

# Invasive Breast Cancer Histopathology Reporting Proforma



Mandatory questions (i.e. protocol standards) are in bold (e.g. **S1.01**).

## **S1.01 Identification**

Family name

Given name(s)

Date of birth

Patient identifiers

e.g. MRN, IHI or NHI (please indicate which)

Date of request

**S1.03 Accession number**

Sex

- Male  
 Female  
 Intersex/indeterminate

Ethnicity

- Unknown  
 Aboriginal/Torres Strait Islander  
 Other ethnicity:

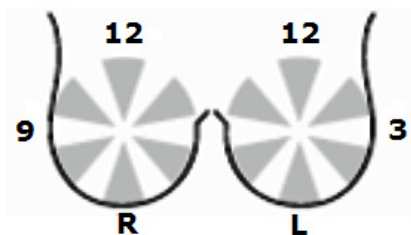
Requesting doctor - name and contact details

## **S1.02 Clinical details**

**Specimen type** (select all that apply)

- diagnostic open biopsy   
wide local excision (partial mastectomy, quadrantectomy or segmentectomy)   
re-excision   
mastectomy   
mastectomy post neoadjuvant therapy   
lymph node biopsy - non-sentinel   
axillary sample   
axillary clearance   
lymph node biopsy - sentinel

**Tumour site and laterality**



Method of localisation

- Carbon track   
Hook wire

**New primary cancer or recurrence**

- New primary   
Regional (local) recurrence   
Distant metastases

## **Sentinel nodes**

Location:

Number:  Colour:

Radioactive count:

Location:

Number:  Colour:

Radioactive count:

**S1.04 Principal clinician**

G1.01 Record other relevant information

## **Macroscopic findings**

**S2.01 Number of specimens submitted**

**S2.02 Specimen laterality**

- Right   
Left

**S2.03 Specimen type**

- diagnostic open biopsy
- wide local excision (partial mastectomy, quadrantectomy or segmentectomy)
- re-excision
- mastectomy
- mastectomy post neoadjuvant therapy
- other

**Lymph tissue** (select all that apply)

- Not submitted
- Lymph node biopsy - sentinel
- Lymph node biopsy - non-sentinel
- Axillary sample
- Axillary clearance

**Intraoperative consultation**

- Not performed
- Performed

**Type** (select all that apply)

- frozen section imprint
- cytology
- gross examination for margin assessment
- other

**S2.04 Specimen orientation**

- Not oriented
- Oriented

**Markers and locations:**

**S2.05 Method of localisation**

- Carbon track
- Hook wire
- N/A

**S2.06 Specimen size**

If oriented use the following 3 measures:

**Medial-lateral length**

**Superficial-deep length**

**Superior-inferior length**

**S2.07 Specimen weight**

**S2.08 Macroscopically visible tumours?**

- Absent
- Present

**Number of foci:**

**S2.09 GROSS DESCRIPTION OF TUMOUR(S)**

Complete for EACH tumour identified above.

**Tumour 1**

**Nature of tumour**

**Tumour size**

**Distance to nearest separate tumour foci**

**Minimum macroscopic margin clearance from any tumour deposit**

From which margin? ▼

**Tumour 2**

**Nature of tumour**

**Tumour 2 (cont.)**

**Tumour size**

length mm x width mm x thickness mm

**Distance to nearest separate tumour foci**

mm

**Minimum macroscopic margin clearance from any tumour deposit**

mm From which margin? ▼

**Tumour 3**

**Nature of tumour**

**Tumour size**

length mm x width mm x thickness mm

**Distance to nearest separate tumour foci**

mm

**Minimum macroscopic margin clearance from any tumour deposit**

mm From which margin? ▼

**S2.10 Skin**

Absent

Present

**Skin dimensions**

length mm x width mm

**Skin abnormalities**

Absent  or choose all that apply:

Ulceration

Paget disease

Satellite nodules

Other

**S2.11 Muscle**

Absent

Present

**S2.12 SENTINEL NODES**

**NODE 1**

**Site**

Axilla

Internal mammary chain

**Radioactive count**

**Uptake of dye**

No

Yes - Blue

**Size**

length mm x width mm x thickness mm

**NODE 2**

**Site**

Axilla

Internal mammary chain

**Radioactive count**

**Uptake of dye**

No

Yes - Blue

**Size**

length mm x width mm x thickness mm

**NODE 3**

**Site**

Axilla

Internal mammary chain

**Radioactive count**

**Uptake of dye**

No

Yes - Blue

**Size**

length mm x width mm x thickness mm

**NON - SENTINEL NODES/TISSUE**

**Total number of nodes**

**Size range**

mm to mm



**Score for mitotic rate**
 which is a score of 

Number of mitoses  
per 10 HPF

OR  Not assessable\*\*

\*\* microinvasion only (each focus  $\leq$  1mm)

