



South East England General Histopathology EQA Scheme

Round z Final Case Analyses

Cases 939 to 948

Circulated
September - October 2024
163 responses (87.17%)

Prepared November 2024

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

Authorised by:

Dr Nipin Bagla

Date: 29/11/24

With thanks to those who contributed to this round:

Trust	ISO accreditation number
Southend University Hospital	7880
Singleton Hospital	8990
Frimley Park Hospital	9727
Royal Sussex County Hospital	9678
The Princess Alexander Hospital	9306
Guys and St Thomas Hospital	9323
Eastbourne District General Hospital	8790
Maidstone Hospital	8062
Worthing Hospital	N/A

****University of Leeds Virtual Pathology provide digital slide scanning and image hosting for the scheme.**

Case Number: 939

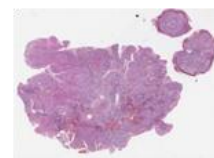
Diagnostic category: GU

Clinical : M48. Penile lesion, proliferative

Specimen : Penile Lesion

Macro : Multiple pieces of soft brown tissue, together in
70x40x20mm

Immuno : P40 positive, P16 negative



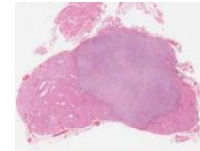
	Final Merges	Score
1	Squamous Cell Carcinoma	9.05
2	No invasion (PeIN / SIL / severe squamous dysplasia)	0.26
3	PeIN / SIL / severe squamous dysplasia - invasion possible. Non HPV	0.49
4	Condyloma Accuminatum	0.21

Most popular diagnosis: Squamous Cell Carcinoma

Reported Diagnosis: Well differentiated squamous cell carcinoma

Case Number: 940

Diagnostic category: Endocrine



Clinical : M64.Multiple pathological left lateral cervical lymph nodes

Specimen : Thyroid

Macro : Thyroid gland weighing in total 28g. Left lobe measures 39x16x20mm, right lobe 45x25x35mm and isthmus 15x14x5mm.
On slicing the left lobe, there is a solid, white lesion measuring 22mm in diameter that is close to the specimen margin. The remaining thyroid tissue appears unremarkable.

	Final Merges	Score
1	Papillary carcinoma	10.00

Most popular diagnosis: Papillary Thyroid carcinoma.

Reported Diagnosis: Papillary Thyroid carcinoma.

Case Number: 941

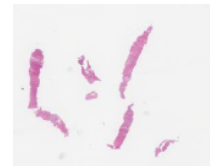
Diagnostic category: Respiratory

Clinical : F59, core biopsy lung. Previous aspergilloma. Right upper lobe opacity (stable)

Specimen : Lung

Macro : Several cores 5-10mm

Immuno : PAS+ / Grocott +ve



	Final Merges	Score
1	Aspergillosis / Fungal infection	9.88
2	Pneumocystis	0.12

Most popular diagnosis: Aspergillosis / Fungal infection

Reported Diagnosis: Recurrent Aspergilloma

Case Number: 942

Diagnostic category: Lymphoreticular

Clinical : M61. Cytopenia, myeloma.? Progression on treatment.

Specimen : Bone Marrow Trephine

Macro : Haemorrhagic core 22mm.

Immuno : CD138 positive cells present (1-2%), do not express CD56, cyclin D1 or CD20. No Light chain restriction.



	Final Merges	Score
1	Leishmaniasis	8.46
2	Histoplasmosis	0.75
3	Parasitic infection	0.25
4	Blastomycosis	0.02
5	Aspergillosis	0.07
6	Smoldering multiple myeloma	0.07
7	Toxoplasmosis	0.01
8	Fungal infection	0.15
9	No evidence of progression. Discuss with haematopathology colleagues	0.14
10	Increased Haematopoeisis. Refer to lymphoma panel	0.07

Most popular diagnosis: [Leishmaniasis](#)

Reported Diagnosis: Leishmaniasis

Case Number: 943

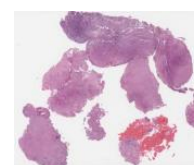
Diagnostic category: Gynae

Clinical : F57. Perimenopausal bleeding. TVS scan shows 8mm ET and submucous fibroids with polyps. Diagnostic hysteroscopy done and multiple polyps removed (friable) and curette is sent

Specimen : Polyp Endometrial curettings

Macro : Bulky tan and haemorrhagic fragments 40mm in aggregate.

