Specifications for the Certification of ENETS NET* Centers Vers. 9.0 [Incl. specifications for a Pilot Phase of an extended Scope** to Pulmonary NET]

*Within this specification, the term "NET" remains here for historic reasons. It refers to "NEN" and implicates

- Gastrointestinal (GEP) NEN and
- Gastrointestinal (GEP) NEC as well as
- Neuroendocrine CUP

These entities are to be discussed in a NET MDT and 'count' for the ENETS CoE.

**The extended scope for ENETS CoE therefore comprises:

- Pulmonary (PULM) NETs (typical and atypical carcinoid) and
- Borderline Pulmonary (PULM) NET/NEC cases
- DIPNECH

These entities should be discussed in a NET MDT and 'count' for the ENETS CoE extended scope

Definition of pulmonary NENs:

Pulmonary NENs comprise NETs (e.g. typical and atypical carcinoid) and NECs (e.g. small-cell and large-cell neuroendocrine carcinoma). Pulmonary NECs are usually treated by pulmonary oncologists, although there might be borderline NEC/NET cases which require NET expertise.

Borderline NET /NEC cases (borderline: doubt about tumor morphology or the presence of high KI-67 /mitosis index with a well differentiated morphology) should be discussed in a NET MDT.

In this version of the CoE specifications, all changes and/or additions are highlighted in blue.

Also, a number of requirements were identified as being dispensable during the revision process; these have been crossed out and are highlighted in yellow for easy visibility.



ENETS CoE Requirements Catalogue-Vers. 9.0 incl. pilot phase PULM NET [Draft 2020-08-07]

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1. Structure

Rationale:

A center or network of excellence applying for certification needs a clear organisational structure.

Responsibilities and decision-making conditions within the management and affiliated treatment partners are to be displayed / written down (e. g. cooperation treaties /by-laws / procedural rules / standing rules). These agreements provide the basis of structured, efficient, well-founded multidisciplinary medical treatment and patient management within the center / network. Regulations should be directed toward the improvement of patient care and patient satisfaction.

Kindly note: Chapter 1. of this requirements catalogue is part of the annual return data

1.1. Organisational Chart/ Management Structure		Guidance: Please fill in center information in this column Add further information as an appendix.	
1.1.1 Center administration / Steering committee	One person and a deputy should be nominated as "Head of the Center" (mandatory) Their tasks should be defined according to local conditions. (mandatory)	Please provide a task description as an appendix (For guidance there is a template available)	
1.1.2 Center coordination	A center coordinator should be nominated (mandatory) (could be vice to the head of center) A task description has to be provided (mandatory)		
1.1.3 Contact partner for all practitioners	A contact partner for all practitioners should be named, e.g. NET-specialist / organiser tumor board. (optional)		
1.1.4 Patient coordinator	A patient coordinator should be defined, including deputising this position. (e.g.NET-Specialist, e.g. dedicated nurse) (mandatory) A description of tasks, including responsibility for efficiency in patient management has to be provided. (mandatory)	Please provide a task description as an appendix (For guidance there is a template available) One person might be named for several duties e.g. as "contact partner" and "patient coordinator"	
1.1.5 Quality management coordinator	A quality management coordinator (internal quality) has to be named (nomination / appointment of one person). (mandatory) A description of tasks has to be provided (mandatory)	Please provide a task description as an appendix (For guidance there is a template available)	

1.2. Main partners/core partners

Please fill in center information. If needed, add further information as an appendix.

The following specialisations are mandatory for the treatment of NET patients and are named main- or core partners. These partners can be decentralised liaison- or cooperation partners, if not available at the site of the center. All partners at the



center of excellence should establish written cooperation agreements to determine general and subject-specific cooperation conditions. Due to local or country-related circumstances, expertise in one field might be covered by other disciplines – this should be explained in writing. It is essential to have the expertise available, not necessarily the discipline.

It is important that in addition to specific qualifications required for each given specialist within their national structure, the NET main partner expert should provide <u>proof of expertise within the NET domain</u> (e.g., duration of time devoted to NET expertise, proof of attending specific NET courses and meetings [either giving lectures or as part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET specialist colleague, then this should be stated and an educational plan should be provided by the specialist in conjunction with the NET leader in your centre.

Stated and an educational plan si	iodia be provided by the specialist in conjunction with the NET leader in your centre.	
1.2.1 Gastroenterology	Please fill in names and addresses and up-date in your individual [GEP] NET Center	
(expertise)	account on the ENETS website	
1.2.2 Endocrinology		
(expertise)		
1.2.3 Oncology (expertise)		
1.2.4 Pathology		
1.2.5 Radiology		
1.2.6 Nuclear Medicine		
(expertise)		
1.2.7 Visceral Surgery (may		
be within endocrine		
surgery)		
1.2.8 Endocrine Surgery (may		
be within visceral		
surgery)		
1.2.9 Thoracic surgeon	The thoracic surgeon is a main partner, if the centre applies for certification of the	
	'extended scope on Pulmonary NET'	
1.2.10 Pulmonologist	The pulmonologist is a main partner, if the centre applies for certification of the	
	'extended scope on Pulmonary NET'	
1.2.11 Contract issues	Please formulate your contracts according to local conditions and consider all issues	
	mentioned. Please upload your contracts (new or updated) as part of the file of	
	evidence to the document system of the certification company prior to the on-site	
	audit (this is due for all centers either initial certification or re-certification	
	(For guidance: there is a contract/agreement template available)	
	The following issues must be addressed with the main partners:	
	Assignment of responsibilities in the center	
	Determination of contact partners	
	3. Implementation of quality goals	
	4. Decision on obligatory attendance of tumor conference	
	5. Guarantee of availability	
	6. Definition of qualification (curriculum / CV) and continuing education	
	requirements	
	7. Description of processes (diagnostics / treatment) that are relevant for the	
	center, including description of interfaces and disclosure of information (with	
	adherence to specific timeframes)	
	8. Requirement to implement ENETS Guidelines and SOPs	
	Description of cooperation regarding tumor documentation	
	9. Description of cooperation regarding tumor documentation10. Declaration of contract partners regarding the cooperation with respect to audit	
	10. Declaration of contract partners regarding the cooperation with respect to audit	
	10. Declaration of contract partners regarding the cooperation with respect to audit11. Obligation for the contractors to implement legal requirements according to	
	 10. Declaration of contract partners regarding the cooperation with respect to audit 11. Obligation for the contractors to implement legal requirements according to national health bodies (occupational health and safety requirements [Medical 	
	 10. Declaration of contract partners regarding the cooperation with respect to audit 11. Obligation for the contractors to implement legal requirements according to national health bodies (occupational health and safety requirements [Medical Device, Operator Ordinance], etc.) 	

1.3. Secondary Partners

Please fill in center information. If needed, add further information as an appendix.

Defined access to the following specialities is mandatory for the treatment of NET patients. These specializsations, named secondary partners, can be decentralised liaison partners.

Please provide detailed information about your network of secondary partners and **describe the pathways of collaboration** and communication (no formal contracts and agreements required anymore) according to (at least local) best practice standards.



1.3.1 Laboratory (accredited)	Special diagnostics - tumor marker, CgA, 5-HIAA, insulin, pro-insulin, gastrin, somatostatin ,VIP etc.	
1.3.2 Genetics (accredited laboratory)	Genetic analysis of: MEN I /MEN II /Von Hippel Lindau. Genetic counseling.	
1.3.3 Cardiology	Centerio ununysis on mero y mero my von impper emiddar centerio counseinig.	
1.3.4 Cardiac Surgery		
1.3.5 Thoracic Surgery	If the centre applies for the extended scope, thoracic surgery is a main partner of the centre \rightarrow see 1.2.9	
1.3.6 Transplant Surgery	Transplant surgery is an optional partner of the NET centre. Please name this partner if transplantation is part of your therapy portfolio for NET	
1.3.7 Radiotherapy		
1.3.8 Palliative Care		
1.3.9 Pain Therapy		

1.4. Supportive Care Partners

Please fill in center information.

If needed, add further information as an appendix.

Recent patients' surveys revealed that there is very little psychological support available for NET patients in general, although patients would appreciate and require this kind of counseling.

The following specialities of supportive care are important for the treatment and psychosocial support of NET patients in a center.

A description of collaboration and communication according to best practice standards is required for each of the mentioned supportive care partners.

1.4.1	Psychosocial support		
	offers		
1.4.2	Nutrition expert		
1.4.3	Self-help-group	Please provide an explanation on how you communicate with patient advocacy	
		groups.	

1.5. Referring Partners/ Affiliated Partners

Please fill in center information.

If needed, add further information as an appendix

A center should name its external referring partners and affiliated partners.

Please provide an explanation how patients are referred and how the center communicates with the referral center(s). This may evolve in terms of quality and quantity after your institution has been recognised as an ENETS CoE.

1.5.1 University hospitals1.5.2 Non-university hospitals

1.5.3 Physicians in private practice

2. Interdisciplinary Cooperation and Communication structure

Rationale:

A certified center needs structured interdisciplinary communication

The forwarding of information in the center should be subject to timely minimal requirements.

In a certified center, it is necessary to discuss results and interdisciplinary problems/issues in order to regularly update quality planning.

2.1. NET Tumor Board / Multidisciplinary Decision Making Team (MDT)

Please fill in center information (and/or add further information as an appendix...)

Minimum requirement:

A dedicated NET Tumor Board has to be in place, this can be integrated into another MDT structure or held separately. NET expertise is required for each expert in the NET MDT

Pulmonary NET patients are either to be discussed in the NET Tumor Board with thoracic surgeons and pulmonologist in attendance or in a Thoracic Tumor Board with NET specialists attending. The center is to guarantee that all tumor entities within the accreditation scope are discussed and documented consistently.

A certified center needs structured interdisciplinary decision-making.

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2.1.1. Participants	Mandatory participants [GEP] NET MDT: 1. Internist NET specialist 2. Surgeon 3. Radiologist 4. Pathologist 5. Nuclear Medicine Specialists – or Radiologist if they are experienced in nuclear medicine 6. Endocrinologist, if NET expertise is not covered by NET-Specialist 7. Oncologist (or general internist experienced in oncology) if NET expertise is not covered by Internist NET Specialist Mandatory participants Pulmonary NET MDT: (1,3,4,5,6,7) 8. Thoracic surgeon 9. Pulmonologist	Guidance: In the on-site audit the auditors expect to attend a Tumor Board meeting
	Optional participants: All specialists needed (at the request of tumor board organiser)	
2.1.2. Organisation	There should be a description of the organization of the tumor board referring to local organization structures, including responsibilities and resources.	Guidance: templates of a SOP for tumor board organisation and MDT protocol are available
2.1.2.1 Coordination of tumor board	The coordinator of the tumor board should be the internist NET specialist or the NET specialist surgeon. (optional)	
2.1.2.2 Preparation of tumor board	Information shall be provided to all participants prior to meeting. (mandatory)	
2.1.2.3 Meeting conditions	Physical presence of the participants is desirable (but video conferencing is also possible)	
2.1.2.4 Imaging	Images have to be made available, including external histology slides and imaging. (mandatory)	
2.1.2.5 Frequency	Minimum required frequency of the tumor board is every four weeks, (mandatory) but it should be appointed weekly. (Emergency therapies can be given prior)	
2.1.2.6 Patients to be presented in TU Board	All new GEP NET/ PULM NET patients (mandatory) All GEP NET/PULM NET patients where a diagnostic or therapeutic decision needs multidisciplinary input	If the center applies for the extended scope: PULM NET are mandatorily to be discussed in tumor board
	(mandatory) 3. All GEP NET/ PULM NET patients after surgery	To be discussed during the pilot phase: Recommendation: please, read in 3. "All [GEP] NET/ pulmonary NET patients in follow-up" instead of "after surgery"
2.1.3 Documentation 2.1.3.1 Tumor board protocol	The-NET tumor board protocol should contain the following information: 1. Date of tumor board meeting. 2. Routine patient data.	