**Total Score**

- Grade 1 - Total score of 3–5  
 Grade 2 - Total score of 6 or 7  
 Grade 3 - Total score of 8 or 9  
 Not assessable\*

\* microinvasion only (each focus  $\leq$  1mm)

**S3.04 Invasive carcinoma subtype**

- Invasive carcinoma of No Special Type (Ductal)  
 Pleomorphic carcinoma  
 Carcinoma with osteoclast like stromal giant cells  
 Carcinoma with choriocarcinomatous features  
 Carcinoma with melanotic features
- Invasive lobular carcinoma  
 Classical  Tubulolobular  
 Alveolar  Solid  
 Pleomorphic  Mixed  
 Others – signet ring, histiocytoid, etc
- Tubular carcinoma  
 Cribriform carcinoma  
 Mucinous carcinoma  
 Carcinoma with medullary features  
 Medullary  Atypical medullary  
 Inv. carcinoma NST (ductal) with medullary features
- Carcinoma with apocrine differentiation  
 Carcinoma with signet ring cell differentiation  
 Invasive micropapillary carcinoma  
 Metaplastic carcinoma  
 Low grade adenosquamous carcinoma  
 Fibromatosis-like metaplastic carcinoma  
 Squamous cell carcinoma  
 Spindle cell carcinoma  
 Metaplastic carcinoma with mesenchymal differentiation  
 Chondroid differentiation  
 Osseous differentiation  
 Other types of mesenchymal diff.
- Mixed metaplastic carcinoma  
 Myoepithelial carcinoma

**Rare Types of Invasive Cancer:**

- Carcinomas with Neuroendocrine features  
 Neuroendocrine tumour, well differentiated  
 Neuroendocrine tumour, poorly differentiated (small cell carcinoma)  
 Carcinoma with neuroendocrine differentiation
- Secretory carcinoma  
 Invasive papillary carcinoma  
 Acinic cell carcinoma  
 Mucoepidermoid carcinoma  
 Polymorphous carcinoma  
 Oncocytic carcinoma  
 Lipid rich carcinoma  
 Glycogen rich/Clear cell carcinoma  
 Sebaceous carcinoma  
 Salivary gland/skin adnexal type tumours  
 Adenoid cystic carcinoma  
 Adenomyoepithelioma with carcinoma

**Tumour 2****S3.02 MAXIMUM INVASIVE TUMOUR SIZE**

Whole tumour size  mm

Maximum size of  
invasive tumour  mm

**G3.01 Other invasive tumour dimensions**

mm x  mm

**S3.03 HISTOLOGIC GRADE INVASIVE CARCINOMA****Score for nuclear grade**

- Score 1: Size equivalent to normal breast epithelial cells, regular outlines, uniform chromatin; inconspicuous nucleoli, little size variation.  
 Score 2: Larger nuclei, open vesicular chromatin; visible nucleoli, moderate variability in size and shape  
 Score 3: Vesicular nuclei; often with prominent nucleoli; exhibiting marked variation in size and shape, occasionally very large and bizarre forms

**Score for tubule differentiation**

- Score 1: >75% of invasive carcinoma forming tubular or glandular structures  
 Score 2: 10–75% of invasive carcinoma forming tubular or glandular structures  
 Score 3: <10% of invasive carcinoma forming tubular or glandular structures.  
 Not assessable\*

\* microinvasion only (each focus  $\leq$  1mm)

**Score for mitotic rate**
 which is a score of 

Number of mitoses  
per 10 HPF

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## Tumour 2 (cont.)

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- Invasive carcinoma of No Special Type (Ductal)
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    - Carcinoma with osteoclast like stromal giant cells
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    - Classical  Tubulolobular
    - Alveolar  Solid
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    - Others – signet ring, histiocytoid, etc
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  - Cribriform carcinoma
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  - Carcinoma with medullary features
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## Tumour 3

### S3.02 MAXIMUM INVASIVE TUMOUR SIZE

Whole tumour size  mm

Maximum size of invasive tumour  mm

G3.01 Other invasive tumour dimensions

length mm x  width mm

### S3.03 HISTOLOGIC GRADE INVASIVE CARCINOMA

#### Score for nuclear grade

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\* microinvasion only (each focus  $\leq$  1mm)

#### Score for mitotic rate

which is a score of

Number of mitoses per 10 HPF

OR  Not assessable\*\*

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#### Total Score

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- Carcinoma with apocrine differentiation
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## Tumour 3 (cont.)