Immuno : Positive: CD10, SMA, Desmin, WT1, ER and PR.
Negative: Cytokeratin (A1/3), CD117 and CD34.
Wild type p53 staining.



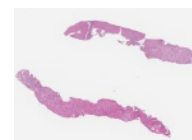
	Final Merges	Score
1	Endometrial stromal sarcoma / nodule / neoplasm	9.81
2	Stromal Poly / Stromal Polyp	0.06
3	Cellular Leiomyoma	0.10
4	Stromo-myoma	0.03

Most popular diagnosis: Endometrial Stromal sarcoma / nodule / neoplasm

Reported Diagnosis: Low grade endometrial stromal tumour (differential diagnosis includes endometrial stromal sarcoma and endometrial stromal nodule)

Case Number: 944

Diagnostic category: GI



Clinical : F70. Evidence of segment 2 HCC currently measuring 19mm.

Specimen : Core of liver

Macro : One core of liver 13mm and 1 mm in diameter.

Immuno : Negative: CK7, CK19, CK20, CAM 5.2, AE1/3, CD10, glypican 3 and CD68.
: Positive: HMB45, MelanA, SMA, calponin and weak CD117

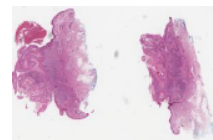
	Final Merges	Score
1	Angiomyolipoma / PEComa	9.44
2	Melanoma	0.19
3	Clear cell sarcoma	0.06
4	Clear cell sugar (epithelial) tumour	0.12
5	Metastatic malignant perivascular epithelioid tumour	0.12
6	PECOMA mets	0.06
7	Neoplasm of uncertain malignant potential - myomelanocytic differentiation	0.01

Most popular diagnosis: [Angiomyolipoma / PEComa](#)

Reported Diagnosis: Angiomyolipoma

Case Number: 945

Diagnostic category: Skin



Clinical : M88. Cyst of sternum

Specimen : Skin

Macro : EOS 11 x 10mm with irregular raised lesion 10 x 5mm.

**THIS CASE HAS BEEN EXCLUDED
FROM PERSONAL ANALYSES**

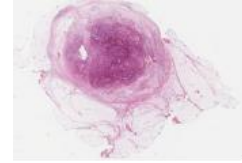
	Final Merges	Score
1	Keratoacanthoma	4.86
2	SCC (keratoacanthoma-like well differentiated)	1.11
3	Hyperplasia / Epidermal Naevus / Acantholytic acanthoma	0.44
4	Squamoproliferative lesion / benign papillary lesion	1.42
5	Seborrhoeic keratosis / inverted follicular keratosis	0.60
6	Viral wart / dermatophyte / granulomatous inflammation / fungal	0.88
7	Warty Dyskeratoma	0.06
8	Lichenoid actinic keratosis	0.42
9	Atypical Squamoproliferative lesion	0.06
10	Ruptured epidermal cyst with inflammation	0.16

Most popular diagnosis: Keratoacanthoma

Reported Diagnosis: Regressing keratoacanthoma

Case Number: 946

Diagnostic category: Breast



Clinical : F70. B3 lump right breast.

Specimen : Breast

Macro : 12g of breast tissue containing a circumscribed grey tumour (17m in diameter)

Immuno : Immuno (in previous biopsy) Positive for CD34, bcl-2, ER, PR. Negative for S100, CK7, MNF116 and SMA.