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2.1.3.2 Patient information / Referrer information	 Brief overview of relevant clinical findings (e.g. imaging, functional tests, histological report). Tumor board decision: (including consideration of clinical trials) Names of all participants (physicians). Signature of at least one responsible participant. Outcome of board will be distributed to: Referring physician (mandatory) Patient file (mandatory) All members of the board (that have no electronic access to patient file) General practitioner 		
	5. Patients (on request)		
2.1.3.3 Time target	Two weeks		
2.1.4 Performance data of the tumor board	The center provides an annual statistics report on the tumor board. (mandatory)		
2.1.4.1 All GEP NET	No. of <u>all</u> GEP NET patients (individuals) discussed in tumor board (several presentations/ discussions in the tumor board per year count as 1 patient/ individual)	Mandatory – annual return data For onsite audit preparation please fill in chapter 14. Key figures: <u>15.2.1.</u>	
	No. of tumor board discussions in [GEP] NET patients (each presentation/ discussion counts here – taking into account the workload of the center)	Mandatory – annual return data	
2.1.4.2 NEW GEP NET	No. of new [GEP] NET patients (individuals) discussed in tumor board All new [GEP] NET patients have to be presented in the MDT. (at least to be mentioned e.g. small benignly behaving tumors) This is not necessarily due for patients been referred to the center for specific therapies (like e.g. PRRT) who already had a MDT in their referring centre / home	Mandatory – annual return data For onsite audit preparation please fill in chapter 15. Key figures 15.2.2.	
2.1.4.3 Second opinion GEP NET	No. of second opinions (GEP NET, individuals) discussed in tumor board Clarification: A patient to be counted as "second opinion patient" for the center is to be seen by a NET expert of the CoE and to be presented in the MDT and gets a full MDT report with recommendation for diagnostics, treatment and follow-up, but treatment and F-U are carried out in other center.	For onsite audit preparation, please fill in chapter 15. Key figures 15.2.3.	
	"second opinions" are an intersection of "NEW [GEP] NET patients" Second opinions on radiology review or pathology review on their own don't count for the CoE		
2.1.4.4 All PULM NET	No. of <u>all</u> PULM NET patients (individuals) discussed in tumor board	Mandatory annual return data for CoE applying for the extended scope on Pulmonary NET	



	(several presentations/discussions in the tumor board per year count as 1 patient)	For onsite audit preparation, please fill in chapter 15 Key figures: <u>15.2.4.</u>
	No. of tumor board discussions in [PULM] NET patients (each presentation/ discussion counts here – reflecting the workload of the center)	Mandatory – annual return data For onsite audit preparation, please fill in chapter 14. Key figures: 15.2.4.
2.1.4.5 NEW PULM NET	No. of <u>all NEW</u> PULM NET patients (individuals) discussed in tumor board (several presentations/discussions in the tumor board per year = 1 patient)	Mandatory annual return data for CoE applying for the extended scope on Pulmonary NET For onsite audit preparation please fill in chapter 14. Key figures: 14.2.5.
2.1.4.6 Second opinion PULM NET	No. of second opinions (PULM NET, individuals) discussed in tumor board Clarification: A patient to be counted as "second opinion patient" for the center is to be seen by a NET expert of the CoE and to be presented in the MDT and gets a full MDT report with recommendation for diagnostics, treatment and follow-up, but treatment and F-U are carried out in other center. "second opinions" are an intersection of "NEW [PULM] NET patients" Second opinions on radiology review or pathology review don't count for the CoE on their own.	Mandatory annual return data for CoE applying for the extended scope on Pulmonary NET For onsite audit preparation please fill in chapter 14. Key figures: 14.2.6.
2.1.4.7	Treatment decision-making /outcome of the tumor board surgery (n) interventional radiology (n) nuclear medicine (n) medical therapies (n) watch and wait other (n)	For onsite audit preparation please fill in chapter 15 Key figures 15.2.7. The center must evaluate its adherence to ENETS guidelines in MDT decisions, e.g. based on random samples and local internal audits (documentation is part of the 'file of evidence' the auditors will require for the onsite audit)
2.1.4.8	Implementation of tumour board decision-making (percentage)	For onsite audit preparation, please fill in chapter 15 Key figures 15.2.8. The center must evaluate its adherence to MDT decisions e.g. based on random samples and local internal audits (documentation is part of the 'file of evidence' the auditors will require for the onsite audit)
2.2. Quality Manageme	ent Meetings	

2.2. Quality Management Meetings

Please fill in center information. If needed, add further information as an appendix.

In a certified center it is necessary to maintain procedures of structured discussion of results and interdisciplinary problems in order to regularly update quality planning.



2.2.1. Organisational me	etings	
2.2.1.1 Frequency	Minimum every 6 months (mandatory) (conference calls and videoconferences are possible)	For onsite audit preparation: results will be discussed (this documentation is part of the 'file of evidence' the auditors will require for the onsite audit)
2.2.1.2 Participants	Main partners (mandatory), others (constitution referring to selected topics)	For onsite audit preparation: results will be discussed (this documentation is part of the 'file of evidence' the auditors will require for the onsite audit)
2.2.1.3 Documentation	Protocols and planned measures are to be retained as proof of documentation. (Mandatory)	For onsite audit preparation: protocols are required and results will be discussed during onsite audit (this documentation is part of the 'file of evidence' the auditors will require for the onsite audit)
2.2.2. Internal audits		
2.2.2.1. Frequency	Once a year (mandatory)	For onsite audit preparation: results of internal audits will be discussed during onsite audits (this documentation is part of the 'file of evidence' the auditors will require for the onsite audit)
2.2.2.2. Participants	Main partners (mandatory)	
2.2.2.3 Documentation	Protocols and planned measures are to be retained as proof of documentation. (Mandatory)	For onsite audit preparation: protocols are required and results will be discussed (documentation is part of the 'file of evidence' the auditors will require for the onsite audit)
2.2.3. Quality Multidisciplina	ry Review Meeting	
objectives for the organisation	view their strategic and operational plans including n and its services. Review meetings are strategic n	
	and undertake service planning	1
2.2.3.1. Frequency	A center review (review of procedures and results) is required at least once a year. (Mandatory)	For onsite audit preparation: protocols are required and results will be discussed (documentation is part of the 'file of evidence' the auditors will require for the onsite audit)For onsite audit preparation: protocols
2.2.3.2. Participants	Main partners (mandatory)	
2.2.3.3 Documentation	Protocols and planned measures are to be retained as proof of documentation. (Mandatory)	For onsite audit preparation: protocols are required and results will be discussed (documentation is part of the 'file of evidence' the auditors will require for the onsite audit)
2.3. Information Transfer	r to Interfaces	
The forwarding of information	n in the center should be subject to timely minima	I requirements.
2.3.1 Time targets for reports	All reports (tumor board meeting reports / physician's letters / patient reports after consultation and or inpatient treatment) should be forwarded within two weeks	Guidance: A random sample will suffice as proof.



3. Specialist NET Con	sultation (Inpatient or Outpatient)
Rationale:	should be carried out to coordinate necessary di	ingractics and thorangutics
in a center, a NET consultation	should be carried out to coordinate necessary di	lagilostics and therapeutics.
3.1. Resources		
3.1.1 Task of the specialist NET consultation	Diagnostics / confirmation and staging (including genetic testing if required)	
	Coordination of staging tests (according to center-specific clinical pathways in line with the ENETS Guidelines)	
	Differentiated personal patient information	
	Coordination of therapy planning (in the centre or affiliated institutions) Carrying out of therapy (according to center-specific clinical pathways in line	
	with ENETS Guidelines) Coordination of specific tumor F / U	
	Coordination of tumor board	
3.1.2 . Frequency of special consultations	The special consultations should be held at least a once per week.	
3.1.3 Human Resources	Two NET specialists in a center must be permanently made available in order to guarantee a high quality of care. (mandatory)	
	Two nurses / assistants must be permanently made available in order to guarantee a high quality of care. (mandatory)	
3.1.4 Special qualifications for physicians	A NET specialist is defined as a senior endocrinologist, gastroenterologist, oncologist or specialist gastrointestinal or endocrine surgeon with extensive experience in diagnostics and therapeutics of NETs. Minimum length of time: 5 years (mandatory)	
	The NET specialist has access to all other specialist disciplines involved in NET patient care (main, secondary and supportive care partners). (mandatory)	
3.1.5 Keeping the qualification	CME, according to center-specific conditions for physicians and nursing staff, should be organised.	Guidance: please describe how further training of staff referring to NET is organised and keep proofs and certificates ready for the on-site audit.
3.2 Quality related pr	ocesses	
3.2.1 Description of procedures	The center should display its standards of applied diagnostics and therapeutics e.g. general therapy of NETs, MEN I patient management (algorithm).	Guidance: please list and provide descriptions of your main procedures
	The descriptions should refer to ENETS Guidelines and ENETS SOC (as far as	



