


Family/Last name Date of birth Given name(s) Patient identifiers Date of request Accession/Laboratory number Elements in **black text** are CORE. Elements in **grey text** are NON-CORE.  indicates multi-select values indicates single select valuesSCOPE OF THIS DATASET **CLINICAL INFORMATION**  Information not provided**Neoadjuvant treatment(s)** (select all that apply)

- Information not provided Hormonal therapy
 Chemotherapy Anti-HER2 targeted therapy
 Immune therapy Radiation therapy
 Other, *specify*

Pre-treatment tumour characteristics Information not providedLaterality Site(s) Date of diagnosis Imaging size at diagnosis Fiducial marker placement Diagnosis

Hormone receptor and HER2 status

Other (e.g., tumour grade, tumour cellularity, tumour infiltrating lymphocytes (TIL), Ki-67, multigene assays), *specify if available***Pre-treatment axillary lymph node biopsy/sampling**

(select all that apply)

- Not applicable Not known
 Core biopsy Fine needle aspiration (FNA)
 Other, *specify* Sentinel node biopsy

Fiducial marker placed Yes NoResult Positive Negative**Other clinical information, *specify*****OPERATIVE PROCEDURE - BREAST** 

- Not specified
 Excision (less than total mastectomy)
 Therapeutic wide local excision
 Re-excision
 Total mastectomy
 Simple mastectomy
 Nipple-sparing mastectomy
 Skin-sparing mastectomy
 Modified radical mastectomy
 Radical mastectomy

 Additional specimens, *specify***OPERATIVE PROCEDURE - AXILLA** (select all that apply) 

- Sentinel lymph node biopsy
 Targeted non-sentinel lymph node biopsy (dissection)
 Other non-sentinel lymph node biopsy
 Axillary lymph node dissection
 Level I
 Levels I and II
 Levels I to III
 Axillary lymph node level III, excision
 Other regional lymph node(s) biopsy
 Internal mammary
 Infraclavicular (subclavicular)
 Supraclavicular
 Other, *specify*

SPECIMEN LATERALITY  Left Right Not specified**SPECIMEN DIMENSIONS** x x **SPECIMEN WEIGHT**

SPECIMEN DETAILS

Depth of tissue excised

Skin to deep fascia Yes No

Specimen includes (select all that apply)

Skin Nipple Skeletal muscle

TUMOUR SITE (select all that apply) 

Not specified

Distance from nipple mm

AND

Position, *specify* o'clock

OR

Upper outer quadrant

Lower outer quadrant

Upper inner quadrant

Lower inner quadrant

Central

Nipple

Other, *specify*

TUMOUR FOCALITY 

Cannot be determined

Single focus of invasive carcinoma

Multiple foci of invasive carcinoma on pre-treatment imaging and on pathologic evaluation, *describe*^a

Multiple foci of invasive carcinoma within a single (fibrotic) tumour bed corresponding to a single focus on pre-treatment imaging

Number of foci

Cannot be assessed

is at least

Morphology of multiple foci^b

Distinct

Similar



Histological tumour type

Histological tumour grade

Receptor status

Cellularity

Size mm

^a See also TUMOUR DIMENSIONS.

^b Core element if multiple foci only.

Morphology of multiple foci^b

Distinct

Similar



Histological tumour type

Histological tumour grade

Receptor status

Cellularity

Size mm

Morphology of multiple foci^b

Distinct

Similar



Histological tumour type

Histological tumour grade

Receptor status

Cellularity

Size mm

RESIDUAL INVASIVE CARCINOMA 

Present

Absent^c

Pre-treatment tumour site identified^d

Uncertain

Yes (select all that apply)

Palpable/visible area on gross examination

Area of concern on specimen radiograph

Calcifications associated with tumour pre-treatment identified

Ductal carcinoma in situ (DCIS) identified

Fiducial marker (clip or equivalent) identified

Surgical localization marker (wire, seed or equivalent) identified

Histologic changes suggestive of tumour bed

Targeted lumpectomy thoroughly sampled

None of the above but likely areas thoroughly sampled

A reference map documents the blocks sampled for histologic evaluation

Cannot be assessed, *specify*

^c If there is no residual invasive carcinoma then the remaining elements pertaining to residual invasive carcinoma (**Tumour dimensions, Tumour cellularity/composition, Histologic tumour type, Post-treatment histologic tumour grade, Tumour extension, Margin status, Post-treatment estrogen receptor, Post-treatment progesterone receptor, Post-treatment HER2 and Post-treatment ancillary studies**) are removed from the report.

