

South East England General Histopathology EQA Scheme

Round ZZ Final Case Analyses

Cases 623 to 634

Circulated
September - October 2015

130 responses (91%)

Prepared December 2015

Authorised by:



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Date: 18th December 2015

With thanks to those who contributed to this round:

TRUSTS	CPA/ISO NUMBERS
Kingston Hospital NHS Foundation Trust	912
Royal Surrey County Hospital NHS Foundation Trust	1242
Maidstone & Tunbridge Wells NHS Trust	3060
Epsom & St Helier University Hospital NHS Trust	704
Guys and St Thomas' NHS Foundation Trust	800
Basildon & Thurrock University Hospitals NHS Foundation Trust	1157
King's College Hospital NHS Foundation Trust	1873
Frimley Park Hospital NHS Foundation Trust	1214
Mid Essex Hospital Services NHS Trust	1031
Lewisham & Greenwich NHS Trust	190
Ashford & St Peter's NHS Foundation Trust	

Case Number: 623

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Diagnostic category: GI Tract

Clinical: F61. Microcytic anaemia. Oesophagus normal. Gastritis. Duodenum normal.

Specimen : Duodenal biopsy

Macro : Four pale fragments, the largest is up to 3mm.

	Final Merges	Score
1	Giardia	10.00

Most popular diagnosis: Giardia

Reported Diagnosis: Giardiasis

Case Number: 624[Click here to view digital image](#)**Diagnostic category: GU****Clinical** : 49F. Laparoscopic nephrectomy for ruptured tumour left kidney.**Specimen** : Left kidney**Macro** : Kidney, 150 x 60 x 50mm with attached adrenal gland, 45 x 25 x 12mm and proximal ureter, 45mm long. Slicing reveals a relatively well-circumscribed tumour in the lower pole which has a variegated tan, haemorrhagic cut surface and measures 65 x 65 x 45mm. Focal rupture of the surface capsule by tumour is identified.**Immuno**: The tumour had the following immunoprofile: SMA (+), CALPONIN (+), HMB45 (+), Melan A (+), S100 (-), MNF116 (-), AE1/3 (-)

	Final Merges	Score
1	Angiomyolipoma	9.92
2	Sarcomatoid RCC	0.08

Most popular diagnosis: Angiomyolipoma**Reported Diagnosis: Angiomyolipoma**

Case Number: 625

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Diagnostic category: Breast

Clinical : F62. Left breast mass. Previous ipsilateral breast cancer.

Specimen : Breast

Macro : Skin ellipse 25 x 10mm with underlying fatty tissue 30mm, weighing 4.5g. Clips for radial margins and inked as per protocol (superior-black, inferior-blue, medial-orange, lateral-violet and deep-green). Representative section sent.

Immuno: S100 protein positive in the lesional cells.

	Final Merges	Score
1	Granular cell myoblastoma / tumour	9.86
2	Very good response to chemotherapy	0.06
3	Sclerosing / apocrine adenosis / radial scar	0.08

Most popular diagnosis: Granular cell myoblastoma / tumour

Reported Diagnosis: Granular cell tumour

Case Number: 626

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Diagnostic category: Skin

Clinical : M33. Cystic lesion dorsum right big toe.

Specimen : Skin excision

Macro : Smooth surfaced glistening nodule 12mm diameter. Solid - no cyst.

	Final Merges	Score
1	Angio(leio)myoma	9.41
2	Fibroma of tendon sheath	0.16
3	Leiomyoma	0.43

Most popular diagnosis: Angio(leio)myoma

Reported Diagnosis: Angioleiomyoma

This case has been excluded

Case Number: 627

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Diagnostic category: Gynae

Clinical : F42. Menorrhagia, Polypoidal endometrium.

Specimen : Endometrial curetting

Macro : Moderate tan pieces of tissue together 25mm.

	Final Merges	Score
1	Metaplasia and secretory endometrium	0.86
2	Metaplasia, polyp and hyperplasia	1.72
3	Metaplasia with complex hyperplasia	0.38
4	Complex hyperplasia with squamous morules	1.77
5	Metaplasia with atypical hyperplasia	2.17
6	Complex hyperplasia without atypia	1.11
7	Squamous metaplasia	0.11
8	Atypical polypoid adenomyoma	1.57
9	Atyp hyperplasia up to endometroid ca / carcinoma	0.23
10	Adenomyomatous polyp of endometrium	0.08

Most popular diagnosis: Metaplasia with atypical hyperplasia

Reported Diagnosis: Atypical polypoid adenomyoma fragments within secretory endometrium

This case has been excluded

Case Number: 628

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Diagnostic category: Miscellaneous

Clinical : M71. Lesion right little finger.

Specimen : Lesion right little finger

Macro : A nodule of soft grey tissue 20mm in greatest dimensions
Immuno: SMA and Vimentin positive. MNF116 and desmin negative.

	Final Merges	Score
1	Glomus tumour	10.00

Most popular diagnosis: Glomus tumour

Reported Diagnosis: Benign glomangioma

Case Number: 629

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Diagnostic category: Respiratory

Clinical : F51. Left lower lobe - lung nodule wedged out for histology.
Previous total nephrectomy (2002), but no clinical information was given about this tumour or its histological type.

