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ΠΕΙΡΑΪΚΟ
ΟΙΚΟΛΟΓΙΚΟ
ΣΥΝΕΔΡΙΟ

Διοργάνωση:



Ελληνική Εταιρεία
Νευροενδοκρινών Όγκων

ΠΟΛΥΠΛΕΥΡΗΣ ΔΙΕΠΙΣΤΗΜΟΝΙΚΗΣ
ΑΝΤΙΜΕΤΩΠΙΣΗΣ ΤΟΥ ΚΑΡΚΙΝΟΥ

ΕΙΔΙΚΟ ΑΦΙΕΡΩΜΑ ΣΤΟΥΣ ΝΕΥΡΟΕΝΔΟΚΡΙΝΕΙΣ ΟΪΚΟΥΣ

3 - 4 | ΙΟΥΛΙΟΥ | 2020

ΞΕΝΟΔΟΧΕΙΟ GRAND HYATT, ΑΘΗΝΑ



Συστηματική Θεραπεία ΝΕΤ ορθού

Γιώργος Ευαγγέλου
Παθολόγος Ογκολόγος
Ογκολογικό Τμήμα Γ'ΠΠ
ΓΝΑ Η Σωτηρία

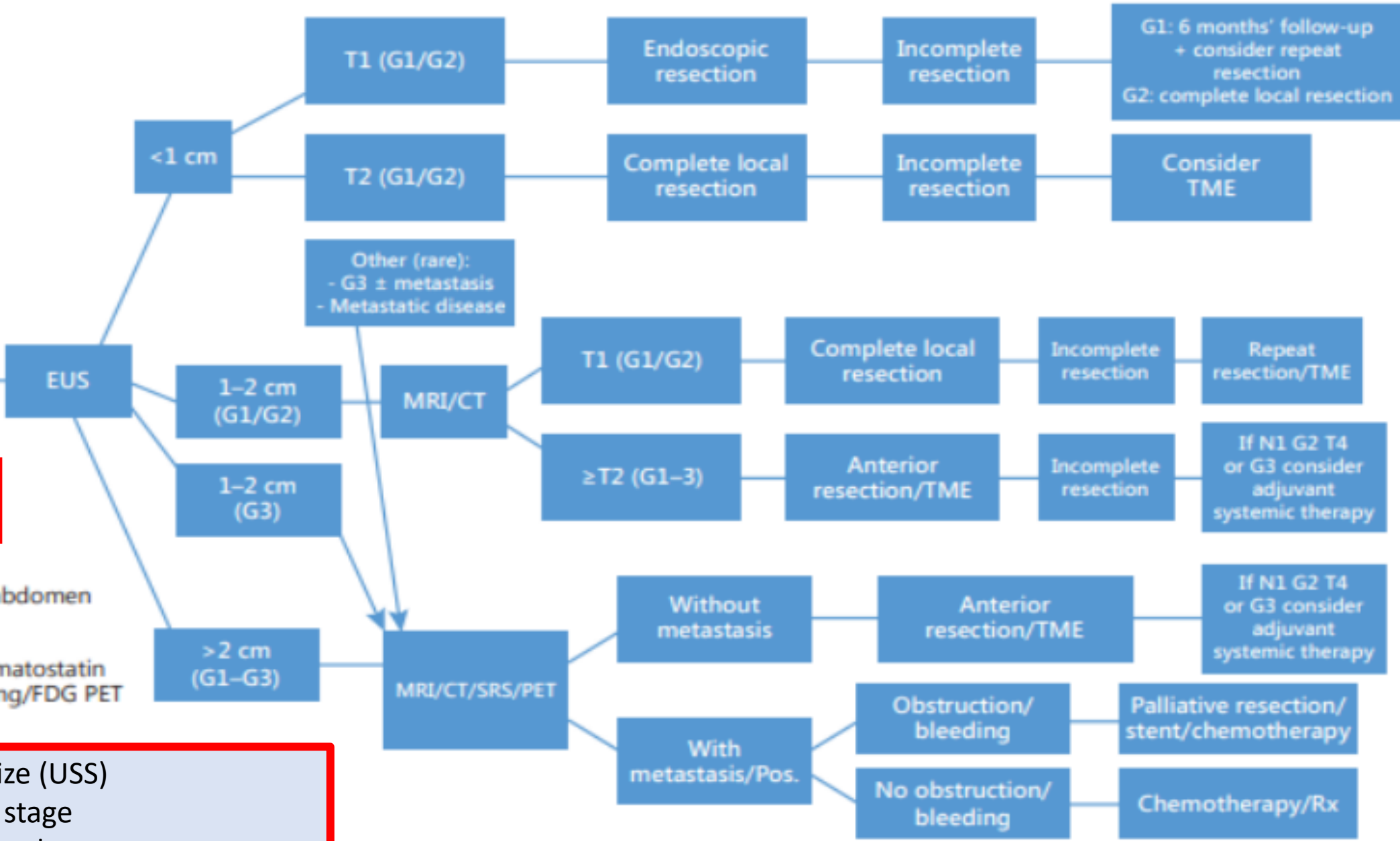
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Rectal NETs at endoscopy

- Anorectal EUS
- Pelvic MRI

As appropriate:
- CT/MRI chest/abdomen
- Colonoscopy
- Octreoscan/somatostatin receptor imaging/FDG PET (if high grade)

- 1. Size (USS)
- 2. T stage
- 3. Grade



Outcomes for a Large Cohort of Patients with Rectal Neuroendocrine Tumors: an Analysis of the National Cancer Database

2020

A retrospective cohort study was performed using the National Cancer Database (NCDB)

All patients diagnosed between 2004 and 2015 were included in this analysis.

Patients with metastatic disease and those with missing treatment data were excluded

N = 17.263

16.531 localized + 732 metastatic (4.2%)

Table 1 Patient demographics stratified by treatment

Variables	All patients	Observation alone	Local excision	Radical resection	<i>p</i> value ^a
Number of patients	16,531	2057 (12.4)	13,126 (79.4)	1348 (8.2)	
Median age	54	56	54	55	< 0.001
≤ 50	5132 (31.0)	583 (28.3)	4125 (31.4)	424 (31.5)	
51–55	3819 (23.1)	419 (20.4)	3142 (23.9)	258 (19.1)	
56–65	4475 (27.1)	562 (27.3)	3554 (27.1)	359 (26.6)	
> 65	3105 (18.8)	493 (24.0)	2305 (17.6)	307 (22.8)	
Female sex	8644 (52.3)	1018 (49.5)	6932 (52.8)	694 (51.5)	0.016
Treatment at an academic center	5473 (36.0)	636 (33.7)	4345 (36.0)	492 (39.9)	0.002
Tumor size					< 0.001
≤ 10 mm	9216 (79.8)	698 (69.7)	7959 (84.1)	559 (51.7)	
11–20 mm	1013 (8.8)	73 (7.3)	755 (8.0)	185 (17.1)	
> 20 mm	1320 (11.4)	230 (23.0)	752 (7.9)	338 (31.2)	
Clinical N stage					< 0.001
cN0	6995 (42.3)	576 (29.1)	6004 (47.1)	415 (31.6)	
cN1	2109 (12.8)	423 (21.4)	1246 (9.8)	440 (33.5)	
cNx	6928 (41.9)	982 (49.6)	5487 (43.1)	459 (34.9)	
Tumor grade differentiation					< 0.001
Well	5542 (33.5)	513 (24.9)	4580 (34.9)	449 (33.3)	
Moderate	701 (4.2)	62 (3.0)	520 (4.0)	119 (8.8)	
Poor/anaplastic	385 (2.3)	157 (7.6)	49 (0.4)	179 (13.3)	
Unknown	9903 (59.9)	1325 (64.4)	7977 (60.8)	601 (44.6)	
Positive resection margins	–	–	1302 (9.9)	107 (7.9)	< 0.001