### S3.04 Invasive carcinoma subtype

- Metaplastic carcinoma
  - Low grade adenosquamous carcinoma
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    - Other types of mesenchymal diff.
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#### Rare Types of Invasive Cancer:

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- Oncocytic carcinoma
- Lipid rich carcinoma
- Glycogen rich/Clear cell carcinoma
- Sebaceous carcinoma
- Salivary gland/skin adnexal type tumours
- Adenoid cystic carcinoma
- Adenomyoepithelioma with carcinoma

### S3.05 Peritumoural lymphovascular invasion

- Not identified
- Present
- Suspicious

Block

### S3.06 Skin

- Not involved
- Paget disease of the nipple (DCIS extending to skin contiguous with lactiferous sinuses)
- Invasive carcinoma involving dermis or epidermis without ulceration
- Invasive carcinoma involving dermis or epidermis with ulceration
- Ipsilateral satellite skin nodules, ie dermal deposits of invasive carcinoma, separate from the main tumour

### S3.07 Muscle

- Not involved
- Involved

### S3.08 Treatment effect (after neoadjuvant hormonal or chemotherapy)

- No definite response to pre-surgical therapy in the invasive carcinoma
- Partial response to pre-surgical therapy in the invasive carcinoma, residual carcinoma identified.
- Complete pathologic response in breast and lymph nodes: No residual invasive carcinoma is present in the breast or lymph nodes after pre-surgical therapy
- Not applicable

Estimate of overall level of cellularity for invasive cancer

%

Specify neoadjuvant response classification system used


Result of treatment


### S3.09 DCIS

- Absent
- Present only in conjunction with invasive carcinoma
- Present only as pure DCIS
- Present as both pure DCIS and in conjunction with invasive carcinoma

### S3.10 Max extent of breast involved by DCIS

mm

### S3.11 Maximum dimension pure DCIS

mm

### S3.12 Highest nuclear grade of DCIS

- Low
- Intermediate
- High

### G3.02 Nuclear grade heterogeneity of DCIS

- Absent
- Present

Next most prevalent grade

- Low
- Intermediate
- High

**S3.13 Necrosis in DCIS**

- Absent
- Present

**S3.14 Architecture of DCIS** (select all that apply)

- comedo
- solid
- cribriform
- micropapillary
- apocrine
- papillary
- other

**S3.15 Microcalcification**

- Absent
- Present ▶ Choose all that apply:
  - in DCIS
  - in benign tissue
  - in invasive cancer

**Lesion(s) with microcalcification**

**Associated with necrosis?**

- No
- Yes

**Size and extent of microcalcification**  
(if required)

**S3.16 Paget disease**

- Absent
- Present

**S3.17 Margin involvement by invasive carcinoma or DCIS**

- Margins not involved

**Margin 1**

**Clearance**  mm OR  >10mm

and if DCIS is closer to the margin ..

mm to DCIS

**Margin 2**

**Clearance**  mm OR  >10mm

and if DCIS is closer to the margin ....

mm to DCIS

**Margin 3**

**Clearance**  mm OR  >10mm

and if DCIS is closer to the margin ....

mm to DCIS

- Margins involved

**Margin 1**

**Type of involvement**

- DCIS
- Invasive carcinoma
- DCIS and invasive carcinoma

**Orientation of margin**

**Extent of involvement**

mm OR  Focal

**Margin 2**

**Type of involvement**

- DCIS
- Invasive carcinoma
- DCIS and invasive carcinoma

**Orientation of margin**

**Extent of involvement**

mm OR  Focal

**Margin 3**

**Type of involvement**

- DCIS
- Invasive carcinoma
- DCIS and invasive carcinoma

**Orientation of margin**

**Extent of involvement**

mm OR  Focal



**S3.18 Lobular neoplasia**

- Absent  
 Present

**Type**

- Classical  
 Variant (pleomorphic, signet ring)

**Extent**

- Focal  
 Extensive

G3.03 LCIS at the margin (select all that apply)

- LCIS with comedo necrosis present  
 Pleomorphic LCIS present

**S3.19 Associated breast changes**

- atypical ductal hyperplasia  
 flat epithelial atypia  
 lobular neoplasia (ALH/ LCIS)  
 radial scars  
 sclerosing adenosis  
 fibrocystic change  
 other breast changes (eg calcification)

