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## NET CONNECT EXPERTS KNOWLEDGE SHARE

with

Prof Marianne Pavel Dr Jaume Capdevila Dr Louis de Mestier Dr Angela Lamarca

# TREATMENT SEQUENCING IN ADVANCED DIGESTIVE NET

Barcelona, Spain
Saturday 28<sup>th</sup> September
20:30-22:00

## **DISCLOSURE**



#### **NET CONNECT**

is supported by an Independent Educational Grant from IPSEN

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# NET CONNECT EXPERTS KNOWLEDGE SHARE 2019



#### THE SCIENTIFIC COMMITTEE

- Prof. Marianne Pavel
- Dr. Jaume Capdevila
- Dr. Angela Lamarca
- Dr. Louis de Mestier









#### THE DISCUSSION

Treatment sequencing in advanced digestive NET: Challenges in clinical practice

#### **BACKGROUND AND APPROACHES CONSIDERED**

- Overview of available treatment options and key trials Dr. Capdevila
- Treatment choices for Metastatic low grade SI-NET- *Dr. de Mestier*
- Treatment choices for Metastatic grade 2 pNET- Dr. Lamarca
- Summary of discussion Prof. Pavel

## **SCIENTIFIC COMMITTEE DISCLOSURES**



- Prof Marianne Pavel has received financial research support from IPSEN and Novartis (former institution), and consultation or speaker fees from the following companies: IPSEN, Novartis, Pfizer, Lexicon, Prime Oncology
- Dr Jaume Capdevila has received financial support/sponsorship for research support, consultation or speaker fees from the following companies: Bayer, Eisai, Advanced Accelerator Applications, Novartis, IPSEN, Pfizer, Merck, Sanofi, Amgen
- Dr Louis de Mestier has received financial support/sponsorship for research support, consultation or speaker fees from the following companies: IPSEN, Novartis, Pfizer
- Dr Angela Lamarca has received honoraria or consultation fees: Eisai, Nutricia, IPSEN; Participation in company sponsored speaker bureau: Pfizer, IPSEN, Merck, Incyte; Travel, education funding: IPSEN, Pfizer, Bayer, AAA, Sirtex, Novartis, Mylan, Delcath

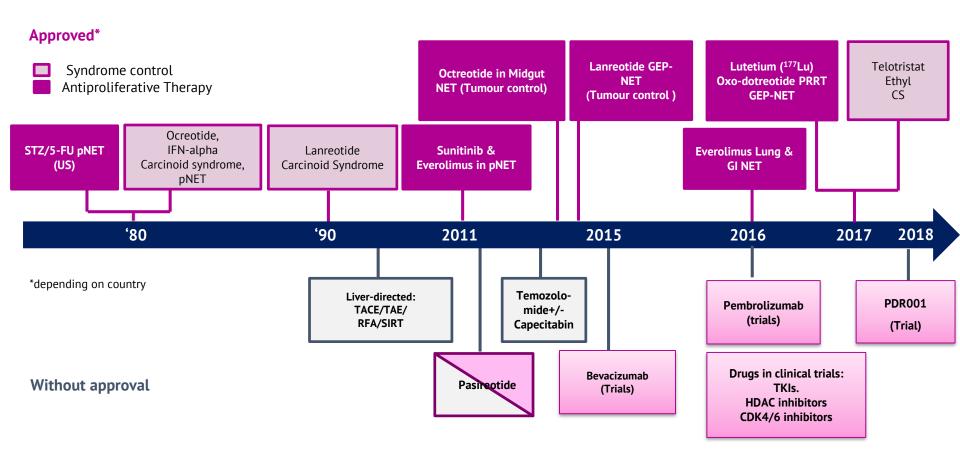
## **OVERVIEW**

## Dr Jaume Capdevila, MD, PhD

Gastrointestinal and Endocrine Tumours Group, Vall d'Hebron University Hospital and Vall d'Hebron Institute of Oncology (VHIO), Barcelona, Spain

## THERAPEUTIC OPTIONS IN NEUROENDOCRINE TUMOURS





CDK4/6, Cyclin-dependent kinase 4/6; CS, carcinoid syndrome; GEP-NET, gastroenteropancreatic neuroendocrine tumours; GI NET, gastrointestinal neuroendocrine tumour; HDAC, histone deacetylase; IFN, interferon; pNET, pancreatic neuroendocrine tumour; PRRT, peptide receptor radionuclide therapy; RFA, radiofrequency ablation; SIRT, selective internal radiation therapy; STZ/5-FU, streptozotocin/ fluorouracil; TACE, transarterial chemoembolization; TAE, transarterial embolization; TKI, tyrosine kinase inhibitors; TMZ, Temozolomide . Slide provided by Prof. Marianne Pavel

## NOVEL AGENTS FOR NEUROENDOCRINE TUMOURS



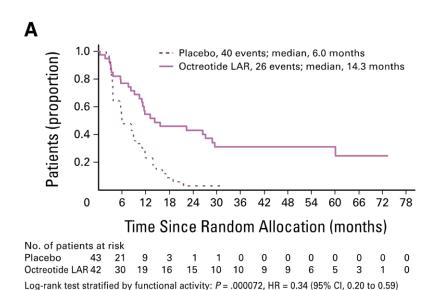
- In the past 10 years, a number of key trials reported resulting in the availability of new treatments for NETs:-
  - PROMID: Octreotide
  - RADIANT-3 & RADIANT-4: Everolimus
  - CLARINET: Lanreotide
  - NETTER-1: <sup>177</sup>Lu-DOTATATE
  - TELESTAR/ TELECAST: Telotristat Ethyl
  - Study A6181111: Sunitinib
  - ECOG-ACRIN study E2211: Temozolomide
- These trials have contributed to the current treatment recommendations and therapeutic algorithm.

