

**EQA006 (MAY 2014) FINAL ANALYSIS OF RESPONSES WITH
DIAGNOSES**

1) 44 year old female with multiple subcutaneous nodules in hypo-chondral region.
IMMUNOHISTOCHEMISTRY: Strong positive reaction with oestrogen receptors but
totally negative with progesterone receptors

CONSULTANTS

Metastatic carcinoma (most likely from breast, also stomach possible)	6
Invasive ductal carcinoma (grade 2 +/- with neuroendocrine features)	4
Carcinoid tumour (secondary from IDC with endocrine differentiation)	2
Invasive lobular carcinoma	1

RESIDENTS

Metastatic carcinoma (from breast - R/O ER +ve eccrine duct carcinoma)	3
Metastatic or well differentiated neuroendocrine tumour	2
Metastatic clear cell carcinoma from breast, ovary, colon or endometrial cancer	1
Malignant skin adnexal tumour (malignant eccrosiroma)	1
Clear cell carcinoma	1
Granulosa cell tumour	1
Medullary carcinoma of the breast	1
NO answer	1

FINAL DIAGNOSIS

Strongly suggestive of metastatic breast carcinoma especially on
morphology.

2) Breast lump 44 year old female. Cytology – C1.

CONSULTANTS

Fat necrosis (traumatic)	7
Chronic (granulomatous) inflammation	2
Benign lesion	1
Fibromastopathy	1
Fibromatosis	1
Haemangiopericytoma	1

RESIDENTS

Fat necrosis (B2)	4
No answer	2
Fibrous tissue with inflammation	1
Benign Phylloides tumour (B2)	1
Chronic granulomatous mastitis ? Fungal	1
BFH	1
Fibromatosis	1

FINAL DIAGNOSIS

Fat necrosis

3) 50 year old woman. Vascular node left Upper Outer quadrant of breast ? benign

CONSULTANTS

Lymph node - reactive/inflammatory (sinus histiocytosis, follicular hyperplasia, non-specific)	8
Non-Hodgkin's Lymphoma	2
Sentinel lymph node with metastasis	1
Benign lymphoepithelial lesion	1
Diabetic mastopathy	1

RESIDENTS

Lymph node - reactive/inflammatory (sinus histiocytosis, follicular hyperplasia, non-specific)	5
Non-Hodgkin's Lymphoma	2
Castleman's disease	1
Chronic necrotising lymphoproliferative lesion	1
Benign lymphoepithelial lesion	1
No answer	1

FINAL DIAGNOSIS

Reactive lymph node - sinus catarrh

4) 47 year old woman, right wide local excision. **MACROSCOPY:** Fibrofatty tissue 53 x 41 x 40 mm and 35 g. Lesion identified is 23 x 20 mm

CONSULTANTS

Tubular adenoma (with intraductal papillary/papilloma, with DCIS)	5
Tubular carcinoma	2
Invasive ductal carcinoma (SBR N3, T1, M1 e.t.c.)	1
Adenosis with ductal hyperplasia	1
Microglandular adenosis	1
Sclerosing adenosis	1
Invasive micropapillary carcinoma (with focus of papillary duct hyperplasia)	1
Epithelial myoepithelial carcinoma	1

RESIDENTS

Microglandular adenosis/florid ductal hyperplasia with adenosis	4
Tubular adenoma (with DCIS or intraductal hyperplasia)	2
Fibrocystic change	2
Invasive ductal carcinoma (tubular carcinoma - Nottingham grade 1)	1
No answer	1
Atypical ductal papilloma	1

FINAL DIAGNOSIS

Invasive (micro) papillary carcinoma

5) 70 year old woman with new growth in the left breast (previous new growth right breast in 1982). FNA – C5 (malignant ? primary)

CONSULTANTS

Invasive lobular carcinoma (pleomorphic variant, signet ring variant)	5
Rhabdomyosarcoma (pleomorphic)	2
Invasive ductal carcinoma (SBR N2, T3, M1 e.t.c)	2
Invasive ductal carcinoma with lobular pattern	1
Anaplastic tumour/undifferentiated carcinoma	1
Sarcomatous neoplasm	1
Plasmacytoma	1

