

## WHO Classification of Tumours, 5th edition: Breast Tumours Corrections made in second print run

### Summary of corrections:

Chapter 3: Fibroepithelial tumours and hamartomas of the breast

p. 174

*Phyllodes tumour > Histopathology*

The high-power field area has been corrected from 0.5 mm<sup>2</sup> to 0.2 mm<sup>2</sup> in two places, and the field diameter has been added.

Original text	Corrected text
<p>In benign phyllodes tumours ... The spindle cell stromal nuclei are monomorphic and mitoses are rare, usually &lt; 2.5 mitoses/mm<sup>2</sup> {2038} (corresponding to &lt; 5 mitoses per 10 high-power fields of 0.5 mm<sup>2</sup>).</p> <p>...</p> <p>Malignant phyllodes tumours ... increased mitoses (≥ 5 mitoses/mm<sup>2</sup>; ≥ 10 mitoses per 10 high-power fields of 0.5 mm<sup>2</sup>) ...</p>	<p>In benign phyllodes tumours ... The spindle cell stromal nuclei are monomorphic and mitoses are rare, usually &lt; 2.5 mitoses/mm<sup>2</sup> {2038} (corresponding to &lt; 5 mitoses per 10 high-power fields of 0.5 mm in diameter and 0.2 mm<sup>2</sup> in area).</p> <p>...</p> <p>Malignant phyllodes tumours ... increased mitoses (≥ 5 mitoses/mm<sup>2</sup>; ≥ 10 mitoses per 10 high-power fields of 0.5 mm in diameter and 0.2 mm<sup>2</sup> in area) ...</p>

## WHO Classification of Tumours, 5th edition: Breast Tumours

### Corrections made in third print run

#### Summary of corrections:

WHO classification tables

p. 10, 164, 188, 232, 250

Footnotes

The following footnote has been added below the WHO classification (ICD-O coding) tables:

Subtype labels are indented.

Chapter 2: Epithelial tumours of the breast

p. 73

*Lobular carcinoma in situ > Staging*

The text has been corrected as shown.

Original text	Corrected text
<p><b>Staging</b> According to the eighth editions of the Union for International Cancer Control (UICC) TNM classification {229} and the American Joint Committee on Cancer (AJCC) cancer staging manual {61}, LCIS is no longer staged as Tis. Pleomorphic LCIS is not included in the pTis classification.</p>	<p><b>Staging</b> The eighth edition of the Union for International Cancer Control (UICC) TNM classification {229} recommends that LCIS be staged as pTis. However, the eighth edition of the American Joint Committee on Cancer (AJCC) cancer staging manual {61} considers LCIS to be a benign disease and therefore does not include it in staging.</p>

Chapter 2: Epithelial tumours of the breast

p. 92

*Invasive breast carcinoma: General overview > Histopathology > Stromal response patterns and tumour microenvironment*

The word "internal" has been corrected to "international".

Original text	Corrected text
<p>For quantifying TILs, it is recommended to follow the internal consensus scoring recommendations ...</p>	<p>For quantifying TILs, it is recommended to follow the international consensus scoring recommendations ...</p>

Chapter 2: Epithelial tumours of the breast

p. 104

*Invasive breast carcinoma of no special type > Histopathology > Special morphological patterns*

A comma has been deleted to correct the meaning of the text, as shown.

Original text	Corrected text
<p><b>Special morphological patterns</b> Oncocytic, lipid-rich, glycogen-rich, clear cell, and sebaceous carcinomas are rare tumours ...</p>	<p><b>Special morphological patterns</b> Oncocytic, lipid-rich, glycogen-rich clear cell, and sebaceous carcinomas are rare tumours ...</p>

The term “subtype” has been corrected to “pattern” as shown.

Original text	Corrected text
Although the literature suggests ... ER was found to be expressed in the classic form and in <b>subtypes</b> , with the rate of positivity being highest (100%) in the alveolar <b>subtype</b> ...	Although the literature suggests ... ER was found to be expressed in the classic form and in <b>patterns</b> , with the rate of positivity being highest (100%) in the alveolar <b>pattern</b> ...

The term “subtype” has been corrected to “pattern” as shown.