## **PROMID STUDY**

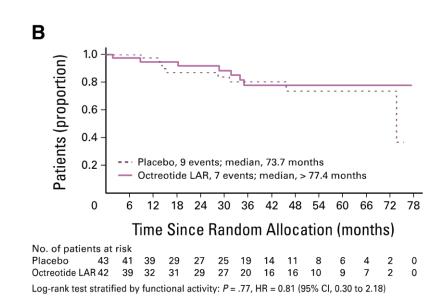
#### **OCTREOTIDE VS PLACEBO IN MIDGUT-NET**



#### PRIMARY ENDPOINT: TTP



#### **SECONDARY ENDPOINT: OS**



## **RADIANT-3 STUDY**

#### **EVEROLIMUS VS PLACEBO IN PAN-NET**

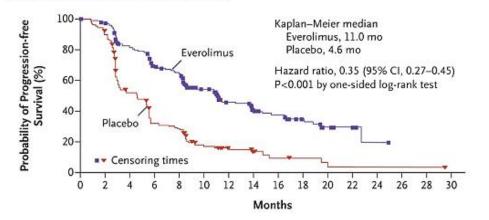


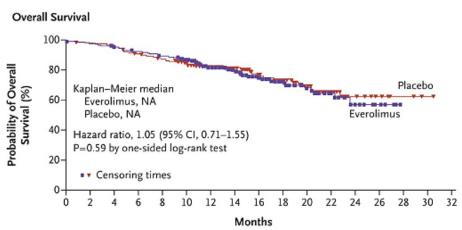
#### **PRIMARY ENDPOINT: PFS**

#### **SECONDARY ENDPOINT: OS**

N = 410 Everolimus: 207 Placebo: 203







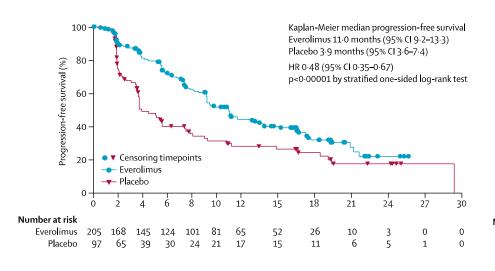
## **RADIANT-4 STUDY**

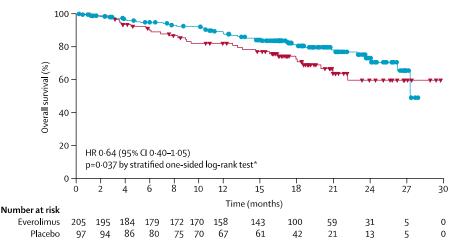
## EVEROLIMUS VS PLACEBO IN LUNG, INTESTINAL NET AND NET OF UNKNOWN ORIGIN



#### **PRIMARY ENDPOINT: PFS**

### **SECONDARY ENDPOINT: OS (premature)**



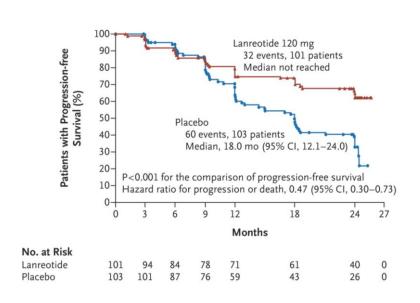


## **CLARINET STUDY**

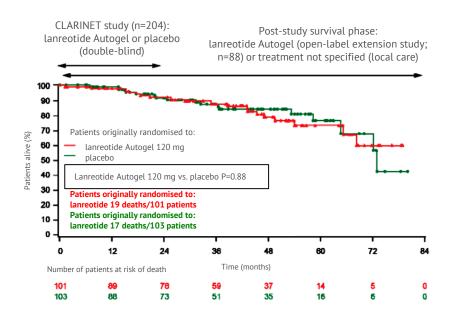
#### LANREOTIDE VS PLACEBO IN GEP-NET



#### PRIMARY ENDPOINT: PFS



### **SECONDARY ENDPOINT: OS (premature)**



## **NETTER-1 STUDY**

## 177LU-DOTATATE VS HIGH DOSE OCTREOTIDE IN MIDGUT NET



#### PRIMARY ENDPOINT: PFS

#### N=229 (ITT) 100 Number of events: 91 <sup>177</sup>Lu-Dotatate: 23 90 Oct 60 mg LAR: 68 80 **Progression-free Survival** 70 <sup>177</sup> Lu-DOTATATE (% of patients) 60 50 mPFS = NR vs 8.4 months 40 **HR 0.21** [95% CI 0.13 - 0.33] p < 30 0.001 20 10 -