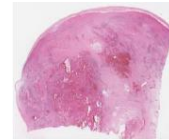
	Final Merges	Score
1	Angiolipoma	0.13
2	(Angio)Myofibroblastoma	8.17
3	Angiofibroma	0.43
4	Haemangiopericytoma / solitary fibrous tumour	0.80
5	Haemangioma	0.26
6	Hamartoma with myofibroblastic component	0.13
7	Benign spindle cell lesion	0.03
8	Pleomorphic hyalinizing angiectatic tumour	0.06

Most popular diagnosis: (Angio)Myofibroblastoma

Reported Diagnosis: Myofibroblastoma

Case Number: 947

Diagnostic category: Miscellaneous



Clinical : M61. Lump left little finger. ?GCT

Specimen : Mass from finger

Macro : 64g. 55 x 50 x 40 mm. Smooth surface.

	Final Merges	Score
1	Schwannoma / Neurilemmoma	7.85
2	Rheumatoid nodule	0.28
3	Giant Cell Tumour / Fibroma of Tendon Sheath / Glomus tumour	0.25
4	Vascular lesions incl haemangioma / AV malformation etc	0.56
5	Epithelioid sarcoma	0.18
6	Massons tumour	0.51
7	Neurofibroma	0.06
8	Organising Thrombus / granuloma annulare / Gout	0.13
9	Angiosarcoma	0.03
10	Pleomorphic hyalinizing angiectatic tumour /bone cyst	0.16

Most popular diagnosis: Schwannoma / Neurilemmoma

Reported Diagnosis: Ancient Schwannoma

Case Number: 948

Diagnostic category: Digital Only – Miscellaneous



Clinical : F73. Bone metastases - biopsied. PET: positive 9mm breast lesion (grade 3 carcinoma with apocrine differentiation Her-2 positive). Previous history of left buccal salivary duct carcinoma (pT2 pN0 with perineural invasion)

Specimen : Bone

Macro : 2 pieces of tissue, the larger measuring 5 x 2mm and the smaller 4 x 2 mm

Immuno : Tumour positive for AE1/AE3, GATA3 and androgen receptor. PSA, P53 and Her-2 negative.

**THIS CASE HAS BEEN EXCLUDED
FROM PERSONAL ANALYSES**

	Final Merges	Score
1	Metastatic Salivary Duct Carcinoma	3.74
2	Metastatic Breast carcinoma	2.91
3	Metastatic carcinoma - clinical correlation required	0.67
4	Metastatic carcinoma - compare with previous (breast or salivary)	0.06
5	Metastatic carcinoma (acinic cell)	0.11
6	Metastatic carcinoma (NOS or not possible to determine breast/salivary)	2.38
7	Metastatic apocrine carcinoma	0.12
8	TCC	0.01

Most popular diagnosis: Metastatic Salivary Duct Carcinoma

Reported Diagnosis: Metastatic carcinoma, favouring metastatic salivary duct carcinoma

EDUCATIONAL CASE

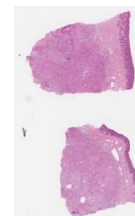
Case Number: 949

Clinical : M34. Soft tissue tumour between UL2 and UL3 anterior maxilla.

Specimen : Maxilla Biopsy

Macro : Punch biopsy 6mm x 5mm depth

Immuno : AE1/3 and Conga Red Positive S100, CD68 and TTF1
Negative Proliferation fraction very low.



