

Specifications for the Certification of ENETS Centers of Excellence Version 10.0 [Incl. specifications of an extended scope to Pulmonary NET]

Within this specification, the term "NET" remains 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 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 (small-cell and large-cell neuroendocrine carcinoma).

Pulmonary NECs (small-cell and large-cell neuroendocrine carcinoma) are not part of the certification scope as they are usually treated by pulmonary oncologists.

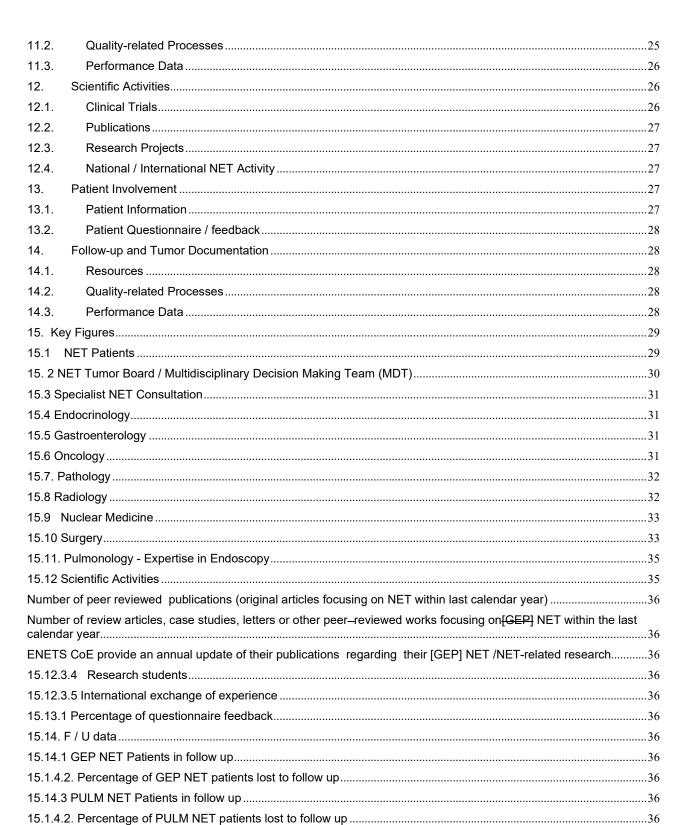
However, there might be borderline NEC/NET cases which require NET expertise and should be discussed in a NET MDT. Examples of borderline NET /NEC cases: doubt about tumor morphology or presence of high KI-67 /mitosis index with a well differentiated morphology

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.



Content 1. Structure......4 1.1. Organisational Chart/ Management Structure4 1.2. Main partners/core partners......4 1.3. Secondary Partners5 1.4. Referring Partners/ Affiliated Partners6 1.5. 2. 2.1. NET Tumor Board /Multidisciplinary Decision-Making Team (MDT)......6 2.2. Quality Management Meetings......9 2.2.1. Organisational meetings.......9 2.2.2. 2.2.3. 2.3. 3. 3.1. Resources 10 4. 4.1. 4.2. 4.3 5. 5.1. Resources 13 5.2. Quality-related Processes 14 5.3. 6. 6.1. 6.2. 6.3. 7. 7.1. 7.2 7.3. Performance data......17 8. 8.1. Quality-related Processes 19 8.2. 8.3. 9. 9.1. 9.2. 9.3. 10. Resources 21 10.1. 10.2. 10.3. 11. 11.1.





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 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.

stated and an <u>educational plan</u> sn	ould 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
	Decision on obligatory attendance of tumor conference
	5. Guarantee of availability
	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)
	Requirement to implement ENETS Guidelines and SOPs
	Description of cooperation regarding tumor documentation
	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.)
	12. Continuing education / CME
	13. Participation on quality improvement measures (Quality circles, Management
	Review)
	neview)

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.

	<u> </u>	
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		
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 → 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 hospitals	
1.5.2	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	l center nee	ds structured	linterdi	sciplinary c	lecision-mal	king.

7. 551 tilled	0011101 110000 011 001010	G	responsary accession making.		
2.1.1.	Participants	Manda	tory participants [GEP] NET MDT:	Guidance: In the on-site audit the	
		1.	Internist NET specialist	auditors expect to attend a Tumor	
		2.	Surgeon	Board meeting	
		3.	Radiologist		
		4.	Pathologist		
		5.	Nuclear Medicine Specialists – or		
			Radiologist if they are		
			experienced in nuclear medicine		

ENETSCOE Requirements Catalogue Version 10.0 2022-07-03 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, if NET expertise is not covered by Internist NET Specialist **Optional participants:** All specialists needed (at the request of tumor board organiser) 2.1.2. Organisation There should be a description of the Guidance: organization of the tumor board referring templates of a SOP for tumor board to local organization structures, including organisation and MDT protocol are responsibilities and resources. available 2.1.2.1 The coordinator of the tumor board should Coordination of tumor board be the internist NET specialist or the NET specialist surgeon. (optional) 2.1.2.2 Information shall be provided to all Preparation of tumor board participants prior to meeting. (mandatory) 2.1.2.3 Physical presence of the participants is Meeting conditions desirable (but video conferencing is also 2.1.2.4 **Imaging** Images have to be made available, including external histology slides and imaging. (mandatory) 2.1.2.5 Minimum required frequency of the tumor Frequency board is every four weeks, (mandatory) but it should be appointed weekly. (Emergency therapies can be given prior) 2.1.2.6 All new GEP NET/ PULM NET patients If the center applies for the extended Patients to be presented in TU (mandatory) scope: PULM NET are mandatorily to be **Board** discussed in tumor board 2. All GEP NET/PULM NET patients where a diagnostic or therapeutic decision needs multidisciplinary input (mandatory) To be discussed during the pilot phase: 3. All GEP NET/ PULM NET patients after Recommendation: please, read in 3. "All [GEP] NET/ pulmonary NET patients surgery in follow-up" instead of "after surgery" 2.1.3 Documentation The-NET tumor board protocol should 2.1.3.1 contain the following information: Tumor board protocol 1. Date of tumor board meeting. 2. Routine patient data. 3. 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).