15

Months since Randomization

Control

25

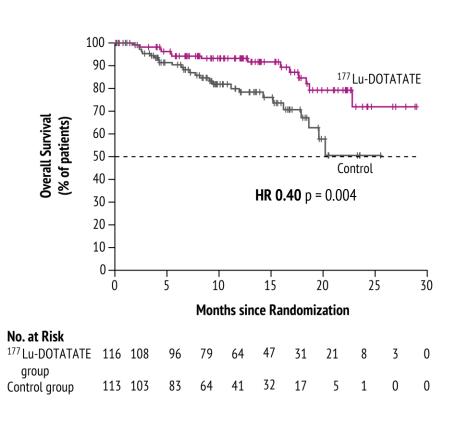
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20

## No. at Risk 177 Lu-DOTATATE 116 97 76 59 42 28 19 12 3 2 0 group Control group 113 80 47 28 17 10 4 3 1 0 0

10

### **SECONDARY ENDPOINT: OS (premature)**

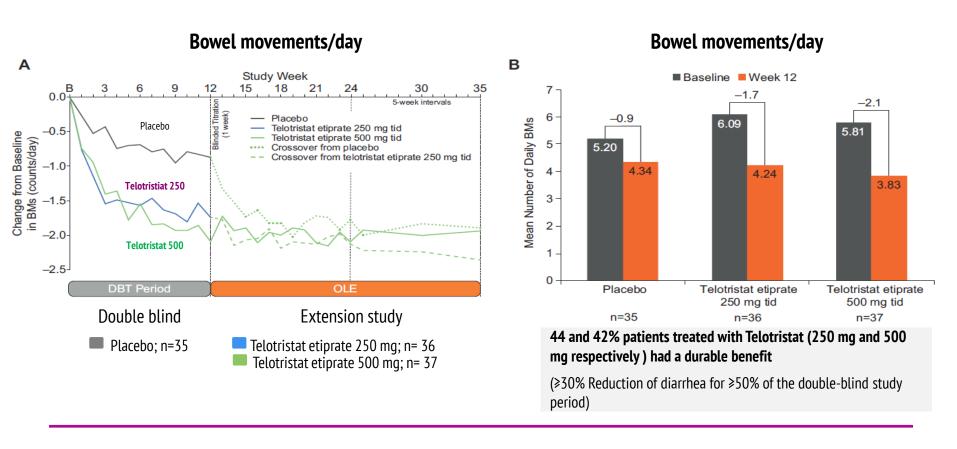


## **TELESTAR STUDY**

#### TELOTRISTAT ETHYL VS PLACEBO



### **SYMPTOM CONTROL IN REFRACTORY CARCINOID SYNDROME (PHASE 3)**

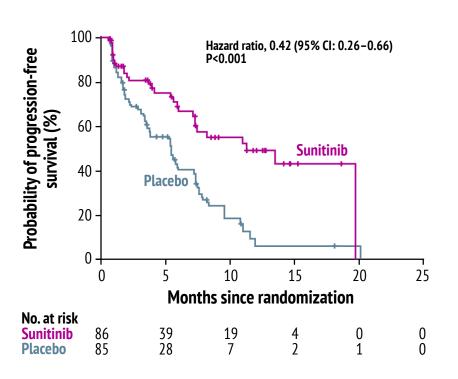


## **STUDY A6181111**

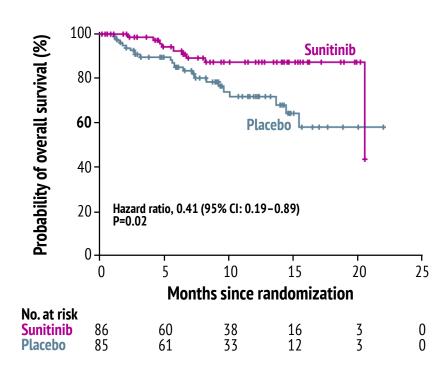
#### SUNITINIB VS PLACEBO IN PANCREATIC NET



#### **PRIMARY ENDPOINT: PFS**



#### **SECONDARY ENDPOINT: OS**



## **ECOG-ACRIN STUDY (E2211)**

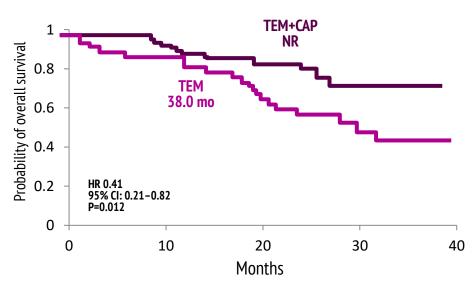
## TEMOZOLOMIDE VS TEMOZOLOMIDE + CAPECITABINE IN PANCREATIC NET



#### **PRIMARY ENDPOINT: PFS**

#### 

#### **SECONDARY ENDPOINT: OS**



## **ENETS CONSENSUS GUIDELINES**



Neuro endocrinology

#### **ENETS Consensus Guidelines**

Neuroendocrinology 2016;103:172–185 Published online: January 5, 2016 POI: 10.1159/000443167

