

Case 1

Our Diagnosis

C: Monomorphous (small cell) carcinoma of the breast (fairly well differentiated) with axillary lymph node metastasis

H: Well differentiated invasive ductulobular carcinoma of the breast and DCIS intermediate grade with microcalcifications pT1c, G1 (BRE Score 3,1,1)

Your Diagnosis (6)

Cytology

Lobular Carcinoma	2
(Breast) Carcinoma	2
Suspicious of carcinoma	1
Small cell carcinoma	1

Histology

Invasive lobular carcinoma	2
Invasive lobular ca with in situ comp.	3
Invasive ductal carcinoma	1

Case 2

Our Diagnosis

C: Monomorphous carcinoma of the breast

H: Partially sclerosed fibroadenoma (5.5x3x2cm) with lobular carcinoma in situ and small focus of invasive lobular carcinoma (Ablatio mammae simplex)

Your Diagnosis (6)

Cytology

Lobular carcinoma	1
Small cell carcinoma	1
Signet ring carcinoma	1
Atypical cells (dd lobular ca)	2 (1)
Ductular cells w/ moderate atypia, ca susp.	1

Histology

Collagen rich fibroadenoma w/ ca lob.	2
Intracanalicular ca with fibroadenoma	1
Fibroadenoma w/ atypical duct. prolif.	1
DCIS within fibroadenomatous hyperpl.	1
Ancient fibroadenoma with cystic les.	1

Case 3

Our Diagnosis

C 2. Malignant neoplastic cells of type undifferentiated small cell carcinoma (SCCL) and elements of squamous meta- and dysplasia of bronchial epithelium (*Bronchial Brush and Washing*)

H: Undifferentiated small cell carcinoma with signs of neuroendocrine differentiation and high proliferative activity as well as foci of bronchial squamous meta- and dysplasia (biopsy of upper left lobe bronchus)

Your Diagnosis (6)

Cytology

Small cell carcinoma	5
Medium sized small cell carcinoma	1

Histology

Small cell carcinoma	6
(dd lymphocytic lymphoma)	(1)

Case 4

Our Diagnosis

C: Oncocytic tumor of the thyroid (Hürthle-cell tumor)

H: Oncocytic adenoma (Hürthle cell adenoma) of the thyroid (left) with central regressive changes

Your Diagnosis (6)

Cytology

Oxyphilic/oncocytic tumor/Hürthle c. tu.	3
Follicular neoplasia	1
Atypical follicular cells (degenerate)	1
Indeterminate	1

Histology

Oxyphilic/oncocytic adenoma/Hürthle c.tu.	4
.... with atypia	1
Minimal invasive follic. ca, oxyphilic type	1

Case 5

Our Diagnosis

C: Fine needle aspiration of a cervical lymph node, highly suggestive of metastatic papillary carcinoma of the thyroid

H: Lymph node metastasis of papillary carcinoma of the thyroid (Stadtspital Triemli, Zürich)

Your Diagnosis (6)

Cytology

Metastatic papillary carcinoma	2
Atypical cells comp. with papillary ca.	1
Atypical cells	1
Metastatic follicular carcinoma	1
Histiocytes, macrophages	1

Histology

Papillary carcinoma of thyroid (metastasis)	6
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Case 6

Our Diagnosis

C: Fine needle aspiration of a cervical cyst with squamous cells (DD: lateral branchial cleft cyst, pilomatrixoma, epidermoid cyst)

H: Cervical lymph node with metastatic moderately differentiated keratinizing squamous cell carcinoma

Your Diagnosis (6)

Cytology

(Metastatic) Squamous cell carcinoma	3
Atypical keratinocytes, sugg. squamous c ca	1
Malignant cells, indeterminate	1
Necrosis, atypical squamous cells	1

Histology

(Cyst.) Metastasis of squamous cell carcinoma	5
...within branchial cyst	1

Case 7

Our Diagnosis

C: Malignant cells of type poorly differentiated follicular thyroid carcinoma

H: Poorly differentiated follicular carcinoma of the thyroid with extensive local infiltration (pT4 N1b M0)

Your Diagnosis (6)

Cytology

Thyroid carcinoma (poorly differentiated)	3
Malignant cells	1
... dd mixed follic./medullary carcinoma	1
Adenocarcinoma	1