ENETSCOE	, ,	03
	6. Signature of at least one responsible participant.	
2.1.3.2	Outcome of board will be distributed to:	
Patient information /	l	
•	Referring physician (mandatory) 2. Retirate file (was a data m.)	
Referrer information	2. Patient file (mandatory)	
	3. All members of the board (that have	
	no electronic access to patient file)	
	4. General practitioner	
	5. Patients (on request)	
2.1.3.3 Time target	Two weeks	
2.1.4	The center provides an annual statistics	
Performance data of the tumor	report on the tumor board. (mandatory)	
board		
2.1.4.1 All GEP NET	No. of <u>all</u> GEP NET patients (individuals)	Mandatory – annual return data
	discussed in tumor board	For onsite audit preparation please fill
	(several presentations/ discussions in the	in chapter 14. Key figures: <u>15.2.1.</u>
	tumor board per year count as 1 patient/	
	individual)	
	No. of tumor board discussions in [GEP]	Mandatory – annual return data
	NET patients (each presentation/	
	discussion counts here – taking into	
	account the workload of the center)	
2.1.4.2 NEW GEP NET	No. of <u>new</u> [GEP] NET patients (individuals)	Mandatory – annual return data
	discussed in tumor board	For onsite audit preparation please fill
	All new [GEP] NET patients have to be	in chapter 15. Key figures 15.2.2.
	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	
	country	
2.1.4.3 Second opinion GEP	No. of second opinions (GEP NET,	Please fill in chapter 15 Key figures
NET	individuals) discussed in tumor board	15.2.3.
NET	marviadais) discussed in turnor board	15.2.5.
	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 [GEP] NET patients"	
	Second opinions on radiology review or	
	pathology review on their own don't count	
2444	for the CoE	
2.1.4.4 All PULM NET	No. of <u>all</u> PULM NET patients (individuals)	Mandatory annual return data for CoE
	discussed in tumor board	applying for the extended scope on
	(several presentations/discussions in the	Pulmonary NET
	tumor board per year count as 1 patient)	Please fill in chapter 15. Key figures:
		<u>15.2.4.</u>
	No. of tumor board discussions in [PULM]	Mandatory – annual return data
	NET patients (each presentation/	

ENETSCOE		
	discussion counts here – reflecting the workload of the center)	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)	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)
	f needed, add further information as an appen	
In a certified center it is necessary problems in order to regularly up	y to maintain procedures of structured discuss date quality planning.	ion of results and interdisciplinary
2.2.1. Organisational meetin	gs	
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)

ENETSCOE	Requirements Catalogue Version 10.0 2022-07-0	03
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 2.2.2.3 Documentation	Main partners (mandatory) 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 Multidisciplinary	Review Meeting	
objectives for the organisation a of your center of the last year an 2.2.3.1. Frequency	nd its services. Review meetings are strategic nd undertake service planning 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 to		
	the center should be subject to timely minima	
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.
		<u> </u>

3. Specialist NET Cons	sultation (Inpatient or Outpatient)	
Rationale:			
In a center, a NET consultation	should be carried out to coordinate necessary d	iagnostics and therapeutics.	
3.1. Resources			
3.1.1	Diagnostics / confirmation and staging		
Task of the specialist NET consultation	(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		

ENETSCOE Requirements Catalogue Version 10.0 2022-07-03 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 The special consultations should be held 3.1.2. Frequency of special at least a once per week. consultations 3.1.3 Two NET specialists in a center must be **Human Resources** 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 A NET specialist is defined as a senior Special qualifications for endocrinologist, gastroenterologist, physicians 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 CME, according to center-specific Guidance: please describe how further Keeping the qualification conditions for physicians and nursing staff, training of staff referring to NET is organised and keep proofs and should be organised. certificates ready for the on-site audit. 3.2 **Quality related processes** 3.2.1 The center should display its standards of Guidance: please list and provide Description of procedures applied diagnostics and therapeutics descriptions of your main procedures e.g. general therapy of NETs, MEN I patient management (algorithm). The descriptions should refer to ENETS Guidelines and ENETS SOC (as far as currently published) including definition of responsibilities and resources 3.2.2. Waiting times concerning the consultation Guidance: A random sample of. e.g. 4 to appointment should be kept to a 6 weeks will suffice as proof Presentation of access to (this documentation is part of the 'file of evidence' minimum, e.g.should not exceed 4 weeks. specialised consultation the auditors will require for the onsite audit) Period during which staging is concluded (outpatient or inpatient) should be 4-6 weeks The acceptable waiting period until the Guidance: A random sample of. E.g., 4 to 6 weeks will suffice as proof. appointment at a center partner (main or secondary) should not exceed two weeks (this documentation is part of the 'file of evidence' the auditors will require for the onsite audit) 3.2.3 Informed consent is to be documented in **Patient information** patient's file 3.3 **Performance Data**

ENETSCOE	Requirements Catalogue Version 10.0 2022-07-	03
3.3.1 Number of NET patients		
3.3.1.1 .	No. of <u>new GEP NET</u> patients seen by NET specialists of the center in the last calendar year	Mandatory – annual return data
	[Clarification: "patients" are individuals , not patient contacts. One patient with several appointments in the center is	For onsite audit preparation: please fill in chapter 14. Key figures: 15.1.1.
3.3.1.2	counted once/ year as "patient"] No. /percentage of these new [GEP] NET patients treated in the center	For onsite audit preparation: please fill in chapter 14. Key figures: 15.1.2
		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 <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, patients seeking for SECOND OPINION as well as patients in Follow-Up]	Mandatory – annual return data For onsite audit preparation please fill in chapter 14. Key figures: 15.1.3.
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	Mandatory – annual return data For onsite audit preparation: please fill in chapter 14. Key figures: 15.1.4.
	[Clarification: "patients" are individuals, not patient contacts. One patient with several appointments in the center is counted once/ year as "patient"]	
3.3.1.5	No. /percentage of these new [PULM] NET patients treated in the center	For onsite audit preparation: please fill in chapter 14. Key figures: 15.1.5
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]	Mandatory – annual return data For onsite audit preparation please fill in chapter 14. Key figures: 15.1.6.
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)
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		
4.1.Resources		
4.1.1 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.	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).