ENETS Consensus Guidelines Update for the Management of Distant Metastatic Disease of Intestinal, Pancreatic, Bronchial Neuroendocrine Neoplasms (NEN) and NEN of Unknown Primary Site

M. Pavel<sup>a</sup> D. O'Toole<sup>b</sup> F. Costa<sup>c</sup> J. Capdevila<sup>d</sup> D. Gross<sup>e</sup> R. Kianmanesh<sup>f</sup> E. Krenning<sup>g</sup> U. Knigge<sup>h</sup> R. Salazar<sup>i</sup> U.-F. Pape<sup>a</sup> K. Öberg<sup>j</sup> all other Vienna Consensus Conference participants

#### Therapeutic options and conditions for preferential use as first-line therapy in advanced NEN

Drug	Functionality	Grading	Primary site	SSTR status	Special considerations
Octreotide	+/-	GI	Midgut	+	Lower tumor burden
Lanreotide	+/-	G1/G2 (-10%)	Midgut, pancreas	+	Low and high (>25%) liver tumor burden
IFN-alpha 2b	+/-	G1/G2	Midgut		If SSTR negative
STZ/5-FU	+/-	G1/G2	Pancreas		Progressive in short- term* or high tumor burden or symptomatic
TEM/CAP	+/-	G2	Pancreas		Progressive in short- term* or high tumor burden or symptomatic; if STZ is contraindicated or not available
Everolimus	+/-	G1/G2	Lung		Atypical carcinoid and/or SSTR negative
			Pancreas		Insulinoma or contraindication for CTX
			Midgut		If SSTR negative
Sunitinib	+/-	G1/G2	Pancreas		Contraindication for CTX
PRRT	+/-	G1/G2	Midgut	+ (required)	Extended disease; extrahepatic disease, e.g. bone metastasis
Cisplatin§/ etoposide	+/-	G3	Any		All poorly differentiated NEC

<sup>\* ≤6-12</sup> months; §Cisplatin can be replaced by carboplatin.

## OVERVIEW OF KEY ON-GOING CLINICAL TRIALS IN NETS



	2018	2019	2020	2021	2022
Pancreatic NETs	<b>E2201</b> Spartalizumab	<b>SANET-p</b> Surufatinib vs Placebo	<b>DUNE</b> Durvalumab +  Tremelimumab	SEQTOR Everolimus vs STZ-5FU	CABATEN  Cabozantinib +  Atezolizumab
	TALENT Lenvatinib	SUNEVO Sunitinib + Evofosfamide	RESUNET Sunitinib	COMPETE  Everolimus vs 177Lu-edotreotide	CABINET Cabozantinib vs Placebo
Non-Pancreatic NETs	<b>E2201</b> Spartalizumab	SANET-ep Surufatinib vs Placebo	<b>AXINET</b> Axitinib + Octreotide vs Octreotide	COMPETE  Everolimus vs 177Lu-edotreotide	<b>CABINET</b> Cabozantinib vs Placebo
	TALENT Lenvatinib		<b>DUNE</b> Durvalumab +  Tremelimumab		TELEFIRST LAN +/- Telotristat
NECs	<b>E2201</b> Spartalizumab		NABNEC  NAB-Paclitaxel + Carboplatin vs Carboplatin- Etoposide		CABATEN  Cabozantinib +  Atezolizumab
			<b>DUNE</b> Durvalumab +  Tremelimumab		SENECA FOLFIRI vs CAPTEM
	Phase II Trial Phase III Trial		<b>EVINEC</b> Everolimus		





## DOES ONE SIZE FIT ALL?

The following patient case studies will help answer this question.

# PATIENT CASE 1: METASTATIC LOW G2 (ki67 5%) SMALL INTESTINE NET

## Dr Louis de Mestier, MD

Dept Gastroenterology-Pancreatology ENETS Centre of Excellence Beaujon Hospital, University of Paris Clichy, France

# THERAPEUTIC OPTIONS FOR ADVANCED SI NET



- Watch and wait
- Long-acting somatostatin analogs
- Resection ablation of metastases
- Liver transarterial embolization
- <sup>177</sup>Lu-DOTATATE PRRT
- Everolimus
- Interferon-alpha
- Chemotherapy
- Clinical trials

