



# South East England General Histopathology EQA Scheme

## Round r Final Case Analyses

Cases 841 to 852

Circulated  
January to February 2022

155 responses (90.64%)

Prepared March 2022

For information on scoring and statistical analysis, please see explanation on our website under section "How the scoring works".

Authorised by:

Prof J Schofield

Date: 28/03/2022

With thanks to those who contributed to this round:

Trust	ISO accreditation number
<b>East Sussex Healthcare NHS Trust</b>	<b>8790</b>
<b>Maidstone and Tunbridge Wells NHS Trust</b>	<b>8062</b>
<b>Mid and South Essex NHS Foundation Trust</b>	<b>7880</b>
<b>Western Sussex Hospitals NHS Foundation Trust</b>	<b>/</b>
<b>Swansea Bay University Health Board</b>	<b>8990</b>
<b>East Kent Hospitals University NHS Foundation Trust</b>	<b>9246</b>
<b>Epsom and St Helier University Hospitals NHS Trust</b>	<b>8626</b>
<b>Kingston Hospital NHS Foundation Trust</b>	<b>8132</b>
<b>Imperial College Healthcare NHS Trust</b>	<b>9615</b>
<b>The Princess Alexandra Hospital NHS Trust</b>	<b>8820</b>
<b>King's College Hospital - NHS Foundation Trust</b>	<b>8620</b>
<b>Guys and St Thomas's NHS Foundation Trust</b>	<b>9323</b>
<b>Frimley Park Hospital NHS Foundation Trust</b>	<b>9727</b>

**Case Number:** 841 [Click here to view digital image](#)

**Diagnostic category:** Miscellaneous

**Clinical** : M59. Destructive lesion within the coccyx

**Specimen** : Core biopsy from Coccyx lesion

**Macro** : Core biopsy

**Immuno** : Immunohistochemistry reveals expression of AE1/3, CK8/18, EMA and Brachyury by the tumour. There is very occasional and weak expression of S100 by scattered cells within the tumour but the vast majority of the tumour cells are negative. The tumour is negative for desmin and CD34.

	<b>Final Merges</b>	<b>Score</b>
1	Chordoma	10.0

**Most popular diagnosis:** Chordoma

**Reported Diagnosis:** Chordoma

**Case Number:** 842 [Click here to view digital image](#)

**Diagnostic category:** Respiratory

**Clinical** : M32. US biopsy lingular mass 18G. New mass lingula. Known breast cancer 2017. New lung cancer?

**Specimen** : Rt Lung biopsy

**Macro** : One fine needle core, grey, cream and slightly yellowish in colour measuring 20mm long.

**Immuno** : POS: CK7, MNF116, CA125 (focal), ER (3+5=8), Gata 3, PR (1+3=4).  
NEG: CK20, CDX-2, TTF1, PSA, HSA, PSAP, Napsin A.

	<b>Final Merges</b>	<b>Score</b>
1	Metastatic breast carcinoma	9.99
2	Primary lung adenocarcinoma	0.01

**Most popular diagnosis:** Metastatic breast carcinoma

**Reported Diagnosis:** [Metastatic breast carcinoma](#)

**Case Number:** 843

[Click here to view digital image](#)

**Diagnostic category:** Breast

**Clinical** : F78. B3 Lesion on previous biopsy

**Specimen** : Breast

**Macro** : Left breast VAE. Fibrofatty tissue 50x30x7mm

**Immuno** : IHC: S100 +ve, ER, PR, p63-ve

	<b>Final Merges</b>	<b>Score</b>
1	Microglandular Adenosis +/-Atypical	<b>9.14</b>
2	Adenomyoepithelioma / myoepithelioma/myofibroblastoma	<b>0.15</b>
3	Acinic cell carcinoma of breast	<b>0.20</b>
4	Invasive ductal carcinoma (and previous biopsy cavity)	<b>0.07</b>
5	Adenomyoepithelial adenosis	<b>0.07</b>
6	Tubular adenosis / adenoma	<b>0.10</b>
7	(Nodular) adenosis	<b>0.24</b>
8	Carcinoma arising in MGA	<b>0.03</b>

**Most popular diagnosis:** Microglandular Adenosis +/- Atypical

**Reported Diagnosis:** [Adenosis, conventional and microglandular types](#)

**Case Number:** 844 [Click here to view digital image](#)

**Diagnostic category:** Endocrine

**Clinical** : F39.Incidental adrenal lesion on CT

**Specimen** : Adrenal Lesion

**Macro** : Haemorrhagic well circumscribed lesion within adrenal

	<b>Final Merges</b>	<b>Score</b>
1	Myelolipoma	9.36
2	Myelofibroma	0.07
3	Extramedullary haematopoiesis	0.50
4	Angiomyolipoma	0.07