RESIDENTS

Invasive lobular carcinoma (pleomorphic variant, signet ring variant, with IDC component)	6
Invasive ductal carcinoma (Nottingham grade 2)	1
Anaplastic tumour/undifferentiated carcinoma	1
Rhabdomyosarcoma (pleomorphic)	1
Adenoid cystic carcinoma	1
Sebaceous carcinoma of the breast	1

FINAL DIAGNOSIS

Pleomorphic lobular carcinoma

6) 38 year old woman with bloody nipple discharge. Single left duct microductectomy

CONSULTANTS

Duct/intraduct papilloma/papillomatosis (with fibrocystic change, duct hyperplasia)	10
Cystic and papillary apocrine metaplasia	1
DCIS	1
Fibrocystic disease	1

RESIDENTS

Duct/intraduct papilloma/papillomatosis (with fibrocystic change, duct hyperplasia)	8
Papillary carcinoma and intraductal papillary carcinoma	2
Intraductal papilloma with DCIS	1

FINAL DIAGNOSIS

Intraductal papilloma

7) Adult female - breast tumour.

CONSULTANTS

Invasive ductal carcinoma (without or with grade e.g. SBR N2, T3, M1 grade 2 e.t.c.)1	11
Metaplastic carcinoma	2

RESIDENTS

Invasive ductal carcinoma (without or with grade e.g SBR 6/9,.Nottingham grade 2)	9
Metaplastic carcinoma	1
Pleomorphic lobular carcinoma	1

FINAL DIAGNOSIS

Moderately differentiated invasive ductal carcinoma NST

8) Adult female - left breast lesion

CONSULTANTS

Fibroadenoma (with lactational or fibrocystic change)	6
Fibrocystic change	6
Breast hamatoma	1

RESIDENTS

Fibrocystic change (with intraductal papilloma or columnar cell hyperplasia)	6
Fibroadenoma (with lactational or fibrocystic change or intraductal papilloma)	3
Tufted angioma	1
Intraductal papilloma	1

FINAL DIAGNOSIS

Tiny foci of intraductal papilloma, few dilated ducts and small foci of cystic change with apocrine metaplasia, focal lactational change.

9) 60 year old female with right breast lesion

CONSULTANTS

Granular cell tumour of the breast	6
Invasive ductal carcinoma (with lobular features)	2
Carcinoma with medullary features	1
Apocrine metaplasia	1
Malignant granular cell tumour	1
Metastatic hepatic adenocarcinoma	1
Apocrine carcinoma (B5b)	1

RESIDENTS

Granular cell tumour	2
Apocrine carcinoma (and IDC with oncocytic differentiation)	2
Medullary carcinoma	2
B5b	1
Invasive ductal carcinoma (without or with grade e.g. Nottingham grade 2)	1
Mucinous carcinoma of breast	1
Metastatic hepatic adenocarcinoma	1
Myoblastoma	1

FINAL DIAGNOSIS

B5b - apocrine carcinoma.

10) Breast tumour, adult female

CONSULTANTS

Medullary carcinoma/invasive ductal carcinoma medullary type	2
Invasive ductal carcinoma (without or with grade e.g. SBR N2, T3, M1 grade 2)	2
Inflammatory carcinoma	2
Granulomatous mastitis	1
Comedo carcinoma	1
Mammary duct ectasia (plasma cell mastitis)	1
Intraductal carcinoma with possible microinvasion	1
Apocrine carcinoma (invasive and in-situ)	1
Plasmacytoma	1
Plasma cell mastitis	1

RESIDENTS

Invasive ductal carcinoma (without or with grade e.g Nottingham grade 2. SBR N2, T3, M1 grade 2)	2
?apocrine features but with necrosis	1
Fat necrosis	1
DCIS	1
Inflammatory carcinoma	1
Metastatic breast cancer ? Neuroendocrine tumour	1
Invasive ductal carcinoma medullary type	1
Comedo carcinoma	1
Duct ectasia/plasma cell mastitis	1
Papillary carcinoma of the breast	1

FINAL DIAGNOSIS

Invasive micropapillary carcinoma with apocrine differentiation

11) 38 year old female with enlarging left breast mass for 2 months. No pain. Clinical diagnosis - fibroadenosis to rule out carcinoma.