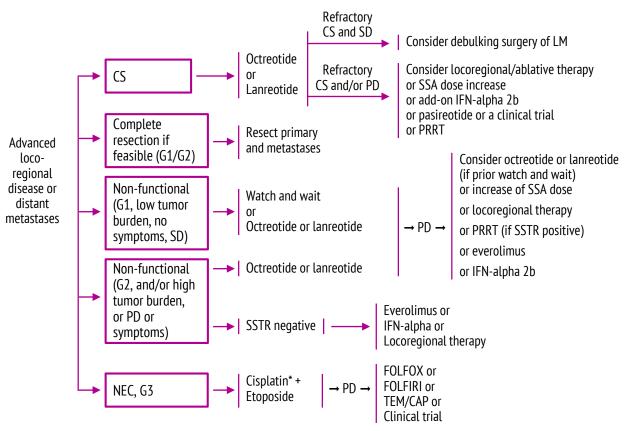


Treatment must be individualized

# THERAPEUTIC DECISION MUST BE PERSONALIZED



#### MANAGEMENT OF INTESTINAL (MIDGUT) NEN

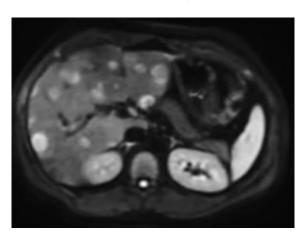


\*Cisplatin may be replaced by carboplatin

## CASE 1: MR. D. O.



- 42 years old
- No particular history
- June 2014: abdominal pain and postprandial flushing. WHO-PS =  $\Theta$
- CT-scan and MRI: multiple liver mets, mesenteric lymph-node complex
- Liver biopsy: well-diff NET, Ki67 = 5%
- Positive SST-receptor scintigraphy
- 5-HIAA = 4xN, Echocardiography: no sign of carcinoid heart disease







## WHAT TREATMENT SHOULD WE CONSIDER FIRST?



- SST analogs with antisecretory intent?
- Surgery of the primary tumour(s) and associated LN metastases?
- Treatment of the metastatic disease:
  - Watch and wait ?
  - SST analogs ?
  - Liver transarterial embolization?
  - Everolimus ?
  - <sup>177</sup>Lu-DOTATATE PRRT ?
  - Chemotherapy ?

- Small-intestine NET
- Carcinoid syndrome
- G2
- Liver involvement 30-50%
- Metastases non-resectable

# WHAT TREATMENT SHOULD WE CONSIDER FIRST?



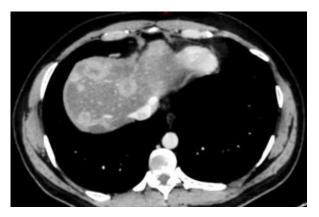
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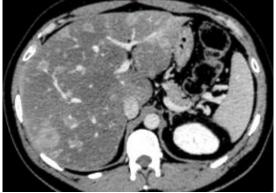
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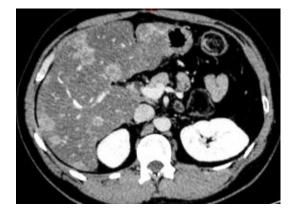
# WHAT TREATMENT SHOULD WE CONSIDER FIRST?



- July 2014:
  - Right ileocolectomy, mesenteric lymphadenectomy, cholecystectomy
  - 6 siNETs, max 2 cm, pT4N+M+, Ki67 = 5%
- July 2014: lanreotide AG 120 mg
- December 2015: carcinoid syndrome not completely controlled
- CT: Hepatic progression, increase in size and new lesions, no new lesions elsewhere







## WHAT SECOND-LINE TREATMENT?



- Double-dose SST analogs ?
- Liver transarterial embolization ?
- Everolimus?
- <sup>177</sup>Lu-DOTATATE PRRT ?
- Chemotherapy?

- G2, liver involvement 30-50 %
- Fast progression under SST analogs
- Uncontrolled functioning syndrome
- Disease restricted to the liver
- Positive SST-receptor imaging

## WHAT SECOND-LINE TREATMENT?



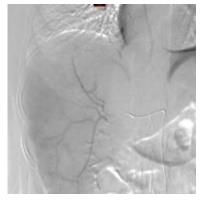
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- Chemotherapy?

- G2, liver involvement 30-50 %
- Fast progression under SST analogs
- Uncontrolled functioning syndrome
- Disease restricted to the liver
- Positive SST-receptor imaging

## WHAT SECOND-LINE TREATMENT?



- January 2016 and April 2016:
  - 2 procedures of liver transarterial embolization
     + continuation of lanreotide AG 120 mg / 28 days
  - Good symptomatic response
  - Prolonged morphological control









July 2016

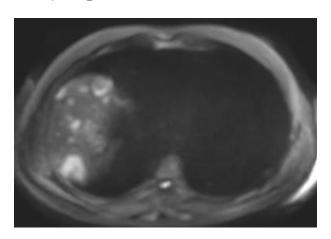


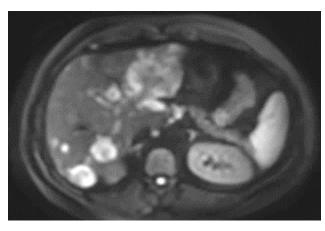
**July 2017** 

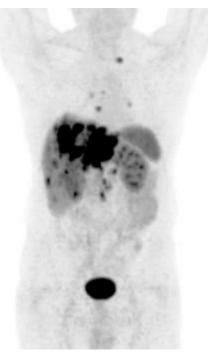
## WHAT HAPPENED NEXT



- The patient remained stable until April 2018
- Mild carcinoid syndrome under SST analogue
- Recent weight loss and abdominal pain, flushing (3 per day) and diarrhea (5 BM per day)
- 5-HIAA 8N and CgA 10N
- CT, MRI and DOTATOC-PET: liver and extrahepatic progression







## WHAT THIRD-LINE TREATMENT?



- Liver transarterial embolization?
- Everolimus?
- <sup>177</sup>Lu-DOTATATE PRRT ?
- Chemotherapy?