670 NEN were withheld:

531 (79%) G1 NET:

369 (69%) cases true G1 NET; 4 cases Ki 67 < 5%

53 (8%) G2 NET:

25 cases true NET G2; 28 reclassified cases

11 G3 NET: 2 cases true G3 NET; 8 insufficient data

66 (10%) NEC:

16 cases insufficient data (+ 13 lacking grade of differentiation)

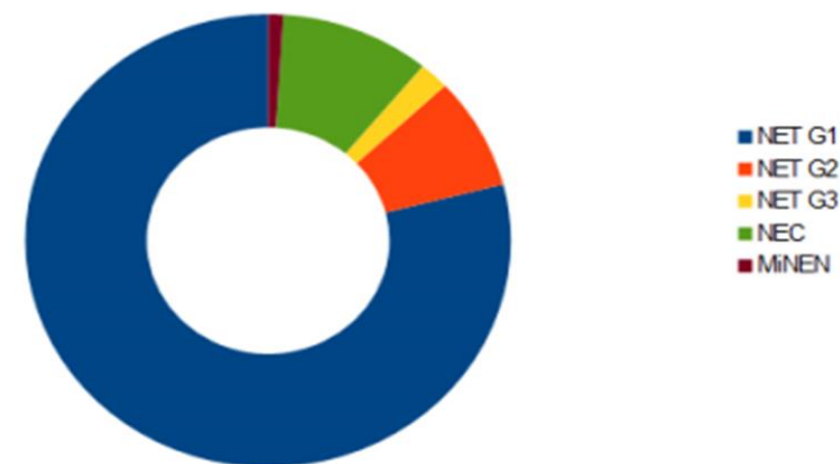
→ Large Cell: 29 cases

(12 correctly classified; 17 cases (G3 NETs) reclassified)

→ Small Cell: 37 cases

(30 correctly classified; 6 cases (G3 NETs) and 1 case (large cell NEC) reclassified)

Proportions of the different types NENs

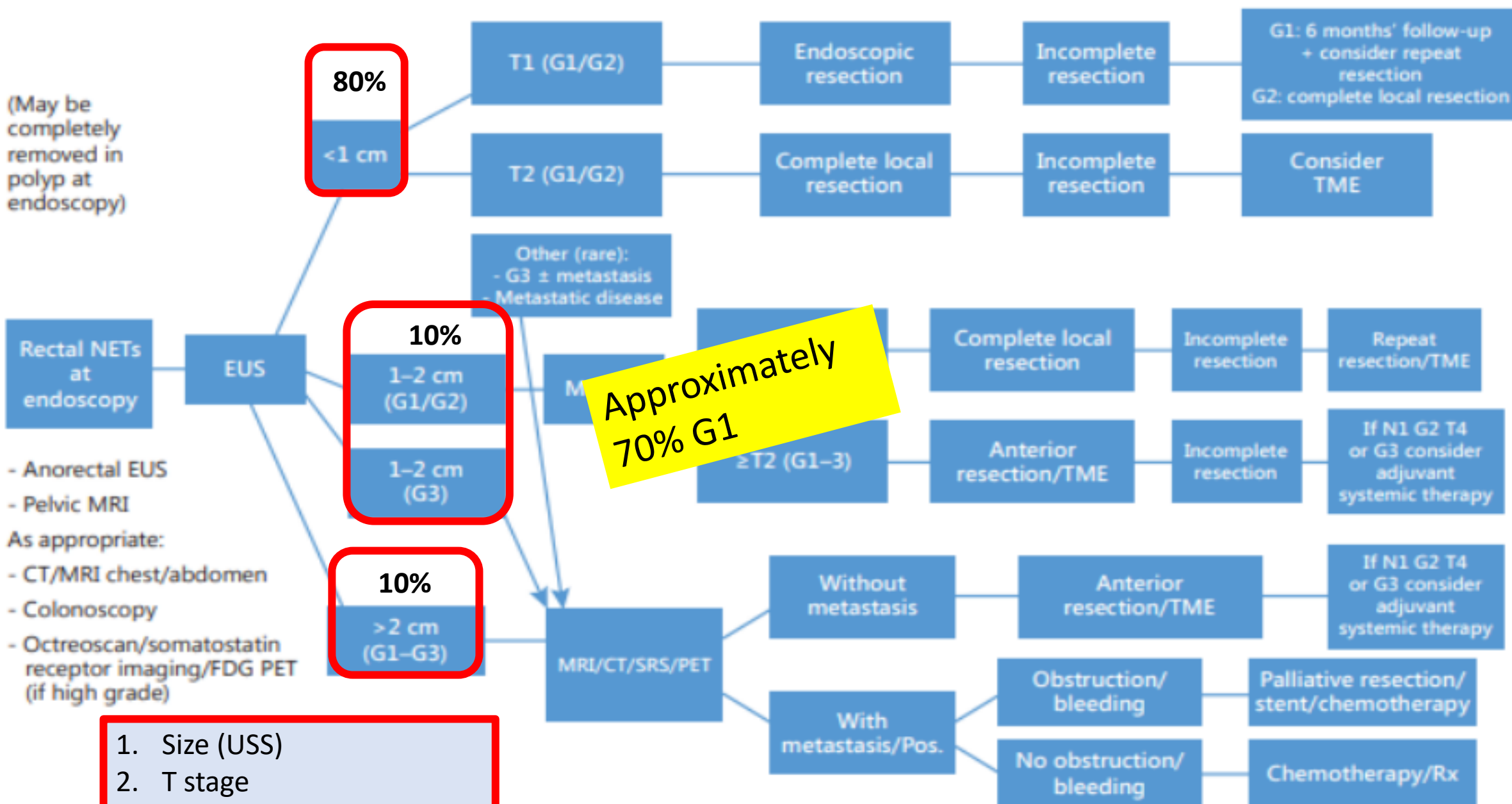


Materials and methods: All pathology reports of rNEN received by the Belgian Cancer Registry, during 2004-2015, were reviewed for clinicopathological data.

Classification was adapted based on the WHO 2019 classification.

Year	Incidence rectal NEN	Ki67 index	Differentiation	Tumor size	Muscularis invasion	Lymphovascular invasion
2004	21	7 (33%)	2 (9%)	7 (33%)	3 (14%)	3 (14%)
2005	24	7 (29%)	4 (17%)	13 (54%)	2 (8%)	1 (4%)
2006	33	10 (30%)	8 (24%)	22 (67%)	5 (15%)	7 (21%)
2007	54	17 (31%)	17 (31%)	26 (48%)	8 (15%)	6 (11%)
2008	56	22 (39%)	18 (32%)	35 (63%)	7 (13%)	13 (23%)
2009	47	27 (57%)	22 (47%)	33 (70%)	10 (21%)	9 (19%)
2010	60	39 (65%)	16 (27%)	23 (38%)	7 (12%)	7 (12%)
2011	72	49 (68%)	33 (46%)	35 (49%)	10 (14%)	10 (14%)
2012	75	60 (80%)	39 (52%)	44 (58%)	14 (19%)	23 (31%)
2013	68	60 (88%)	32 (47%)	46 (68%)	19 (28%)	14 (21%)
2014	91	79 (87%)	51 (56%)	62 (68%)	10 (11%)	14 (15%)
2015	69	59 (85%)	38 (55%)	47 (68%)	18 (26%)	21 (30%)
Total	670	436 (65%)	280 (42%)	393 (59%)	113 (17%)	128 (19%)

(May be completely removed in polyp at endoscopy)



- Anorectal EUS
- Pelvic MRI
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1. Size (USS)
2. T stage
3. Grade

Approximately 70% G1

Carcinoid Tumors of the Rectum: A Multi-Institutional International Collaboration

N = 100

TABLE 3. Multiple Variable Logistic Regression Analysis of Risk Factors for Lymph Node Metastases*

Variables	Odds Ratio	95% CI	P
Tumor size > 10 mm	32.7	14.8–72.3	0.006
Lymphovascular invasion	19.6	12.3–146.0	< 0.001

*Risk factors for nodal involvement calculated in patients who underwent formal surgical resection (n = 100).