<p>Calcifying epithelial odontogenic tumour x 52 Pindborg tumour x 8 Calcifying odontogenic tumour x 8 Calcifying epithelial odontogenic (Pindborg) tumour x 6 Amyloid producing odontogenic tumour x 6 Pindborg tumour (calcifying epithelial odontogenic tumour) x 4 oncocytoma x 4 ameloblastoma x 3 Medullary thyroid carcinoma x 3 Calcifying odontogenic tumour x 2 AMYLOID PRODUCING TUMOUR x 2 Amyloid-producing odontogenic tumour x 3 AMYLOID PRODUCING ODONTOGENIC TUMOUR x 2 Amyloid producing odontogenic tumour (APOT) x 2 Oncocytic tumour x 2 Oncocytic tumour with amyloid x 2 Odontogenic fibroma x 2 Granular cell tumour x 2 Peripheral calcifying epithelial odontogenic tumour Calcifying epithelioid odontogenic tumour Amyloid forming odontogenic tumour amyloid producing oral tumour AMYLOID PRODUCING ODONTOGENIC TUMOUR</p>	<p>Oncocytoma with amyloid deposition Oncocytoma and amyloid Oncocytic tumour of minor salivary gland oncocytic odontogenic tumour Oncocytic carcinoma with amyloid stroma ? Oncocytic tumour with amyloidosis amyloid rich oncocytic polymorphous low-grade adenocarcinoma Metastatic carcinoma Metastatic ca ? metastatic medullary carcinoma thyroid amyloid variant of central odontogenic fibroma central odontogenic fibroma with amyloid Tubuloductal/syringoid variant of odontogenic fibroma with amyloid Granular cell tumour & amyloid paraganglioma paraganglioma with amyloid Epithelioid haemangioendothelioma Squamous cell carcinoma with amyloidosis Benign squamous hamartoma Extensive squamous metaplasia</p>
--	---

Reported Diagnosis: Calcifying epithelial odontogenic tumour.

EDUCATIONAL CASE



Case Number: 950

Clinical : M77. Scalp, 2-month history of fast-growing skin lesion, exophytic and ulcerated.

Specimen : Skin Excision

Macro : Disc of oriented skin measuring 29 x 29 x 5 mm with an ulcerated nodule measuring 20mm in diameter.

Immuno : Positive for SMA, negative for AE1/AE3, Desmin, CD34, factor XIIIa, P40 and SOX10

<p>Pleomorphic dermal sarcoma x 42 Atypical fibroxanthoma x 35 ATYPICAL FIBROXANTHOMA x 12 Leiomyosarcoma x 15 AFX x 7 PLEOMORPHIC DERMAL SARCOMA x 5 Atypical fibroxanthoma/pleomorphic dermal sarcoma x 5 Cutaneous leiomyosarcoma x 4 Fibrosarcoma x 3 dermatofibroma x 3 Spindle cell atypical fibroxanthoma x 2 pleomorphic sarcoma (Atypical fibroxanthoma) x 2 leiomyoma x 2 Myofibroblast sarcoma x 2 Atypical fibroxanthoma (spindle cell variant) Atypical fibroxanthoma, fibroblastic variant Atypical Fibroxanthoma with minimal infiltration into subcutaneous fat Atypical fibroxanthoma with possible subcutaneous fat infiltration pleomorphic dermal sarcoma Superficial pleomorphic dermal sarcoma PLEOMORPHIC DERMAL SARCOMA Pleomorphic dermal sarcoma pleomorphic dermal sarcoma (CD10 marker required)</p>	<p>Pleomorphic dermal sarcoma (as significant extension into subcutaneous fat) pleomorphic dermal sarcoma, NOS PLEOMORPHIC DERMAL SARCOMA, send for expert opinion Malignant spindle cell neoplasm, favour pleomorphic dermal sarcoma Atypical fibroxanthoma / Pleomorphic dermal sarcoma dermal leiomyosarcoma Leiomyosarcoma -Primary or metastatic Leiomyosarcoma Dermal fibrosarcoma Low grade myofibroblastic sarcoma Cutaneous myofibroblastic tumour Undifferentiated Pleomorphic Sarcoma superficial pleomorphic sarcoma Pleomorphic spindle cell sarcoma sarcoma Nodular fasciitis nodular fasciitis spindle cell lesion Melanoma Spindle cell squamous cell carcinoma</p>
--	---

Reported Diagnosis: **Leiomyosarcoma**