ENEISCOE	Requirements Catalogue Version 10.0 2022-07-	03
		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, extensis became and editoral experience and editoral experience.	
4.1.3 Keeping the qualification	ectopic hormonal syndromes, and adrenal diseases) is expected. 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 Process	es	
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	

ENETSCOE Requirements Catalogue Version 10.0 2022-07-03 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 An expert with special skills in Endoscopyendoscopies (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 CME-defined by national societies for Guidance: please describe here how Keeping the qualification physicians and nursing staff should be further training of staff referring to NET verified annually. is organised and keep proofs and certificates ready for on-site audit. 5.1.5 Please provide the no. of specialist For onsite audit preparation please fill in endoscopists that perform the various chapter 14. Key figures: 14.5.1. Specialist endoscopists endoscopies 5.1.6 Equipment is expected for: Equipment Specific EUS Gastric EMR Rectal EMR Small bowel studies Please provide a description of your equipment. 5.2. Quality-related Processes 5.2.1 The center needs to display its standards Guidance: please list and provide Description of procedures of applied diagnostics and therapeutics. descriptions of your main procedures or The descriptions should refer to ENETS GL applied standardised reporting on NET) and ENETS SOC (as far as currently published) and include responsibilities and resources 5.2.2. Informed consent is documented in Patient information patient's file. (Appropriate to individual countries.) 5.2.3 The partner should confirm that the Patient safety national requirements in reference to patient safety are adhered to. 5.2.4 Data/results pertaining to Tumor documentation 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	Guidance: please list and provide descriptions of your main procedures
6.2.2.	responsibilities and resources. Informed consent is documented in	
Patient information 6.2.3 Patient safety	patient's file. 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	Mandatory – annual return data Please fill in chapter 15 Key figures: 15.6.1.
	 Streptozocin/5-FU Temozolomide/Capecitabine Carbo- or Cisplatin/Etoposide Other combinations 	

	Requirements Catalogue Version 10.0 2022-07-	US
6.3.2	Number of serious adverse events after	Mandatory – annual return data:
Systemic and targeted therapy - morbidity	targeted therapy in NET patients	x out of y: serious adverse events
	Number of serious adverse events after systemic therapy in NET patients	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.	FOR CLARIFICATION: Please report only "major AEs" e.g., sepsis after chemotherapy leading to new hospitalization, extended hospitalization, emergency room access
6.3.3 Systemic and targeted therapymortality	Number of deaths after targeted therapy in NET patients Number of deaths after systemic therapy in NET patients	Mandatory – annual return data x out of y: deaths 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 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.
7.1.4 Expertise in PULM NET	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

	Requirements Catalogue Version 10.0 2022-07-	
		stated and an <u>educational plan</u> should be provided by the specialist in conjunction with the NET leader in your center.
7.1.5 Keeping the qualification	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.
7.1.6 External quality control	Participation in inter-laboratory comparisons	Guidance: Please provide evidence of participation in inter-laboratory comparisons as they are nationally applicable (e.g. KI67)
7.2. Quality-related Proces	sses	
7.2.1 Description of procedures used	The center needs to display its standards of applied diagnostics and therapeutics. The descriptions should refer to ENETS GL and ENETS SOC (as far as currently	Guidance: please list and provide descriptions of your main procedures
	published) and include responsibilities and resources.	
7.2.2 Complete pathology reports	The no. of complete pathology reports should be 100%	
7.2.3 Time target for pathology reports	A complete pathology report consists of: 1. Site 2. Tumor type according to WHO and ENETS - TNM classification 3. Tumor size 4. Tumor invasion (depth) 5. Assessment of neural-, (lymph), angio-invasion 6. No. and status of lymph nodes 7. R-Status 8. Ki-67, Ki-67 labeling index, mitosis rate 9. Grading 10. Neuroendocrinological marker: chromogranin A, Synaptophysin The following are optional: 11. Other markers (hormones: serotonin, gastrin, glucagon, pancreatic polypeptide) 12. Optional: somatostatin receptors The pathology report of biopsies (not surgical specimen) 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 7.3.2 No. of pathology reports - biopsies	No. of pathologists who are experts in GEP NET No. of pathology reports: NET biopsies GEP NET	Please fill in chapter 15 Key figures: 15.7.1. 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	Please fill in chapter 15 Key figures: 15.7.3.
7.3.4 No. of immunohistological examinations		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)	Please fill in chapter 15. Key figures: 15.7.5.

	No. of pathologists, who are experts on	Please fill in chapter 15 Key figures:
7.3.6 No. of pathologists	PULM NET	15.7.6.
7.3.7	No. of pathology reports on PULM NET	Please fill in chapter 15 Key figures:
No. of pathology reports -	biopsies	15.7.7.
biopsies		
7.3.8	No. of pathology reports :	Please fill in chapter 15 Key figures:
No. of pathology reports -	surgical specimen PULM NET	15.7.8.
surgical specimen		
7.3.9		Please fill in chapter 15 Key figures:
No. of immunohistological		15.7.9.
examinations		
7.3.10	Percentage of complete pathology reports	Please fill in chapter 15 Key figures:
Percentage of complete	(surgery and biopsy)	15.7.10.
pathology reports		

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. 1. Magnetic Resonance Imaging of liver, pancreas and small bowel 2. MR Cholangio pancreatography (MRCP). 3. Computed tomography (CT): 4. CT software for image reconstruction. Technical specifications according to ENETS Standard of Care.	Guidance: please list and describe your equipment

ENETSCOE	Requirements Catalogue Version 10.0 2022-07-	03
	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	ses	
8.2.1	The center needs to display its standards	Guidance: please list and provide
Description of procedures used	of applied diagnostics and therapeutics.	descriptions of your main procedures
	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	
8.2.2	spheres, PTC. Informed consent is documented in	
Patient information	patient's file.	
8.2.3	The partner center should confirm that	
Patient safety	the national requirements in reference to	
	patient safety should be adhered to.	
8.2.4	The appointments (diagnostics and	
Time target for access	therapy) should be made possible within	
	two weeks.	
8.3. Performance data		
8.3.1	No of interventions	Please fill in chapter 15 Key figures:
		14.5.ff.
8.3.2	Total No. of TA(C)E	Mandatory annual return data
	No of TA(C)E in NET	
	No of ablation in NET (RFA , CRYO etc)	
8.3.3	Total No. of SIRT/intra-arterial PRRT with	Mandatory annual return data
0.3.3	(radio)pharmaceuticals	Wallactory almaarretain acta
	(· · · // · · · · · · · · · · · · · · ·	
	No of SIRT/ intra-arterial PRRT with	
	(radio)pharmaceuticals in NET	
8.3.4 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
	Centers can set the time frame due to local and national circumstances and obligations.	EOD CLADIEICATIONS Places report and
	 In-house morbidity /mortality 	FOR CLARIFICATION: Please report only "major AEs" e.g., sepsis after chemotherapy
	30 day morbidity /mortality	leading to new hospitalization, extended
	90 day morbidity /mortality	hospitalization, emergency room access
	Centers can collect full data or	
	a random sample	For onsite audit preparation please fill in
	It is clear that the comparability will be limited,	chapter 15. Key figures: 15.8.4 Due to the
	but please emphasise: that this data is	omission of the previous items 8.3.4 - 8.3.6 as of requirements catalogue version 9.1, this item
	important for the internal discussion within the	receives a new number in requirements catalogue
	centers and during the external audit.	version 10.0
8.3.5. 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: 15.8.5. Pureto
		in chapter 14. Key figures: 15.8.5 Due to the omission of the previous items 8.3.4 - 8.3.6, as
		of requirements catalogue version 9.1, this item
		receives a new number in requirements catalogue
		version 10.0