TABLE 4. Multiple Variable Logistic Regression Analysis of Risk Factors for Distant Metastases*

Variables	Odds Ratio	95% CI	P
Lymph node metastases	12.3	1.8–84.7	0.033
Lymphovascular invasion	74.4	4.6–120.2	0.022

*Risk factors for distant metastases calculated in patients who underwent formal surgical resection (n = 100).

Carcinoid Specific Survival by T Stage

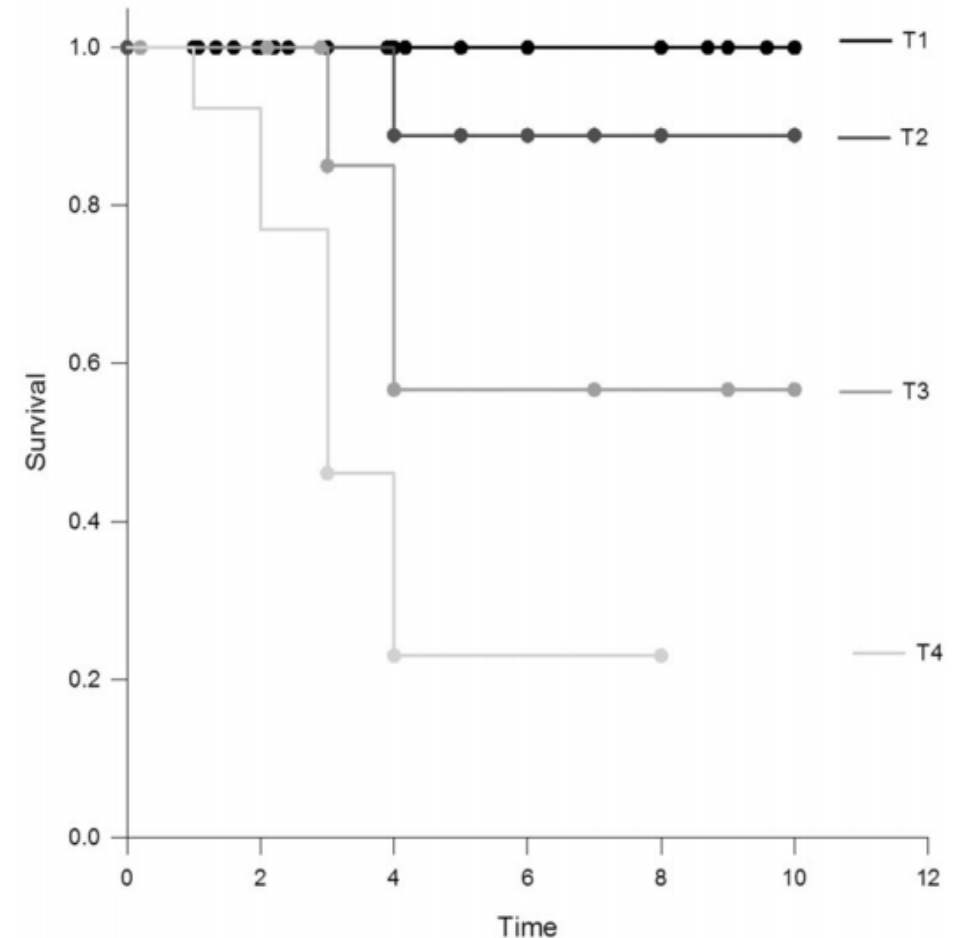


FIGURE 1. Survival by T stage calculated in patients who underwent formal surgical resection (n = 100). Time in years.

Introduction: Classification of rectal NEN (rNEN) changed significantly over the years.

Aim(s): We aimed to have complete epidemiological data on the incidence of rNEN in Belgium and investigated the evolution in reports and treatment decisions.

Materials and methods: All pathology reports of rNEN received by the Belgian Cancer Registry, during 2004-2015, were reviewed for clinicopathological data.

Classification was adapted based on the WHO 2019 classification. In order to have an idea about the treatment management, the data were linked with the administrative healthcare database.

Factors associated with lymph node invasion and/or metastatic disease

France: Renaten/TENpath: n=345	Univariate analysis	
	OR	p
Tumor size ≥ 10 mm versus < 10 mm	9.1 (3.5-23.5)	10^{-7}
G2,G3 vs G1	4,2 (1,5 – 11,7)	0,03
LV invasion +/-	57,2 (5,6 – 578,9)	0,01
Muscularis invasion +/-	∞ (11,9 - ∞)	10^{-5}