	currently published) including definition of	<u> </u>	
	currently published) including definition of		
3.2.2 .	responsibilities and resources Waiting times concerning the consultation	Guidanco: A random cample of a graft-	
Presentation of access to	= =	Guidance: A random sample of. e.g. 4 to	
	appointment should be kept to a minimum, e.g.should not exceed 4 weeks.	6 weeks will suffice as proof (this documentation is part of the 'file of evidence'	
specialised consultation	minimum, e.g.snould not exceed 4 weeks.	the auditors will require for the onsite audit)	
	Period during which staging is concluded	,	
	(outpatient or inpatient) should be 4-6		
	weeks		
	Biopsy results should be available within		
	five working days incl.		
	immunohistochemistry		
	The acceptable waiting period until the	Guidance: A random sample of. E.g. 4 to	
	appointment at a center partner (main or	6 weeks will suffice as proof.	
	secondary) should not exceed two weeks	(this documentation is part of the 'file of evidence'	
	secondary) should not exceed two weeks	the auditors will require for the onsite audit)	
3.2.3	Informed consent is to be documented in	and dualities will require for the office duality	
Patient information	patient's file		
T delette illiottildelott	patient 3 inc		
3.3 Performance Data			
3.3.1 Number of NET patients			
3.3.1.1 .	No. of new GEP NET patients seen by	Mandatory – annual return data	
	NET specialists of the center in the last		
	calendar year		
	,		
	[Clarification: "patients" are individuals,	For onsite audit preparation: please fill	
	not patient contacts. One patient with	in chapter 14. Key figures: <u>15.1.1.</u>	
	several appointments in the center is		
	counted once/ year as "patient"]		
3.3.1.2	No. /percentage of these new [GEP] NET	For onsite audit preparation: please fill	
3.3.1.2	patients treated in the center	in chapter 14. Key figures: 15.1.2	
	patients treated in the senter	· · · · · · · · · · · · · · · · · · ·	
		Centers who are NOT applying for the scope [GEP]	
		NET Center can additionally mention: no. of NEW PULM NET to underline their NET expertise, but	
		these don't 'count' for the [GEP] NET center	
3.3.1.3	No. of current GEP NET patients seen	Mandatory – annual return data	
	annually by NET specialist	For onsite audit preparation please fill in	
	["current patients": all GEP NET patients	chapter 14. Key figures: <u>15.1.3.</u>	
	(individuals) seen in the center, including	' '	
	NEW GEP NET patients, patients seeking		
	for SECOND OPINION as well as patients in		
	Follow-Up]		
3.3.1.4	For centers applying for the extended	Mandatory – annual return data	
	scope	,	
	No. of <u>new PULM NET</u> patients seen by	For onsite audit preparation: please fill	
	NET specialists of the center in the last	in chapter 14. Key figures: 15.1.4.	
	calendar year	in enapter 14. Key figures. 15.1.4.	
	calcilual year		
	[Clarification: "patients" are individuals,		
	not patient contacts. One patient with		
	several appointments in the center is		
	r severar appointments in the center is		
224-	counted once/ year as "patient"]	E 11 12 11 20 11 20 11	
3.3.1.5	counted once/ year as "patient"] No. /percentage of these new [PULM] NET	For onsite audit preparation: please fill	
	counted once/ year as "patient"] No. /percentage of these new [PULM] NET patients treated in the center	in chapter 14. Key figures: <u>15.1.5</u>	
3.3.1.5 3.3.1.6	counted once/ year as "patient"] No. /percentage of these new [PULM] NET patients treated in the center No. of current [PULM]-NET patients seen	in chapter 14. Key figures: <u>15.1.5</u> Mandatory – annual return data	
	counted once/ year as "patient"] No. /percentage of these new [PULM] NET patients treated in the center No. of current [PULM]-NET patients seen annually by NET specialist	in chapter 14. Key figures: <u>15.1.5</u> Mandatory – annual return data For onsite audit preparation please fill in	
	counted once/ year as "patient"] No. /percentage of these new [PULM] NET patients treated in the center No. of current [PULM]-NET patients seen annually by NET specialist ["current patients": all PULM NET	in chapter 14. Key figures: <u>15.1.5</u> Mandatory – annual return data	
	counted once/ year as "patient"] No. /percentage of these new [PULM] NET patients treated in the center No. of current [PULM]-NET patients seen annually by NET specialist	in chapter 14. Key figures: <u>15.1.5</u> Mandatory – annual return data For onsite audit preparation please fill in	



	patients seeking for SECOND OPINION as	
	well as patients in Follow-Up]	
3.3.2	Percentage of patients with waiting times	A random sample of. e.g. 4 to 6 weeks
- C.S	concerning the consultation appointment	will suffice as proof
	less than 2-4 weeks. (sample possible)	(documentation is part of the 'file of evidence' the auditors will require for the onsite audit)
3.3.3	percentage of patients with concluded staging within 4/6 weeks	(documentation is part of the 'file of evidence' the auditors will require for the onsite audit)
3.3.4	percentage of appointments at center partners within 2 weeks (sample possible)	(documentation is part of the 'file of evidence' the auditors will require for the onsite audit)
4. Endocrinology	partition maining around (compres possible)	
4.1.Resources		
4.1.1	In a center/ network, one physician with	NET main partner expert should provide
HR Resources	special qualifications must be permanently available; a back-up has to be defined in order to guarantee a high quality of care.	proof of expertise within the NET domain (e.g., duration of time devoted to NET expertise, proof of attending specific NET courses and meetings [either giving lectures or as part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET specialist colleague, then this should be stated and an educational plan should be provided by
		the specialist in conjunction with the NET leader in your center.
4.1.2 Special qualifications for physicians	An endocrinologist must be available during office hours at the center. (liaison possible) A senior endocrinologist (or doctor with adequate expertise) is expected.	
	A physician with experience in endocrine functional tests (e.g. pituitary tumor, ectopic hormonal syndromes, and adrenal diseases) is expected.	
4.1.3 Keeping the qualification	CME - defined by national societies for physicians and nursing staff should be verified annually.	Guidance: please describe here how further training of staff referring to-NET is organised and keep proofs and certificates ready for on-site audit.
4.2.Quality-Related Proce	esses	
4.2.1 Description of procedures	The center needs to display its standards of applied diagnostics and therapeutics. 1. general therapy algorithm for NETS, 2. MEN I patient management (algorithm), The descriptions should refer to ENETS GL and ENETS SOC (as far as currently published), to national/international protocols and include responsibilities and resources.	Guidance: please list and provide descriptions of your main procedures
4.2.2. Patient information	Informed consent to be documented in patient's file (for experimental procedures)	
4.2.3. Tumor documentation	Data/results pertaining to endocrinology should be made available to the NET	
	coordinator/ specialist	



4.3. Performance data		
No additional performance data		
for endocrinology required up		
to now		

5. Gastroenterology – Expertise in Endoscopy 5.1.Resources			
5.1.1 . HR Resources	In a center/ network, one physician with special qualifications must be permanently available. A back-up has to be defined in order to guarantee a high quality of care.		
5.1.2 Special qualifications for physicians	A specialist for internal medicine with special skills in gastroenterology (corresponding senior gastroenterologist) is expected.	NET main partner expert should provide proof of expertise within the NET domain (e.g., duration of time devoted to NET expertise, proof of attending specific NET courses and meetings [either giving lectures or as part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET specialist colleague, then this should be stated and an educational plan should be provided by the specialist in conjunction with the NET leader in your centre.	
5.1.3 . Endoscopy-	An expert with special skills in endoscopies (EGD / colonoscopy)		
special examiner qualifications	including biopsies is expected. An expert with special skills in pancreatic EUS is expected.		
	An expert with special skills in endosonography, including EUS-guided FNA (1 specialist mandatory) is expected.		
	An expert with special skills in abdominal sonography is expected (If abdominal sonography is done by radiologists or GI surgeons, identical skills are required).		
5.1.4 Keeping the qualification	CME-defined by national societies for physicians and nursing staff should be verified annually.	Guidance: please describe here how further training of staff referring to NET is organised and keep proofs and certificates ready for on-site audit.	
5.1.5 Specialist endoscopists	Please provide the no. of specialist endoscopists that perform the various endoscopies	For onsite audit preparation please fill in chapter 14. Key figures: 14.5.1.	
5.1.6 Equipment	Equipment is expected for: Specific EUS Gastric EMR Rectal EMR Small bowel studies Please provide a description of your equipment.		
5.2. Quality-related Proces	ses		
5.2.1 Description of procedures	The center needs to display its standards of applied diagnostics and therapeutics. The descriptions should refer to ENETS GL	Guidance: please list and provide descriptions of your main procedures or applied standardised reporting on NET)	



	and ENETS SOC (as far as currently published) and include responsibilities and resources	
5.2.2. Patient information	Informed consent is documented in patient's file. (Appropriate to individual countries.)	
5.2.3 Patient safety	The partner should confirm that the national requirements in reference to patient safety are adhered to.	
5.2.4 Tumor documentation	Data/results pertaining to gastroenterology should be made available to the NET coordinator/ specialist	
5.3. Performance Data		
Currently no additional data collection		

6. Oncology		
6.1. Resources		
6.1.1 HR Resources	In a center/network, one physician with special qualifications must be permanently available. A back-up has to be defined in order to guarantee a high quality of care.	
6.1.2 . Special qualifications for physicians	A specialist for internal medicine with special skills in hematooncology (senior oncologist) is expected.	The NET main partner expert should provide proof of expertise within the NET domain (e.g., duration of time devoted to NET expertise, proof of attending specific NET courses and meetings [either giving lectures or as part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET specialist colleague, then this should be stated and an educational plan should be provided by the specialist in conjunction with the NET leader in your centre.
6.1.3 Keeping the qualification	CME-defined by national societies for physicians and nursing staff should be verified annually.	Guidance: please describe here how further training of staff referring to NET is organised and keep proofs and certificates ready for on-site audit.
6.2. Quality Related Processes		
6.2.1. Description of procedures used	The center needs to display its standards of applied diagnostics and therapeutics. The descriptions should refer to ENETS G ENETS GL and ENETS SOC L (as far as currently published) and include responsibilities and resources.	Guidance: please list and provide descriptions of your main procedures
6.2.2. Patient information	Informed consent is documented in patient's file.	
6.2.3 Patient safety	The partner should confirm that the national requirements in reference to patient safety are adhered to.	
6.2.4 Tumor documentation	Data/results pertaining to oncology should be made available to the NET coordinator/ specialist.	



6.3. Performance data		
6.3.1.		
NET patients with systemic and targeted therapy	Number of [GEP] NETS [if extended scope applies: plus PULM NETS] with systemic and targeted therapy (somatostatin therapy is excluded) Numbers are required for Interferon Everolimus Sunitinib Other	Question for Pilot centers: should oncology data be required for all NET (this would be a change!) or only for GEP NET (plus PULM NET, if extended scope is chosen) Mandatory — annual return data For onsite audit preparation, please fill in chapter 15. Key figures: 15.6.1.
	 Streptozocin/5-FU Temozolomide/Capecitabine Carbo- or Cisplatin/Etoposide Other combinations 	
6.3.2 Systemic and targeted therapy - morbidity	Number of serious adverse events after targeted therapy in [GEP] NET patients Number of serious adverse events after systemic therapy in [GEP] NET patients	Mandatory – annual return data: x out of y: serious adverse events For onsite audit preparation please fill in chapter 15. Key figures: 15.6.2
	Centers can set the time frame due to local and national circumstances and obligations. In-house morbidity /mortality 30 day morbidity /mortality 90 day morbidity /mortality Centers can collect full data or a random sample It is clear that the comparability will be limited, but please emphasise: that this data is important for the internal discussion within the centers and during the external audit.	
6.3.3 Systemic and targeted therapy- mortality	Number of deaths after targeted therapy in [GEP] NET patients Number of deaths after systemic therapy in [GEP] NET patients	Mandatory – annual return data x out of y: deaths For onsite audit preparation, please fill in chapter 15. Key figures: 14.5.3
7. Pathology		
7.1. Resources		
7.1.1 HR Resources	In a center/network, one physician with special qualifications must be permanently available. A back-up has to be defined in order to guarantee a high quality of care.	
7.1.2	In a center, one technical medical assistant with qualifications in the applied methods must be permanently available. A back-up has to be defined in order to guarantee a high quality of care.	
7.1.3 Special qualifications for physicians	A senior pathologist with experience in diagnostics of NETs is expected: the NET expert holds a certificate of NET expertise by national institutions or from ENETS (Liaison is possible)	The NET main partner expert should provide proof of expertise within the NET domain (e.g., duration of time devoted to NET expertise, proof of attending specific NET courses and
ENETS Car Catalague Mana O O incl	nilot phase PULM NET 2020-10-19 changes marked -	© by ENETS e V nage 16 of