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 Peptide Other		
9.2. Quality-related Proce	sses		
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 in SSTR- PET	Please provide information on total No. of SSTR PET in NET (mandatory)	Mandatory – annual return data	

ENETSCOE	Requirements Catalogue Version 10.0 2022-07-	
		Please fill in chapter 15. Key figures: 15.9.1. Due to the omission of the previous items 9.3.1, as of requirements catalogue version 9.1, this item receives a new number in requirements catalogue version 10.0
9.3.2 No. of nuclear medicine examinations – FDG PET in NET	Please provide information on total No. of FDG PET in NET (currently voluntary)	Please fill in chapter 15. Key figures: 15.9.2. Due to the omission of the previous items 9.3.1, as of requirements catalogue version 9.1, this item receives a new number in requirements catalogue version 10.0 As it is likely that that each CoE will have to organise a method to monitor FDG-PETs performed for NET in the near future, CoE should try to collect these numbers.
9.3.3 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	Please fill in chapter 15. Key figures: 15.9.3. Due to the omission of the previous items 9.3.1, this item receives a new number Clarification: number of therapeutic interventions is to be interpreted as "number of administrations"
9.3.4 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	Please fill in chapter 15. Key figures: 15.9.4. Due to the omission of the previous items 9.3.1, this item receives a new number
9.3.5 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 and national circumstances and obligations. In-house morbidity /mortality 30 day morbidity /mortality Ocenters 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.	Mandatory – annual return data: x out of y: serious adverse events Please fill in chapter 15. Key figures: 15.9.5. Due to the omission of the previous items 9.3.1, this item receives a new number CLARIFICATION: please report major AE of special interest (e.g. bone marrow damage or renal insufficiency after PRRT leading to new hospitalization, extended hospitalization, emergency room access)
9.6.6 Interventions - mortality	Number of deaths after PRRT Number of deaths after MIBG	Mandatory – annual return data: x out of y: deaths Please fill in chapter 15. Key figures: 15.9.6 Due to the omission of the previous items 9.3.1, this item receives a new number

10. Surgery		
10.1. Resources		
10.1.1	In a center/network, one surgeon with	
HR Resources	special qualifications must be	

ENETSCOE Requirements Catalogue Version 10.0 2022-07-03 permanently available. A back-up has to be defined in order to guarantee a high quality of care. The NET main partner expert should 10.1.2 An endocrine surgeon and a HPB surgeon Special qualifications HBP (or surgeon with comparable expertise provide proof of expertise within the Surgery according to national standards) is NET domain (e.g., duration of time expected. (Liaison possible.) 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 10.1.3 NET main partner expert should provide For the extended Scope: A thoracic Special qualifications Thoracic surgeon (or surgeon with comparable proof of expertise within the NET Surgery expertise according to national standards) domain (e.g., duration of time devoted is expected. (Liaison possible.) 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 Processes 10.2.1. Every NET patient should be presented at Tumor board presentation the tumor board after surgery. 10.2.2. Patient information according to standard **Patient Information** practice. The minimum: Documentation in patient file, tumor board protocol. 10.2.3. The partner should confirm that the national requirements in reference to Patient safety patient safety are adhered to. 10.3. Performance Data Surgery The items 10.3.1ff – have been rephrased in 2022. Focus is now on surgical interventions in NET VOLUNTARY: Please provide information about: 10.3.1 Please fill in chapter 15. . Key figures: 15.10.1 No. of hepato-biliary surgery This requirement has been reconsidered. The Partial hepatectomy focus of reporting is now on NET interventions. It (HB-surgeries in NET and non-NET Radiofrequency assisted resection patients) is recommended to provide these data on Other (optional) performance volume voluntarily 10.3.2. No. of Hepato-biliary Please provide information about NET: Please fill in Key figures: 15.10.2 surgery in **NET** Partial hepatectomy Mandatory annual return data Mandatory annual return data Radiofrequency assisted resection Other(optional) This requirement has been reconsidered. The focus regarding performance volume is now on NET interventions. Please fill in chapter 15. . Key figures: 15.10.3 10.3.3 Please provide information about: This requirement has been reconsidered. The No. of pancreatic surgery Pancreaticoduodenectomy focus of reporting is now on NET interventions. It (in NET and non-NET patients) Distal resection