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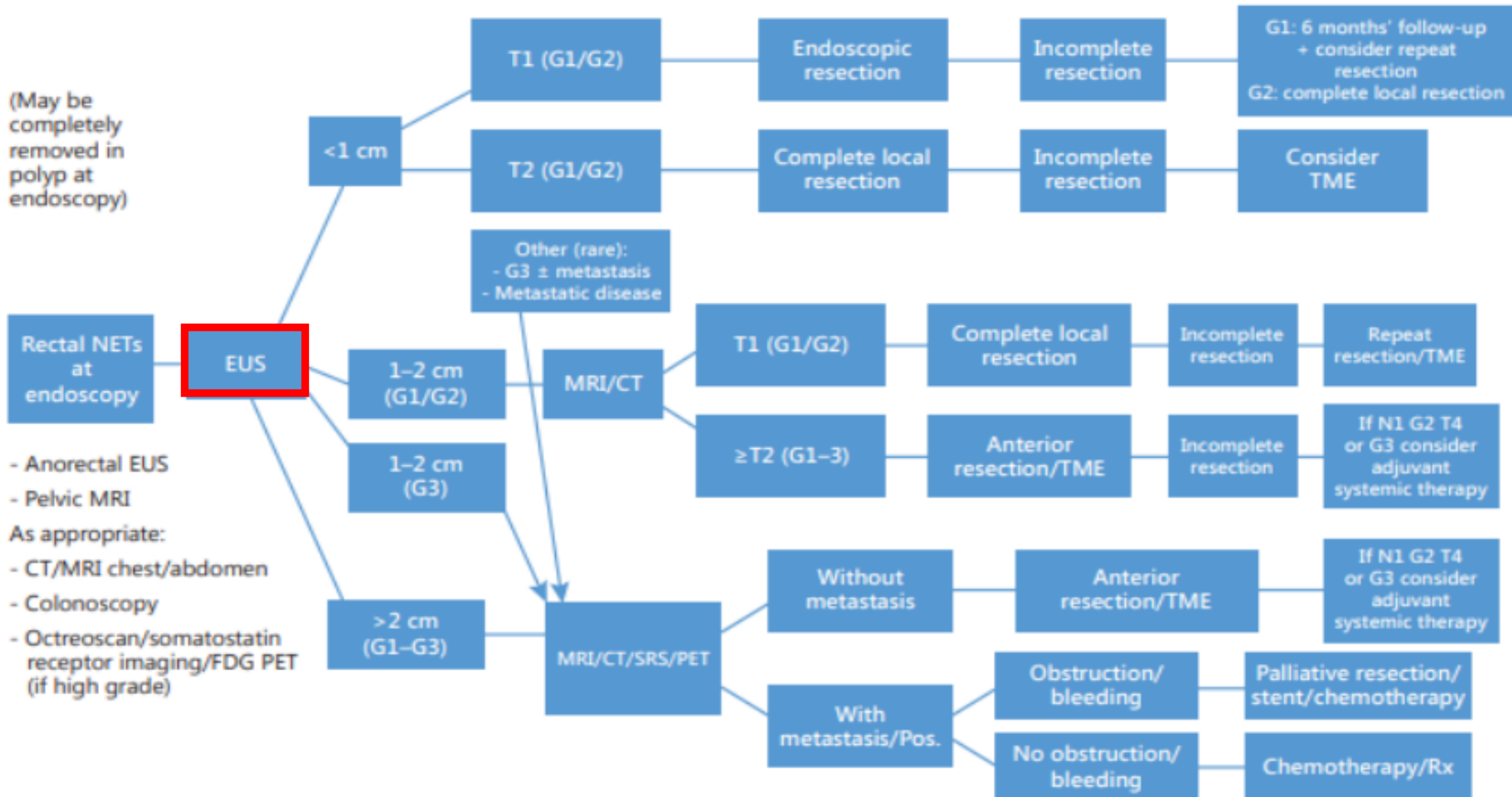
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2012	75	60 (80%)	39 (52%)	44 (58%)	14 (19%)	23 (31%)
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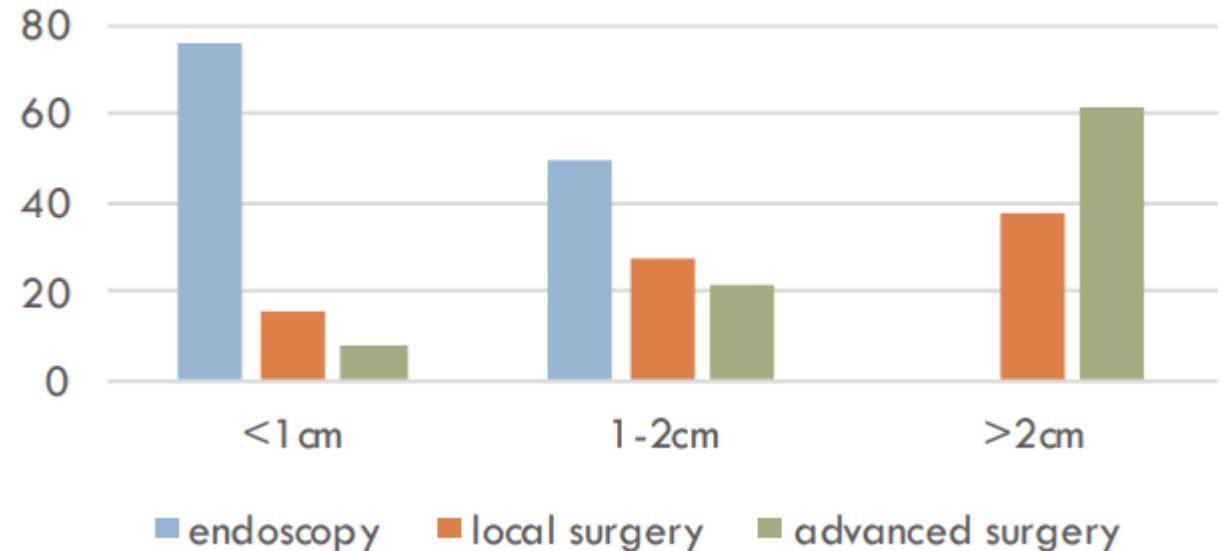
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Aim(s): We aimed to have complete epidemiological data on the **incidence of rNEN in Belgium** and investigated the evolution in reports and treatment decisions.

Belgian Cancer Registry, during 2004-2015

EUS performed in 245/667 (38%) patients (before/after resection?)

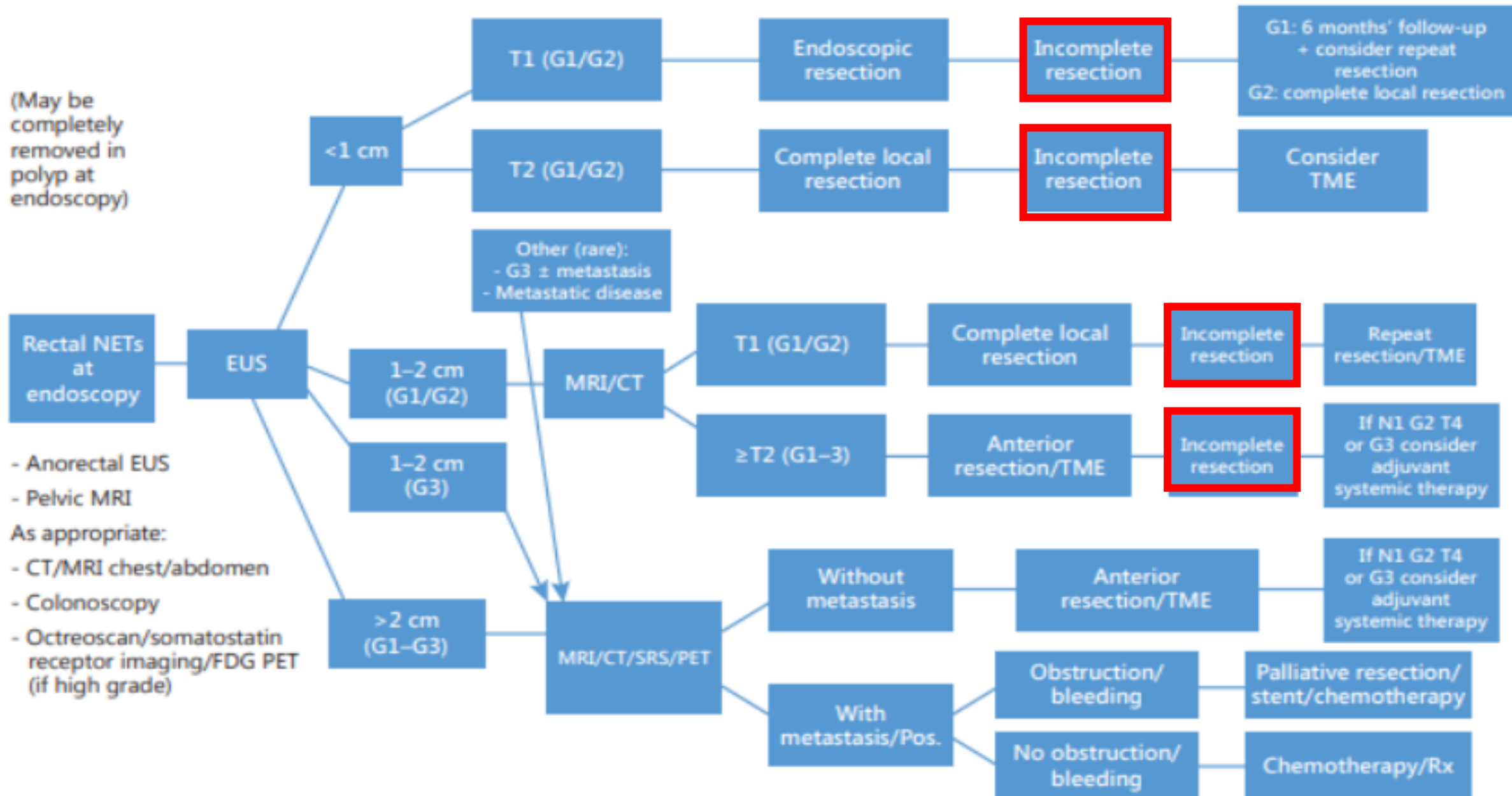
Treatment in G1-G2 NET



Long-term outcomes according to additional treatments after endoscopic resection for rectal small neuroendocrine tumors