^d Core element if residual invasive carcinoma absent.

TUMOUR DIMENSIONS^e 

No residual invasive carcinoma

Maximum dimension of largest contiguous invasive focus



≤1 mm

>1 mm (specify exact measurement rounded to nearest mm)

Maximum 2 dimensions of the area containing residual invasive carcinoma, representing a single residual tumour bed and including any intervening fibrosis, fat, or breast parenchyma (specify 2 exact measurements rounded to nearest mm)

mm x mm (RCB area dimensions)

Maximum dimension of whole tumour field (invasive + DCIS)/total extent of disease mm

Cannot be assessed, specify

^e Based on a combination of macroscopic and microscopic assessment.

TUMOUR CELLULARITY/COMPOSITION 

No residual invasive carcinoma

Estimate of Residual Cancer Cellularity using one of two methods below:

Residual Cancer Cellularity (invasive and in situ)^f

% OR <1%, specify^g %

- 1%
- 5%
- 10%
- 20%
- 30%
- 40%
- 50%
- 60%
- 70%
- 80%
- 90%

Other, specify %

AND

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 the percent that is in situ component.

^g Note that very low cellularity can sometimes be estimated at very low values (e.g., 0.01%) and any decimal result is acceptable.

OR

Residual Cancer Cellularity (invasive only)^h

% OR <1%, specify^g %

- 1%
- 5%
- 10%
- 20%
- 30%
- 40%
- 50%
- 60%
- 70%
- 80%
- 90%

Other, specify %

Comparison with pre-treatment cellularity if available, specify

Percent TILs in tumour stroma % post-treatment

Cannot be assessed, specify

^h The pathologist estimates the average percent of invasive cancer within the area of residual invasive cancer. Zero is entered for the percentage of cancer that is in situ disease in the RCB calculator. See CARCINOMA IN SITU and CLASSIFICATION OF CARCINOMA IN SITU for details about in situ disease.

HISTOLOGICAL TUMOUR TYPE 

(Value list from the World Health Organization Classification of Breast Tumours (2019))

- No residual invasive carcinoma
- Invasive breast carcinoma of no special type (invasive ductal carcinoma, not otherwise specified)^j
- Invasive lobular carcinoma
- Tubular carcinoma
- Cribriform carcinoma
- Mucinous carcinoma
- Invasive micropapillary carcinoma
- Carcinoma with apocrine differentiation
- Metaplastic carcinoma
- Mixed, specify subtypes presentⁱ

Other, specify

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.

POST-TREATMENT HISTOLOGICAL TUMOUR GRADE 

- No residual invasive carcinoma
- Grade 1 (scores of 3, 4, or 5)
- Grade 2 (scores of 6 or 7)
- Grade 3 (scores of 8 or 9)



Tubule score 1,2,3

Nuclear pleomorphism 1,2,3

Mitotic count

per mm²

OR

per 10 HPF (field diameter ____ mm)

Score 1,2,3

Total score

- Too small or insufficient tumour cellularity to grade
- Cannot be reliably determined due to post-treatment changes

CARCINOMA IN SITU 

- Not identified
- Present (select all that apply)
 - DCIS
 - Negative for extensive intraductal component (EIC)
 - Positive for EIC
 - Paget disease of the nipple
 - Encapsulated papillary carcinoma
 - Solid papillary carcinoma in situ
 - Lobular carcinoma in situ (LCIS)

CLASSIFICATION OF CARCINOMA IN SITU (if present) 

Histological nuclear grade

(Applicable to DCIS, encapsulated papillary carcinoma and solid papillary carcinoma in situ)

- Grade 1 (Low)
- Grade 2 (Intermediate)
- Grade 3 (High)

Histological architectural pattern (select all that apply)

(Applicable to DCIS only)

- Cribriform
- Micropapillary
- Papillary
- Solid
- Other (e.g., clinging/flat^k), specify

^k Applies to high nuclear grade DCIS only.