**LYMPH NODES****S3.20 SENTINEL NODES**

**Total number of sentinel nodes**

**No. of sentinel nodes with macrometastases**

**No. of sentinel nodes with micrometastases**

**No. of sentinel nodes with isolated tumour cells**

**S3.21 NON-SENTINEL NODES**

**Total number of non-sentinel nodes**

**Number of non-sentinel nodes with metastases**

**S3.22 Extranodal spread**

- Absent  
 Present

**S3.23 Treatment effect in LN**

- nodes negative, no treatment effect  
 nodes negative, with treatment effect  
 nodes positive, with treatment effect  
 nodes positive, no treatment effect  
 Not applicable

G3.04 Other microscopic comments

**Ancillary test findings****S4.01 Oestrogen receptors**

- Not performed  Pending  
 Performed

**Percentage of nuclei staining**

% to  %

**Predominant staining intensity**

- 1+ Low  
 2+ Intermediate  
 3+ High

**ER result**

- Negative  
 Positive

**Progesterone receptors**

- Not performed  Pending  
 Performed

**Percentage of nuclei staining**

% to  %

**Predominant staining intensity**

- 1+ Low  
 2+ Intermediate  
 3+ High

**ER result**

- Negative  
 Positive

**S4.03 HER2 (ISH)**

- Not performed  Pending  
 Performed

**Number of copies of HER2**

**Number of copies of CEP17**

Not assessed OR

**HER2 Result**

- Amplified  
 Non-amplified diploid  
 Non-amplified polysomic  
 Indeterminate

**HER2 IHC** (if performed)

- 0
- 1+
- 2+
- 3+
- Not performed

**Synthesis and overview**

**S5.01 AJCC Tumour staging**  
(See opposite and next page)

**AJCC Tumour staging grouping**  
(see next page)

**S5.02 Year and edition of staging system**

**G5.01 Diagnostic comment**  
Include: Specimen type and laterality;  
Histological grade Maximum tumour size; Margin  
status; Lymph node status; Lymphovascular  
invasion


**S5.03 Overarching comment**


**S5.01 Tumour stage and group#**

**TNM descriptors** (Only if applicable; select all that apply)

- m- multiple foci of invasive carcinoma
- r - recurrent
- y - post treatment

**Primary Tumour (Invasive Ca) (pT)**

- TX Primary tumour cannot be assessed
- T0 No evidence of primary tumour
- Tis (DCIS) Ductal carcinoma in situ
- Tis (LCIS) Lobular carcinoma in situ
- Tis (Paget's) Paget disease of the nipple NOT associated with invasive carcinoma and/or carcinoma in situ (DCIS and/or LCIS) in the underlying breast parenchyma. Carcinomas in the breast parenchyma associated with Paget's disease are categorized based on size and characteristics of the parenchymal disease, although the presence of Paget's disease should still be noted.

- T1 Tumour ≤ 20 mm in greatest dimension
- T1mi Tumour ≤1 mm in greatest dimension
- T1a Tumour >1 mm but ≤ 5 mm in greatest dimension
- T1b Tumour >5 mm but ≤10 mm in greatest dimension
- T1c Tumour >10 mm but ≤20 mm in greatest dimension
- T2 Tumour >20 mm but ≤50 mm in greatest dimension
- T3 Tumour >50 mm in greatest dimension
- T4 Tumour of any size with direct extension to the chest wall and/or to the skin (ulceration or skin nodules)  
Note: Invasion of the dermis alone does not qualify as pT4
- T4a Extension to the chest wall, not including only pectoralis muscle adherence/invasion
- T4b Ulceration and/or ipsilateral satellite nodules and/or oedema (including peau d'orange) of the skin, which do not meet criteria for inflammatory carcinoma
- T4c Both T4a and T4b
- T4d Inflammatory carcinoma

**Regional Lymph Nodes (pN)\***

\*Note: Classification is based on axillary lymph node dissection with or without sentinel lymph node biopsy. Classification based solely on sentinel lymph node biopsy without subsequent axillary lymph node dissection is designated (sn) for "sentinel node" for example, pN0(sn)

- pNX Regional lymph nodes cannot be assessed (eg previously removed, or not removed for pathologic study)
- pN0 No regional lymph node metastasis identified histologically.  
Note: isolated tumour cell clusters (ITC) are defined as small clusters of cells not greater than 0.2mm, or single tumour cells, or a cluster of fewer than 200 cells in a single histologic cross-section. ITCs may be detected by routine histology or by immunohistochemical (IHC) methods. Nodes containing only ITCs are excluded from the total positive node count for purposes of N classification but should be included in the total number of nodes evaluated.
- pN0(i-) No regional lymph node metastases histologically, negative IHC
- pN0(i+) Malignant cells in regional lymph node(s) no greater than 0.2 mm (detected by H&E or IHC including ITC)
- pN0(mol-) No regional lymph node metastases histologically, negative molecular findings (RT-PCR)
- pN0(mol+) Positive molecular findings (RT-PCR)\*\*, but no regional lymph node metastases detected by histology or IHC