	Total (N = 322)	Risk negative (N = 180)	Risk indeterminate (N = 63)	Risk positive (N = 79)	P
Characteristics of the patients					
Age at diagnosis (year, mean (SD))	47.67 ± 11.47	46.80 ± 11.14	47.95 ± 12.67	48.62 ± 11.25	0.469
Gender (%)					0.143
Male	207 (64.3)	113 (62.8)	47 (74.6)	47 (59.5)	
Female	115 (35.7)	67 (37.2)	16 (25.4)	32 (40.5)	
How to be diagnosed (%)					0.041
Resected as NET	190 (59.0)	102 (56.7)	46 (73.0)	42 (53.2)	
Diagnosed via biopsy	102 (31.7)	64 (35.6)	13 (20.6)	25 (31.6)	
Resected as Polyps	30 (9.3)	14 (7.8)	4 (6.3)	12 (15.2)	
EUS (%)	44 (13.7)	20 (11.1)	6 (9.5)	18 (22.8)	0.024
Pelvic MRI (%)	15 (4.7)	8 (4.4)	2 (3.2)	5 (6.3)	0.661
Abdominal imaging (yes, %)					
Abdominopelvic CT	299 (92.9)	170 (94.4)	55 (87.3)	74 (93.7)	0.158
Abdominal US	40 (12.4)	19 (10.6)	9 (14.3)	12 (15.2)	0.513
Both	30 (9.3)	13 (7.2)	7 (11.1)	10 (12.7)	0.33
Not performed	13 (4.0)	4 (2.2)	6 (9.5)	3 (3.8)	0.04

(May be completely removed in polyp at endoscopy)



Endoscopic management of 345 small rectal neuroendocrine tumours: a national study from the French group of endocrine tumours (GTE)

	<i>n</i> (%)
Tumour size in mm	
<10 (T1a)	252 (73)
10 to 20 (T1b)	88 (26)
NR	5 (1)
Location	
Low rectum	145 (42)
Medium rectum	81 (23)
High rectum	50 (14)
NR	69 (20)
Ulceration	18 (5)
Diagnosis of r-NET	
Suspected during first endoscopy	61 (18)
Not suspected during first endoscopy	284 (82)
Grade	
G1	309 (90)
G2	32 (9)
G3	4 (1)
Lymphovascular invasion	
Yes	4 (1)
No	124 (26)
NR	217 (63)
Muscular invasion	4 (1)

G: tumour grading; NR: not reported; r-NET: rectal neuroendocrine tumour.

Rectal neuroendocrine tumours ≤ 2 cm managed from January 2000–June 2018 in 16 French hospitals, were retrospectively analyzed

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No	124 (26)
NR	217 (63)
Muscular invasion	4 (1)

G: tumour grading; NR: not reported; r-NET: rectal neuroendocrine tumour.

Table 1. R0 resection improved with subsequent endoscopic salvage resections

	1 st endoscopic procedure	2 nd endoscopic procedure	3 rd Endoscopic procedure	TOTAL
Proportion of R0 resection	54/225 (24%)	60/100 (60%)	20/26 (77%)	134/345 (39%)

Table 2. R0 resection according
to the endoscopic technique

	Proportion of R0 resection
Polypectomy	(32/183) 17%
EMR	(40/99) 40%
Advanced-techniques	(62/69) 90%

EMR: endoscopic mucosal resection,
Advanced-techniques included: endoscopic mucosal
resection with cap aspiration (EMR-C), endoscopic
submucosal resection using a band ligation device
(EMR-L), endoscopic submucosal dissection (ESD)

Molecular Signature of Rectal Neuroendocrine Neoplasia

Unger N¹, Theurer S², Herold T², Weber F³, Dralle H³, Schmid KW², Fuehrer D¹, Lahner H¹

¹Department of Endocrinology, Diabetes and Metabolism, University Hospital Essen, Essen, Germany

²Institute of Pathology, University Hospital Essen, Essen, Germany

³Division of Endocrine Surgery, University Hospital Essen, Essen, Germany

	Total NEN	Ileum	Appendix	Rectum
n	59	32	12	15
Age at diagnosis	52.41 (16.51 - 81.43)	56.85 (33.36 - 75.61)	37.06 (16.51 - 68.07)	47.50 (25.31 - 81.43)
Gender (f/m)	31/28	13/18	9/3	8/7
Follow-up (years)	3.42 (0.0 - 16.31)	4.84 (0.63 - 16.31)	0.69 (0.0 - 10.87)	1.47 (0.0 - 9.65)
Distant metastases	29	23	0	7
G1	42	23	11	8
G2	13	8	1	4
G3	2	1	0	1
NEC	1	0	0	1
Goblet Cell Tumor	1	0	0	1

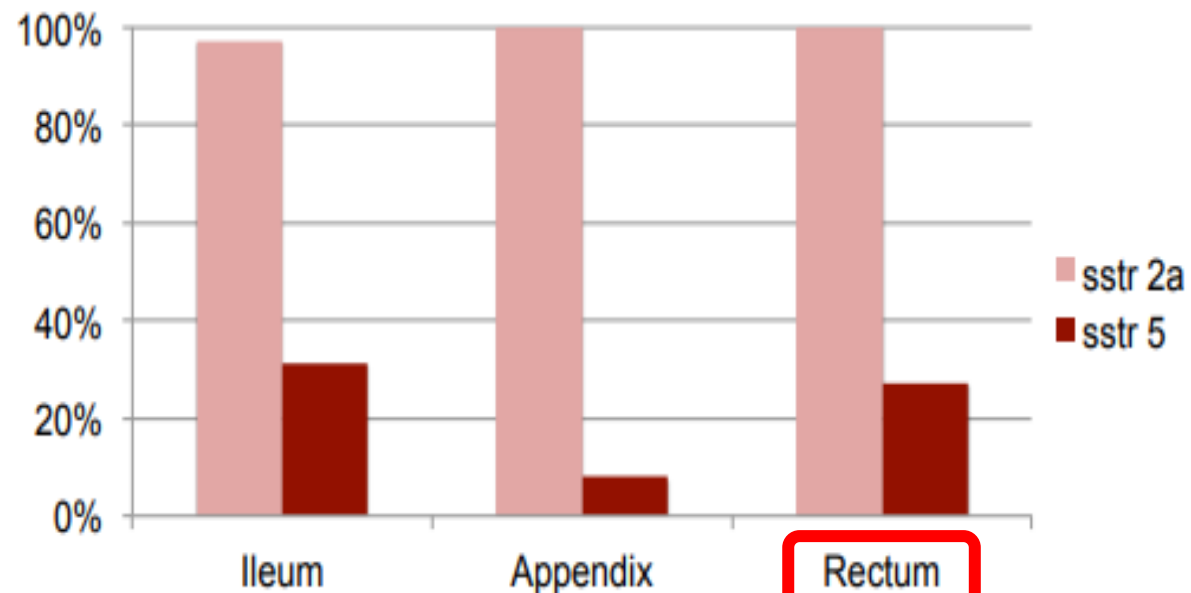


Figure 1. Distribution of sstr 2a and 5.