ENETSCOE	Requirements Catalogue Version 10.0 2022-07-0	
	Enucleation	is recommended to provide these data on
	Other (optional)	performance volume voluntarily
40.2.4		Diagram fill in alcounts of E. Wassissanson
10.3.4	Please provide information about [GEP]	Please fill in chapter 15 Key figures:
No. of pancreatic surgery in NET	NET	15.10.4
	 Pancreaticoduodenectomy 	
	Distal resection	Mandatory annual return data
	Enucleation	Mandatory annual return data
		Mandatory annual return data
	other (optional)	
10.3.5	VOLUNTARY: Please provide information	For onsite audit preparation, please fill in chapter
No. of bowel surgery in general	about:	14. Key figures: 14.10.5
(in NET and benign and	■ Stomach	
malignant non NET patients)	■ Ileum	It is recommended to provide these data on
manghant non NET patients)		performance volume voluntarily
	■ Colon	This requirement has been reconsidered. The
	Rectum	focus of reporting regarding performance volume
	 Peritoneal resections 	is now on NET interventions.
	other (optional)	
10.3.6 No of GI NET Surgery	Please provide information about	Mandatory – annual return data
	resections in NET	Please fill in chapter 15. Key figures:
	Stomach	15.10.6
	■ Ileum	
	■ Colon	
	■ Rectum	
	Peritoneal resections	
	other (optional)	
10 2 7	Diagon provide information about	Nandatani, annial rational data
10.3.7	Please provide information about	Mandatory – annual return data
Morbidity and mortality after	morbidity and mortality on index	x out of y
hepato-biliary surgery	procedure "partial hepatectomy" in NET	■ Grade 3
	using the Clavien Dindo Classification	■ Grade 4
Index procedure "partial	1. Grade 3 (n)	■ Grade 5
hepatectomy" in NET u	2. Grade 4 (n)	
	3. Grade 5 (n)	
Clavien Dindo Classification		Please fill in chapter 15. Key figures:
	Clavien Dindo Classification	15.10.7
	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	
	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.	
10.3.8 Morbidity and mortality	Please provide information about	Mandatory – annual return data
after pancreatic surgery	morbidity using the Bassi Classification	x out of y
	for pancreatic fistula	■ Grade A
Bassi Classification	1. Grade A (n)	■ Grade B
	2. Grade B (n)	- Grade C
	3.—Grade C (n)	- death
	` ,	
	Bassi C, Dervenis C, Butturini G et al.	
	(2005)postoperative pancreatic fistula: an	
	(=====================================	

ENETSCOE	international study group (ISGPF)	Please fill in chapter 15 Key figures:
	definition Surgery 2005; 138: 8-13	15.10.8 Bassi has been relaced by Clavien Dindo
	Please enumerate deaths after pancreatic	bassi ilas beeli felaceu by clavieri bilido
	surgery	
	Death (n)	
10.3.8 Morbidity and	NEW: Please provide information about	Mandatory – annual return data
mortality after pancreatic	morbidity and mortality on index	x out of y
surgery	procedure pancreaticoduodenectomy using the Clavien Dindo Classification	Grade 3 Grade 4
"index procedure " –	Grade 3 (n)	Grade 5
Pancreaticoduodenectomy	Grade 4 (n)	
	Grade 5 (n)	Please fill in chapter 15 Key figures:
		15.10.8
	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.	
10.3.9 Morbidity and	NEW: Please provide information about	Diagon fill in about a 45 - Kou figures
mortality after other GI surgery	morbidity and mortality on the index procedure SI NET surgery using the	Please fill in chapter 15 Key figures: 15.10.9
"index procedure SI NET	Clavien Dindo Classification	13.10.3
surgery "	Grade 3 (n)	Mandatory annual return data
	• Grade 4 (n)	Mandatory annual return data
	Grade 5 (n)	Mandatory annual return data
If the center applies for certification	on of the extended scope -	
10.3.10 No. of thoracic	VOLUNTARY: Please provide information	For centers with extended scope
surgery in NET and non-NET patients	about numbers of: Anatomical lung resections	Mandatory annual return data
patients	Atypical lung resections	Please fill in chapter 15 Key figures:
	 Minimal invasive (video assisted) 	15.10.9
	lung resections (VATS)	This requirement has been reconsidered. The focus of reporting on performance volume is now
		on NET interventions. It is recommended to
		provide these data on performance volume voluntarily
10.3.11 No. of thoracic	Please provide information about	For centers with extended scope
surgery in NET patients	numbers of thoracic surgeries in [PULM]	Mandatory annual return data
	NET patients Anatomical lung resections	Please fill in chapter 15. Key figures: 15.10.10
	Atypical lung resections	15.10.10
	 Minimal invasive (video assisted) 	
10.2.11 Marhiditus and	lung resections (VATS)	Mandatory appual return data
10.3.11 Morbidity and mortality after thoracic	Please provide information about morbidity and mortality on the index	Mandatory – annual return data x out of y
surgery in NET patients	procedure "anatomical lung resection" in	■ Grade 3
	[PULM] NET patients	■ Grade 4
indicator procedure:	using the Clavien Dindo Classification	■ Grade 5
indicator procedure: "Anatomical lung resections	1. Grade 3 (n) 2. Grade 4 (n)	Please fill in chapter 15. Key figures:
Time training resections	3. Grade 5 (n)	15.10.11
	It is clear that the comparability will be	
	limited, but please emphasise: that this	
	data is important for the internal	

11. Pulmonology – Expertise in Endoscopy			
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.		

	Requirements catalogue version 10:0 2022 07	03	
11.2.4	Data/results pertaining to pulmonology		
Tumor documentation	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 tun	nors should have ambitious research efforts in	n this field.	
12.1. Clinical Trials			
12.1.1 Resources	Study nurse (mandatory)		
	Study representative (mandatory)		
	Study sponsor (mandatory)		
	CRC locally (CRC = cancer research	Guidance: please describe your	
	commission) (optional)	NET research group and how it 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 scientification	c activities - to be discussed for extended sco	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	DI 511 1 1 45 14 5	
	calendar year (treatment and F/U)	Please fill in chapter 15 Key figures:	
	Trials that "count" here:	15.12.1.2	
	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 or national setting or as a		
	local initiative of the center.		
	Ideally 10% of current patients should be		
	included/treated in trials following this		
	definition.		
12.1.4.3 Patients newly enrolled	Number of newly enrolled [GEP] and	Mandatory – annual return data	
into clinical trials	[PULM] NET patients in prospective trials	Please fill in chapter 15. Key figures:	
The chilical trials	during the last calendar year	15.12.1.3.	
	daming the last calculate year	15.12.13.5	