Histology

Follicular...	1
...poorly differentiated thyroid carcinoma	2
Undifferentiated carcinoma (localization?)	1
Angiosarcoma/malignant hemangioendoth.	1
Poorly differentiated adenocarcinoma	1

Case 8

Our Diagnosis

C: Monomorphous small cell lymphocytoid population suggestive of mature B-cell neoplasia

H: Mantle cell lymphoma

Your Diagnosis (6)

Cytology

NH lymphoma, B-CLL/B-SLL	3
NH lymphoma, small cell	2
NH lymphoma of low grade malignancy/CLL	1

Histology

NH lymphoma, B-CLL/B-SLL	2
... or lymphoplasmacytic lymphoma	1
NH lymphoma, small cell,	1
... low grade (!)	1
NH lymphoma of low grade malignancy/CLL	1

Case 9

Our Diagnosis

C: Cell-rich neuroendocrine neoplasm, most likely paraganglioma (see ICC panel)

H: Paraganglioma

Your Diagnosis (6)

Cytology

Malignant cells	1
... of neuroendocrine type	2
Carcinoid metastasis	1
Neuroendocrine tumor	1
Carcinoma	1

Histology

Paraganglioma	1
Clear cell carcinoma (of kidney?)	1
... metastatic (of kidney?)	1
Neuroendocrine carcinoma	1
... metastatic (of pancreas?)	1
Carcinoid metastasis	1

Case 10

Our Diagnosis

C 1.: Malignant cells of type partly signet ring cell mucinous adenocarcinoma (*Ascites*)

C 2.: Cell block: Malignant cells and tissue fragments of a partly signet ring cell adenocarcinoma (*Ascites*)

H: Moderately to poorly differentiated partly signet ring cell adenocarcinoma at the site of colon caecum (biopsy thanks to Dr. Renata Flury, Winterthur)

Your Diagnosis (6)

Cytology

Signet ring cell adenocarcinoma	3
... or adenocarcinoid (appendix?)	1
... "Krukenberg" ?	1
Mucinous adenocarcinoma	1

Histology

Signet ring cell adenocarcinoma	2
... or adenocarcinoid (appendix?)	1
... "Krukenberg" ?	1
Mucinous adenocarcinoma	1
Insufficient material, malignant	1

Case 11

Our Diagnosis

C: Moderate to severe dysplasia/carcinoma in situ (HSIL, eq. CIN II-CIN III) of metaplastic squamous cells of the uterine cervix (s.c. metaplastic dysplasia). Signs of HPV infection.

H: Severe dysplasia/carcinoma in situ (CIN III) in transition zone of the uterine cervix.

Your Diagnosis (6)

Cytology

Cells of CIN II and CIN III (HSIL)	3
... with signs of HPV infection	1
Carcinoma cells	1
... squamous	1

Histology

<i>CIN II and III</i>	2
<i>HSIL of transformation zone</i>	1
<i>CIS of cervix</i>	1
Microinvasive carcinoma (squamous type)	1
Intraepithelial squamous ca., poorly diff.	1

Case 12

Our Diagnosis

C: Malignant cells of type moderately differentiated papillary urothelial carcinoma and associated urothelial carcinoma in situ/urothelial dysplasia (renal pelvine washing)

H: Moderately differentiated papillary urothelial carcinoma (pT3 Nx G2) of the renal pelvis (nephrectomy left)

Your Diagnosis (6)

Cytology

Papillary low grade transitional cell carcinoma	2
Moderately dysplastic urothelial cells	1
... sugg. carcinoma	1
Carcinoma cells	1
... urothelial or kidney	1

Histology

Papillary urothelial carcinoma (pTa, G2)	5
... G2-G3	1

Case 13

Our Diagnosis

C: Suspicious of follicular neoplasia, Hashimoto's to be ruled out.

H: Chronic lymphocytic thyroiditis (Hashimoto's thyroiditis).
No follicular neoplasia present

Your Diagnosis (6)

Cytology

Autoimmunthyroiditis (Hashimoto's)	2
... dd follicular neoplasia, partly oncocytic	1
Probable thyroiditis	1
Atypical follicular cells (thyrocytes)	1
Indeterminate cells, non malignant	1

Histology

Lymphocytic thyroiditis (Hashimoto's)	5
Graves' disease (M. Basedow)	1