Specimen : Lung nodule

Macro : Lung nodule wedge resection: weighing 23 grams pre-inflation and measuring 5.8 x 4.5 x 3cm. There is depressed pale yellow area on the pleural surface and slicing this section reveals a firm pale yellow tumour measuring 3cm in maximum. **Immuno**: These cells are arranged in small nests and express vimentin and EMA and are negative for AE1/AE3, CK7, CK20, TTF1, S100, HMB45, Melan A, synaptophysin and chromogranin. There is only focal patchy staining with CD10.

	Final Merges	Score
1	Metastatic RCC	9.78
2	Primary clear cell carcinoma of lung	0.06
3	Epithelioid malignant mesothelioma (clear cell type)	0.08
4	Metastatic carcinosarcoma	0.08

Most popular diagnosis: Metastatic RCC

Reported Diagnosis: Metastatic RCC

Case Number: 630

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Diagnostic category: Lymphoreticular

Clinical : F37. Left cervical lymphadenopathy. ?lymphoma

Specimen : Lymph node

Macro : Lymph node measuring 2 x 1.5 x 1.5cm

	Final Merges	Score
1	Kikuchi's / necrotising lymphadenopathy	8.98
2	NHL	0.08
3	Cat scratch	0.94

Most popular diagnosis: Kikuchi's / necrotising lymphadenopathy

Reported Diagnosis: Kikuchi's lymphadenitis

Case Number: 631

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Diagnostic category: Endocrine

Clinical : M66. Left upper parathyroid. Primary hyperparathyroidism.

Specimen : Parathyroid

Macro : Lobulated fatty tissue 3.9gms measuring 40 x 18 x 8mm. Cut surface is yellow and homogeneous.

	Final Merges	Score
1	Lipoadenoma / parathyroid adenoma	9.14
2	Chief Cell / parathyroid hyperplasia	0.82
3	Hamartoma	0.04

Most popular diagnosis: Lipoadenoma / parathyroid adenoma

Reported Diagnosis: Parathyroid Lipoadenoma

This case has been excluded

Case Number: 632

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Diagnostic category: GI Tract

Clinical : F71. Right orbital mass and abnormal liver function tests.

Specimen : Liver biopsy

Macro : Two brown cores longer 19mm.

	Final Merges	Score
1	Extramedullary haemopoiesis	2.95
2	Amyloid	0.01
3	Other / Lymphoproliferative lesion / cirrhosis	0.29
4	Lymphoma / retinoblastoma / melanoma. Needs immuno	1.18
5	Leukaemia / Lymphoma	4.69
6	Hepatitis	0.26
7	Hairy Cell leukaemia	0.19
8	Viral hepatitis / Infectious mononucleosis	0.24
9	Parasitic infection	0.03
10	No lesion visible / normal liver	0.16

Most popular diagnosis: Leukaemia / Lymphoma

Reported Diagnosis: Extramedullary haemopoiesis

This case has been excluded

Case Number: 633

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Diagnostic category: Educational

Clinical : F53. Right iliac fossa mass. No colonic primary on colonoscopy.
Previous appendicectomy for appendicitis.

Specimen : Right hemicolectomy

Macro : The caecal mesentery contained a firm, lobulated mass measuring 60 x 50 x 45mm. The cut surface was firm, white with a whorled appearance in places. This tumour appeared to be adherent to the terminal ileal and caecal wall. Immuno: The tumour was focally positive for SMA and beta-catenin, and was negative for S100 protein, desmin, H-caldesmon, CD34, CD117, AE1/AE3, EMA, Bcl-2 and CD68. MIB-1 <5%

Suggested diagnoses:

<p>Fibromatosis Desmoid type fibromatosis Intra-abdominal desmoplastic fibromatosis Mesenteric fibromatosis Normal small bowel mucosa-The serosa shows a spindle cell proliferation which appears fibrous?fibromatosis GIST Desmoid tumour Fibromatosis/reactive fibroblastic proliferation post surgery Fibromatosis – deep Histiocytic sarcoma Myofibroblastic tumour Inflammatory myofibroblastoma Intra-abdominal Desmoid Tumour Retroperitoneal fibromatosis STUMP Leiomyoma Inflammatory MFH Solitary fibrous tumour</p>	
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Reported Diagnosis: Intra-abdominal/mesenteric fibromatosis.

EDUCATIONAL CASE

Case Number: 634

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Diagnostic category: Educational

Clinical : M74. ? SCC scalp

Specimen : Skin of scalp

Macro : Ellipse of skin 27 x 25 x 5mm with black nodule 30 x 30mm.

Immuno: Foci of regression. CD68 +ve. AE1/3, CK5, S100, Desmin & CD34 negative.

Suggested diagnoses:

<p>Atypical fibroxanthoma Melanoma Epithelioid angiosarcoma Hemosiderotic Fibrous Histiocytoma Traumatised and ulcerated atypical fibroxanthoma Malignant melanoma Ulcerated atypical fibroxanthoma AFX Superficial undifferentiated pleomorphic sarcoma Atypical fibrous histiocytoma Angiosarcoma Ulcerated AFX Atypical fibro-xanthoma, spindle cell variant Angiosarcoma Benign; Epithelioid fibrous histiocytoma CD68+melanoma Spindle cell melanoma v atypical fibroxanthoma Fibrous histiocytoma (aneurysmal) Poorly differentiated angiosarcoma Epithelioid angiosarcoma Histiocytic tumour ? malignant Spindle cell SCC Histiocytoma Atypical fibrohistiocytoma Spindle cell type of AFX Angiosarcoma but immuno odd</p>	<p>Intraabdominal desmoid tumour</p>
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Reported Diagnosis: Atypical Fibroxanthoma