**Most popular diagnosis:** Myelolipoma

**Reported Diagnosis:** **Myelolipoma**

**Case Number:** 845 [Click here to view digital image](#)

**Diagnostic category:** Lymphoreticular

**Clinical** : F22. Oriental name. painful raised LN left axilla, ?Reactive

**Specimen** : Lymph Node Left Axilla

**Macro** : A core of tissue, measuring 9 x 2 mm with a diameter of less than 1 mm.

**Immuno** : Occasional small residual follicles are present with CD20. CD3 shows increased T-cells with approximately equal numbers of CD4 and CD8, the latter also staining with TIA.

There are MPO-positive macrophages. CD123 shows numerous plasmacytoid dendritic cells. CD 30 shows scattered activated cells. MUM1 stains only a few plasma cells and lymphoid cells.

ZN, PASD and Warthin-Starry negative for infectious organisms.

	<b>Final Merges</b>	<b>Score</b>
1	Kikuchi lymphadenitis / disease	9.79
2	T cell lymphoma	0.07
3	Infectious mononucleosis	0.07
4	Blastic plasmacytoid dendritic cell neoplasm	0.07

**Most popular diagnosis:** Kikuchi lymphadenitis / disease

**Reported Diagnosis:** [Kikuchi- Fujimoto disease \(proliferative phase\)](#)

**Case Number:** 846 [Click here to view digital image](#)

**Diagnostic category:** Gynae

**Clinical** : F34. Primary subfertility and pain. Fibroid on anterior wall of uterus

**Specimen** : Fibroid

**Macro** : Multiple firm, pale tissue fragments total 20mm maximum. These have a pale solid appearance on sectioning.

**Immuno** : AE1-AE3 and calretinin were positive, BerEP4 was negative.

	<b>Final Merges</b>	<b>Score</b>
1	Adenomatoid tumour +/- Leiomyoma	9.96
2	Multilocular peritoneal inclusion cyst	0.02
3	Benign multicystic mesothelioma	0.02

**Most popular diagnosis:** Adenomatoid tumour +/- Leiomyoma

**Reported Diagnosis:** [Adenomatoid tumour](#)

**Case Number:** 847 [Click here to view digital image](#)

**Diagnostic category:** GI

**Clinical** : F70. Dyspepsia and retrosternal burning. Stomach: nodular mucosa with a whitish coating involving the gastric body.

**Specimen** : Gastric biopsy

**Macro** : Six fragments up to 4mm

	<b>Final Merges</b>	<b>Score</b>
1	Gastric mucosal calcinosis / Calcification	<b>9.07</b>
2	Heterotopic pancreas / pancreatic acinar metaplasia	<b>0.13</b>
3	Foreign material in lamina propria (looks like lanthanum)	<b>0.08</b>
4	Fundic gland polyp	<b>0.08</b>
5	Iron pill gastritis /? siderosis	<b>0.42</b>
6	Malakoplakia / giardiasis / amebiasis	<b>0.03</b>
7	PPI therapy changes	<b>0.10</b>
8	Hypergastrinemia	<b>0.03</b>
9	Normal gastric body mucosa	<b>0.06</b>

**Most popular diagnosis:** Gastric mucosal calcinosis / Calcification

**Reported Diagnosis:** [Gastric mucosal calcinosis](#)



**Case Number:** 848 [Click here to view digital image](#)

**Diagnostic category:** GU

**Clinical** : F54. Left kidney

**Specimen** : Kidney

**Macro** : Left nephrectomy and adrenal gland. Kidney 150x85x80mm with adrenal gland 55x30x20mm. Superior pole of kidney nodular yellow tumour 80x70x70mm. Patchy haemorrhage bulges into perinephric fat. Involves renal vein.

	<b>Final Merges</b>	<b>Score</b>
1	Clear cell renal cell carcinoma	<b>9.59</b>
2	Chromophobe RCC	<b>0.35</b>
3	Adrenal cortical carcinoma	<b>0.05</b>
4	MiT family translocation RCC	<b>0.01</b>

**Most popular diagnosis:** Clear cell renal cell carcinoma

**Reported Diagnosis:** [Clear cell renal cell carcinoma \(Grade 3\)](#)

Case Number: 849 [Click here to view digital image](#)

Diagnostic category: Skin

Clinical : F49. Right chest wall, suspicious subcutaneous lesion

Specimen : Punch biopsy of skin, chest wall

Macro : 4mm punch biopsy of skin, 7mm deep.