## Regional Lymph Nodes (pN)\* (cont.)

pN1	Micrometastases; or metastases in 1-3 axillary lymph nodes; and/or in internal mammary nodes with metastases detected by sentinel lymph node biopsy but not clinically detected.***
pN1mi	Micrometastases (greater than 0.2 mm and/or more than 200 cells, but none greater than 2.0 mm)
pN1a	Metastases in 1-3 axillary lymph nodes, at least 1 metastasis greater than 2.0 mm
pN1b	Metastases in internal mammary nodes with micrometastases or macrometastases detected by sentinel lymph node biopsy but not clinically detected.***
pN1c	Metastases in 1-3 axillary lymph nodes and in internal mammary lymph nodes with micrometastases or macrometastases detected by sentinel lymph node biopsy but not clinically detected.
pN2	Metastases in 4-9 axillary lymph nodes; or clinically detected**** internal mammary lymph nodes in the absence of axillary lymph node metastases
pN2a	Metastases in 4-9 axillary lymph nodes (at least one tumour deposit greater than 2.0 mm)
pN2b	Metastases in clinically detected**** internal mammary lymph nodes in the absence of axillary lymph node metastases
pN3	Metastases in ten or more axillary lymph nodes; or in infraclavicular (level III axillary) lymph nodes; or in clinically detected**** ipsilateral internal mammary lymph nodes in the presence of one or more positive level I, II axillary lymph nodes; or in more than three axillary lymph nodes and in internal mammary lymph nodes with micrometastases or macrometastases detected by sentinel lymph node biopsy but not clinically detected***; or in ipsilateral supraclavicular lymph nodes
pN3a	Metastases in 10 or more axillary lymph nodes (at least one tumour deposit greater than 2.0 mm); or metastases to the infraclavicular (level III axillary lymph) nodes
pN3b	Metastases in clinically detected**** ipsilateral internal mammary lymph nodes in the presence of one or more positive axillary lymph nodes; or in more than three axillary lymph nodes and in internal mammary lymph nodes with micrometastases or macrometastases detected by sentinel lymph node biopsy but not clinically detected****
pN3c	Metastases in ipsilateral supraclavicular lymph nodes

### Notes:

\*\*RT-PCR: reverse transcriptase/polymerase chain reaction

\*\*\*'Not clinically detected' is defined as not detected by imaging studies (excluding lymphoscintigraphy) or not detected by clinical examination

\*\*\*\*'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 pathologic macrometastasis based on fine needle aspiration biopsy with cytologic examination.

## Distant Metastasis (M)

M0	No clinical or radiographic evidence of distant metastases
cM0(i+)	No clinical or radiographic evidence of distant metastases, but deposits of molecularly or microscopically detected tumour cells in circulating blood, bone marrow, or other nonregional nodal tissue that are no larger than 0.2 mm in a patient without symptoms or signs of metastasis
M1	Distant detectable metastases as determined by classic clinical and radiographic means and/or histologically proven larger than 0.2 mm

## Stage Grouping\*

Stage	T	N	M
0	Tis	N0	M0
IA	T1*	N0	M0
IB	T0	N1mi	M0
	T1*	N1mi	M0
IIA	T0	N1†	M0
	T1*	N1†	M0
	T2	N0	M0
IIB	T2	N1	M0
	T3	N0	M0
	T3	N1	M0
IIIA	T0	N2	M0
	T1*	N2	M0
	T2	N2	M0
	T3	N2	M0
IIIB	T4	N0, N1, N2	M0
	Any T	N3	M0
IIIC	Any T	Any N	M1

\*T1 includes T1mic

† T0 and T1 tumours with nodal micrometastases only are excluded from Stage IIA and are classified Stage IB.

### Notes:

- M0 includes M0(i+)
- The designation pM0 is not valid; any M0 should be clinical.
- If a patient presents with M1 prior to neoadjuvant systemic therapy, the stage is considered stage IV and remains stage IV regardless of response to neoadjuvant therapy.
- Stage designation may be changed if postsurgical imaging studies reveal the presence of distant metastases, provided that the studies are carried out within 4 months of diagnosis in the absence of disease progression and provided that the patient has not received neoadjuvant therapy.
- Post-neoadjuvant therapy is designated with "yc" or "yp" prefix. No stage group is assigned if there is a complete pathologic response (CR) to neoadjuvant therapy, for example, ypT0ypN0cM0.

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