- G2, liver involvement 30-50 %
- Progression
- Uncontrolled functioning syndrome
- Extra-hepatic disease
- Positive SST-receptor imaging

## WHAT THIRD-LINE TREATMENT?



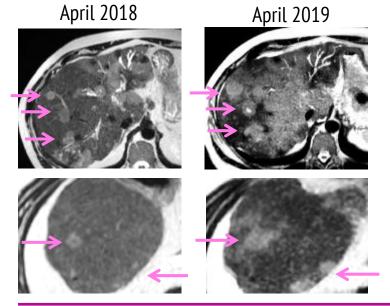
- Liver transarterial embolization ?
- Everolimus?
- 177Lu-DOTATATE PRRT
- Chemotherapy?

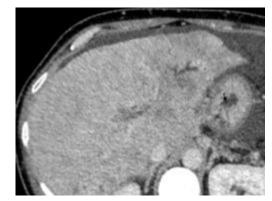
- G2, liver involvement 30-50 %
- Progression
- Uncontrolled functioning syndrome
- Extra-hepatic disease
- Positive SST-receptor imaging

### WHAT THIRD-LINE TREATMENT?



- May 2018 to January 2019: 4 cycles of 177Lu-DOTATATE, yielded tumour control
- April 2019: clinical worsening: WHO-PS 1-2, weight loss, abdominal pain, carcinoid syndrome
- MRI: progression, increase in size and new lesions (liver and lymph nodes)





- Liver deterioration related to diffuse infiltration of the left lobe
- Ascites
- Segmental biliary dilatation
- Mild perturbations of the liver tests

## WHAT FOURTH-LINE TREATMENT?



- Liver transarterial embolization?
- Everolimus?
- Chemotherapy?
- Best supportive care ?

- G2, liver involvement 50 %
- Fast progression
- Uncontrolled functioning syndrome
- Extra-hepatic disease
- Signs of liver deterioration

## WHAT FOURTH-LINE TREATMENT?



- Liver transarterial embolization?
- Everolimus?
- Chemotherapy
- Best supportive care ?

- G2, liver involvement 50 %
- Fast progression
- Uncontrolled functioning syndrome
- Extra-hepatic disease
- Signs of liver deterioration

## WHAT FOURTH-LINE TREATMENT?



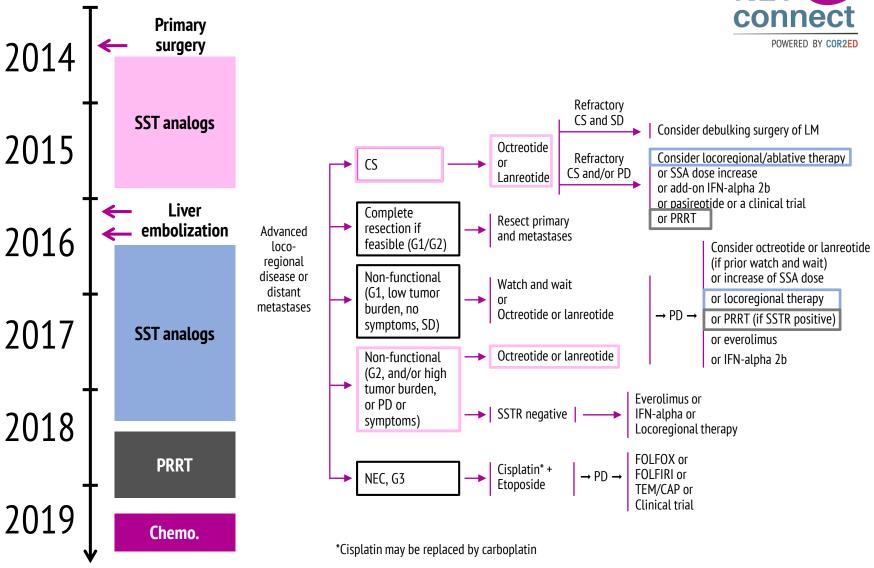
- May 2019 to September 2019 : 5 cycles of FOLFOX-bevacizumab
- Clinical worsening: WHO-PS 3, abdominal pain, carcinoid syndrome
- CT-scan: progression
- Decision of palliative care





#### **SUMMARY - CASE 1**

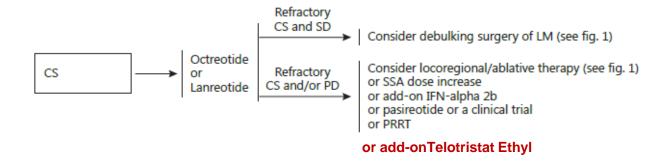




Chemo, chemotherapy; CS, carcinoid syndrome; FOLFIRI, folinic acid, fluorouracil and irinotecan; FOLFOX, folinic acid, fluorouracil and oxaliplatin; IFN, interferon; LM, liver metastasis; NEC, neuroendocrine carcinoma; PD, progressive disease; PRRT, peptide receptor radionuclide therapy; SD, stable disease; SSA, somatostatin analogues; SST, somatostatin; SSTR, somatostatin receptor; TEM/CAP, temozolomide-capecitabine.