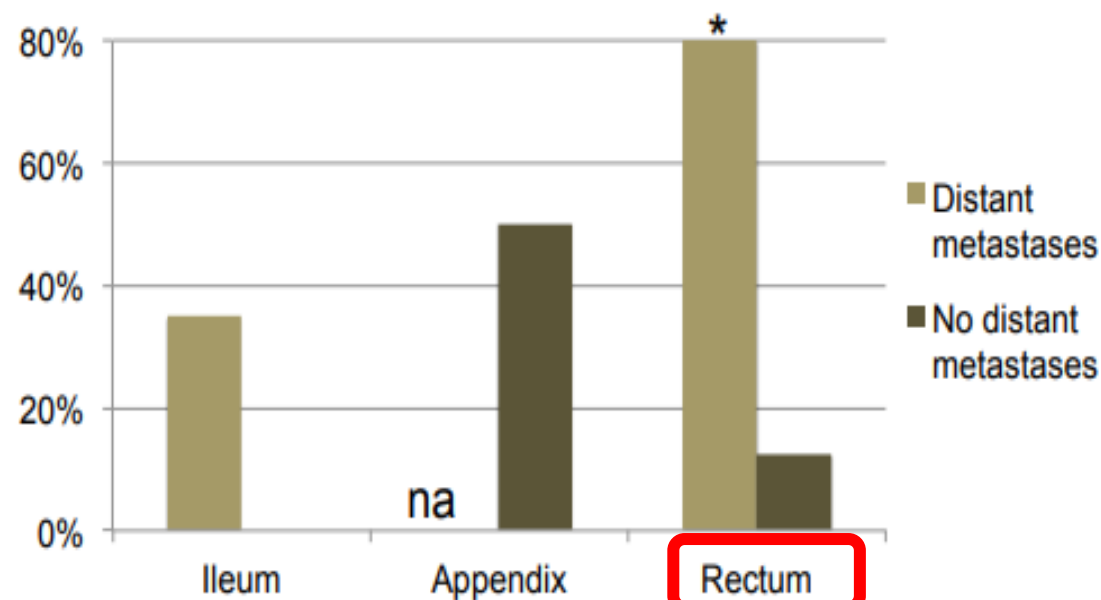


Figure 2. Somatic mutations in tumour entities with distant metastases vs non-metastasized tumours. * ($p=0.0319$).

Analysis of the molecular features of rectal carcinoid tumors to identify new biomarkers that predict biological malignancy

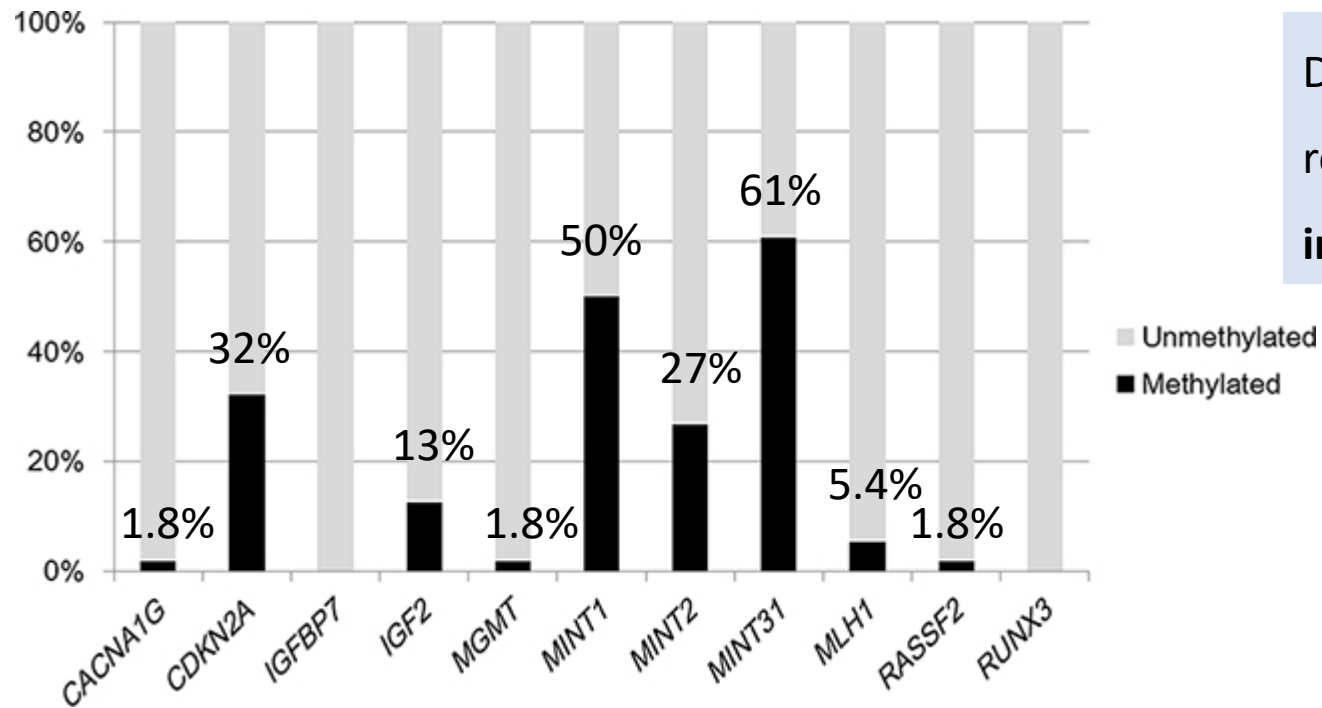
No BRAF, KRAS, NRAS, or PIK3CA mutations were detected in the carcinoid tumors; moreover, none of the 56 cases exhibited MSI-high status

Clinical and molecular feature	Total	Lymphovascular invasion		<i>P</i>
		Negative	Positive	
All cases	56	43	13	
Gender				
Male	29 (52%)	21 (49%)	8 (62%)	0.42
Female	27 (48%)	22 (51%)	5 (38%)	
Age (mean ± SD)	58.9 ± 13.9	58.3 ± 2.1	61.0 ± 3.8	0.53
Tumor size (mm) (mean ± SD)	6.2 ± 2.5	5.9 ± 0.37	7.0 ± 0.68	0.17

Mitsuhashi K, 2015

Mitsuhashi K., Yamamoto I., Kurihara H., Kanno S., Ito M., Igarashi H., Ishigami K., Sukawa Y., Tachibana M., Takahashi H., Tokino T., Maruyama R., Suzuki H., et al Analysis of the molecular features of rectal carcinoid tumors to identify new biomarkers that predict biological malignancy. *Oncotarget*. 2015; 6: 22114-22125.