Original text	Corrected text
<p><b>Prognosis and prediction</b></p> <p>Despite the favourable prognostic features ... When the histological <b>subtypes</b> of ILC were analysed separately ...</p> <p>...</p> <p>After neoadjuvant chemotherapy ... However, this relative resistance to cytotoxic therapy may be more related to the molecular characteristics (and especially the lower proliferation) of ILC rather than the histological <b>subtype</b> per se ...</p>	<p><b>Prognosis and prediction</b></p> <p>Despite the favourable prognostic features ... When the histological <b>patterns</b> of ILC were analysed separately ...</p> <p>...</p> <p>After neoadjuvant chemotherapy ... However, this relative resistance to cytotoxic therapy may be more related to the molecular characteristics (and especially the lower proliferation) of ILC rather than the histological <b>pattern</b> per se ...</p>

The figure legend has been amended as shown.

Original text	Corrected text
<p><b>Fig. 2.131</b> Invasive micropapillary carcinoma. ... <b>C</b> An example showing a moderate to intense but incomplete (U-shaped or basolateral) HER2 staining pattern (score: 2+). <i>ERBB2</i> (<i>HER2</i>) FISH showed <i>ERBB2</i> gene amplification (<i>ERBB2</i>/CEP17 ratio: 2.5).</p>	<p><b>Fig. 2.131</b> Invasive micropapillary carcinoma. ... <b>C</b> An example showing a moderate to intense but incomplete (U-shaped or basolateral) HER2 staining pattern (score: 2+). <i>ERBB2</i> (<i>HER2</i>) FISH showed <i>ERBB2</i> gene amplification (<i>ERBB2</i>/CEP17 ratio: 2.5; <b>mean number of <i>ERBB2</i> signals/cell: &gt; 6.0</b>).</p>

The word “local” has been corrected to “regional” as shown.

Original text	Corrected text
<p><b>Classic AdCC:</b> Despite the triple-negative phenotype, the classic subtype usually shows favourable behaviour. <b>Local</b> and distant metastases are rare ...</p>	<p><b>Classic AdCC:</b> Despite the triple-negative phenotype, the classic subtype usually shows favourable behaviour. <b>Regional</b> and distant metastases are rare ...</p>

The text has been amended as shown, in order to clarify the precise meaning.

Original text	Corrected text
<p><b>Histopathology</b> Nodular fasciitis ... Extravasated red blood cells and lymphocytes are commonly seen ...</p>	<p><b>Histopathology</b> Nodular fasciitis ... Lymphocytes and extravasated red blood cells are commonly seen ...</p>

The ICD-O code for Paget disease of the nipple has been added.

Original text	Corrected text
<p><b>Epithelial tumours</b> Gynaecomastia     Florid gynaecomastia     Fibrous gynaecomastia 8500/2 Intraductal carcinoma, non-infiltrating, NOS     Ductal carcinoma in situ     Lobular carcinoma in situ     Paget disease of the nipple 8500/3 Infiltrating duct carcinoma NOS</p>	<p><b>Epithelial tumours</b> Gynaecomastia     Florid gynaecomastia     Fibrous gynaecomastia 8500/2 Intraductal carcinoma, non-infiltrating, NOS     Ductal carcinoma in situ     Lobular carcinoma in situ 8540/3 Paget disease of the nipple 8500/3 Infiltrating duct carcinoma NOS</p>

The nucleic acid sequence "GAG" has been corrected to "CAG" as shown.

Original text	Corrected text
<p><b>Table 7.01</b> Summary of causes and mechanisms of production of gynaecomastia ... <b>Mechanism of production of gynaecomastia</b> ... Similar to in Klinefelter syndrome – an increased number of GAG repeats in the AR gene ...</p>	<p><b>Table 7.01</b> Summary of causes and mechanisms of production of gynaecomastia ... <b>Mechanism of production of gynaecomastia</b> ... Similar to in Klinefelter syndrome – an increased number of CAG repeats in the AR gene ...</p>

The term "ductal" has been corrected to "IBC-NST", and "NST" has been added to the abbreviations footnote, as shown.

Original text	Corrected text
<p><b>Table 9.03</b> Histological characteristics and molecular phenotype of breast cancer in BRCA1 and BRCA2 mutation carriers compared with sporadic breast cancer ... <b>BRCA2</b> ... Ductal, tubular, cribriform, mucinous, classic/pleomorphic lobular ... DCIS, ductal carcinoma in situ; IBC, invasive breast carcinoma; LCIS, lobular carcinoma in situ.</p>	<p><b>Table 9.03</b> Histological characteristics and molecular phenotype of breast cancer in BRCA1 and BRCA2 mutation carriers compared with sporadic breast cancer ... <b>BRCA2</b> ... IBC-NST, tubular, cribriform, mucinous, classic/pleomorphic lobular ... DCIS, ductal carcinoma in situ; IBC, invasive breast carcinoma; LCIS, lobular carcinoma in situ; NST, of no special type.</p>