Immuno : Pan Keratin - negative, S100 - positive, CD68 - positive

	Final Merges	Score
1	Granular cell tumour	10.0

Most popular diagnosis: Granular cell tumour

Reported Diagnosis: [Granular cell tumour](#)

**Case Number:** 850 [Click here to view digital image](#)

**Diagnostic category:** Endocrine

**Clinical** : M65. Left lower renal pole Bosniak 3 cyst + adrenal lesion

**Specimen** : Adrenal Lesion

**Macro** : Yellow cystic renal tumour 35mm and tan congested nodule in adrenal measuring 20x17x12mm

**Immuno** : Adrenal nodule: Synaptophysin, Chromogranin A and S100 positive;  
Melan A, Calretinin, pancytokeratin (AE1/AE3) negative

	<b>Final Merges</b>	<b>Score</b>
1	Pheochromocytoma	<b>9.79</b>
2	Adrenal hyperplasia	<b>0.07</b>
3	Adenoma	<b>0.13</b>
4	Adrenocortical neoplasm	<b>0.01</b>

**Most popular diagnosis:** Pheochromocytoma

**Reported Diagnosis:** [Adrenal Pheochromocytoma](#)

## EDUCATIONAL CASE

**Case Number:** 851 [Click here to view digital image](#)

**Diagnostic category:** Skin

**Clinical** : M20. ?Blue naevus right forearm. R/O MM

**Specimen** : Right forearm skin

**Macro** : Ellipse 11x8x7mm with 7mm bluish macule and 4mm underlying brown lesion

**Immuno** : Beta catenin + cyclin D1 expressed throughout lesion.

### Suggested diagnoses:

<ul style="list-style-type: none"> <li>• Deep penetrating naevus</li> <li>• Blue naevus</li> <li>• Cellular blue naevus</li> <li>• Deep Penetrating Blue Naevus</li> <li>• Benign naevus</li> <li>• Combined naevus (penetrating / cellular blue)</li> <li>• Dermatitis papulosa nigra</li> <li>• Malignant melanoma</li> <li>• Deep penetrating naevus naevocellularis</li> <li>• Langerhan's pigmented histiocytosis</li> </ul>	<p>x123 x16 x13 x6 x2</p>	
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**Reported Diagnosis:** **Deep penetrating naevus**

## EDUCATIONAL CASE

**Case Number:** 852 [Click here to view digital image](#)

**Diagnostic category:** Respiratory

**Clinical** : M69. Thrombocytopenia - mild anaemia. ?NHL/ ?MDS ?ITP

**Specimen** : BMT

**Macro** : Two pieces of haemorrhagic and cream trephine biopsy the longest piece measures 14mm long

**Immuno** : Positive for CK7, MNF116, TTF1 and Napsin.  
Negative for CK20, CK56, CD56, CDX2, PSA, PSAP, PAX8, OCT34 and p63.

### Suggested diagnoses:

<ul style="list-style-type: none"> <li>• Metastatic lung adenocarcinoma</li> <li>• Metastatic lung carcinoma</li> <li>• Metastatic poorly differentiated carcinoma</li> <li>• Metastatic lung adenocarcinoma with features of MDS in bone marrow</li> <li>• METASTATIC LUNG ADENOCARCINOMA AND MYELODYSPLASTIC SYNDROME</li> <li>• Metastatic TTF1 Positive Adenocarcinoma of Lung Origin</li> <li>• Metastatic adenocarcinoma of lung and marrow hypercellularity? reactive</li> <li>• Bone marrow involvement by metastatic non-small cell lung carcinoma</li> <li>• Metastatic Pulmonary Carcinoma in Bone</li> <li>• Sclerotic adenocarcinoma, immuno profile indicates lung primary, PSA -ve indicates not prostate</li> <li>• Metastatic ca</li> <li>• Adenocarcinoma, lung</li> <li>• Metastatic non-small cell carcinoma</li> <li>• Bone marrow metastatic deposit of primary lung adenocarcinoma</li> </ul>	<p>x107</p> <p>x26</p> <p>x3</p> <p>x3</p> <p>x3</p>	
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**Reported Diagnosis:** **Poorly differentiated adenocarcinoma**