	meetings [either giving lectures or as part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET specialist colleague, then this should be stated and an educational plan should be provided by the specialist in conjunction with the NET leader in your center.	
If extended scope applies: A senior pathologist with experience in diagnostics of [PULM] NETs is expected. The NET expert holds a certificate of NET expertise by national institutions or from ENETS (Liaison is possible)	The NET main partner expert should provide proof of expertise within the NET domain (e.g., duration of time devoted to NET expertise, proof of attending specific NET courses and meetings [either giving lectures or as part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET specialist colleague, then this should be stated and an educational plan should be provided by the specialist in conjunction with the NET leader in your center.	
CME-defined by national societies for physicians and nursing staff.	Guidance: please describe here how further training of staff referring to NET is organised and keep proofs and certificates ready for on-site audit.	
Participation in inter-laboratory comparisons	Guidance: Please provide evidence of participation in inter-laboratory comparisons as they are nationally applicable (e.g. KI67)	
sses		
The center needs to display its standards of applied diagnostics and therapeutics. The descriptions should refer to ENETS GL and ENETS SOC (as far as currently published) and include responsibilities and resources.	Guidance: please list and provide descriptions of your main procedures	
The no. of complete pathology reports		
 A complete pathology report consists of: Site Tumor type according to WHO and ENETS - TNM classification Tumor size Tumor invasion (depth) Assessment of neural-, (lymph), angio-invasion No. and status of lymph nodes R-Status Ki-67, Ki-67 labeling index, mitosis rate Grading Neuroendocrinological marker: 		
	pathologist with experience in diagnostics of [PULM] NETs is expected. The NET expert holds a certificate of NET expertise by national institutions or from ENETS (Liaison is possible) CME-defined by national societies for physicians and nursing staff. Participation in inter-laboratory comparisons SSES The center needs to display its standards of applied diagnostics and therapeutics. The descriptions should refer to ENETS GL and ENETS SOC (as far as currently published) and include responsibilities and resources. The no. of complete pathology reports should be 100% A complete pathology report consists of: Site Tumor type according to WHO and ENETS - TNM classification Tumor size Tumor invasion (depth) Assessment of neural-, (lymph), angio-invasion No. and status of lymph nodes R-Status Ki-67, Ki-67 labeling index, mitosis rate	part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET specialist you are replacing a recognised NET specialist in conjunction with the NET leader in your center. If extended scope applies: A senior pathologist with experience in diagnostics of [PULM] NETs is expected. The NET expert holds a certificate of NET expertise by national institutions or from ENETS (Liaison is possible) It is possible) It is possible in the NET expertise by national institutions or from ENETS (Liaison is possible) It is possible in the NET expertise, proof of attending specific NET courses and meetings [either giving lectures or as part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET specialist colleague, then this should be stated and an educational plan should be provided by the specialist in conjunction with the NET leader in your center. CME-defined by national societies for physicians and nursing staff. Participation in inter-laboratory comparisons CME-defined dy national societies for physicians and nursing staff. Participation in inter-laboratory comparisons Guidance: please describe here how further training of staff referring to NET is organised and keep proofs and certificates ready for on-site audit. Guidance: Please provide evidence of participation in inter-laboratory comparisons as they are nationally applicable (e.g. KI67) SSESS The center needs to display its standards of applied diagnostics and therapeutics. The descriptions should refer to ENETS GL and ENETS SOC (as far as currently published) and include responsibilities and resources. The no. of complete pathology report consists of: Site Turmor type according to WHO and ENETS - TMM classification Turmor size Turmor type according to WHO and ENETS - TMM classification Turmor size Turmor type according to WHO and ENETS - TMM classification Turmor invasion (depth) Accomplete pathology report consists of: No. and statu



7.2.3 Time target for pathology reports	The pathology report of biopsies (not surgical specimen) has to / should be provided within 5 working days.	Please provide an overview about the turnaround times (random sample for NET)
7.3. Performance data		
7.3.1 No. of pathologists	No. of pathologists who are experts in GEP NET	For onsite audit preparation, please fill in chapter 15. Key figures: 15.7.1.
7.3.2 No. of pathology reports - biopsies	No. of pathology reports : NET biopsies GEP NET	For onsite audit preparation, please fill in chapter 15. Key figures: 157.2.
7.3.3 No. of pathology reports - surgical specimen	No. of pathology reports : surgical specimen GEP NET	For onsite audit preparation, please fill in chapter 15. Key figures: 15.7.3.
7.3.4 No. of immunohistological examinations		For onsite audit preparation, please fill in chapter 15. Key figures: 15.7.4.
7.3.5 Percentage of complete pathology reports	Percentage of complete pathology reports (surgery and biopsy)	For onsite audit preparation: please fill in chapter 15. Key figures: 15.7.5.
Time target	percentage of biopsy reports within 5 days	
7.3.6 No. of pathologists	No. of pathologists, who are experts on PULM NET	For onsite audit preparation, please fill in chapter 15. Key figures: 15.7.6.
7.3.7 No. of pathology reports - biopsies	No. of pathology reports on PULM NET biopsies	For onsite audit preparation, please fill in chapter 15. Key figures: 15.7.7.
7.3.8 No. of pathology reports - surgical specimen	No. of pathology reports : surgical specimen PULM NET	For onsite audit preparation, please fill in chapter 15. Key figures: 15.7.8.
7.3.9 No. of immunohistological examinations		For onsite audit preparation, please fill in chapter 15. Key figures: 15.7.9.
7.3.10 Percentage of complete pathology reports	Percentage of complete pathology reports (surgery and biopsy)	For onsite audit preparation, please fill in chapter 15. Key figures: 15.7.10.

8. Radiology			
8.1. Resources			
8.1.1 HR Resources	In a center/network, one physician with special qualifications must be permanently available. A back-up has to be defined in order to guarantee a high quality of care.		
	One radiologist should be named as a contact person.		
8.1.2 Special qualifications for physicians	A senior radiologist with experience in diagnostics (CT/ MRI) of NETs is expected.	The NET main partner expert should provide proof of expertise within the NET domain (e.g., duration of time devoted to NET expertise, proof of attending specific NET courses and meetings [either giving lectures or as part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET specialist colleague, then this should be stated and an educational plan should be provided by the specialist in	



		conjunction with the NET leader in your centre.
	A senior radiologist with experience in interventional radiology in NETs is expected.	
8.1.3 Keeping the qualification	CME-defined by national societies for physicians and nursing staff should be annually verified.	Guidance: please describe here how further training of staff referring to NET is organised and keep proofs and certificates ready for on-site audit.
8.1.4 Technical equipment	 The following technical equipment should be available. Magnetic Resonance Imaging of liver, pancreas and small bowel MR Cholangio pancreatography (MRCP). Computed tomography (CT): CT software for image reconstruction. 	Guidance: please list and describe your equipment
	Technical specifications according to ENETS Standard of Care. The radiology unit should have timely access to interventional radiology, including chemoembolisation and radiofrequency ablation and/or laser therapies for hepatic metastases.	
8.2. Quality-related Proces	· · · · · · · · · · · · · · · · · · ·	
8.2.1 Description of procedures used	The center needs to display its standards of applied diagnostics and therapeutics. The descriptions should refer to ENETS GL and SOC (as far as currently published) and include responsibilities and resources. SOPs in place for: CT, MRI, MRCP, US including biopsies, TACE and TAE, TAE with radio labeled spheres, PTC.	Guidance: please list and provide descriptions of your main procedures
8.2.2 Patient information	Informed consent is documented in patient's file.	
8.2.3 . Patient safety	The partner center should confirm that the national requirements in reference to patient safety should be adhered to.	
8.2.4 Time target for access	The appointments (diagnostics and therapy) should be made possible within two weeks.	
8.3. Performance data		
8.3.1	No of interventions	For onsite audit preparation, please fill in chapter 15. Key figures: 14.5.ff.
8.3.2	Total No. of TA(C)E No of TA(C)E in NET	Mandatory annual return data
8.3.3	Total No. of SIRT/intra-arterial PRRT with (radio)pharmaceuticals No of SIRT/ intra-arterial PRRT with (radio)pharmaceuticals in NET	Mandatory annual return data
8.3.4	Total No of RFA No of RFA in NET	



8.3.5	Total No of PVE No of PVE in NET		
8.3.6	Total No of PTCD No of PTCD in NET		
8.3.7 Morbidity in (combined) interventional radiology	Number of serious adverse events after (combined) interventional radiology	Mandatory – annual return data: x out of y: serious adverse events	
	Centers can set the time frame due to local and national circumstances and obligations. In-house morbidity /mortality 30 day morbidity /mortality Output Centers can collect full data or a random sample It is clear that the comparability will be limited, but please emphasise: that this data is important for the internal discussion within the centers and during the external audit.	For onsite audit preparation please fill in chapter 15. Key figures: 15.8.2	
8.3.8. Mortality in (combined)	Number deaths after (combined)	Mandatory – annual return data:	
interventional radiology	interventional radiology	x out of y: deaths For onsite audit preparation, please fill in chapter 14. Key figures: 14.8.3	

9. Nuclear Medicine			
9.1. Resources			
9.1.1 HR Resources	In a center/network, one physician with special qualifications must be permanently available. A back-up has to be defined in order to guarantee a high quality of care.		
9.1.2 Specialist qualifications for physicians	A senior physician with experience in diagnostics and therapeutics of NETs is expected. (Threshold under consideration: diagnostics 30 NET patients/doctor/ year and therapies - 10 NET patients/doctor/ year)	The NET main partner expert should provide proof of expertise within the NET domain (e.g., duration of time devoted to NET expertise, proof of attending specific NET courses and meetings [either giving lectures or as part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET specialist colleague, then this should be stated and an educational plan should be provided by the specialist in conjunction with the NET leader in your centre.	
9.1.3 Keeping the qualification	CME-defined by national societies for physicians and technical staff should be annually verified.	Guidance: please describe here how further training of NET staff is organised and keep proofs and certificates ready for on-site audit.	
9.1.4 Technical equipment	Please provide information about all available technical equipment SPECT/CT PET/CT NET relevant PET tracer please specify: FDG DOPA		



	Gallium PeptideOther	
9.2. Quality-related Proces		
9.2.1 Description of procedures used	The center needs to display its standards of applied diagnostics and therapeutics. The descriptions should refer to ENETS Guidelines and include responsibilities and resources.	Guidance: please list and describe your main procedures
9.2.2 Patient information	Informed consent is documented in patient's file.	
9.2.3 Patient safety	The partner center should confirm that the national requirements in reference to patient safety should be adhered to.	
9.2.4 Tumor documentation	Data/results pertaining to nuclear medicine tests or work up should be made available to the NET coordinator/ specialist.	
9.2.5 Time target for access	The appointments (diagnostics and therapy) should be made possible within two weeks. (Optional)	
9.3. Performance Data		
9.3.1 No. of nuclear medicine examinations PET	Please provide information on total No. of PET	For onsite audit preparation, please fill in chapter 14. Key figures: 14.9.1.
9.3.2 No. of nuclear medicine examinations in NET- PET	Please provide information on total No. of PET in NET	For onsite audit preparation, please fill in chapter 14. Key figures: 14.9.2.
9.3.3 No. of nuclear medicine examinations Octreoscans	total No. of Octreoscans	For onsite audit preparation, please fill in chapter 14. Key figures: 14.9.3.
9.3.4 No. of nuclear medicine interventions in NET (own center)	Please provide information on where nuclear medicine interventions in NET are done → in own center and add numbers ■ PRRT ■ MIBG ■ PRRT in combination with other treatments	For onsite audit preparation: please fill in chapter 14. Key figures: 14.9.4. Clarification: number of therapeutic interventions is to be interpreted as "number of administrations"
9.3.5 No. of Nuclear medicine interventions in NET (partner center)	Please provide information on where nuclear medicine interventions in NET are done → in partner center and add numbers ■ PRRT ■ MIBG ■ PRRT in combination with other treatments	For onsite audit preparation: please fill in chapter 14. Key figures: 14.9.5.
9.3.6 Interventions - Morbidity	Number of serious adverse events after PRRT MIBG PRRT in combination with other treatments Centers can set the time frame due to local	Mandatory – annual return data: x out of y: serious adverse events For onsite audit preparation, please fill in chapter 14. Key figures: 14.9.6.
	 and national circumstances and obligations. In-house morbidity /mortality 30 day morbidity /mortality 90 day morbidity /mortality 	



