in the Setting of athology	rcinoma of the Breast of Neoadjuvant Therapy logy Reporting Guide
Family/Last name	Date of birth DD – MM – YYYY
Given name(s)	
Patient identifiers Da	ate of request Accession/Laboratory number
	DD – MM – YYYY
Elements in black text are CORE. Elements in grey text are NON indicates multi-select values indicates single select values	SCOPE OF THIS DATASET
CLINICAL INFORMATION	OPERATIVE PROCEDURE - BREAST
Information not provided	O Not specified
Neoadjuvant treatment(s) (select all that apply)	Excision (less than total mastectomy)
 Information not provided Hormonal therapy Chemotherapy Anti-HER2 targeted therapy 	 Therapeutic wide local excision Re-excision
Immune therapy Radiation therapy	 ○ Re-excision ○ Total mastectomy
Other, <i>specify</i>	Simple mastectomy
•	Nipple-sparing mastectomy
	Skin-sparing mastectomy
Pre-treatment tumour characteristics	Modified radical mastectomy
 Information not provided 	Radical mastectomy
Laterality	Additional specimens, specify
Site(s)	
Date of diagnosis	
Imaging size at diagnosis	OPERATIVE PROCEDURE - AXILLA (select all that apply)
Fiducial marker	Targeted non-sentinel lymph node biopsy (dissection)
placement	Other non-sentinel lymph node biopsy
Diagnosis	Axillary lymph node dissection
Hormone receptor and HER2 status	C Levels I and II
	C Levels I to III
	Axillary lymph node level III, excision
Other (e.g., tumour grade, tumour cellularity, tumour	Other regional lymph node(s) biopsy Internal mammary
infiltrating lymphocytes (TIL), Ki-67, multigene assays), <i>specify if available</i>	Infraclavicular (subclavicular)
Pre-treatment axillary lymph node biopsy/sampling	Other, specify
(select all that apply)	
O Not applicable O Not known	
Core biopsy Fine needle aspiration (FNA)	
Other, <i>specify</i> Sentinel node biopsy	SPECIMEN LATERALITY
	○ Left ○ Right ○ Not specified
Fiducial marker placed O Yes O No	
Result 🔿 Positive 🔿 Negative	SPECIMEN DIMENSIONS
Other clinical information, <i>specify</i>	mm x mm x mm
	SPECIMEN WEIGHT

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		Manula Ianua 6 multiula 6	=b
SPECIMEN DETAILS Depth of tissue excised		Morphology of multiple f	milar
•			ma
Skin to deep fascia () Specimen includes (selec	<u> </u>	Histological tumour	
		type	
Skin Nipple	Skeletal muscle	Histological tumour grade	
TUMOUR SITE (select all tha	t apply)		
○ Not specified		Receptor status	
Distance from nipple	mm		
AND		Cellularity	
Position, specify	oʻclock		,
OR		Size	mm
Upper outer quadrant			-b
Lower outer quadrant		Morphology of multiple f	
 Upper inner quadrant Lower inner quadrant 		◯ Distinct ◯ Si	milar
Nipple		Histological tumour type	
Other, specify		Histological tumour	
•		grade	
		Beconter status	
		Receptor status	
TUMOUR FOCALITY		Cellularity	
]
 Cannot be determined Single focus of invasiv 	o correinamo	Size	mm
~	e carcinoma on pre-treatment		
	ogic evaluation, <i>describe</i> ^a		
			NOMA
		 Present Absent^c 	
		Pre-treatment tumour site i	dentified
	e carcinoma within a single corresponding to a single focus on	 Uncertain Yes (select all that apply) 	
pre-treatment imaging		Palpable/visible area of	aross overnightion
Number of foci		Area of concern on spo	
Cannot be assess	ed	Calcifications associate	÷ ,
		treatment identified	
		Ductal carcinoma in si	
is at least		Surgical localisation m	r equivalent) identified
		equivalent) identified	larker (wire, seed of
Morphology of multi	ple foci [®]		ggestive of tumour bed
O Distinct	Similar	Targeted lumpectomy	
•		None of the above but sampled	likely areas thoroughly
Histological tumour type			ments the blocks sampled
Histological tumour		\bigcirc Cannot be assessed, <i>speci</i>	
grade		▼	,
Receptor status			
Cellularity		^c If there is no residual invasive carcin pertaining to residual invasive carcin	
Cellularity		Tumour cellularity/composition, Post-treatment histologic tumou	Histologic tumour type,
Size	mm	Margin status, Post-treatment es	strogen receptor,
		Post-treatment progesterone re Post-treatment ancillary studies	
^a See also NOTE 8. ^b Core element if multiple foci on	ly.	^d Core element if residual invasive ca	rcinoma absent.