12.2. Publications	Requirements catalogue version 10.0 2022 07	
12.2.1 Performance data	Annual research report is to be provided (mandatory)	Centers are to provide an updated publication list ([GEP] NET focus) together with annual return data
12.2.2 No. of original articles	Number of peer reviewed publications (originals focusing on NET within last calendar year)	Mandatory – annual return data Please fill in chapter 15 Key figures: 15.12.2.1.
12.2.3 No. of other peer-reviewed publications in NET	Number of review articles, case studies, letters or other peer reviewed works focusing on [GEP]-NET within the last calendar year	Mandatory – annual return data Please fill in chapter 15 Key figures: 15.12.2.2
12.3. Research Projects		
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.
12.3.2 Retrospective analysis	No. of retrospective analysis (therapy/diagnostics) within the last 5 years	Please fill in chapter 15. Key figures: 15.12.3.2.
12.3.3 Current basic NET research	No. of active/current basic NET research within the last 5 years	For onsite audit preparation please fill in chapter 15. Key figures: 15.12.3.3.
12.3.4 Current research students	No. of active /current specific research students, please differentiate into PhD Lower grade	For onsite audit preparation please fill in chapter 15. Key figures: 15.12.3.4.
12.3.5 International exchange of experience	Participation at ENETS conferences is required: at least one member of tumor board (mandatory)	For onsite audit preparation please fill in chapter 15. Key figures: 15.12.3.5.
12.3.6 Clinical trials announcement	Clinical trials should be published on the ENETS website	
12.4. National / Internat	ional NET Activity	
12.4.1 National/international NET networking	Centers should be involved in national/international networking activities in NET	Please describe your activities

13.Patient Involvement		
Rationale:		
	patient orientation. Patients require informat . Patient satisfaction should be determined at	, ,
13.1.Patient Information		
13.1.1.	Documentation of Informed Consent	
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	Introduction of the center (mandatory)	
Internet and / or flyer	Information about Psychosocial services	
	(mandatory)	
	Treatment options for NETS (optional,	
	dependent on national law)	

ENETSCOE Requirements Catalogue Version 10.0 2022-07-03 13.1.3 Support of patient information conferences (optional) Patient conferences 13.2. Patient Questionnaire / feedback 13 2 1 A patient questionnaire should be handed Patient questionnaire out. (Mandatory) 13.2.2 Percentage of questionnaire feedback Mandatory – annual return data Performance data For onsite audit preparation, please fill in chapter 14. Key figures: 14.12.2.1. 13.2.3 Please describe how patients provide Guidance: e.g. Patient feedback feedback patient complaint system 14. Follow-up and Tumor Documentation 14.1. Resources 14.1.1. A data manager should be available Please name the data manager and **HR** Resources describe tasks. 14.1.2 Software (in the future) Technical equipment 14.2. Quality-related Processes 14.2.1 The center will determine the mode that governs the feedback about results of the Description of procedures used follow-up including responsibilities and resources. 14.2.2 Centers must have a local database and Please describe- how is your patient Registry have to show how this works during the registry organised? 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) 14.2.3 ENETS registry In case of availability of a national NET Please describe how you participate in a registry, centers should contribute to the national or supranational NET registry. national registry. (if applicable) CoE in countries without a national NET registry are encouraged to directly contribute to the ENETS registry 14.3.4 Patient files 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 Centers applying for re-certification fill in /or provide data from the last calendar year Centers applying for initial certification fill in data of the calendar year before application 14.3.1 [GEP] NET patients in follow-up Mandatory - annual return data GEP NET patients in follow-up (n) and (%) For onsite audit preparation, please fill Target: >70% in chapter 15. Key figures: 15.13.1. Guidance: please fill in chapter 15. Key 14.3.2 Percentage of GEP NET patients figures: 15.13.2. lost to follow up 14.3.3 [GEP] NET patients in follow-up Mandatory - annual return data PULM NET patients in follow-up (n) and (%)

Target: >70%

For onsite audit preparation, please fill

in chapter 15 Key figures: 15.14.3

14.3.4	Guidance: please fill in chapter 14. Key	
PULM NET percentage of	figures: 15.14.4	
patients lost to follow-up		

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)

Please note: This document can be filled in for internal audit and documentation purposes – the data must be provided digitally via the center account in MY ENETS. Each application /Re-application as well as annual return data submission will be provided to the CoE as a pdf report.

15.1 NET Patients		
15.1.1. New GEP NET patients Referring item 3.3.1.1	No. of new ([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 [GEP] NET Center can additionally mention: no. of NEW PULM NET to underline their	Mandatory – annual return data Optional for centers applying for certification as GEP NET CoE
15.1.2 Percentage GEP NET patients treated in center Referring item 3.3.1.2	NET expertise 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	For contars applying for the extended scape	For contars with extended scane
New PULM NET patients Referring item 3.3.1.4	For centers applying for the extended scope No. of <u>new PULM NET</u> 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	For centers with extended scope Mandatory – annual return data

15.1.7 Referring item 3.3.2 15.1.8. Referring item 3.3.3. 15.1.9 Referring item 3.3.4 15. 2 NET Tumor Board	Requirements Catalogue Version 10.0 2022-07-03 ["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] Percentage of patients with waiting times concerning the consultation appointment less than 2-4 weeks. (sample possible) Percentage of patients with concluded staging within 4-6 weeks Percentage of appointments at center partners within 2 weeks (sample possible) / Multidisciplinary Decision Making Te	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) (documentation is part of the 'file of evidence' the auditors will require for the onsite audit) (documentation is part of the 'file of evidence' the auditors will require for the onsite audit)	
15.2.1. [GEP] NET patients	No. of <u>all</u> [GEP] NET patients (individuals) discussed in tumor board.	Mandatory – annual return data	
Referring item 2.1.4.1	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 15.2.3 Second. opinions Referring item 2.1.4.3	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. 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.	Mandatory – annual return data	
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) No. of tumor board discussions in [PULM] NET patients (each presentation/discussion	Mandatory – annual return data For onsite audit preparation please fill in chapter 3. Key figures: 3.2.1. Mandatory – annual return data	

LIVE I SCOL	counts here – reflecting the workload of the	
	center)	
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.
15.2.6 Second opinion on PULM NET	No. of tumor board discussions in [PULM] NET patients (each presentation/discussion counts here – reflecting the workload of the center) No. of second opinions (PULM NET, individuals) discussed in tumor board	Mandatory – annual return data
Referring item 2.1.4.6		
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 concerning the consultation	A random sample of. e.g. 4 to 6 weeks
Waiting times	appointment (days)	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 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 NET patients	Mandatory – annual return data: x out of y: serious adverse events