CONSULTANTS

Invasive/infiltrating ductal carcinoma (with DCIS)	6
Invasive ductal carcinoma with vascular embolus/carcinoma embolus	3
Mucinous carcinoma	1
Invasive ductal carcinoma with fibroadenoma	1
Metaplastic (squamous cell) carcinoma	1
Metastatic carcinoma with extensive vascular permeation. Fibroadenoma noted	1

RESIDENTS

Invasive/infiltrating ductal carcinoma (with DCIS)	3
Invasive ductal carcinoma with fibroadenoma	2
DCIS with vascular permeation	2
Metaplastic carcinoma (with fibroadenoma and or tumour emboli)	2
Inflammatory and mucinous carcinoma	1
Chronic mastitis ? Plasmacytoma	1

FINAL DIAGNOSIS

Poorly differentiated invasive ductal carcinoma NST with old fibroadenoma

12) 39 year old female with right breast lesion

CONSULTANTS

Mucinous/colloid carcinoma (without or with grade e.g.SBR N2, T3, M1 grade 2)	10
Sclerosing adenosis	1
Invasive ductal carcinoma mucinous type	1
Invasive ductal carcinoma	1

RESIDENTS

Mucinous/colloid carcinoma (without or with grade e.g.SBR N2, T3, M1 grade 2)	5
Invasive ductal carcinoma mucinous/colloid type	2
Colloid carcinoma with invasive lobular carcinoma i.e. mixed	2
Colloid carcinoma with invasive ductal carcinoma i.e. mixed	1
Fibrotic stroma	1

FINAL DIAGNOSIS

Invasive ductal carcinoma with prominent mucin production as distinct from colloid/mucinous carcinoma

13) Breast lump 30 year old female.

CONSULTANTS

Neuroendocrine tumour (carcinoid)	3
Carcinoma with neuroendocrine differentiation/large cell neuroendocrine carcinoma	2
(invasive solid) Papillary adenocarcinoma	2
Glomoid tumour	1
Invasive ductal carcinoma	1
Benign skin adnexal tumour	1
Invasive lobular carcinoma	1
Sclerosing adenosis	1
No answer	1

RESIDENTS

(metastatic) Neuroendocrine tumour (carcinoid)	4
(Invasive ductal) carcinoma with solid neuroendocrine pattern	3
Dermal duct tumour	1
Malignant acrospiroma	1
(invasive solid) Papillary adenocarcinoma	1
Medullary carcinoma	1

FINAL DIAGNOSIS

Solid pattern papillary carcinoma possibly with neuroendocrine features.

14) F 68yrs. New growth in right breast

CONSULTANTS

Granular cell tumour (B2)	6
Inflammatory lesion/xanthogranulomatous mastitis	2
Fibrofatty tissue	1
Fat necrosis	1
Capillary haemangioma	1
Amyloidosis	1
Invasive lobular carcinoma	1

RESIDENTS

Granular cell tumour (B2)	6
No answer	2
Pseudoangiomatous stromal hyperplasia	1
Inflammatory lesion	1
Pleomorphic lipoma/benign fibrohistiocytoma	1

FINAL DIAGNOSIS

Granular cell tumour

15) 35 year old female with a breast lump.

CONSULTANTS

(malignant) Melanoma (metastatic)	11
Granular cell tumour	1
Pigmented dermal naevus	1

RESIDENTS

(malignant) Melanoma	8
Foreign body granulomatous inflammation	1
Atypical granular cell tumour	1
Invasive breast carcinoma with melanocytic differentiation - differential = melanoma	1

FINAL DIAGNOSIS

Metastatic malignant melanoma

16) Adult female Vulval mass requiring total abdominal hysterectomy with bilateral salpingo-oophorectomy, vulval and rectal surgery.

IMMUNOHISTOCHEMISTRY: Tumour cells are completely negative with CD34, CD117, DOG-1, AE1/3, Desmin, S100, Melan A and HMB45.

CONSULTANTS

Leiomyosarcoma	5
MFH/pleomorphic sarcoma	2
Malignant mesenchymal tumour/stromal sarcoma NOS	2
Malignant perivascular epithelioid cell tumour	1
Epithelioid cell sarcoma	1
Post operative spindle cell tumour	1
Fibrosarcoma	1

RESIDENTS

Leiomyosarcoma (poorly differentiated)	5
Fibrosarcoma	2
(high grade) Pleomorphic sarcoma NOS	2
Sarcoma	1
No answer	1

FINAL DIAGNOSIS

High grade pleomorphic sarcoma NOS

17) 31 year old male with left scapular soft tissue swelling.