Analysis of the molecular features of rectal carcinoid tumors to identify new biomarkers that predict biological malignancy



Detection of high **microRNA-885-5p** expression in rectal carcinoid tumors **with lymphovascular invasion** on miRNA array analysis

Mitsuhashi K, 2015

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Lanreotide in Metastatic Enteropancreatic Neuroendocrine Tumors

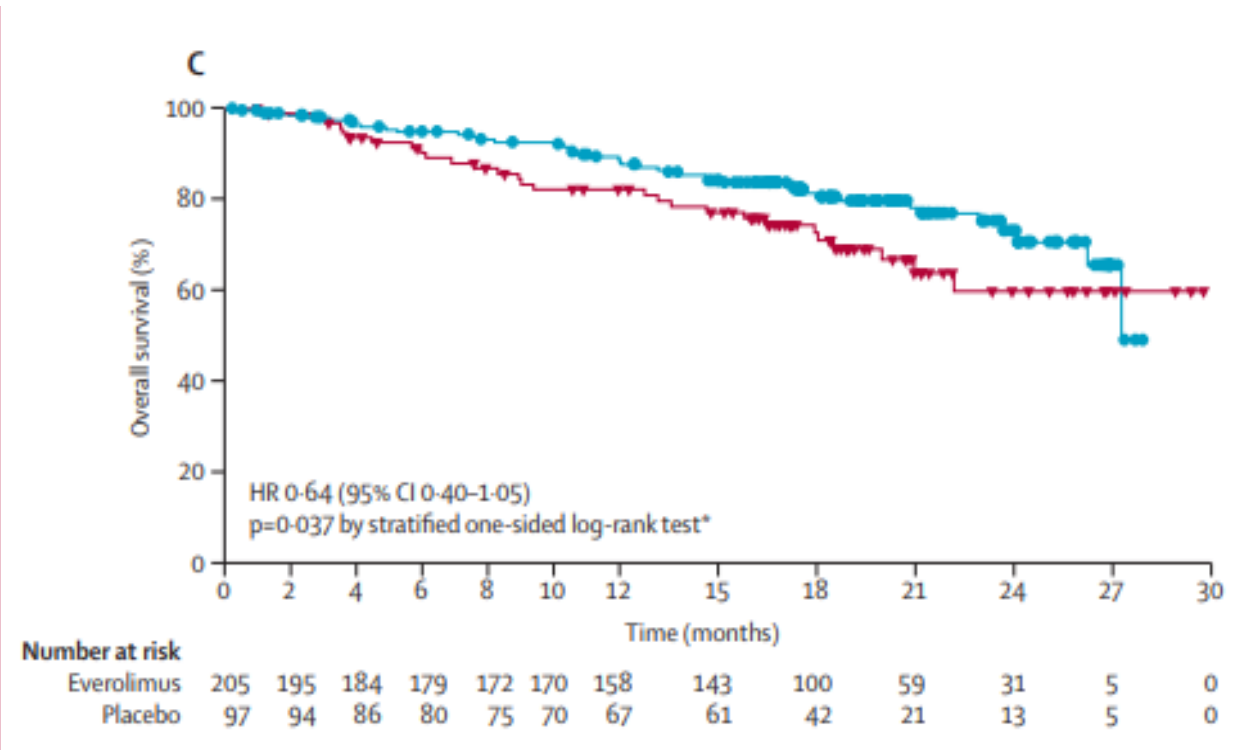
METHODS

PATIENTS

Eligible patients were adults (≥ 18 years of age) with sporadic neuroendocrine tumors that were confirmed centrally to be well differentiated or moderately differentiated and measurable according to the Response Evaluation Criteria in Solid Tumors (RECIST), version 1.0.12 The tumors had a centrally assessed proliferation index (on staining for the Ki-67 antigen) of less than 10% (or a mitotic index of ≤ 2 mitoses per 10 high-power fields, if the Ki-67 index could not be quantified reliably). **Primary tumors were located in the pancreas, midgut (defined as the small intestine and appendix), or hindgut (defined as the large intestine, rectum, anal canal, and anus) or were of unknown origin.**

Everolimus for the treatment of advanced, non-functional neuroendocrine tumours of the lung or gastrointestinal tract (RADIANT-4): a randomised, placebo-controlled, phase 3 study

	Everolimus (n=205)	Placebo (n=97)
Age, years	65 (22–86)	60 (24–83)
Sex		
Men	89 (43%)	53 (55%)
Women	116 (57%)	44 (45%)
WHO performance status*		
0	149 (73%)	73 (75%)
1	55 (27%)	24 (25%)
Primary tumour site		
Lung	63 (31%)	27 (28%)
Ileum	47 (23%)	24 (25%)
Rectum	25 (12%)	15 (16%)
Neuroendocrine tumour of unknown primary origin†	23 (11%)	13 (13%)
Jejunum	16 (8%)	6 (6%)
Stomach	7 (3%)	4 (4%)
Duodenum	8 (4%)	2 (2%)
Colon	5 (2%)	3 (3%)
Other‡	6 (3%)	2 (2%)
Caecum	4 (2%)	1 (1%)
Appendix	1 (1%)	0
Tumour grade§		
Grade 1	129 (63%)	65 (67%)
Grade 2	75 (37%)	32 (33%)



Phase 3 Trial of ^{177}Lu -Dotatate for Midgut Neuroendocrine Tumors

Jonathan Strosberg, M.D., Ghassan El-Haddad, M.D., Edward Wolin, M.D., Andrew Hendifar, M.D., James Yao, M.D., Beth Chasen, M.D., Erik Mittra, M.D., Ph.D., Pamela L. Kunz, M.D., Matthew H. Kulke, M.D., Heather Jacene, M.D., David Bushnell, M.D., Thomas M. O'Dorisio, M.D., *et al.*, for the NETTER-1 Trial Investigators*

Table 1. Demographic and Baseline Clinical Characteristics of All Patients Who Underwent Randomization.*