	 Centers can collect full data or 		
	a random sample		
	It is clear that the comparability will be limited,		
	but please emphasise: that this data is		
	important for the internal discussion within the		
	centers and during the external audit.		
9.6.7	Number of deaths after PRRT Number of	Mandatory – annual return data:	
Interventions - mortality	deaths after MIBG	x out of y: deaths	
		For onsite audit preparation, please fill	
		in chapter 14. Key figures: 14.9.7	

10. Surgery			
10.1. Resources			
10.1.1 HR Resources	In a center/network, one surgeon with special qualifications must be permanently available. A back-up has to be defined in order to guarantee a high quality of care.		
10.1.2 Special qualifications HBP Surgery	An endocrine surgeon and a HPB surgeon (or surgeon with comparable expertise according to national standards) is expected. (Liaison possible.)	The NET main partner expert should provide proof of expertise within the NET domain (e.g., duration of time devoted to NET expertise, proof of attending specific NET courses and meetings [either giving lectures or as part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET specialist colleague, then this should be stated and an educational plan should be provided by the specialist in conjunction with the NET leader in your center.	
10.1.3 Special qualifications Thoracic Surgery	For the extended Scope: A thoracic surgeon (or surgeon with comparable expertise according to national standards) is expected. (Liaison possible.)	NET main partner expert should provide proof of expertise within the NET domain (e.g., duration of time devoted to NET expertise, proof of attending specific NET courses and meetings [either giving lectures or as part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET specialist colleague, then this should be stated and an educational plan should be provided by the specialist in conjunction with the NET leader in your center	
10.2. Quality-related Proc	10.2. Quality-related Processes		
10.2.1. Tumor board presentation	Every NET patient should be presented at the tumor board after surgery.		
10.2.2. Patient Information	Patient information according to standard practice. The minimum: Documentation in patient file, tumor board protocol.		
10.2.3. Patient safety	The partner should confirm that the national requirements in reference to patient safety are adhered to.		



10.3. Performance Data Su	ırgery	
10.3.1 No. of hepato-biliary surgery (HB-surgeries in NET and non- NET patients)	Please provide information about:	For onsite audit preparation, please fill in chapter 14. Key figures: 14.10.1
No. of Hepato-biliary surgery in [GEP] NET	Please provide information about NET:	For onsite audit preparation, please fill in chapter 15. Key figures: 15.10.2
10.3.3 No. of pancreatic surgery (in NET and non-NET patients)	Please provide information about:	For onsite audit preparation, please fill in chapter 15. Key figures: 15.10.3
10.3.4 No. of pancreatic surgery in [GEP] NET	Please provide information about [GEP] NET Pancreaticoduodenectomy Distal resection Enucleation other (optional)	For onsite audit preparation, please fill in chapter 15. Key figures: 15.10.4
The following items 10.3.5 – 10.3. from the Centers of Excellence	6 might be excluded in future - discussion is	ongoing – currently waiting for more feedback
10.3.5 No. of bowel surgery in general(in NET and benign and malignant non NET patients)	Please provide information about:	For onsite audit preparation, please fill in chapter 14. Key figures: 14.10.5
10.3.6 No. of intestinal surgery in NET	Please provide information about: - New: Stomach - Ileum - Colon - Rectum - Peritoneal resections - other (optional)	For onsite audit preparation, please fill in chapter 14. Key figures: 14.10.6
10.3.7 Morbidity and mortality after hepato-biliary surgery Clavien Dindo Classification	Please provide information about morbidity and mortality using the Clavien Dindo Classification 1. Grade 3 (n) 2. Grade 4 (n) 3. Grade 5 (n)	Mandatory – annual return data x out of y Grade 3 Grade 4 Grade 5
	Clavien Dindo Classification Grade 3: Requiring surgical, endoscopic or radiological intervention Grade 4: Life-threatening complication (including CNS complications) requiring IC/ICU management Grade 5: death Dindo D., Demartines N., Clavien P.A.; Ann Surg. 2004; 244: 931-937 Centers can set the time frame due to local and national circumstances and obligations. In-house morbidity /mortality 90 day morbidity /mortality Centers can collect full data or a random	For onsite audit preparation, please fill in chapter 15. Key figures: 15.10.7
	sample It is clear that the comparability will be limited, but please emphasise: that this data is	



	important for the internal discussion within the	
	centers and during the external audit.	
Mandatory – annual return data		10.3.8 Morbidity and mortality
x out of y	morbidity using the Bassi Classification	after pancreatic surgery
■ Grade A	for pancreatic fistula	
Grade B	1. Grade A (n)	Bassi Classification
■ Grade C	2. Grade B (n)	
death	3. Grade C (n)	
	Bassi C, Dervenis C, Butturini G et al. (2005)postoperative pancreatic fistula: an international study group (ISGPF) definition Surgery	
For onsite audit preparation, please fill	2005; 138: 8-13	
in chapter 15. key figures: 15.10.8	Please enumerate deaths after pancreatic surgery Death (n)	
		15.1
le		
For centers with extended scope		
		in NET and non-NET patients
•	<u>=</u>	
	, · · · · · · · · · · · · · · · · · · ·	
in chapter 15. Key figures: 15.10.9	 Minimal invasive (video assisted) lung resections (VATS) 	
For centers with extended scope	Please provide information about	10.3.10 No. of thoracic
	numbers of thoracic surgeries in [PULM]	surgery in NET patients
	-	
•	 Anatomical lung resections 	
	,,	
in chapter 15. Key figures: 15.10.10	 Minimal invasive (video assisted) lung resections (VATS) 	
Mandatory – annual return data	Please provide information about	10.3.11 Morbidity and
x out of y	morbidity and mortality after thoracic	mortality after thoracic
■ Grade 3	using the Clavien Dindo Classification	surgery
■ Grade 4	1. Grade 3 (n)	
■ Grade 5	2. Grade 4 (n)	
	` '	
For onsite audit preparation, please fill	It is clear that the comparability will be	
in chapter 15. Key figures: 15.10.11	limited, but please emphasise: that this	
	data is important for the internal	
	discussion within the centers and during	
Mandatory annual return data For onsite audit preparation, please fill in chapter 15. Key figures: 15.10.10 Mandatory – annual return data x out of y Grade 3 Grade 4	ation of the extended scope - y Please provide information about numbers of:	surgery in NET patients 10.3.11 Morbidity and mortality after thoracic

11. Pulmonology – Expertise in Endoscopy			
11.1.Resources	11.1.Resources		
11.1.1. HR Resources	In a center/ network, one physician with special qualifications must be made permanently available. A back-up has to be defined in order to guarantee a high quality of care.		
11.1.2 Special qualifications for physicians	A specialist for internal medicine with special skills in pulmonology (corresponding senior pulmonologist) is expected.	The NET main partner expert should provide proof of expertise within the NET domain (e.g., duration of time devoted to NET expertise, proof of attending specific NET courses and meetings [either giving lectures or as part of CME] other particulars pertaining to NET expertise). If as a NET specialist you are replacing a recognised NET	



		specialist colleague, then this should be stated and an educational plan should be provided by the specialist in conjunction with the NET leader in your centre.
11.1.3. Endoscopy- special examiner qualifications	An expert with special skills in endoscopies (bronchoscopy) including biopsies is expected.	
	An expert with special skills in endobronchial sonography, including EUS-guided FNA (1specialist is mandatory) is expected.	
11.1.4 Specialist endoscopists	Please provide the No. of specialist endoscopists which perform the various endoscopies	For onsite audit preparation please fill in chapter 15. Key figures: 15.11 ff.
11.1.5 Keeping the qualification	CME-defined by national societies for physicians and nursing staff should be verified annually.	Guidance: please describe here how further training of NET staff is organised and keep proofs and certificates ready for on-site audit.
11.1.6 Equipment	Equipment is expected for: Specific EUS Please provide a description of your equipment.	
11.2. Quality-related Proce	esses	
11.2.1 Description of procedures	The center needs to display its standards of applied diagnostics and therapeutics. The descriptions should refer to ENETS GL and ENETS SOC (as far as currently published) and include responsibilities and resources	Guidance: please list and provide descriptions of your main procedures or applied standardised reporting on NET)
11.2.2 Patient information	Informed consent is documented in patient's file. (Appropriate to individual countries.)	
11.2.3 Patient safety	The partner should confirm that the national requirements in reference to patient safety are adhered to.	
11.2.4 Tumor documentation	Data/results pertaining to pulmonology should be made available to the NET coordinator/ specialist.	
11.3. Performance Data		
Currently no additional data collection is required		

12. Scientific Activities			
Rationale:			
A center of excellence on rare tur	nors should have ambitious research efforts	in this field.	
12.1. Clinical Trials			
12.1.1 Resources	Study nurse (mandatory)		
	Study representative (mandatory)		
	Study sponsor (mandatory)		



	CRC locally (CRC = cancer research commission) (optional)	Guidance: please describe your NET research group and how it
	Commission) (optional)	functions.
12.1.2	Individual documentation according to	
Documentation	study protocol (mandatory). Active participation protocol should be	
	featured on ENETS website (optional)	
12.1.3	Comprehensive patient information	
Patient information	regarding ongoing studies according to	
	GCP - Guidelines and EC approval (mandatory)	
12.1.4 Performance data scientif	ic activities - to be discussed for extended sco	l ope
12.1.4.1	Number of prospective specific diagnostic	Guidance: please fill in chapter 14. Key
Prospective trials	/ therapeutic trials ([GEP] and [PULM]NET)	figures: 15.12.1.1.
	within the last calendar year	
	Trials that "count" here: Any GI and	
	Pulmonary NET- focused diagnostic or	
	therapeutic prospective research	
	according to international rules (approval	
	by ethics committee) and intention to be published, either in an international,	
	national setting or as a local initiative of	
	the center.	
12.1.4.2	Number of [GEP] and [PULM] NET patients	Mandatory – annual return data
Patients in clinical trials	treated in clinical trials within the last	For engite audit proportion, places fill
	calendar year (treatment and F/U) Trials that "count" here:	For onsite audit preparation, please fill in chapter 15. Key figures: 15.12.1.2
	any GI and pulmonary NET-focused	in chapter 13. Key figures. 13.12.1.2
	diagnostic or therapeutic prospective	
	research according to international rules	
	(approval by ethics committee) and intention to be published, either in an	
	international or national setting or as a	
	local initiative of the center.	
	Ideally 10% of current patients should be	
	included/treated in trials following this	
12.1.4.3 Patients newly enrolled	definition. Number of newly enrolled [GEP] and	Mandatory – annual return data
into clinical trials	[PULM] NET patients in prospective trials	For onsite audit preparation, please fill
	during the last calendar year	in chapter 15 Key figures: 15.12.1.3.
12.2. Publications		
12.2.1	Annual research report is to be provided	Centers are to provide an updated
Performance data	(mandatory)	publication list ([GEP] NET focus)
12.2.2	Number of peer reviewed publications	together with annual return data Mandatory – annual return data
No. of original articles	(originals focusing on NET within last	Wallactory aminarized made
G	calendar year)	For onsite audit preparation, please fill
		in chapter 15. Key figures: 15.12.2.1.
12.2.3	Number of	Mandatory – annual return data
No. of other peer-reviewed	review articles, case studies,	and a second sec
publications in NET	letters or other peer reviewed works	For onsite audit preparation, please fill
	focusing on [GEP]-NET within the last	in chapter 15. Key figures: 15.12.2.2
	calendar year	
12.3. Research Projects		I
12.3.1 International studies	International studies should be supported (optional)	For onsite audit preparation please fill in chapter 15 Key figures: 15.12.3.1.
	:l. pilot phase PULM NET 2020-10-19 changes marked -	



