SUPPLEMENTARY TABLES:

Supplementary Table 1: Technical success and R0 resection rate in patients with documented difficult resection.

	Technical success, n(%)	R0 resection, n(%)	
All procedures (n=181)	162/181 (89.5)	139/181 (76.9)	
Procedures with documented difficulties (n=28)	19/28 (67.9)	16/28 (57.1)	
snare dysfunction (n=13)	8/13 (61.5)	8/13 (61.5)	
difficult incorporation of lesion into cap* (n= 15)	11/15 (73.3)	8/15 (57.1)	
Procedures without documented difficulties	143/153 (93.4)	125/153 (81.7)	

^{*}see also supplementary Table 2

Supplementary Table 2: Characteristics of patients with difficult tissue incorporation into the cap. 75% of those patients had prior endoscopic therapy.

No.	Indication	Site	Size (mm)	Prior therapy	Technical success	R0 Resection
1	Non-lifting Adenoma	Coecum	30		no	no
						-
2	Subepithelial tumor	Sigmoid	20	no	no	no
3	Non-lifting Adenoma	Sigmoid	20	yes	no	no
4	T1 carcinoma	Rectum	10	yes	no	no
5	Non-lifting Adenoma	Transv. Colon	20	yes	yes	yes
6	Adenoma at diverticulum	Sigmoid	10	no	yes	yes
7	Subepithelial tumor	Coecum	20	no	yes	yes
8	Adenoma at appendix	Coecum	30	no	yes	no
9	Non-lifting Adenoma	Coecum	5	yes	yes	yes
10	Non-lifting Adenoma	Coecum	15	yes	yes	yes
11	Subeptihelial tumor	Sigmoid	20	no	yes	yes
12	Non-lifting Adenoma	Descend. Colon	20	yes	yes	no
13	Non-lifting Adenoma	Coecum	30	yes	yes	yes
14	T1 carcinoma	Rectosigmoid transition	10	yes	yes	yes
15	Non-lifting Adenoma	Rectum	15	yes	yes	no

Supplementary Table 3: Subgroup of difficult adenomas: cases with non-neoplastic final histology after EFTR. Resection was only considered successful if there was no macroscopic and histological evidence of residual lesion at 3-month follow-up. NL-A=Non-lifting adenoma

		Technical		
ID	Indication	success	3-mon-F/U	Explanation
	Adenoma at		no residual	Lesion was small at had probably been
LB-01	diverticulum	yes	lesion	completely removed by prior extensive biopsy
	Adenoma at		no residual	
D-09	diverticulum	yes	lesion	Final histology showed hyperplastic polyp
			no residual	
LB-19	Adenoma at appendix	yes	lesion	Final histology showed hyperplastic polyp
			no residual	Lesion was small at had probably been
D-18	Adenoma at appendix	yes	lesion	completely removed by extensive biopsy
			no residual	
D-44	Adenoma at appendix	yes	lesion	Final histology showed hyperplastic polyp
			no residual	
E-08	Adenoma at appendix	yes	lesion	Final histology showed hyperplastic polyp
			residual	Snare dysfunction leading to incomplete /
UL-05	Adenoma at appendix	no	Adenoma	insuccessful resection
				Residual lesion was small at had probably
	NL-A, incompletely		no residual	been completely removed by extensive
LB-20	resected	yes	lesion	biopsy
				Residual lesion was small at had probably
	NL-A, incompletely		no residual	been completely removed by extensive
LB-29	resected	yes	lesion	biopsy
				Residual lesion was small at had probably
	NL-A, incompletely		no residual	been completely removed by extensive
D-27	resected	yes	lesion	biopsy
				Difficult incorporation into the cap due to
	NL-A, incompletely			severe scarring resulted in insuccessful
D-15	resected	no	lost to F/U	resection
				Difficult incorporation into the cap due to
	NL-A, incompletely			severe scarring resulted in insuccessful
FR-15	resected	no	lost to F/U	resection
				Residual lesion was small at had probably
			no residual	been completely removed by extensive
D-11	NL-A, recurrent	yes	lesion	biopsy
				Residual lesion was small at had probably
			no residual	been completely removed by extensive
D-45	NL-A, recurrent	yes	lesion	biopsy
				Residual lesion was small at had probably
			no residual	been completely removed by extensive
UL-12	NL-A, recurrent	yes	lesion	biopsy
				Difficult incorporation into the cap due to
			residual	severe scarring resulted in insuccessful
E-18	NL-A, recurrent	no	Adenoma	resection
				Difficult incorporation into the cap due to
				severe scarring resulted in insuccessful
UL-03	NL-A, recurrent	no	lost to F/U	resection
				Difficult incorporation into the cap due to
			residual	severe scarring resulted in insuccessful
DO-04	NL-A, recurrent	no	Adenoma	resection

Supplementary Table 4: Patients with adenocarcinoma

Patients with adenocarcinoma	All patients (n=29)	Known carcinoma (n=15)	Incidental carcinoma* (n=14)	
R0 Resection, n (%)	21/29 (72.4)	12/14 (80.0)	9/14 (64.3)	
No Resection, ii (%)	21/29 (72.4)	12/14 (80.0)	3/14 (64.3)	
Rx Resection, n (%)	8/29 (27.6)	3/15 (20.0)	5/14 (35.7)	
Rx lateral margin only	2	1	1	
Rx basal margin only	4	1	3	
Rx lateral and basal margin	2	0	2	
Resection classified as curative, n (%)	13/29 (44.8)	11/15 (73.3%)	2/14 (14.2%)	
Resection classified as incurative, n (%)	16/29 (55.2)	4/15 (26.7 %)	12/14 (85.7%)	
Rx, sm invasion < 1000 um	4	0	4	
Rx, sm invasion > 1000 um	4	3	1	
R0, sm invasion >1000 um	8	1	7	
Follow up in patients with curative resection, n (%)				
3 month follow-up available	11	8	2	
Recurrency at 3 month follow-up	0	0	0	
Follow up in patients with incurative resection, n (%)				
Surgical therapy, endosc. F/U not available	11	4	9	
No surgical therapy	5	3	2	
- Recurrency at 3 or 6 months follow-up**	0	0	0	

^{*}Patients were initially classified as non-lifting adenomas

^{**} Follow up including biopsy was done in 2 cases after 3 months and in 1 case after 6 months; in one case there was diminutive residual adenoma which was removed with a forceps; there was no residual carcinoma

Supplementary Table 5: Characteristics of patients with perforation

		Prior		Techn.	Time of	Cause of	Further
No.	Indication	treatment	Site	Difficulties	Perforation	perforation	therapy
							Closure
			Transverse			Clip not	with TTS-
1	T1 carcinoma	no	colon	no	acute	realeased	Clips
							Closure
	Non-lifting		Ascending			Clip not	with TTS-
2	adenoma	yes	colon	no	acute	realeased	Clips
			Rectosigm				Closure
	Non-lifting		oid			Clip not	with
3	adenoma	no	transition	no	acute	realeased	OTSC
							Closure
	Subepithelial		Upper			Clip not	with TTS-
4	tumor	no	Rectum	no	acute	realeased	Clips
	Adenma at					Clip not	
5	diverticulum	no	Sigmoid	no	acute	realeased	Surgery
	Non-lifting		Ascending	snare		Thermal	
6	adenoma	no	colon	dysfunction	delayed	damage	Surgery