#### **ENETS CONSENSUS GUIDELINES 2016**





Dose escalation of SSA is still a considerable approach, particularly if not only diarrhea is present but also flushing symptoms. Pasireotide can be considered (off-label) if all other options failed

## PATIENT CASE 2: METASTATIC GRADE 2 Pan-NET, ki67 15%

#### Dr Angela Lamarca MD, PhD, MSc

Department of Medical Oncology
The Christie NHS Foundation Trust
University of Manchester
United Kingdom

## POTENTIAL OPTIONS OF TREATMENT FOR Pan-NETS



- 1. Chemotherapy (TemCap; STZ/5-FU)
- 2. Clinical trials
- 3. Everolimus
- 4. IFN-alpha
- 5. Liver-directed therapies
- PRRT
- 7. SSA
- 8. Sunitinib
- 9. Surgery
- 10. Watch and wait

Could you order them by preference to be used in patients with Pan-NETs?

If all patients received all options of therapy: 3,628,800 possible sequences

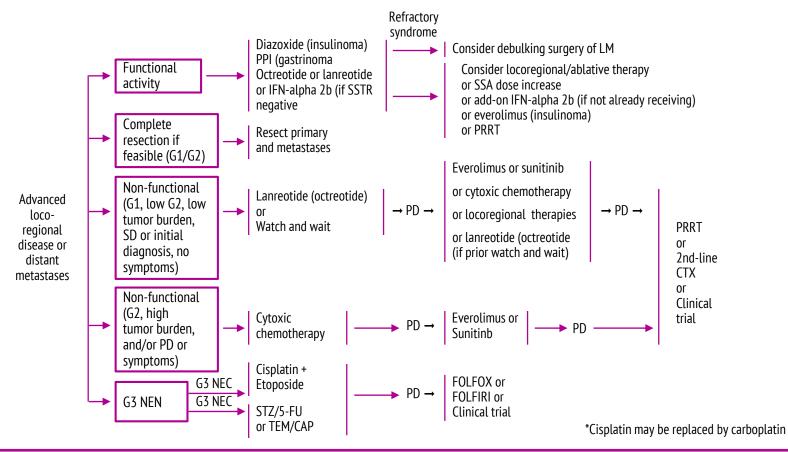
Is there only 1 correct answer?

#### **CURRENT GUIDELINES**

#### MANAGEMENT OF PANCREATIC NEN



 <u>Individualised</u> therapeutic plan based on evidence and patient's characteristics (discussion in <u>NET MDT</u>)



CS, carcinoid syndrome; CTX, chemotherapy; FOLFIRI, folinic acid, fluorouracil and irinotecan; FOLFOX, folinic acid, fluorouracil and oxaliplatin; IFN, interferon; LM, liver metastasis; MDT, multidisciplinary team; NEC, neuroendocrine carcinoma; NEN, neuroendocrine neoplasm; NET, neuroendocrine tumour; PD, progressive disease; PPI, proton pump inhibitor; PRRT, peptide receptor radionuclide therapy; SD, stable disease; SSA, somatostatin analogues; STZ/5-FU, streptozotocin/5-Fluorouracil; TEM/CAP, temozolomide-capecitabine.



- 69 years old male
- PMH: hypertension
- FMH: nil
- SH: retired, non-smoker, moderated alcohol
- Presented with abdominal pain and tiredness. Performance status 1
- January 2016: CT 7x4cm mass in the uncinate process of the pancreas;
   indeterminate liver lesions.
- February 2016: EUS-FNA well differentiated neuroendocrine tumour, Ki-67 = 15% (grade 2)



- March 2016: further staging:
  - MRI liver: multiple innumerable liver metastases
  - 68 Gallium SR- PET: Receptor positive disease within bone, liver (some uptake is heterogeneous), nodal metastases, and pancreatic mass (primary). Evidence of progression compared with previous imaging





Grade 2
Metastatic Pan-NET
Widespread disease
Progressing
High tumour burden
Ga-SR PET +ve

- SSA
- Sunitinib
- Everolimus
- TemCap
- STZ/5-FU
- PRRT





Grade 2
Metastatic Pan-NET
Widespread disease
Progressing
High tumour burden
Ga-SR PET +ve

- SSA
- Sunitinib
- Everolimus
- <u>TemCap</u>
- <u>STZ/5-FU</u>
- PRRT



- Zoledronic acid (widespread bone metastases)
- April-September 2016: TemCap
  - Partial response after 3 months: -32.6% RECIST 1.1
  - Maintained response after 6 months; treatment break
  - 3-monthly imaging until October 2017: stable
- December 2017: one of lesions within the liver increased in size;
   otherwise stable disease (1.4cm→3.2cm)
  - MDT: considered radiotherapy to liver lesion
    - Not possible due to size and further progression
    - TemCap restarted → new progression after 3 months
  - MDT: New biopsy confirmed G2 NET with areas of G3 NEC
    - Mitotic index is 22 per 10 high power fields; Ki-67 not available





