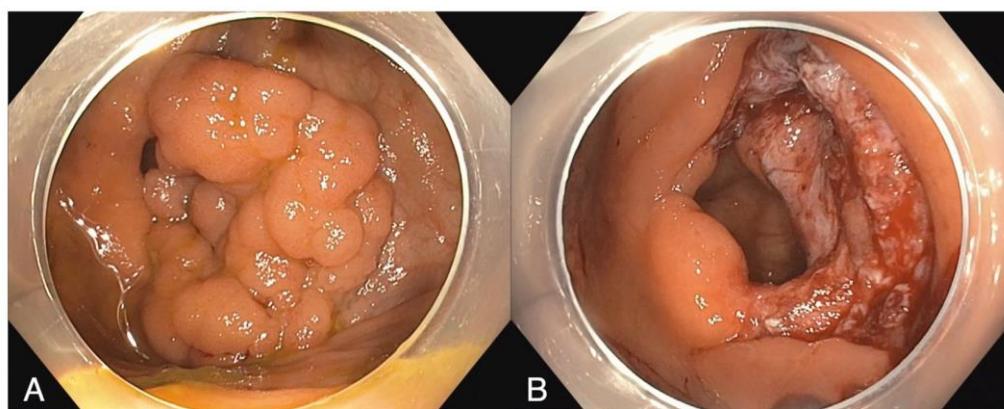


Figure 1. LST nodular-mixed type in the ascending colon before (A) and after (B) cold snare piecemeal EMR.

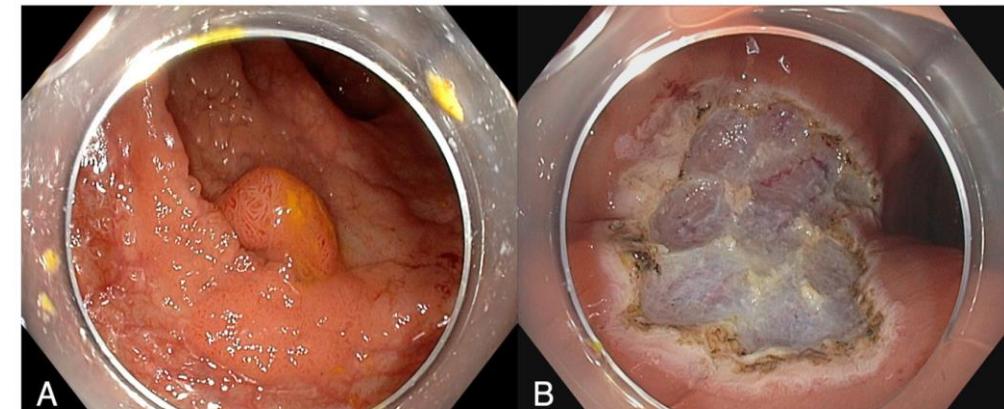


Figure 2. LST nodular-mixed type in the ascending colon before (A) and after (B) hot snare piecemeal EMR with margin coagulation.

- The lower technical success rate of the cold snare and also data of our post-hoc subgroup analysis suggest that not every lesion is equally suitable for cold snare EMR
- Suspected SSLs seem to be best suited for cold snare resection because recurrence rates were similar in both groups. This is in concordance with previous retrospective series
- Very flat and homogenous adenomatous lesions, such as granular-type LST, may also be suitable for the cold snare.
- The largest difference in favour of hot resection was seen in the mixed-type LST
- Histology of advanced adenoma or carcinoma and polyp diameter > 4 cm were independent predictors for residual neoplasia
- Lesions of a larger size and those with a complex morphology should be treated further by hot snare EMR



RISK

SAFETY

A red highlighter is shown on the right side of the image, its tip pointing towards the bottom left. It has drawn a thick red circle around the word "RISK". Below this circle, the word "SAFETY" is written in large, bold, black capital letters. The highlighter itself is red with some white text and symbols on it.



Safety of cold snare polypectomy with periprocedural antithrombotic agents for colorectal polyps: a systematic review and meta-analysis

Jen-Hao Yeh^{*} , Wen-Lun Wang^{*}, Chih-Wen Lin, Ching-Tai Lee, Cheng-Hao Tseng, Po-Jen Hsiao, Yu-Peng Liu and Jaw-Yuan Wang 

17 studi di cui 5 RCTs
96% dei polipi < = 10 mm

Rischio tromboembolico è simile tra pz che usano e non usano farmaci antitrombotici

PIU' ELEVATO RISCHIO DI SANGUINAMENTO RITARDATO IN PZ CHE ASSUMONO UN TRATTAMENTO ANTITROMBOTICO

POOLED DELAYED BLEEDING RATE AFTER CSP

1.6 %

PIU' ELEVATO RISCHIO DI SANGUINAMENTO IMMEDIATO IN PZ CHE ASSUMONO UN TRATTAMENTO ANTITROMBOTICO,
> CON ANTIAGGREGANTI ($p<0,001$) E DOACs

POOLED IMMEDIATE BLEEDING RATE AFTER CSP	CON WARFARIN	0,3 %
10,5 %	CON DOACs	2,5 %
	CON AG. MULTIPLI	3,9 %

L' USO DI AGENTI ANTITROMBOTICI
AUMENTA IL RISCHIO DI SANGUINAMENTO

TALE RISCHIO E' COMUNQUE
< PER CSP vs HSP

RISCHIO DI SANGUINAMENTO IMMEDIATO
COMPLESSIVO E' 10,5 %, PERCENTUALE
NON MAGGIORE DI QUELLA PER HSP

SEBBENE NON SIANO STATI PARAGONATI
DIRETTAMENTE I DIVERSI
ANTIGOAGULANTI, CON WARFARIN IL
RISCHIO COMPLESSIVO DI
SANGUINAMENTO RITARDATO E' MOLTO
PIU' BASSO RISPETTO AI DATI PRECEDENTI
(0,3%)

PER IL LIMITATO RISCHIO DI
SANGUINAMENTO RITARDATO (<1%) DOPO
CSP, SOPRATTUTTO IN PZ CHE USANO
ANTIAGGREGANTI E WARFARIN, CSP
POTREBBE ESSERE CONSIDERATA UNA
PROCEDURA A BASSO RISCHIO

CONSIDERANDO CHE AGENTI
ANTIAGGREGANTI PIASTRINICI E WARFARIN
PRESENTANO UN RISCHIO DI
SANGUINAMENTO MODESTO, LA LORO
CONTINUAZIONE SOPRATTUTTO PER CSP DI
POLIPI DIMINUTIVI PUO' ESSERE RITENUTA
ACCETTABILE



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- NEGLI ULTIMI ANNI STIAMO ASSISTENDO AD UNA VERA E PROPRIA «**COLD REVOLUTION**» PER LA RESEZIONE DI LESIONI DEL TRATTO DIGESTIVO INFERIORE
 - LE TECNICHE DI RESEZIONE A «**FREDDO**» PRESENTANO LA STESSA EFFICIACIA DI QUELLE A «**CALDO**» MA MOSTRANO UN PROFILO DI SICUREZZA SUPERIORE
 - LA RESEZIONE A FREDDO «**OTTIMIZZATA**» RI SULTA ESSERE LO «**STANDARD BEST PRACTICE**» ED È STATA INCORPORATA NELLE LINEE GUIDA INTERNAZIONALI PER L'ASPORTAZIONE DI LESIONI DEL COLORETTO

The End?