12.3.2	No. of retrospective analysis	For onsite audit preparation: please fill	
Retrospective analysis	(therapy/diagnostics) within the last 5	in chapter 15. Key figures: 15.12.3.2.	
	years		
12.3.3	No. of active/current basic NET research	For onsite audit preparation please fill in	
Current basic NET research	within the last 5 years	chapter 15. Key figures: 15.12.3.3.	
12.3.4	No. of active /current specific research	For onsite audit preparation please fill in	
Current research students	students, please differentiate into	chapter 15. Key figures: 15.12.3.4.	
	PhD		
	Lower grade		
12.3.5	Participation at ENETS conferences is	For onsite audit preparation please fill in	
International exchange of	required: at least one member of tumor	chapter 15. Key figures: 15.12.3.5.	
experience	board (mandatory)		
12.3.6	Clinical trials should be published on the		
Clinical trials announcement	ENETS website		
12.4 Notional / Internation	nol NICT Activity		
12.4. National / Internatio	nai NET Activity		
12.4.1	Centers should be involved in	Please describe your activities	
National/international NET	national/international networking		
networking	activities in NET		

13.Patient Involvement		
D. II.		
	patient orientation. Patients require informat . Patient satisfaction should be determined at	
13.1.Patient Information		
13.1.1. Informed consent	Documentation of Informed Consent should be provided in patient file. (mandatory) Letters and tumor board decisions should be given to patients (optional / upon request)	
13.1.2 Internet and / or flyer	Introduction of the center (mandatory) Information about Psychosocial services (mandatory) Treatment options for NETS (optional, dependent on national law)	
13.1.3 Patient conferences	Support of patient information conferences (optional)	
13.2. Patient Questionnaire	e / feedback	
13.2.1 Patient questionnaire	A patient questionnaire should be handed out. (Mandatory)	
13.2.2 Performance data	Percentage of questionnaire feedback	Mandatory – annual return data For onsite audit preparation, please fill in chapter 14. Key figures: 14.12.2.1.
13.2.3 Patient feedback	Please describe how patients provide feedback	Guidance: e.g. patient complaint system



14. Follow-up and Tumor Documentation		
14.1. Resources		
14.1.1. HR Resources	A data manager should be available	Please name the data manager and describe tasks.
14.1.2 Technical equipment	Software (in the future)	
14.2. Quality-related Proc	esses	
14.2.1 Description of procedures used	The center will determine the mode that governs the feedback about results of the follow-up including responsibilities and resources.	
14.2.2 Registry	Centers must have a local database and have to show how this works during the audit. The CoE process has to be linked to a registry in some format (although it is recognised that this may be difficult for certain countries)	Please describe- how is your patient registry organised?
14.2.3 ENETS registry	In case of availability of a national NET registry, centers should contribute to the national registry. CoE in countries without a national NET registry are encouraged to directly contribute to the ENETS registry	Please describe how you participate in a national or supranational NET registry. (if applicable)
14.3.4 Patient files	contribute to the ENETS registry	Please describe your use of electronic patient files-and how your patient documentation is organised?
14.3.5 Dataset	A dataset must be defined	
14.3. Performance Data		
	on fill in /or provide data from the last cale cation fill in data of the calendar year before	
14.3.1 GEP NET patients in follow-up	[GEP] NET patients in follow-up (n) and (%)	Mandatory – annual return data For onsite audit preparation, please fill
14.3.2 Percentage of GEP NET patients lost to follow up	Target: >70%	in chapter 15. Key figures: 15.13.1. Guidance: please fill in chapter 15. Key figures: 15.13.2.
13.3.3 NEW: pancreatic NET - Median of survival in months	pancreatic NET - Median of survival in months	Mandatory – annual return data For onsite audit preparation, please fill in chapter 14. Key figures: 14.13.3.
13.3.4 -NEW: pancreatic NEC - Median of survival in months	pancreatic NEC - Median of survival in months	For onsite audit preparation, please fill in chapter 14. Key figures: 14.13.4.
13.3.5 NEW: small intestinal NET G1 and G2 (combined) Median of survival in months	small intestinal NET G1 and G2 (combined) Median of survival in months	For onsite audit preparation, please fill in chapter 14. Key figures: 14.13.5.
14.3.3 PULM NET patients in follow-up	[GEP] NET patients in follow-up (n) and (%) Target: >70%	Mandatory – annual return data For onsite audit preparation, please fill in chapter 15 Key figures: 15.14.3
14.3.4	1015Ct. 77070	Guidance: please fill in chapter 14. Key figures: 15.14.4
	nilot phase PLILM NET 2020-10-19 changes marked -	© by ENETS e V nage 28 of



PULM NET percentage of		
patients lost to follow-up		Ì

15. Key Figures

The center will determine the mode that governs the feedback about results of the follow-up including responsibilities and resources. A registry associated follow-up procedure is recommended.

Centers applying for initial certification should fill in data from previous the calendar year before application – If this data is not available – the starting point for data collection is the day of enrolment into the CoE programme.

Centers applying for re-certification fill in data from the last calendar year. (caveat: all key figures, not only annual return data)

15.1 NET Patients		
15.1.1. New GEP NET patients Referring item 3.3.1.1	No. of <u>new</u> ([GEP] NET)_patients annually seen by NET specialists at the center [Clarification: "patients" are individuals, not patient contacts. One patient with several appointments in the center is counted once/ year as "patient"] Centers who are NOT applying for the scope	Mandatory – annual return data Optional for centers applying for
	[GEP] NET Center can additionally mention: no. of NEW PULM NET to underline their NET expertise	certification as GEP NET CoE
15.1.2 Percentage GEP NET patients treated in center Referring item 3.3.1.2	No. /percentage of these new GEP NET patients treated in the center	Mandatory – annual return data
15.1.3 current GEP NET patients Referring item 3.3.1.3.	No. of <u>current</u> [GEP] NET patients seen annually by NET specialist ["current patients": all [GEP] NET patients (individuals) seen in the center, including NEW [GEP] NET patients and patients seeking for SECOND OPINION]	Mandatory – annual return data
	Pulmonary NET: Centers can mention: current non-small cell NET and typical and atypical carcinoma to display their NET expertise but these do not 'count' for the [GEP] NET center	Optional for centers applying for certification as GEP NET CoE (without scope on PULM NET)
15.1.4 New PULM NET patients Referring item 3.3.1.4	For centers applying for the extended scope No. of new PULM NET patients seen by NET specialists of the center in the last calendar year	For centers with extended scope Mandatory – annual return data
	[Clarification: "patients" are individuals , not patient contacts. One patient with several appointments in the center is counted once/ year as "patient"]	



15.1.5 Referring item 3.3.1.5	No. /percentage of these new [PULM] NET patients treated in the center		
15.1.6 Referring item 3.3.1.6	No. of <u>current</u> [PULM]-NET patients seen annually by NET specialist ["current patients": all PULM NET patients (individuals) seen in the center, including NEW PULM NET patients, patients seeking for SECOND OPINION as well as patients in Follow-Up]	For centers with extended scope Mandatory – annual return data	
15.1.7 Referring item 3.3.2	Percentage of patients with waiting times concerning the consultation appointment less than 2-4 weeks. (sample possible)	A random sample of. e.g. 4 to 6 weeks will suffice as proof (documentation is part of the 'file of evidence' the auditors will require for the onsite audit)	
15.1.8. Referring item 3.3.3.	Percentage of patients with concluded staging within 4-6 weeks	(documentation is part of the 'file of evidence' the auditors will require for the onsite audit)	
15.1.9 Referring item 3.3.4	Percentage of appointments at center partners within 2 weeks (sample possible)	(documentation is part of the 'file of evidence' the auditors will require for the onsite audit)	
15. 2 NET Tumor Boa	ard / Multidisciplinary Decision Making Te	eam (MDT)	
15.2.1. [GEP] NET patients Referring item 2.1.4.1	No. of <u>all</u> [GEP] NET patients (individuals) discussed in tumor board.	Mandatory – annual return data	
- G	No. of tumor board discussions in [GEP] NET patients	Mandatory – annual return data	
15.2.2 New GEP NET patients Referring item 2.1.4.2	No. of new [GEP] NET patients (individuals) discussed in tumor board All new [GEP] NET patients have to be presented in the MDT. (at least to be mentioned e.g. small benignly behaving tumors) This is not required for patients referred to the center for specific therapies (like e.g. PRRT) from other centers with MDT or from other countries.	Mandatory – annual return data	
15.2.3 Second. opinions Referring item 2.1.4.3	No. of second opinions ([GEP] NET, individuals) discussed in tumor board Clarification: A patient to be counted as "second opinion patient" for the center is to be seen by a NET expert of the CoE and to be presented in MDT with patient history, blood test results where appropriate, full imaging and pathology - both revised by the CoE experts - and gets a full MDT report with recommendation for diagnostics, treatment and follow- up, but treatment and F-U are carried out in other center. "Second opinions" are an intersection of "NEW [GEP] NET patients" Second opinions on radiology review or pathology review on their own should not be counted as a second opinion but only as an opinion from an individual NET specialist partner.		
15.2.4 Number of all PULM NETs discussed in TU Board Referring item 2.1.4.4	No. of <u>all</u> PULM NET patients (individuals) discussed in tumor board (several presentations/discussions in the tumor board per year = 1 patient)	Mandatory – annual return data For onsite audit preparation please fill in chapter 14. Key figures: 14.2.1.	