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TUMOUR DIMENSIONS ^e	OR
No residual invasive carcinoma	Residual Cancer Cellularity (invasive only) ^h
Maximum dimension of largest contiguous invasive focus	% OR () <1%, specify ⁹ %
	0R ○ <1%, specify ⁹ %
	○ <u>-</u> ¹
() ≤1 mm	<u> </u>
>1 mm (specify exact measurement rounded to mm	O 20%
nearest mm)	○ 30%
Maximum 2 dimensions of the area containing residual	↓ 40%↓ 50%
invasive carcinoma, representing a single residual tumour	○ 50%○ 60%
bed and including any intervening fibrosis, fat, or breast parenchyma (<i>specify 2 exact measurements rounded to</i>	0 70%
nearest mm)	0 80%
	<u> </u>
mm x mm (RCB area dimensions)	Other, <i>specify</i> %
Maximum dimension of whole tumour field (invasive + DCIS)/total extent of disease mm	Comparison with pre-treatment cellularity if available,
	specify
Cannot be assessed, <i>specify</i>	
•	
	Percent TILs in % post-treatment
^e Based on a combination of macroscopic and microscopic assessment.	tumour stroma
	Cannot be assessed, specify
TUMOUR CELLULARITY/COMPOSITION	
\bigcirc No residual invasive carcinoma	
Estimate of Residual Cancer Cellularity using one of two	^h The pathologist estimates the average percent of invasive cancer within the area of residual invasive cancer. Zero is entered for the
methods below:	percentage of cancer that is in situ disease in the RCB calculator. See
Residual Cancer Cellularity (invasive and in situ) ^f	Note 12 for details about in situ disease.
$\bigcirc \ \ \ \ \ \ \ \ \ \ \ \ \ $	HISTOLOGICAL TUMOUR TYPE
5%	(Value list from the World Health Organization Classification
\bigcirc 10%	of Breast Tumours (2019))
<u> </u>	No residual invasive carcinoma
○ 30%	 Invasive breast carcinoma of no special type (invasive ductal carcinoma, not otherwise specified)ⁱ
O 40%	 Invasive lobular carcinoma
○ 50%	🔘 Tubular carcinoma
○ 60%	Cribriform carcinoma
○ 70%○ 80%	O Mucinous carcinoma
○ 30 %	Invasive micropapillary carcinoma
Other, <i>specify</i> %	Carcinoma with apocrine differentiation
AND	 Metaplastic carcinoma Mixed, specify subtypes presentⁱ
Percentage of residual	
carcinoma that is %	
carcinoma in situ (CIS)	
^f The pathologist estimates the average percent of cancer (invasive and	
in situ) within the area of residual invasive cancer, and then estimates	Other, <i>specify</i>
the percent that is in situ component.	
⁹ Note that very low cellularity can sometimes be estimated at very low values (e.g., 0.01%) and any decimal result is acceptable.	
	ⁱ Refer to Note for details of variants including medullary carcinoma.
	^j Tumour exhibiting more than one tumour type should be designated
	mixed and the types present stated.