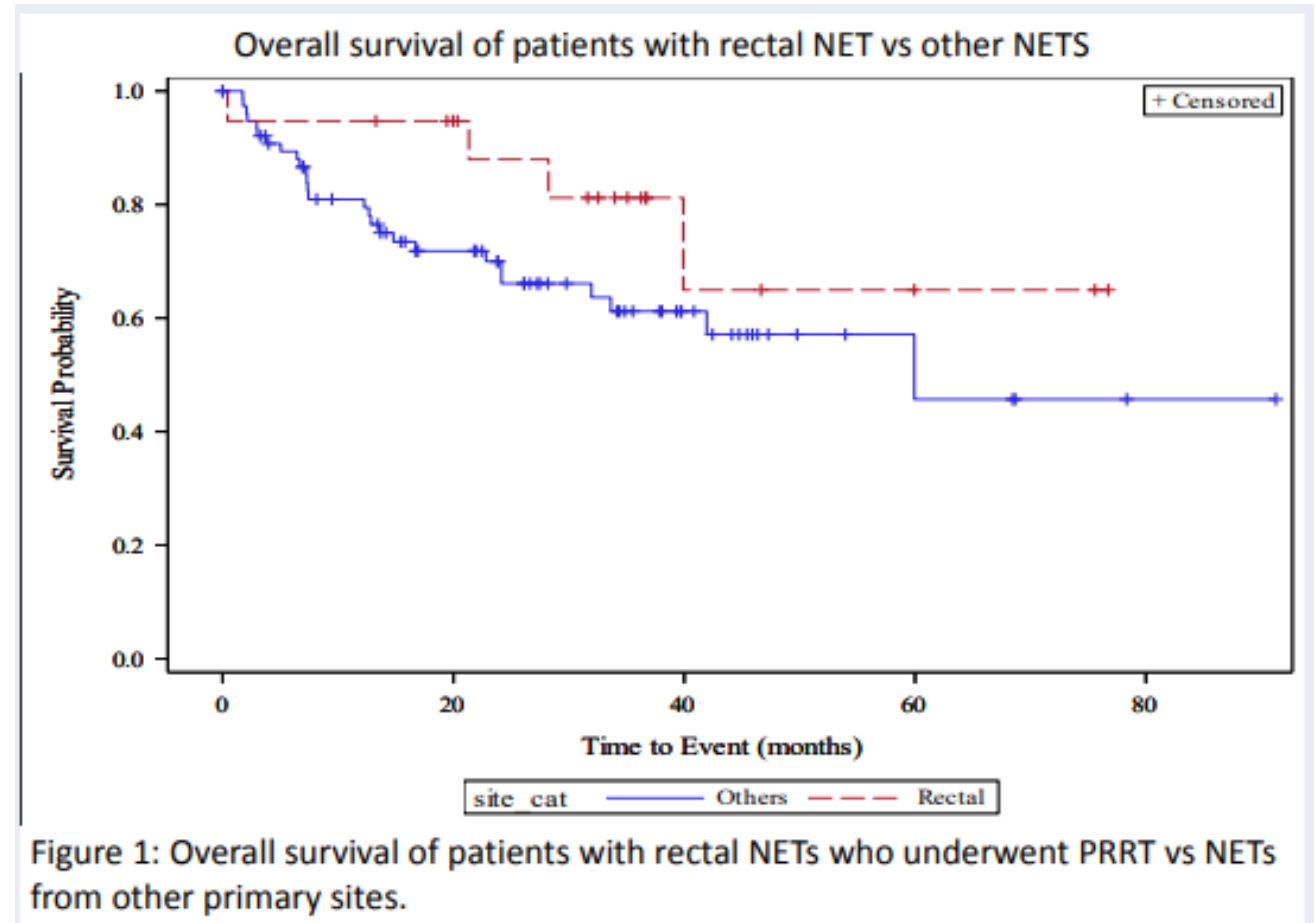
Characteristic	^{177}Lu -Dotatate Group (N=116)	Control Group (N=113)
Sex — no. (%)		
Male	63 (54)	53 (47)
Female	53 (46)	60 (53)
Age — yr	63±9	64±10
Body-mass index†	25±5	26±7
Median time since diagnosis — yr	3.8	4.8
Primary tumor site — no. (%)		
Ileum	86 (74)	82 (73)
Small intestine, not otherwise specified	11 (9)	12 (11)
Midgut, not otherwise specified	9 (8)	7 (6)
Jejunum	6 (5)	9 (8)
Right colon	3 (3)	1 (1)
Appendix	1 (1)	2 (2)

Peptide Receptor Radionuclide Therapy in Rectal Neuroendocrine Tumours

Tham WY^A, Huang HL^A, Tai WMD^B, Yan XS^A, Ng CED^A, Loke SHK^A

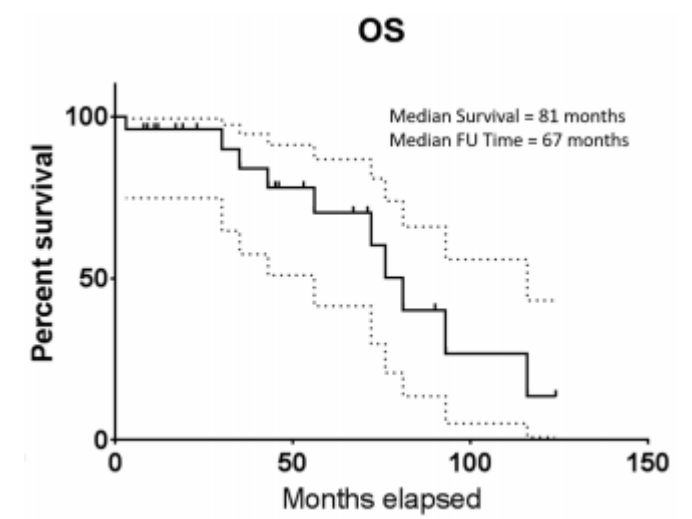
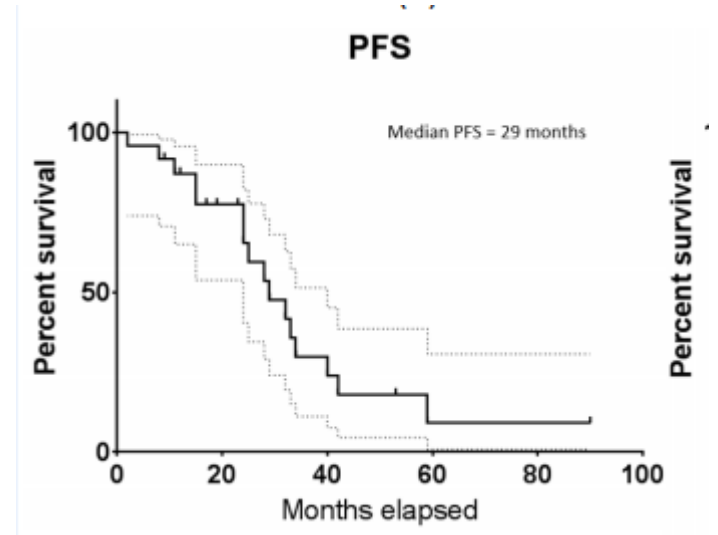
^ASingapore General Hospital, Singapore; ^BNational Cancer Centre Singapore, Singapore

Patient demographics		n=23(%)
Average age at first treatment		55
Gender		
Male		11(48)
Female		12(52)
WHO grade		
1		3(13)
2		15(65)
3		1(4)
unknown		4(17)
Sites of metastasis		
Liver		21(91)
nodes		14(61)
Bone		14(61)
Other sites (e.g. lung, peritoneum)		7(30)
Number of cycles of PRRT administered		68
Lu-177 PRRT		64
Y-90 PRRT		4
Median number of cycles		3
Median cumulative dose of Lu-177(mCi)		593



Favourable Outcomes of Peptide Receptor Radionuclide Therapy for Treatment of Metastatic Rectal Neuroendocrine Neoplasia

- 25 consecutive pts (M=18, 31-81yo) were included from 2 institutions
- Tumour origin: rectal (n=23), sigmoid (2)
- The majority 68% had ENETs Grade 2 disease (17/25 pts), three had Grade 3, one Grade 1, and four unavailable grading
- 43% (10pts) had FDG-avid disease (negative in 6 pts; not done in 9)
- 24 pts were treated for disease progression
- 88% (23/25) had prior treatments: chemotherapy (n=1), surgery (2), SSA (7), chemotherapy+surgery (3), chemotherapy+SSA+RT (2), chemotherapy+SSA+surgery (1), surgery+SSA (4), surgery+SSA+RT (2)
- Most had ¹⁷⁷Lu-DOTA-octreotate, median cumulative activity of 30 GBq, median 4 cycles (2-5 cycles)
- 14 pts had radiosensitising chemotherapy: 5FU (n=10) or capecitabine
- At 3 months post-PRRT - CT disease control rate was 96%: 60% (15/25) partial response + 36% stable disease (9/25). All but one had partial SSTR imaging response (Figure 2, 3)
- The median PFS was 29 months. Ten pts died, with median overall survival 81 months, median follow-up of 67 months (Figure 1)
- Toxicity at 3 months: 2 patients had grade 3 lymphopenia. No significant renal toxicity, secondary MDS or leukaemia on follow-up



Ευχαριστώ!

Ερωτήσεις;