IMMUNOHISTOCHEMISTRY: Lesional cells weakly express vimentin but are negative with desmin and S-100.

CONSULTANTS

Fibromatosis	3
Fibroma/elastofibroma	3
Low-grade fibromyxoid sarcoma	1
Chondroma/myofibroma	1
Collagenous fibroma	1
Fibromyxoma	1
Myxoid variant of solitary fibrous tumour	1
Nodular fasciitis with marked myxoid features	1
No answer	1

RESIDENTS

Low-grade fibromyxoid sarcoma	3
No answer	2
Schwannoma	2
Myxoid fibroma	1
Fibromyxoma	1
Liposarcoma	1
Aggressive angiomyxoma	1

FINAL DIAGNOSIS

(Intramuscular) soft tissue myxoma

18) Adult male. Swelling on anterior abdominal wall. Similar swelling at same site excised 2 years ago - recurrence. No history of weight loss
 IMMUNOHISTOCHEMISTRY: Tumour cells have a strong uniform expression of CD34 but are negative with S100 and desmin. Ki-67 index is 2%.

CONSULTANTS

Dermatofibrosarcom protuberans	8
Solitary fibrous tumour	2
Gastrointestinal stromal tumour	2
Fibrous histiocytoma	1

RESIDENTS

Dermatofibrosarcom protuberans	4
Dermatofibroma	3
Epithelioid sarcoma	1
Gastrointestinal stromal tumour	1
Solitary fibrous tumour	1
Desmoid tumour	1

FINAL DIAGNOSIS

(Recurrent) dermatofibrosarcoma protuberance

19) 60 year old female, left sinonasal tumour. Blocked nose and ear for 3 months. Associated headaches, recurrent nasal bleeding and tinnitus in both ears.
 IMMUNOHISTOCHEMISTRY: 50% of tumour cells express S100. No expression of EMA or NFP. Ki-67 index less than 5%.

CONSULTANTS

Neurofibroma	4
Malignant peripheral nerve sheet tumour	2
Meningioma	2
Esthesioneuroblastoma	1
Angiofibroma	1
Solitary fibrous tumour	1
Schwannoma	1
Pleomorphic liposarcoma	1

RESIDENTS

Schwannoma	3
(Pleomorphic) rhabdomyosarcoma	2
Neurofibroma	1
Fibromatosis	1
Meningioma	1
Malignant peripheral nerve sheet tumour	1
Sinonasal polyp with atypical stromal cells	1
Myofibroblastic sarcoma	1

FINAL DIAGNOSIS

Neurofibroma exhibiting atypia - to exclude low-grade MPNST by detailed histologic assessment of resected tumour

20) 64 year old male with swelling margin of scar on scalp. Tumour excised from scalp one year ago.
 IMMUNOHISTOCHEMISTRY: Lesional cells express CD31 in a strong and uniform manner but are negative with CD34, AE1/3, S100, Melan A, desmin and SMA.

CONSULTANTS

Angiosarcoma (well-differentiated, epithelioid)	6
Kaposi sarcoma	3
Spindle cell squamous cell carcinoma	1
Kaposiform haemangioendothelioma	1
Trichoepithelioma	1
Epithelioid haemangioendothelioma	1

RESIDENTS

Kaposi sarcoma	4
Dermal (cellular, spindle cell) nevus	3
Haemangioendothelioma	1
No answer	1
Dermatofibrosarcoma protuberans	1
Nodular fasciitis	1

FINAL DIAGNOSIS

Spindle cell variant angiosarcoma

21) 43 year old female with liver tumour involving abdominal structures.
 IMMUNOHISTOCHEMISTRY: Weak and patchy expression of S100. Completely negative with desmin, CD117, DOG-1, AE1/3, HEPPA1, CD31 and pCEA.

CONSULTANTS

Liver cell carcinoma (sarcomatous)/primary liver cell cancer	3
(Round cell) liposarcoma	2
No answer	2
Malignant peripheral nerve sheath tumour (metastatic)	2
Lymphangioma	1
Angiosarcoma	1
Malignant fibrous histiocytoma	1
Epithelioid sarcoma	1

RESIDENTS

Angiosarcoma	3
No answer	2
Langerhan's cell histiocytosis	1
Liver cell carcinoma (sarcomatous)/primary liver cell cancer	1
Haemangiopericytoma	1
Hodgkin's lymphoma (lymphocyte predominance)	1
Rhabdoid tumour	1
Mucinous adenocarcinoma (signet ring)	1

FINAL DIAGNOSIS

High grade epithelioid sarcoma suggestive of epithelioid MPNST

22) 18 year old male with left para pharyngeal/tonsillar mass - excision biopsy.