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ST-TREATMENT HISTOLOGICAL TUMOUR GRADE	Necrosis Not identified Present
Grade 2 (scores of 6 or 7)	Central (Comedo) necrosis
Grade 3 (scores of 8 or 9)	\bigcirc Focal (Punctate) necrosis (<10% duct diameter)
L	Classification of LCIS (select all that apply)
Tubule score 1,2,3	(Applicable if LCIS is present in specimen)
	Classical LCIS
Nuclear pleomorphism 1,2,3	Pleomorphic LCIS
Mitotic count	Other, <i>specify</i>
per mm ²	
OR	
per 10 HPF (field diameter mm)	
Score 1,2,3	TUMOUR EXTENSION
SCOTE 1,2,5	Skin
	Skin is not present
Total score	 Skin is present and uninvolved
	\bigcirc Invasive carcinoma directly invades into the dermis or
Too small or insufficient tumour cellularity to grade Cannot be reliably determined due to post-treatment	epidermis without skin ulceration
changes	 Invasive carcinoma directly invades into the dermis or epidermis with skin ulceration (classified as ypT4b)
	Satellite skin foci of invasive carcinoma are present
NOMA IN SITU	(i.e., not contiguous with the invasive carcinoma in the breast) (classified as ypT4b)
Not identified	
) Present (select all that apply)	Nipple (including areola complex)
DCIS	Nipple tissue is not present
▼ ○ Negative for extensive intraductal component (EIC)	 DCIS does not involve the nipple epidermis DCIS involves nipple epidermis (Paget disease of the
O Positive for EIC	nipple)
Paget disease of the nipple	Skeletal muscle
Encapsulated papillary carcinoma	
Solid papillary carcinoma in situ Lobular carcinoma in situ (LCIS)	 Skeletal muscle is not present Skeletal muscle is free of carcinoma
	 Skeletal muscle is nee of calcinoma Tumour involves skeletal muscle
	 Tumour involves both skeletal muscle and chest wall
SSIFICATION OF CARCINOMA IN SITU (if present)	(classified as ypT4a)
stological nuclear grade Applicable to DCIS, encapsulated papillary carcinoma and	¹ Where there is disease extension to involve skin, nipple or skeletal muscle, disease extent classification is a core element; in all other
olid papillary carcinoma in situ)	cases it is non-core.
) Grade 1 (Low)	
) Grade 2 (Intermediate)) Grade 3 (High)	
stological architectural pattern (select all that apply) Applicable to DCIS only)	
Cribriform	
Micropapillary	
Papillary	
Solid	
Other (e.g., clinging/flat ^k), <i>specify</i>	

 $^{\rm k}$ Applies to high nuclear grade DCIS only.

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astectomy specimens)		Involved (select all that app		
Cannot be assessed, <i>speci</i>	fy	Anterior (superficial) Specify extent		
asive carcinoma		Posterior (deep) Specify extent		
Involved (select all that apply	()			
Anterior (superficial)		Superior Specify extent		
Specify extent				
Posterior (deep)		Specify extent		
Specify extent		Medial		
Superior		Specify extent		
Specify extent		Lateral		
Inferior		Specify extent		
Specify extent		Other margin,		
Medial		▼ specify		
Specify extent		Specify extent		
Specify extent				
		Not involved		
• Other margin, • <i>specify</i>		Specify closest margin, if possible		
		Distance of DCIS to close	est margin	
Specify extent		mm		
Not involved		mm		
Specify closest		Cannot be determin	ed, <i>specify</i>	
margin, if possible				
Distance of invasive carcin	oma to closest margin			
mm (< or	> may be used)	Distance of DCIS to othe	r margins (< or >	may be used)
Cannot be determined	t enerity	Anterior (superficial)	mm	
	, specity	Posterior (deep)	mm	
Distance of invasive carcin	ioma to other margins	Superior	mm	
(< or > may be used)		Inferior	mm	
Anterior (superficial)	mm	THEID		
Posterior (deep)	mm	Medial	mm	
Superior	mm	Lateral	mm	
Inferior		Other margin, specify		mn
	mm			
Medial	mm	ⁿ Required only if DCIS or florid Lo in specimen.	CIS or pleomorphic I	CIS is also pres
Lateral	mm			