	No. of tumor board discussions in [PULM] NET patients (each presentation/discussion counts here – reflecting the workload of the center)	Mandatory – annual return data
15.2.5. Number of all NEW PULM NET patients discussed in TU Board Referring item 2.1.4.5	No. of <u>all</u> NEW PULM NET patients (individuals) discussed in tumor board (several presentations/discussions in the tumor board per year = 1 patient)	Mandatory – annual return data For onsite audit preparation please fill in chapter 14. Key figures: 14.2.1.
	No. of tumor board discussions in [PULM] NET patients (each presentation/discussion counts here – reflecting the workload of the	Mandatory – annual return data
	center)	
15.2.6 Second opinion on PULM NET Referring item 2.1.4.6	No. of second opinions (PULM NET, individuals) discussed in tumor board	
15.2.7 Treatment decision making / outcome of the tumor board / adherence to ENETS guidelines Referring item 2.1.4.7	Treatment decision making surgery (n) interventional radiology (n) nuclear medicine (n) medical therapies (n) watch and wait other (n)	Adherence to ENETS guidelines in MDT / evaluation based on internal audits (e.g. sample of 15-20 cases) (voluntary annual return data, results will be discussed during onsite audits)
15.2.8 Adherence to MDT decision making Referring item 2.1.4.8	Implementation of tumour board decision making (percentage)	Adherence to MDT (evaluation based on internal audits, e.g. sample of 15-20 cases)
15.3 Specialist NET Con	sultation	
15.3.1 Waiting times	Waiting times concerning the consultation appointment (days)	A random sample of. e.g. 4 to 6 weeks will suffice as proof
	Period during which staging is concluded (days)	A random sample of. e.g. 4 to 6 weeks will suffice as proof
15.4 Endocrinology	No figures need to be filled in here	
15.5 Gastroenterology		
15.1.5.1 Endoscopists Referring item 5.1.5	No. of specialist endoscopists who perform the various endoscopies	
15.6 Oncology		
15.6.1 Systemic and targeted therapy Referring item 6.3.1.	number of [GEP] NETS with systemic and targeted therapy (somatostatin therapy is excluded) Numbers are required for Interferon Everolimus Sunitinib Other	Mandatory – annual return data
	Streptozocin/5-FU	



	Temozolomide/Capecitabine Carbo- or Cisplatin/Etoposide	
	Other combinations	
15.6.2 Systemic and targeted therapy morbidity Referring item 6.3.2-	Number of serious adverse events after targeted therapy in [GEP] NET patients	Mandatory – annual return data: x out of y: serious adverse events
	Number of serious adverse events after systemic therapy in [GEP] NET patients	
	Number of serious adverse events after interferon therapy in [GEP] NET patients	
15.6.3 Systemic and targeted therapy mortality Referring item 6.3.3.	Number of deaths after targeted therapy in [GEP] NET patients	Mandatory – annual return data x out of y: deaths
	Number of deaths after systemic therapy in [GEP] NET patients	
	Number of deaths after interferon therapy in [GEP] NET patients	
15.6.4 Systemic and targeted therapy Referring item 6.3.4.	number of [PULM] NETS with systemic and targeted therapy (somatostatin therapy is excluded)	
	Numbers are required for Interferon Everolimus	
	Sunitinib other	
	Streptozocin/5-FU Temozolomide/Capecitabine Carbo- or Cisplatin/Etoposide	
15.6.5	Other combinations Number of serious adverse events after	Mandatany annual return data for
15.6.5 Systemic and targeted therapy morbidity	targeted therapy in [PULM] NET patients	Mandatory – annual return data for centers with extended scope
Referring item 6.3.5.	Number of serious adverse events after systemic therapy in [PULM] NET	
	Number of serious adverse events after interferon therapy in [PULM] NET	
15.6.6 Systemic and targeted therapy mortality	Number of deaths after targeted therapy in [PULM] NET	Mandatory – annual return data for centers with extended scope x out of y: deaths
Referring item 6.3.6.	Number of deaths after systemic therapy in [PULM] NET Number of deaths after interferon therapy in [PULM] NET	
15.7. Pathology		
15.7.1	No. of pathologists who are experts in [GEP]	NET expertise in Pathology: the NET
Pathologists Referring item 7.3.1	NET	expert holds a certificate of NET expertise from national institutions or from ENETS



15.7.2 Bionsios	No. of pathology reports on bioptic	This information is required prior to
15.7.2. Biopsies Referring item 7.3.2	specimen in [GEP] NET	This information is required prior to certification audits
15.7.3 Surgical spec.	No. of pathology reports on surgical	This information is required prior to
Referring item 7.3.3	specimen in [GEP] NET	certification audits
15.7.4. Immunohistology Referring item 7.3.4	No. of immuno-histochemical examinations in [GEP] NET	This information is required prior to certification audits
15.7.5 Complete reports Referring item 7.3.5	percentage of complete pathology reports on [GEP] NET (surgery and biopsy)	This information is required prior to certification audits
	No. of pathologists who are experts in	
15.7.6 Pathologists Referring item 7.3.6	PULM NET	This information is required prior to certification audits
15.7.7 Biopsies Referring item 7.3.7	No. of pathology reports on bioptic specimen in [PULM] NET	This information is required prior to certification audits
15.7.8 Surgical specimens Referring item 7.3.8	No. of pathology reports on surgical specimens in [PULM] NET	This information is required prior to certification audits
15.7.9 Immunohistology	No. of immuno-histochemical examinations	This information is required prior to
Referring item 7.3.9	on [PULM] NET	certification audits
15.7.10 Complete reports Referring item 7.3.10	Percentage of complete pathology reports on [PULM] NET (surgery and biopsy)	This information is required prior to certification audits
15.8 Radiology		
15.8.1 No. of interventions		
15.8.2 TA(C)E	Total No. of TA(C)E	Mandatory annual return data
Referring item 8.3.2	No of TA(C)E in NET	
15.8.3 SIRT/ intra-arterial PRRT	Total No of SIRT/ intra-arterial PRRT with	Mandatory annual return data
with (radio) pharmaceuticals	(radio) pharmaceuticals	Manuatory annual return data
with (radio) pharmaceuticals	(radio) pharmaceaticals	
Referring item 8.3.3	No of SIRT in NET/ intra-arterial PRRT with (radio)pharmaceuticals	
15.8.4 RFA	Total No of RFA	
Referring item 8.3.4	No of RFA in NET	
15.8.5 PVE	Total No of PVE	
Referring item 8.3.5	No of PVE in NET	
15.8.6 PTCD Referring item 8.3.6	Total No of PTCD No of PTCD in NET	
15.8.7 Morbidity in (combined)	Number of serious adverse events after	Mandatory – annual return data:
interventional radiology	(combined) interventional radiology	x out of y: serious adverse events
Referring item 8.3.7	Morbidity and mortality have to be	
	collected for the	
	Procedures (TA[C]E and SIRT) in general,	
	not only related to these procedures used	
	in [GEP] NET patients (this is different to	
	oncology) Centers can set the time frame due to local and national circumstances and	
	obligations.	
	In-house morbidity /mortality	
	30 day morbidity /mortality	
	90 day morbidity /mortality	
	Centers can collect full data or a random	
	sample	
15.8.8 Mortality in (combined)	Number of deaths after (combined)	Mandatory – annual return data:
interventional radiology Referring item 8.3.8.	interventional radiology	x out of y: deaths
15.9 Nuclear Medicine		
15.9.1. PET	Total No. of PET	Mandatory annual return data
Referring item 9.3.1.		
15.9.2. PET in NET Referring item 9.3.32.	Total No. of PET in NET	Mandatory annual return data
15.9.3 Octreoscans	Total No. of Octreoscans	Mandatory annual return data



Referring item 9.3.3.		
15.9.4 Therapeutic	No. of therapeutic	
interventions in own center	interventions (administrations) in own	
Referring item 9.3.4.	center	
Number of therapeutic	■ PRRT	
interventions is to be	■ MIBG	Mandatory annual return data
interpreted as "number of	 PRRT in combination with other 	Mandatory annual return data
administrations"	treatments	Mandatory annual return data
15.9.5. Therapeutic	No. of therapeutic	
interventions in partner	interventions in partner center (referrals to	
(referral) center	this partner center)	
Referring item 9.3.5.	PRRT	Mandatory annual return data
Number of therapeutic	■ MIBG	Mandatory annual return data
interventions should be	PRRT in combination with other	Mandatory annual return data
interpreted as "number of	treatments	
administrations"		
15.9.6 Therapeutic	Number of serious adverse events after	
interventions –morbidity	PRRT	
referring item 9.3.6	■ MIBG	Mandatory annual return data
Number of therapeutic	PRRT in combination with other	Mandatory annual return data
interventions should be	treatments	Mandatory annual return data
interpreted as "number of	Centers can set the time frame due to local and	
administrations"	national circumstances and obligations. In-house morbidity /mortality	
	30 day morbidity /mortality	
	90 day morbidity /mortality	
	Centers can collect full data or a random	
	sample	
15.9.7 Therapeutic	Number of deaths after	
interventions –mortality	■ PRRT	Mandatory annual return data
referring item 9.3.7	■ MIBG	Mandatory annual return data
Number of therapeutic	 PRRT in combination with other 	Mandatory annual return data
interventions is to be	treatments	
interpreted as "number of		
administrations"		
15.10 Surgery		
15.10.1 No. of hepato-biliary	Please provide information about numbers	
surgery in NET non-NET	 Partial hepatectomies 	
patients	 Radiofrequency assisted resection 	Mandatory annual return data
Referring item 10.3.1.	■ Other	Mandatory annual return data
15.10.2	Please give information about	
No. of hepato-biliary surgery in	 Partial hepatectomies 	Mandatory annual return data
[GEP] NET	 Radiofrequency assisted resection 	Mandatory annual return data
Referring item 10.3.2	Other	
15.10.3	Please provide information about numbers	
No. of pancreatic surgery in	 Pancreaticoduodenectomy 	Mandatory annual return data
NET and non-NET patients	 Distal resection 	Mandatory annual return data
Referring item 10.3.3.	Enucleation	Mandatory annual return data
_	■ other	Mandatory annual return data
15.10.4	otherPlease provide information about [GEP] NET	Mandatory annual return data
15.10.4 No. of pancreatic surgery in	otherPlease provide information about [GEP] NETPancreaticoduodenectomy	Mandatory annual return data
15.10.4 No. of pancreatic surgery in [GEP] NET	 other Please provide information about [GEP] NET Pancreaticoduodenectomy Distal resection 	Mandatory annual return data
15.10.4 No. of pancreatic surgery in	 other Please provide information about [GEP] NET Pancreaticoduodenectomy Distal resection Enucleation 	Mandatory annual return data
15.10.4 No. of pancreatic surgery in [GEP] NET Referring item 10.3.4.	 other Please provide information about [GEP] NET Pancreaticoduodenectomy Distal resection Enucleation Other 	Mandatory annual return data
15.10.4 No. of pancreatic surgery in [GEP] NET Referring item 10.3.4.	 other Please provide information about [GEP] NET Pancreaticoduodenectomy Distal resection Enucleation Other Please provide information about: 	
15.10.4 No. of pancreatic surgery in [GEP] NET Referring item 10.3.4. 14.10.5: No. of intestinal surgery in NET	 other Please provide information about [GEP] NET Pancreaticoduodenectomy Distal resection Enucleation Other Please provide information about: stomach 	Mandatory annual return data
15.10.4 No. of pancreatic surgery in [GEP] NET Referring item 10.3.4. 14.10.5: No. of intestinal surgery in NET and non-NET patients	 other Please provide information about [GEP] NET Pancreaticoduodenectomy Distal resection Enucleation Other Please provide information about: stomach lleum 	Mandatory annual return data Mandatory annual return data
15.10.4 No. of pancreatic surgery in [GEP] NET Referring item 10.3.4. 14.10.5: No. of intestinal surgery in NET	 other Please provide information about [GEP] NET Pancreaticoduodenectomy Distal resection Enucleation Other Please provide information about: stomach Ileum Colon 	Mandatory annual return data Mandatory annual return data Mandatory annual return data
15.10.4 No. of pancreatic surgery in [GEP] NET Referring item 10.3.4. 14.10.5: No. of intestinal surgery in NET and non-NET patients	 other Please provide information about [GEP] NET Pancreaticoduodenectomy Distal resection Enucleation Other Please provide information about: stomach lleum 	Mandatory annual return data Mandatory annual return data