CONSULTANTS

(Papillary or poorly differentiated) nasopharyngeal carcinoma (undifferentiated Schminke)	7
Synovial sarcoma	2
Malignant melanoma	1
Primitive neuroectodermal tumour	1
No answer	1
Squamous cell carcinoma with a component of adenocarcinoma	1

RESIDENTS

Nasopharyngeal carcinoma (poorly differentiated, undifferentiated)	3
(Poorly differentiated) squamous cell carcinoma	2
No answer	1
Spindle cell carcinoma	1
Sinus histiocytosis	1
Primitive neuroectodermal tumour	1
Pleomorphic sarcoma	1
Synovial sarcoma (biphasic)	1

FINAL DIAGNOSIS

Synovial sarcoma

23) 20 year old male with a left anterior-lateral neck mass x one month. ? Ewing's sarcoma

IMMUNOHISTOCHEMISTRY: Tumour cells express desmin but are negative with NSE, CD99, CD45, synaptophysin, CD34 and S100. Only a very small number of cells express broad spectrum cytokeratins (AE1/3).

CONSULTANTS

Rhabdomyosarcoma	4
Desmoplastic small round cell tumour	2
Phaeochromocytoma	2
Angiomyosarcoma	1
Carcinoma ex pleomorphic adenoma	1
Anaplastic carcinoma of the thyroid gland	1
Haemangiopericytoma	1
Glomus tumour	1

RESIDENTS

Ewing's sarcoma	2
Rhabdomyosarcoma (alveolar)	2
Glomus tumour of uncertain malignant potential	1
Phaeochromocytoma	1
Angiosarcoma (poorly differentiated)	1
Carcinoma ex pleomorphic adenoma	1
Neuroectodermal tumour	1
Desmoplastic small round cell tumour	1
No answer	1

FINAL DIAGNOSIS

Embryonal rhabdomyosarcoma

24) 2 year old male presenting with rapidly enlarging abdominal swelling, recurrent fever and progressive weight loss of 5 weeks duration. Intraoperatively - huge highly vascular left renal tumour adherent to pancreas. ? Clear cell sarcoma.

IMMUNOHISTOCHEMISTRY: Tumour cells express CD99 and vimentin in a strong and uniform manner. There is no expression of NFP, CD34, AE1/3, S100, NSE, desmin or CD45.

CONSULTANTS

(extraskelatal) Ewing sarcoma (PNET)	8
Capillary haemangioma	1
Rhabdomyosarcoma (pleomorphic)	1
Small round blue cell tumour	1
Malignant neuroepithelial tumour of kidney	1
Clear cell sarcoma	1

RESIDENTS

(extraskelatal) Ewing sarcoma (PNET)	6
Rhabdomyosarcoma (pleomorphic)	2
Neuroblastoma	1
Nephroblastoma	1
No answer	1

FINAL DIAGNOSIS

Ewing's sarcoma/primitive neuroectodermal tumour (ideally to be confirmed by molecular methods)

25) 22 year old female presenting with fever and cough and breathlessness for 4 months. No weight loss. Pleural effusion. Exploratory thoracotomy with excision of mediastinal mass.

IMMUNOHISTOCHEMISTRY: the lesional cells are completely negative with desmin, CD34 and S100. There is focal expression in a minority of cells of calretinin especially in the hypocellular areas but no nuclear expression of WT-1. CD99 expression is weak and patchy. There is strong expression in a minority of cells of broad-spectrum cytokeratins (AE1/3) especially in the hypercellular areas.

CONSULTANTS

Mesothelioma (sarcomatoid,, desmoplastic)	8
Schwannoma/peripheral nerve sheet tumour	2
Synovial sarcoma	2
Haemangiopericytoma	1

RESIDENTS

(malignant) Mesothelioma (sarcomatoid,, desmoplastic)	5
Schwannoma/peripheral nerve sheet tumour	2
Malignant peripheral nerve sheet tumour	2
No answer	1
Synovial sarcoma (monophasic)	1

FINAL DIAGNOSIS

Monophasic synovial sarcoma

CONSULTANTS

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