	Requirements Catalogue version 10.0 2022-07-03	
	Number of serious adverse events after systemic therapy NET patients	FOR CLARIFICATION: Please report only "major AEs" e.g., sepsis after chemotherapy leading to new hospitalization, extended hospitalization, emergency room access
	Number of serious adverse events after interferon therapy NET patients	
15.6.3 Systemic and targeted therapy mortality Referring item 6.3.3.	Number of deaths after targeted therapy in NET patients	Mandatory – annual return data x out of y: deaths
	Number of deaths after systemic therapy in NET patients	FOR CLARIFICATION: Please report only "major AEs" e.g., sepsis after chemotherapy leading to new hospitalization, extended hospitalization,
	Number of deaths after interferon therapy in NET patients	emergency room access
15.7. Pathology		
15.7.1	No. of pathologists who are experts in [GEP]	NET expertise in Pathology: the NET
Pathologists	NET	expert holds a certificate of NET
Referring item 7.3.1		expertise from national institutions or from ENETS
15.7.2. Biopsies Referring item 7.3.2	No. of pathology reports on bioptic 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	No. of immuno-histochemical examinations	This information is required prior to
Referring item 7.3.4 15.7.5 Complete reports	in [GEP] NET	certification audits
Referring item 7.3.5	percentage of complete pathology reports on [GEP] NET (surgery and biopsy)	This information is required prior to certification audits
15.7.6 Pathologists	No. of pathologists who are experts in	This information is required prior to
Referring item 7.3.6	PULM NET	certification audits
15.7.7 Biopsies	No. of pathology reports on bioptic	This information is required prior to
Referring item 7.3.7	specimen in [PULM] NET	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	Percentage of complete pathology reports	This information is required prior to
Referring item 7.3.10	on [PULM] NET (surgery and biopsy)	certification audits
15.8 Radiology		
15.8.1 No. of interventions		
15.8.2 TA(C)E	Total No. of TA(C)E	
Referring item 8.3.2	N. (TA/O)5: 2:57	
	No of TA(C)E in NET NEW: No of ablation in NET (RFA , CRYO	Mandatory annual return data Mandatory annual return data
	etc)	ivianuatory amiual return udta
15.8.3 SIRT/ intra-arterial PRRT	No of SIRT in NET/ intra-arterial PRRT with	Mandatory annual return data
with (radio) pharmaceuticals	(radio)pharmaceuticals	
Referring item 8.3.3		
15.8.4 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 8.3.4	Morbidity and mortality have to be collected for the	FOR CLARIFICATION: Please report only
	Procedures (TA[C]E and SIRT) in general,	"major AEs" e.g., sepsis after
	not only related to these procedures used	chemotherapy leading to new
	in [GEP] NET patients (this is different to	hospitalization, extended hospitalization, emergency room access
	oncology) Centers can set the time frame	Cincipency room access
	1	<u>.</u>

ENETSCOE	Requirements Catalogue Version 10.0 2022-07-03	3
	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	
15.8.5 Mortality in (combined)	Number of deaths after (combined)	Mandatory – annual return data:
interventional radiology Referring item 8.3.5	interventional radiology	x out of y: deaths
15.9 Nuclear Medicine		
15.9.1. SSTR PET in NET Referring item 9.3.1.	Total No. of SSTR PET in NET	Mandatory annual return data
15.9.2 FDG PET in NET Referring item 9.3.2.	No. of FDG PET in NET	Currently voluntary annual return data
15.9.3 Therapeutic interventions in own center Referring item 9.3.3. Number of therapeutic interventions is to be	No. of therapeutic interventions (administrations) in own center PRRT MIBG	Mandatory annual return data Mandatory annual return data
interpreted as "number of administrations"	 PRRT in combination with other treatments 	Mandatory annual return data
15.9.4. Therapeutic interventions in partner (referral) center Referring item 9.3.4. Number of therapeutic interventions should be interpreted as "number of administrations"	No. of therapeutic interventions in partner center (referrals to this partner center) PRRT MIBG PRRT in combination with other treatments	Mandatory annual return data Mandatory annual return data Mandatory annual return data
15.9.5 Therapeutic interventions –morbidity referring item 9.3.5 Number of therapeutic interventions should be interpreted as "number of administrations"	Number of serious adverse events after PRRT MIBG PRRT in combination with other treatments 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 CLARIFICATION: please report major AE of special interest (e.g. bone marrow damage or renal insufficiency after PRRT leading to new hospitalization, extended hospitalization, emergency room access)
15.9.6 Therapeutic interventions –mortality referring item 9.3.6 Number of therapeutic interventions is to be interpreted as "number of administrations"	Number of deaths after PRRT MIBG PRRT in combination with other treatments	Mandatory annual return data Mandatory annual return data Mandatory annual return data
15.10 Surgery		
15.10.1 No. of hepato-biliary surgery in NET non-NET patients Referring item 10.3.1.	Voluntary: Please provide information about numbers Partial hepatectomies Radiofrequency assisted resection Other	This requirement has been reconsidered. The focus of reporting is now on NET interventions. However, it is recommended to provide these data on performance volume voluntarily.
15.10.2 No. of hepato-biliary surgery in NET Referring item 10.3.1	Please give information about NET Partial hepatectomies Radiofrequency assisted resection Other	Mandatory annual return data Mandatory annual return data.

E	JET	'SC	OE	Requirements Catalogue Version 10.0	2022-07-03
---	-----	-----	----	-------------------------------------	------------

	Requirements Catalogue Version 10.0 2022-07-03	This requirement has been reconsidered and rephrased. The focus is now on performance volume in NET interventions
15.10.3 No. of pancreatic surgery in NET and non-NET patients Referring item 10.3.3.	Voluntary: Please provide information about numbers Pancreaticoduodenectomy Distal resection Enucleation other	This requirement has been reconsidered. The focus of reporting is now on NET interventions. However, it is recommended to provide these data on performance volume voluntarily.
15.10.4 No. of pancreatic surgery in NET patients Referring item 10.3.2.	Please provide information about pancreatic surgery in NET Pancreaticoduodenectomy Distal resection Enucleation Other	Mandatory annual return data Mandatory annual return data. This requirement has been reconsidered and rephrased. The focus is now on performance volume in NET interventions
15.10.5 No. of bowel surgery in general (in NET and benign and malignant non-NET patients) Referring item: 10.3.5	Please provide information about:	This requirement has been reconsidered. The focus of reporting is now on NET interventions. However, it is recommended to provide these data on performance volume voluntarily.
10.3.6 No of bowel surgery in NET patients Referring item: 10.3.6	Please provide information about resections in NET Stomach Ileum Colon Rectum Peritoneal resections other (optional)	Mandatory annual return data This requirement has been reconsidered and rephrased. The focus is now on performance volume in NET interventions
15.10.7 Morbidity and mortality after hepato-biliary surgery (in NET patients) Index procedure: partial hepatectomy in NET Referring item 10.3.7	Please provide information about the morbidity rate for the index procedure "partial hepatectomies in NET" using the Clavien Dindo Classification 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	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
15.10.8	 30 day morbidity /mortality 90 day morbidity /mortality Centers can collect full data or a random sample NEW: Please provide information about 	Mandatory annual return data
Morbidity and mortality after pancreatic surgery (in NET patients) Index procedure:	morbidity and mortality on the index procedure pancreaticoduodenectomy in NET) using the Clavien Dindo Classification Grade 3 (n) Grade 4 (n)	Explanation : Bassi classification has been replaced by Clavien Dindo which is widely used
pancreaticoduodenectomy in NET	Grade 4 (II) Grade 5 (n) Centers can set the time frame due to local and national circumstances and obligations. In-house morbidity /mortality	
Referring item 10.3.8	 In-house morbidity / mortality 30 day morbidity / mortality 90 day morbidity / mortality Centers can collect full data or a random sample 	