	- Other (optional)	
15.10.5 No. of intestinal surgery in NET Referring item 10.3.6	Please provide information about: - stomach NET - lleum NET - Colon NET - Rectum NET - Peritoneal resections in NET - Other NET	
15.10.7 Morbidity and mortality after hepato-biliary surgery (in NET non-NET patients) Referring item 10.3.7	Please provide information about the morbidity rate using the Clavien Dindo Classification Grade 3 (n) Grade 4 (n) Grade 5 (n) Centers can set the time frame due to local and	Mandatory annual return data Mandatory annual return data Mandatory annual return data Clavien Dindo Classification Grade 3: Requiring surgical, endoscopic or
	national circumstances and obligations. In-house morbidity /mortality 30 day morbidity /mortality 90 day morbidity /mortality Centers can collect full data or a random sample	radiological intervention Grade 4: Life-threatening complication (including CNS complications) requiring IC/ICU management Grade 5: death Dindo D., Demartines N., Clavien P.A.; Ann Surg. 2004; 244: 931-937
15.10.8 Morbidity and mortality after pancreatic surgery (in NET and non-NET patients)	Please provide information about the morbidity rate using the Bassi Classification for pancreatic fistula	Literature: Bassi C, Dervenis C, Butturini G et al. (2005)postoperative pancreatic fistula: an international study group (ISGPF) definition Surgery 2005; 138: 8-13
Referring item 10.3.8	 Grade A Grade B Grade C Death Centers can set the time frame due to local and national circumstances and obligations. In-house morbidity /mortality 30 day morbidity /mortality 90 day morbidity /mortality Centers can collect full data or a random 	Mandatory annual return data Mandatory annual return data Mandatory annual return data Mandatory annual return data
15.10.9 Morbidity and mortality after intestinal surgery(in NET and non-NET patients)	sample Please provide information about morbidity and mortality after intestinal surgery (stomach, ileum, colon, rectum, peritoneum) using the Clavien Dindo Classification	Mandatory – annual return data
Referring item 10.3.9	- Grade 3 (n) - Grade 4 (n) - Grade 5 (n) Centers can set the time frame due to local and national circumstances and obligations In house morbidity /mortality - 30 day morbidity /mortality - 90 day morbidity /mortality Centers can collect full data or a random sample	Mandatory annual return data Mandatory annual return data Mandatory annual return data
15.10.9 No. of thoracic /Pulmonary?? surgery in NET and non-NET patients	Please provide information about numbers Anatomical lung resections Atypical lung resections	For centers with extended scope Mandatory annual return data Mandatory annual return data



Referring item 10.3.9.	Minimal invasive (video assisted) lung		
45 40 40	resections (VATS)	5	
15.10.10	Please provide information about numbers	For centers with extended scope	
No. of thoracic surgery in NET	in [PULM] NET patients		
patients	Anatomical lung resections	Mandatan annual satura data	
Referring item 10.3.10.	 Atypical lung resections Minimal invasive (video assisted) lung 	Mandatory annual return data	
	iviiiiiiai iiivasive (viaco assistea) iaiig	Mandatory annual return data	
15 10 11	resections (VATS)		
15.10.11	Please provide information about		
Morbidity and mortality after	morbidity and mortality after pulmonary		
thoracic/Pulmonary surgery (surgery using the Clavien Dindo		
in NET and non-NET patients)	Classification		
D-f-min = it-m- 10 2 11	- Grade 5 (II)		
Referring item 10.3.11	Grade 4 (n)		
	Grade 5 (n)		
	Centers can set the time frame due to local and national circumstances and obligations.		
	In-house morbidity /mortality		
	30 day morbidity /mortality		
	90 day morbidity /mortality		
	Centers can collect full data or a random		
	sample		
14.x	Number of other therapies	Please explain and enumerate other	
Other therapies		therapy options your center offers	
		(voluntary)	
14.x1	Number of serious adverse events after		
	other therapies		
14.x.2	Number of deaths after other therapies		
15.11. Pulmonology - Exp	ertise in Endoscopy		
15.11.1	No. of specialist endoscopists that perform		
Pulmonologists	the various endoscopies		
Referring item 15.11.3			
15.12 Scientific Activities			
15.12.1 Clinical trials	Clinical trials that "count" here: GI and pulmo	onary NET-focused diagnostic or therapeutic	;
	prospective research according to internation		
	intention to be published, either internationa		he
	center.		
15.12.1.1 Prospective trials	No. of prospective specific diagnostic /	Mandatory annual return data	
Referring item 12.1.4.1.	therapeutic trials ([GEP] and [PULM] NET)	,	
	within the last calendar year		
15.12.1.2	percentage of patients included /treated in	Mandatory annual return data	
I NET DAUGHUS III CHIHCALITIAIS	trials ([GEP] NET and [PUI M] NFT) within		
NET patients in clinical trials Referring item 12.1.4.2.	trials ([GEP] NET and [PULM] NET) within the last calendar year (treatment and F/U)		
Referring item 12.1.4.2.	trials ([GEP] NET and [PULM] NET) within the last calendar year (treatment and F/U)		
	the last calendar year (treatment and F/U)		
	the last calendar year (treatment and F/U) Target: No. of patients in studies should be		
Referring item 12.1.4.2.	the last calendar year (treatment and F/U) Target: No. of patients in studies should be >10 %	Mandatory annual return data	
Referring item 12.1.4.2. 15.12.1.3	the last calendar year (treatment and F/U) Target: No. of patients in studies should be >10 % No of newly enrolled [GEP] NET and [PULM]	Mandatory annual return data	
Referring item 12.1.4.2. 15.12.1.3 NEW NET patients in clinical	the last calendar year (treatment and F/U) Target: No. of patients in studies should be >10 % No of newly enrolled [GEP] NET and [PULM] NET patients into prospective clinical trials	Mandatory annual return data	
Referring item 12.1.4.2. 15.12.1.3 NEW NET patients in clinical trials	the last calendar year (treatment and F/U) Target: No. of patients in studies should be >10 % No of newly enrolled [GEP] NET and [PULM]	Mandatory annual return data	
Referring item 12.1.4.2. 15.12.1.3 NEW NET patients in clinical trials referring item 12.1.4.3	the last calendar year (treatment and F/U) Target: No. of patients in studies should be >10 % No of newly enrolled [GEP] NET and [PULM] NET patients into prospective clinical trials	Mandatory annual return data	
Referring item 12.1.4.2. 15.12.1.3 NEW NET patients in clinical trials referring item 12.1.4.3 15.12.2 Publications	the last calendar year (treatment and F/U) Target: No. of patients in studies should be >10 % No of newly enrolled [GEP] NET and [PULM] NET patients into prospective clinical trials during the last calendar year		
Referring item 12.1.4.2. 15.12.1.3 NEW NET patients in clinical trials referring item 12.1.4.3 15.12.2 Publications No. of original articles	the last calendar year (treatment and F/U) Target: No. of patients in studies should be >10 % No of newly enrolled [GEP] NET and [PULM] NET patients into prospective clinical trials during the last calendar year Number of peer reviewed publications	Mandatory annual return data Mandatory annual return data	
Referring item 12.1.4.2. 15.12.1.3 NEW NET patients in clinical trials referring item 12.1.4.3 15.12.2 Publications	the last calendar year (treatment and F/U) Target: No. of patients in studies should be >10 % No of newly enrolled [GEP] NET and [PULM] NET patients into prospective clinical trials during the last calendar year Number of peer reviewed publications (original articles focusing on NET within last		
15.12.1.3 NEW NET patients in clinical trials referring item 12.1.4.3 15.12.2 Publications No. of original articles Referring item 12.2.2.	the last calendar year (treatment and F/U) Target: No. of patients in studies should be >10 % No of newly enrolled [GEP] NET and [PULM] NET patients into prospective clinical trials during the last calendar year Number of peer reviewed publications (original articles focusing on NET within last calendar year)	Mandatory annual return data	
15.12.1.3 NEW NET patients in clinical trials referring item 12.1.4.3 15.12.2 Publications No. of original articles Referring item 12.2.2. No. of other peer reviewed	the last calendar year (treatment and F/U) Target: No. of patients in studies should be >10 % No of newly enrolled [GEP] NET and [PULM] NET patients into prospective clinical trials during the last calendar year Number of peer reviewed publications (original articles focusing on NET within last calendar year) Number of review articles, case studies,		
15.12.1.3 NEW NET patients in clinical trials referring item 12.1.4.3 15.12.2 Publications No. of original articles Referring item 12.2.2. No. of other peer reviewed publications	the last calendar year (treatment and F/U) Target: No. of patients in studies should be >10 % No of newly enrolled [GEP] NET and [PULM] NET patients into prospective clinical trials during the last calendar year Number of peer reviewed publications (original articles focusing on NET within last calendar year) Number of review articles, case studies, letters or other peer–reviewed works	Mandatory annual return data	
15.12.1.3 NEW NET patients in clinical trials referring item 12.1.4.3 15.12.2 Publications No. of original articles Referring item 12.2.2. No. of other peer reviewed	the last calendar year (treatment and F/U) Target: No. of patients in studies should be >10 % No of newly enrolled [GEP] NET and [PULM] NET patients into prospective clinical trials during the last calendar year Number of peer reviewed publications (original articles focusing on NET within last calendar year) Number of review articles, case studies,	Mandatory annual return data	



15.12.3 Research Projects		
15.12.3.1 International studies	International studies should be supported	
Referring item 12.3.1.	(optional)	
15.12.3.1 Retrospective analysis	No. of retrospective analysis	This information is required prior to
Referring item 12.3.2.	(therapy/diagnostics) within the last 5 years	certification audits
15.12.3.3 Current basic NET	No. of active /current basic NET research	This information is required prior to
research	within the last 5 years	certification audits
Referring item 12.3.3.	ENETS CoE provide an annual update of	Mandatary appual return data
	their publications regarding their [GEP] NET /NET-related research	Mandatory annual return data: updated publication list is to be uploaded [background: research and clinical trials driven by pharmaceutical industry are diminishing. The number of "patients in clinical trials" decreasingly reflects the research efforts of a CoE.]
15.12.3.4 Research students Referring item 11.3.4.	No. of active /current specific research students, please differentiate into PhD Lower grade	This information is required prior to certification audits
15.12.3.5 International	Participation at ENETS conferences is	This information is required prior to
	required: at least one member of tumor	certification audits
exchange of experience Referring item 11.3.5.	board (mandatory)	
15. 13 Patient Questionnai	ro	
15. 15 Patient Questionnal	Percentage of questionnaire feedback	Mandatory annual return data
15.13.1 Percentage of	Target >50%	ivialidatory affilidal return data
questionnaire feedback	14.860. 33/3	
Referring item 13.2.2		
15.14. F / U data		
15.14.1 GEP NET Patients in	[GEP] NET patients in follow up	Mandatory annual return data
follow up	Target: >70%	
Referring item 14.3.1.	(n) and (%)	
	percentage of [GEP] NET patients lost to	
15.1.4.2. Percentage of GEP	follow up	
NET patients lost to follow up	Target: <30%	
Referring item 14.3.2.	[DIMATINET III I C II	
15.14.3 PULM NET Patients in	[PULM] NET patients in follow up Target: >70%	Mandatory annual return data for centers applying for the extended
follow up	(n) and (%)	scope on pulmonary NET
Referring item 14.3.3.		Scope on pullionary NET
15.1.4.2. Percentage of PULM	percentage of [PULM] NET patients lost to	
NET patients lost to follow up	follow up	
Referring item 14.3.4.	Target: <30%	
Neterring item 14.5.4.		