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MARGIN STATUS ^m (For complete mastectomy specimens) Cannot be assessed, specify	COEXISTENT PATHOLOGY
Invasive carcinoma	
Involved, <i>specify margin/sites of involvement</i>	
	MICROCALCIFICATIONS (select all that apply)
Vot involved Specify closest margin, if possible	 Present in non-neoplastic tissue Other, specify
Distance of invasive carcinoma to closest margin mm (< or > may be used)	
Cannot be determined, <i>specify</i>	POST-TREATMENT ESTROGEN RECEPTOR (ER)
	Antibody clone, specify
DCIS ⁿ Involved, <i>specify margin/sites of involvement</i>	Testing performed Yes No Positive Low positive
	For both options above specify percentage of cells with nuclear positivity ^o
Not involved Specify closest margin, if possible Distance of DCIS to closest margin	 ☐ 1-10%^p ☐ 11-20% ☐ 21-30% ☐ 31-40% ☐ 41-50%
mm (< or > may be used)	○ 51-60%○ 61-70%
Cannot be determined, <i>specify</i>	 ○ 71-80% ○ 81-90% ○ 91-100%
^m Core for all wide local excision specimens, similar non-complete	Average intensity of staining
mastectomy and some (refer to Note) complete mastectomy specimens. ⁿ Required only if DCIS or florid LCIS or pleomorphic LCIS is also present in specimen.	 Weak Moderate Strong
LYMPHOVASCULAR INVASION	Negative (less than 1% nuclear positivity) Internal control cells present and stain as expected
 Not identified Present Specify extent 	 Internal control cells absent Other, specify
Indeterminate	Cannot be determined Internal control cells present but no immunoreactivity of either tumour cells or internal controls Other, <i>specify</i>
	 ^o Percentage of cells with nuclear positivity may be reported as a specific number or a range if more than 10%. ^p Classified as low ER positive

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POST-TREATMENT PROGESTERONE RECEPTOR (PR)	By in situ hybridization	
Antibody clone, specify	 Not performed Negative (not amplified) 	
	\bigcirc Positive (amplified)	
Testing performed O Yes O No	O Pending	
O Positive	Cannot be determined, <i>specify</i>	
Percentage of cells with nuclear positivity ^o		
% OR Range		
1-10%		
0 11-20%	Number of observers	
○ 31-40%○ 41-50%	Number of invasive tumour cells cour	nted
51-60%	O Dual probe assay	
○ 51 00 % ○ 61-70%		
○ 71-80%	Average number of HER2 signals per cell	
81-90%		
O 91-100%	Average number of CEP17 signals per cell	
Average intensity of staining	HER2/CEP17 ratio	/
 ◯ Weak ◯ Moderate 	\bigcirc Single probe assay	
○ Strong	Average number of HER2	
 Negative (less than 1% nuclear positivity) 	signals per cell	
Internal control cells present and stain as expected		
 Internal control cells present and stain as expected Internal control cells absent 	Aneusomy	
Other, <i>specify</i>	 Not identified Present 	
	OPresent	
	Heterogeneous signals	
Cannot be determined	Not identified	
 Internal control cells present; no immunoreactivity 	O Present	
of either tumour cells or internal controls	Percentage of cells with	%
Other, <i>specify</i>	amplified HER2 signals	70
^o Percentage of cells with nuclear positivity may be reported as a specific	POST-TREATMENT ANCILLARY STU	DIES
number or a range if more than 10%.	Not performed	
	Performed	
POST-TREATMENT HER2	Ki-67 proliferation index	%
	L	
Antibody clone, specify	Other, record test(s), methodolo	gy and results
Testing performed O Yes O No		
By immunohistochemistry (IHC)		
○ Not performed		
Negative (Score 0)		
Negative (Score 1+)		
Equivocal (Score 2+)		
Positive (Score 3+)	Depresentative black of the	a studios 16
Percentage of cells with uniform, %	Representative blocks for ancillar those blocks best representing tumou for further study	
Cannot be determined, <i>specify</i>		

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NUMBER OF LYMPH NODES EXAMINE)
-------------------------------	---

(These values may be reported in the corresponding cells in Table

Total number of sentinel lymph	Γ
nodes examined ^q	L

Tota	num	ber of	non-s	sentinel
lymp	h noc	les ex	amine	ed ^r

Total number of lymph nodes examined

^q Core element only if sentinel lymph nodes are submitted by the surgeon.