Necrosis

- Not identified
- Present
 - Central (Comedo) necrosis
 - Focal (Punctate) necrosis (<10% duct diameter)

Classification of LCIS (select all that apply)
(Applicable if LCIS is present in specimen)

- Classical LCIS
- Pleomorphic LCIS
- Florid LCIS
- Other, specify

TUMOUR EXTENSION¹ 

Skin

- Skin is not present
- Skin is present and uninvolved
- Invasive carcinoma directly invades into the dermis or epidermis without skin ulceration
- Invasive carcinoma directly invades into the dermis or epidermis with skin ulceration (classified as ypT4b)
- Satellite skin foci of invasive carcinoma are present (i.e., not contiguous with the invasive carcinoma in the breast) (classified as ypT4b)

Nipple (including areola complex)

- Nipple tissue is not present
- DCIS does not involve the nipple epidermis
- DCIS involves nipple epidermis (Paget disease of the nipple)

Skeletal muscle

- Skeletal muscle is not present
- Skeletal muscle is free of carcinoma
- Tumour involves skeletal muscle
- Tumour involves both skeletal muscle and chest wall (classified as ypT4a)

¹ Where there is disease extension to involve skin, nipple or skeletal muscle, disease extent classification is a core element; in all other cases it is non-core.

MARGIN STATUS^m 

(For wide local excision specimens and similar non-complete mastectomy specimens)

Cannot be assessed, *specify*

Invasive carcinoma

Involved (select all that apply)

Anterior (superficial)

Specify extent

Posterior (deep)

Specify extent

Superior

Specify extent

Inferior

Specify extent

Medial

Specify extent

Lateral

Specify extent

Other margin, *specify*

Specify extent

Not involved

Specify closest margin, if possible

Distance of invasive carcinoma to closest margin

 mm

(< or > may be used)

Cannot be determined, *specify*

Distance of invasive carcinoma to other margins (< or > may be used)

Anterior (superficial) mm

Posterior (deep) mm

Superior mm

Inferior mm

Medial mm

Lateral mm

Other margin, *specify* mm

^mCore for all wide local excision specimens, similar non-complete mastectomy and some (refer to Note) complete mastectomy specimens.

DCISⁿ

Involved (select all that apply)

Anterior (superficial)

Specify extent

Posterior (deep)

Specify extent

Superior

Specify extent

Inferior

Specify extent

Medial

Specify extent

Lateral

Specify extent

Other margin, *specify*

Specify extent

Not involved

Specify closest margin, if possible

Distance of DCIS to closest margin

 mm

Cannot be determined, *specify*

Distance of DCIS to other margins (< or > may be used)

Anterior (superficial) mm

Posterior (deep) mm

Superior mm

Inferior mm

Medial mm

Lateral mm

Other margin, *specify* mm

ⁿ Required only if DCIS or florid LCIS or pleomorphic LCIS is also present in specimen.

MARGIN STATUS^m 

(For complete mastectomy specimens)

Cannot be assessed, specify

Invasive carcinoma

Involved, specify margin/sites of involvement

Not involved

Specify closest margin, if possible

Distance of invasive carcinoma to closest margin

 mm (< or > may be used)

Cannot be determined, specify

DCISⁿ

Involved, specify margin/sites of involvement

Not involved

Specify closest margin, if possible

Distance of DCIS to closest margin

 mm (< or > may be used)

Cannot be determined, specify

^m Core for all wide local excision specimens, similar non-complete 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.

LYMPHOVASCULAR INVASION 

Not identified

Present

Specify extent

Indeterminate

COEXISTENT PATHOLOGY 

None identified

Present, specify

MICROCALCIFICATIONS (select all that apply) 

Not identified

Present in DCIS

Present in invasive carcinoma

Present in non-neoplastic tissue

Other, specify

POST-TREATMENT ESTROGEN RECEPTOR (ER) 

Antibody clone, specify

Testing performed Yes No

Positive

Low positive

For both options above specify percentage of cells with nuclear positivity^o

 %

OR Range

- 1-10%^p
- 11-20%
- 21-30%
- 31-40%
- 41-50%
- 51-60%
- 61-70%
- 71-80%
- 81-90%
- 91-100%

AND

Average intensity of staining

Weak

Moderate

Strong

Negative (less than 1% nuclear positivity)

Internal control cells present and stain as expected

Internal control cells absent

Other, specify

Cannot be determined

Internal control cells present but no immunoreactivity of either tumour cells or internal controls

Other, specify

^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.

POST-TREATMENT PROGESTERONE RECEPTOR (PR) 

Antibody clone, *specify*

Testing performed Yes No

Positive

Percentage of cells with nuclear positivity^o

% OR Range

- 1-10%
- 11-20%
- 21-30%
- 31-40%
- 41-50%
- 51-60%
- 61-70%
- 71-80%
- 81-90%
- 91-100%

AND

Average intensity of staining

- Weak
- Moderate
- Strong

Negative (less than 1% nuclear positivity)

- Internal control cells present and stain as expected
- Internal control cells absent
- Other, *specify*

Cannot be determined

Internal control cells present; no immunoreactivity of either tumour cells or internal controls

Other, *specify*

^o Percentage of cells with nuclear positivity may be reported as a specific number or a range if more than 10%.