ENETSC oE	Requirements Catalogue Version 10.0 2022-07-03	3	
15.10.6 Morbidity and	NEW: Please provide information about	Mandatory annual return data	
mortality after bowel surgery	morbidity and mortality in SI NET Surgery		
in NET	using the Clavien Dindo Classification	This requirement on reporting	
	• Grade 3 (n)	morbidity and mortality data have	
Index procedure:	• Grade 4 (n)	been reduced. The focus is now on	
SI NET SURGERY	• Grade 5 (n)	one index procedure .	
15.10.10	VOLUNTARY: Please provide information	For centers with extended scope	
No. of thoracic surgery in NET	about numbers	Mandatory annual return data	
and non-NET patients	 Anatomical lung resections 	This requirement has been reconsidered.	
Referring item 10.3.10	Atypical lung resections	The focus of reporting is now on NET interventions. However, it is recommended	
	 Minimal invasive (video assisted) lung resections (VATS) 	to provide these data on performance	
	resections (VATS)	volume voluntarily.	
15.10.11	Please provide information about numbers	For centers with extended scope	
No. of thoracic surgery in NET	in [PULM] NET patients	Mandatory annual return data	
patients	Anatomical lung resections	Mandatory annual return data	
Referring item 10.3.11	Atypical lung resectionsMinimal invasive (video assisted) lung	Mandatory annual return data	
	resections (VATS)	Explanation:	
	resections (VATS)	This requirement has been reconsidered	
		and rephrased. The focus is now on	
		performance volume in NET interventions	
45.40.0			
15.10.8	Please provide information about		
Morbidity and mortality after thoracic surgery in NET	morbidity and mortality on the index procedure anatomical lung resection in		
patients	NET using the Clavien Dindo Classification	Mandatory annual return data	
patients	Grade 3 (n)	Mandatory annual return data	
index invention:	Grade 4 (n)	Mandatory annual return data	
"Anatomical lung	Grade 5 (n)	,	
resections"	Centers can set the time frame due to local and		
	national circumstances and obligations.	This requirement on reporting	
Referring item 10.3.8	In-house morbidity /mortality30 day morbidity /mortality	morbidity and mortality data have	
	90 day morbidity /mortality	been reduced. The focus is now on	
	Centers can collect full data or a random	one index procedure .	
	sample		
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			
		NET C	
15.12.1 Clinical trials	Clinical trials that "count" here: GI and pulmo		
	prospective research according to internation intention to be published, either internationa		
	center.	Tot Hational Secting of on local initiative of	uie
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)	The state of the s	
3	within the last calendar year		
15.12.1.2	percentage of patients included /treated in	Mandatory annual return data	
NET patients in clinical trials	trials ([GEP] NET and [PULM] NET) within		
Referring item 12.1.4.2.	the last calendar year (treatment and F/U)		
	Target: No. of patients in studies should be		
15 12 1 2	>10 %	Mandataniananalistiini	
15.12.1.3	No of newly enrolled [GEP] NET and [PULM] NET patients into prospective clinical trials	Mandatory annual return data	
NEW NET patients in clinical trials	during the last calendar year		
referring item 12.1.4.3	daring the last calcillar year		
referring item 12.1.4.5			

ENETSCOE	Requirements Catalogue Version 10.0 2022-07-03	3
15.12.2 Publications		
No. of original articles Referring item 12.2.2.	Number of peer reviewed publications (original articles focusing on NET within last calendar year)	Mandatory annual return data
No. of other peer reviewed publications Referring item 12.2.3	Number of review articles, case studies, letters or other peer–reviewed works focusing on [GEP] NET within the last calendar year	Mandatory annual return data
15.12.3 Research Projects		
15.12.3.1 International studies Referring item 12.3.1.	International studies should be supported (optional)	
15.12.3.1 Retrospective analysis Referring item 12.3.2.	No. of retrospective analysis (therapy/diagnostics) within the last 5 years	This information is required prior to certification audits
15.12.3.3 Current basic NET research Referring item 12.3.3.	No. of active /current basic NET research within the last 5 years	This information is required prior to certification audits
	ENETS CoE provide an annual update of 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 exchange of experience Referring item 11.3.5.	Participation at ENETS conferences is required: at least one member of tumor board (mandatory)	This information is required prior to certification audits
15. 13 Patient Questionnai	re	
15.13.1 Percentage of questionnaire feedback Referring item 13.2.2	Percentage of questionnaire feedback Target >50%	Mandatory annual return data
15.14. F / U data		
15.14.1 GEP NET Patients in follow up Referring item 14.3.1.	[GEP] NET patients in follow up Target: >70% (n) and (%)	Mandatory annual return data
15.1.4.2. Percentage of GEP NET patients lost to follow up Referring item 14.3.2.	percentage of [GEP] NET patients lost to follow up Target: <30%	
15.14.3 PULM NET Patients in follow up Referring item 14.3.3.	[PULM] NET patients in follow up Target: >70% (n) and (%)	Mandatory annual return data for centers applying for the extended scope on pulmonary NET
15.1.4.2. Percentage of PULM NET patients lost to follow up Referring item 14.3.4.	percentage of [PULM] NET patients lost to follow up Target: <30%	