^r Non-sentinel lymph nodes include:

- 1. any lymph node submitted by the surgeon as 'non-sentinel ly node' at the time of sentinel lymph node biopsy; and
- 2. axillary lymph nodes from an axillary lymph node dissection.

Evidence of fiducial marker

- Not applicable
- No evidence of a fiducial marker
- Evidence of fiducial marker associated with lymph no specify

NUMBER OF LYMP	H NODES WITH METASTATIC	
CARCINOMA[®]		_

(This value may be reported in the corresponding cell in Table 1A)

^s This value includes the number of lymph nodes with macrometast (>2 mm) and micrometastatic carcinoma (>0.2 mm to 2 mm and ≥200 cells).

NUMBER OF LYMPH NODES WITH MACROMETASTA

Sentinel lymph nodes

Total lymph nodes

Non-sentinel lymph nodes

[

^t A macrometastasis is any tumour deposit spanning >2 mm microscopically.

NUMBER OF LYMPH NODES WITH MICROMETASTAS

Sentinel lymph nodes		
Non-sentinel lymph nodes		
Total lymph nodes		
¹ A micrometastasis is any tumour der	oosit spanning >0.2 n	nm to 2 mn

\sim micrometastasis is any tumbul deposit spanning >0.2 min to 2 min	
microscopically and/or consisting of more than 200 cells in one lymph	
node section but not exceeding 2 mm in extent.	

NUMBER OF LYMPH NODES WITH ISOLATED TUMOUR CELLS (ITCs) ^v
(These responses may be reported in the corresponding cells in Table 1.
Sentinel lymph nodes
Non-sentinel lymph nodes
Total lymph nodes
^v ≤0.2 mm and ≤200 cells.
SIZE OF LARGEST METASTASIS
○ Not assessable [×]
Size of largest contiguous metastatic tumour cell deposit mm (TNM size (without intervening fibrosis) ⁹
Extent of largest lymph node metastasis (with intervening fibrosis) ^z (RCB size
 ^w Required only if macro- or micrometastatic carcinoma is present. ^x Only to be used for cases investigated by one-step nucleic acid amplification.
⁹ Largest contiguous metastatic tumour cell deposit determines micrometastasis versus macrometastasis for pN staging.
^z Measurement used for calculation of RCB.
(This response may be reported in the corresponding cell in Table 1A) Not identified Present Cannot be determined
^A Core element only if macro- or micrometastases are present.
TREATMENT EFFECT (These responses may be reported in the corresponding cells in Table 1
Treatment effect (A) – Presence of treatment effect in lymph nodes containing residual metastatic carcinoma
 Not identified Present
Cannot be determined
Treatment effect (B) – Presence of treatment effect in lymph nodes without metastatic carcinoma
Number of lymph nodes with changes suggestive of treatment effect without metastatic carcinoma
PATHOLOGIC COMPLETE RESPONSE (pCR)
pCR (ypT0 ypN0/cN0)
\bigcirc pCR (ypTis ypN0/cN0) (residual DCIS)
 Residual invasive cancer – Not pCR Lymphovascular invasion only – Not pCR

○ ITCs only (ypN0(i+)) - Not pCR

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RESIDUAL CANCE	R BURDEN (RCB)	
 Cannot be determined No residual invasi Residual invasi 	asive carcinor	ma	
RCB area dimensions	r	nm x	mm
AND		_	
Average cano RCB area ^B	er cellularity	in	%
	% in situ o	compone	ent ^c
OR			
Average inva cellularity in			%
Number of ly carcinoma ^c	mph nodes w	ith	
Extent of larg metastasis	gest lymph no	de	mm
RCB score ^D			
RCB class ^D ○ 0	I ()		

^B Enter this value, and 0% for % CIS, in the RCB calculator (see Note).

- ^c The number of lymph nodes with carcinoma, including the number of lymph nodes with ITCs, is used for calculating RCB.
- ^D Core element if neoadjuvant treatment includes chemotherapy and the RCB calculator is accessible.