Grade 2; areas of G3-NEC
Metastatic Pan-NET
Widespread disease
Progressing
High tumour burden
Ga-SR PET +ve

- Everolimus
- SSA
- Sunitinib
- Platinum-Etoposide
- Other chemotherapy
- PRRT





Grade 2; areas of G3-NEC
Metastatic Pan-NET
Widespread disease
Progressing
High tumour burden
Ga-SR PET +ve

- Everolimus
- SSA
- Sunitinib
- <u>Platinum-Etoposide</u>
- Other chemotherapy
- PRRT



- March 2018: started Platinum-Etoposide
- New progression after 3 months





Grade 2; areas of G3-NEC Metastatic Pan-NET Widespread disease Progressing High tumour burden Ga-SR PET +ve

- Everolimus
- Best supportive care
- PRRT
- Sunitinib
- Other





Grade 2; areas of G3-NEC Metastatic Pan-NET Widespread disease Progressing High tumour burden Ga-SR PET +ve

- Everolimus
- Best supportive care
- PRRT
- Sunitinib
- Other



- Ga-SR PET repeated: +ve disease confirmed
- PRRT:
  - #1 Sept 2018; #2 Oct 2018
  - CT scan: Stable disease → planned for #3 (cancelled)
  - Drop platelets after #2: further PRRT could not proceed
- MDT: Everolimus vs FOLFIRI
  - Feb 2019: favoured everolimus (due to myelosuppression following PRRT)
- Mar 2019: clinical deterioration
  - Best supportive care (passed away April 2019)

#### TAKE HOME MESSAGE



- Every patient diagnosed with Pan-NETs requires an individualised plan of treatment based on:
  - Grade
  - Disease spread / tumour burden
  - Localisation of disease
  - Symptoms
  - Performance status
- Discussion in NET MDT is warranted

#### **SUMMARY**

#### **Prof Marianne Pavel, MD**

Gastroenterology, Pulmonology and Endocrinology Department of Medicine 1, University of Erlangen, Germany

## TUMOUR FEATURES IMPACT ON TREATMENT CHOICES



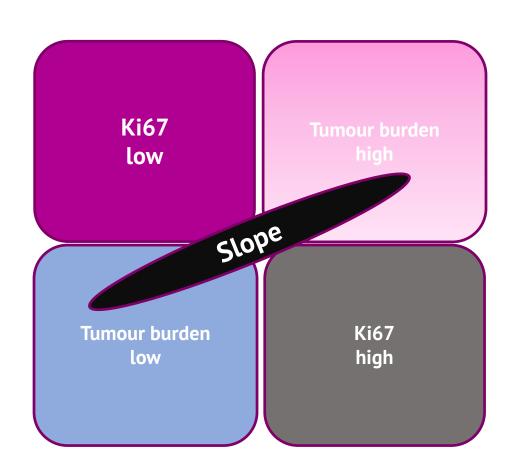
		Well differentiat	ted	Poorly differentiated
ENETS Grade	Low (G1)	Intermediate (G2)	High (G3)	High (G3)
Ki67 (%)	< 2%	3-20	>20	>20
Growth (Imaging)	No/ slowly	moderate	more rapid	rapid
Functional imaging	SRI +ve			FDG PET +ve
Prognosis	Indolent			Poor
Therapy	Surgery			Chemotherapy
	SSA	PRRT, Targ	geted drugs	?
Adjuvant therapy		No		Yes

## PARAMETERS WITH IMPACT ON DECISION MAKING



- Age
- ECOG PS
- Functional activity
- Elevated biomarkers
- Comorbidities

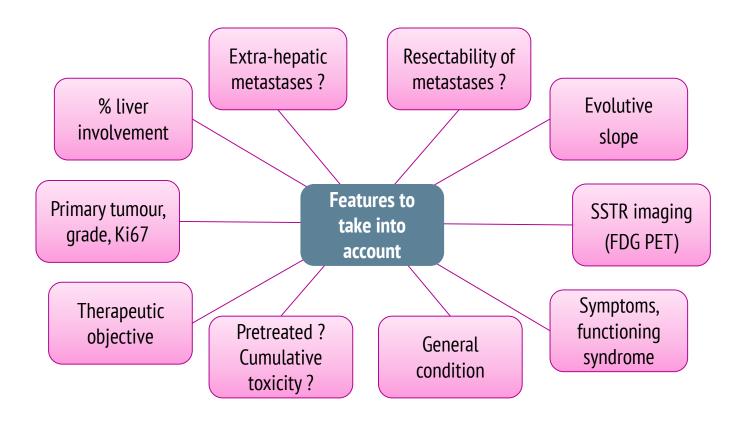
Nomograms for NET G1/2 and NEC



## THERE IS NO SINGLE APPROACH TO TREAT PATIENTS WITH METASTATIC NEN



#### ALL CASES TO BE DISCUSSED IN EXPERT MDT MEETING



# REACH NET CONNECT VIA TWITTER, LINKEDIN, VIMEO AND EMAIL OR VISIT THE GROUP'S WEBSITE <a href="http://www.net-connect.info">http://www.net-connect.info</a>



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