POST-TREATMENT HER2 

Antibody clone, *specify*

Testing performed Yes No

By immunohistochemistry (IHC)

- Not performed
- Negative (Score 0)
- Negative (Score 1+)
- Equivocal (Score 2+)
- Positive (Score 3+)

Percentage of cells with uniform, intense, complete membrane staining %

Cannot be determined, *specify*

By in situ hybridization

- Not performed
- Negative (not amplified)
- Positive (amplified)
- Pending
- Cannot be determined, *specify*

Number of observers

Number of invasive tumour cells counted

Dual probe assay

Average number of HER2 signals per cell

Average number of CEP17 signals per cell

HER2/CEP17 ratio /

Single probe assay

Average number of HER2 signals per cell

Aneusomy

- Not identified
- Present

Heterogeneous signals

- Not identified
- Present

Percentage of cells with amplified HER2 signals %

POST-TREATMENT ANCILLARY STUDIES 

- Not performed
- Performed

Ki-67 proliferation index %

Other, *specify test(s) and result(s)*

Representative blocks for ancillary studies, specify those blocks best representing tumour and/or normal tissue for further study

NUMBER OF LYMPH NODES EXAMINED 

(These values may be reported in the corresponding cells in Table 1A)

Total number of sentinel lymph nodes examined^a

Total number of non-sentinel lymph nodes examined^r

Total number of lymph nodes examined

^a 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 lymph 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 node, specify

NUMBER OF LYMPH NODES WITH METASTATIC CARCINOMA^s 

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

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

NUMBER OF LYMPH NODES WITH MACROMETASTASES^t

Sentinel lymph nodes

Non-sentinel lymph nodes

Total lymph nodes

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

NUMBER OF LYMPH NODES WITH MICROMETASTASES^u 

Sentinel lymph nodes

Non-sentinel lymph nodes

Total lymph nodes

^u A micrometastasis is any tumour deposit spanning >0.2 mm to 2 mm 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 1A)

Sentinel lymph nodes

Non-sentinel lymph nodes

Total lymph nodes

^v ≤0.2 mm and ≤200 cells.

SIZE OF LARGEST METASTASIS^w 

Not assessable^x

Size of largest contiguous metastatic tumour cell deposit (without intervening fibrosis)^y mm (TNM size)

Extent of largest lymph node metastasis (with intervening fibrosis)^z mm (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.

^y Largest contiguous metastatic tumour cell deposit determines micrometastasis versus macrometastasis for pN staging.

^z Measurement used for calculation of RCB.

EXTRANODAL EXTENSION^A 

(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 1B)

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)

pCR (ypTis ypN0/cN0) (residual DCIS)

Residual invasive cancer – Not pCR

Lymphovascular invasion only – Not pCR

ITCs only (ypN0(i+)) – Not pCR

RESIDUAL CANCER BURDEN (RCB) 

- Cannot be determined
- No residual invasive carcinoma
- Residual invasive carcinoma

RCB area dimensions mm x mm

AND
Average cancer cellularity in RCB area^b %

% in situ component^c

OR
Average invasive cancer cellularity in RCB area^b %

Number of lymph nodes with carcinoma^c

Extent of largest lymph node metastasis mm

RCB score^d

RCB class^d 0 I II III

^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)

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

Primary tumour (pT)

- ypTX Primary tumour cannot be assessed
- ypT0 No evidence of primary tumour
- ypT1 Tumour 2 cm or less in greatest dimension
 - 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
- ypT2 Tumour more than 2 cm but not more than 5 cm in greatest dimension
- ypT3 Tumour more than 5 cm in greatest dimension
- ypT4 Tumour of any size with direct extension to 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
- 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:ⁱ
 - 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
 - ypN3b Metastasis in clinically detected^h internal 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 post-treatment 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.

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

ITCs: isolated tumour cells

ENE: extranodal extension

Status post-neoadjuvant treatment: Information not provided

No neoadjuvant treatment given

Residual disease not identified

Residual disease present

ENE: Not identified

Present

Cannot be determined

^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/ μ L lysate; Micrometastasis: one-step nucleic acid amplification assay result with CK19 mRNA copy number between 250 and 5000/ μ L lysate).

^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			