PATHOLOGICAL STAGING (UICC TNM 8th edition)^E

TNM Descriptors (only if applicable) (select all that apply)

- recurrent r
- m multiple foci of invasive carcinoma
- post-therapy y
- based on clinical or imaging studies, no С histopathologic examination was performed - or lymph node assessment was done without the primary breast tumour being removed

Primary tumour (pT)

\bigcirc	VDTX	Primary	tumour	cannot	be	assessed
	ypin	I I IIIII aI y	cumour	carnioc	DC.	u33C33C0

- No evidence of primary tumour ypT0
- Tumour 2 cm or less in greatest dimension ypT1
-) ypT1a More than 0.1 cm but not more than 0.5 cm in greatest dimension
-) ypT1b More than 0.5 cm but not more than 1 cm in greatest dimension
-) ypT1c More than 1 cm but not more than 2 cm in greatest dimension
- Tumour more than 2 cm but not more than 5 cm in ypT2 areatest dimension
- Tumour more than 5 cm in greatest dimension ypT3
- Tumour of any size with direct extension to vpT4 chest wall and/or to skin (ulceration or skin nodules)^F
-) ypT4a Extension to chest wall (does not include pectoralis muscle invasion only)
-) ypT4b Ulceration, ipsilateral satellite skin nodules, or skin oedema (including peau d'orange)
- ypT4c Both 4a and 4b
-) ypT4d Inflammatory carcinoma^G

Regional lymph nodes (pN)

(This value may be reported in the corresponding cell in Table 1A)

- ypNX Regional lymph nodes cannot be assessed (e.g., previously removed, or not removed for pathological study)
- ypN0 No regional lymph node metastasis
- \bigcirc ypN1 Micrometastasis: or metastasis in 1 to 3 axillary ipsilateral lymph nodes: and/or in internal mammary nodes with metastases detected by sentinel lymph node biopsy but not clinically detected^H
- ypN1mi Micrometastasis (larger than 0.2 mm and/or more than 200 cells, but none larger than 2.0 mm)
- ypN1a Metastasis in 1–3 axillary lymph node(s), including at least one larger than 2 mm in greatest dimension
- ypN1b Metastasis in internal mammary lymph nodes not clinically detected^H
- ypN1c Metastasis in 1–3 axillary lymph nodes and internal mammary lymph nodes not clinically detected^H
- ypN2 Metastasis in 4–9 ipsilateral axillary lymph nodes, or in clinically detected^H ipsilateral internal mammary lymph node(s) in the absence of axillary lymph node metastasis
- ypN2a Metastasis in 4–9 axillary lymph nodes, including at least one that is larger than 2 mm
- ypN2b Metastasis in clinically detected internal mammary lymph node(s), in the absence of axillary lymph node metastasis
-) ypN3 Metastasis as described below:¹
- ypN3a Metastasis in 10 or more ipsilateral axillary lymph nodes (at least one larger than 2 mm) or metastasis in infraclavicular lymph nodes/level III lymph nodes
- Metastasis in clinically detected^H internal ─ ypN3b ipsilateral mammary lymph node(s) in the presence of positive axillary lymph node(s): or metastasis in more than 3 axillary lymph nodes and in internal mammary lymph nodes with microscopic or macroscopic metastasis detected by sentinel lymph node biopsy but not clinically detected
- ─ ypN3c Metastasis in ipsilateral supraclavicular lymph node(s)
- ^E Reproduced with permission. Source: UICC TNM Classification of Malignant Tumours, 8th Edition, eds by James D. Brierley, Mary K. Gospodarowicz, Christian Wittekind. 2016, Publisher Wiley (incorporating any errata published up until 6th October 2020).
- ^F Invasion of the dermis alone does not qualify as ypT4. Chest wall includes ribs, intercostal muscles, and serratus anterior muscle but not pectoral muscle.
- ^G Inflammatory carcinoma of the breast is characterised by diffuse, brawny induration of the skin with an erysipeloid edge, usually with no underlying mass. If a cancer was classified as inflammatory (cT4d before neoadjuvant chemotherapy, the cancer is still classified as inflammatory breast cancer after therapy, even if complete resolution of the inflammatory findings is observed during treatment. The posttreatment pathological classification (ypT) should reflect the extent of identified residual disease, and the pathology report should note that the pre-treatment classification was cT4d. Dimpling of the skin, nipple retraction, or other skin changes, except those in ypT4b and ypT4d, may occur in ypT1, ypT2, or ypT3 without affecting the classification.
- ^H Clinically detected is defined as detected by imaging studies (excluding lymphoscintigraphy) or by clinical examination and having characteristics highly suspicious for malignancy or a presumed pathological macrometastasis based on FNA biopsy with cytological examination.Confirmation of clinically detected metastatic disease by FNA without excision biopsy is designated with a (f) suffix, e.g., cN3a(f). Not clinically detected is defined as not detected by imaging studies (excluding lymphoscintigraphy) or not detected by clinical examination.
- ^I Definition of N3 not included in UICC TNM 8th Edition.

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The following tables are provided for reference, and may be used as needed.

Core elements are summarised in Table 1A. Although all core elements need to be reported for accurate staging of lymph node status, reporting in table format is not required, and the same information may be provided as indicated in the reporting guide. The same applies to the non-core elements summarised in Table 1B.

Table 1A: Regional lymph node status - core elements

Type of lymph nodes	Number of lymph nodes	Status post- neoadjuvant treatment ^c	Total lymph nodes with metastatic carcinoma (size >0.2 mm)	Size of largest metastasis (mm) ^d	Only ITCs present (Yes/No)	Total lymph nodes with ITCs ^e	pN status (UICC TNM8) ^f	Extranodal extension (ENE)
SLNs ^a								
Non-SLNs ^a								
Total lymph nodes ^b								

SLNs: sentinel lymph nodes	Status post-neoadjuvant treatment:	Information not provided	ENE: Not identified
ITCs: isolated tumour cells		No neoadjuvant treatment given	Present
ENE: extranodal extension		Residual disease not identified	Cannot be determined
		Residual disease present	

^a Core elements only if SLN biopsy was performed; if no SLN biopsy was performed report only total number of lymph nodes (LNs).

- ^b The total number of LNs removed includes the number of SLNs (if SLN biopsy was performed) + number of non-SLNs. Non-SLNs are all the LNs that are not submitted as SLNs by the surgeon. If an axillary lymph node dissection has been performed without a SLN biopsy, only the total number of LNs needs to be given.
- ^c If the LNs were obtained post-neoadjuvant treatment, it is strongly suggested to provide the non-core information summarised in Table 1B.
- ^d If the size cannot be measured (e.g., LN removed in several pieces and multiple pieces involved by the metastatic process) the largest measurable size should be given as 'at least' size. If one-step nucleic acid amplification was used for nodal staging the size will be not assessable; the CK19 mRNA copy numbers can be given alternatively as a quantitative value. (Macrometastasis: one-step nucleic acid amplification assay result with >5000 CK19 mRNA copy number/µL lisate; Micrometastasis: one-step nucleic acid amplification assay result with CK19 mRNA copy number between 250 and 5000/µL lisate).

e ITCs are tumour deposits spanning ≤0.2 mm and ≤200 cells in a single LN profile. LNs with ITCs are not counted as metastatic LNs for pN stage. LNs with ITCs are counted in the number of lymph nodes with carcinoma for RCB calculation.

^f If SLN biopsy was performed the minimum number of LNs required for staging purposes is one (sentinel) LN. If no SLN biopsy was performed, non-SLNs usually are obtained by axillary LN dissection (level I + level II +/- level III axillary LNs, depending on regional practices).

Table 1B: Regional lymph node status post-neoadjuvant treatment - non-core elements

Tumour regression	Number of lymph nodes WITH residual carcinoma	Number of lymph nodes WITHOUT residual carcinoma	Total number of lymph nodes
Not identified			
Present			
Cannot be determined			
Total lymph nodes examined			