

South East England General Histopathology EQA Scheme



7808

Round f Final Case Analyses

Cases 695 to 704

Circulated
September – October 2017

139 responses (90.85%)

Prepared December 2018

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With thanks to those who contributed to this round:

Trust	CPA/ISO accreditation number
Guys and St Thomas' NHS Foundation Trust	9323
St George's Healthcare NHS Trust	0356
Brighton & Sussex University Hospital NHS Trust	0779
Colchester Hospital University NHS Foundation Trust	2930
Maidstone & Tunbridge Wells NHS Trust	3060
Surrey & Sussex Healthcare NHS Trust	1814
Epsom & St Helier University Hospital NHS Trust	704
King's College Hospital NHS Foundation Trust	1873
Frimley Park Hospital NHS Foundation Trust	7496
East Sussex Healthcare NHS Trust	3077
Queen Victoria Hospital NHS Foundation Trust	8238

Case Number: 695

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Diagnostic category: Respiratory

Clinical : F68. Left VATS lingula sparing upper lobectomy

Specimen : Lobectomy

Macro : A piece of lung measuring 105mm superior to inferior x 105mm anterior to posterior x 4mm medial to lateral. Immuno: MNF116, CD56, chromogranin & synaptophysin positive on immunostaining.

	Final Merges	Score
1	Neuroendocrine tumour – carcinoid	9.96
2	Paraganglioma	0.04

Most popular diagnosis: Neuroendocrine tumour – carcinoid

Reported Diagnosis: Typical carcinoid tumour

Case Number: 696

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Diagnostic category: GI

Clinical : F25. History of gastric lymphoma one year ago – remission then relapse 2 weeks ago. Underwent RT and second line chemo. Now half day history of abdominal pain – peritonitis.

Specimen : Partial gastrectomy

Macro : A portion of stomach that measures 140 x 110 x 50mm. A polypoid, firm, light brown tumour is identified measuring 40 x 35mm and extending to a height of approx 20mm above the mucosa. On slicing, the tumour is more extensive, is annular and measures 45 x 45 x 45mm. The tumour has replaced the wall of the stomach and focally extends into the attached omental-type tissue.

Immunohistochemistry is positive for CD20, CD79a, bcl-6, Oct-2 & p53
Negative for CD2, CD5, CD10, CD23, bcl-2 & cyclin D1.

	Final Merges	Score
1	Non-Hodgkin B Cell Lymphoma (DLBCL)	9.93
2	NA. “should have been categorised as lymphoreticular”	0.07

Most popular diagnosis: Non-Hodgkin B Cell Lymphoma (DLBCL)

Reported Diagnosis: Diffuse large B cell lymphoma

Case Number: 697

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Diagnostic category: Skin

Clinical : F24. 6/12 history of crusting lesion right wrist following trip to South America.

Specimen : Skin

Macro : 6mm punch bx

	Final Merges	Score
1	Cutaneous Leishmaniasis	8.96
2	Pseudolymphoma	0.07
3	Histoplasma / Cryptococcosis / Exotic fungal-yeast	0.31
4	Granulomatous inflammation. ? leprosy / infective / bite	0.30
5	Acute inflammation in dermis. Not sure	0.07
6	Mycobacterium Ulcerans	0.07
7	Schistosomiasis (prob Mansoni)	0.07
8	Granuloma Annulare	0.06
9	Necrobiosis Lipoidica	0.01
10	Parasite infection. (Chagas disease)	0.08

Most popular diagnosis: Cutaneous Leishmaniasis

Reported Diagnosis: In keeping with Leishmaniasis

This case has been excluded from personal scoring

Case Number: 698

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Diagnostic category: Endocrine

Clinical : F53. Primary hyperparathyroidism. 2cm firm lesion below left lobe of thyroid.

Specimen : Parathyroid

Macro : Dark brown nodule 2.8 x 1.5 x 1cm (2g weight)

	Final Merges	Score
1	Parathyroid adenoma	6.61
2	Parathyroid hyperplasia	0.09
3	Parathyroid Neoplasm (favour adenoma over carcinoma but....)	0.07
4	Parathyroid carcinoma	2.63
5	Atypical Parathyroid adenoma	0.45
6	Parathyroid tumour. ? vascular invasion	0.15

Most popular diagnosis: Parathyroid adenoma

Reported Diagnosis: Parathyroid adenoma

This case has been excluded from personal scoring

Case Number: 699

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Diagnostic category: Gynae

Clinical : F44. Firm lump on side of vulva.

Specimen : Lump at site of Bartholin's gland

Macro : Two irregular pieces of pale tan tissue measuring 25 x 20 x 15mm and 25 x 15 x 13mm. Both bisected.

	Final Merges	Score
1	Nodular Hyperplasia/adenoma of Bartholin's Gland	8.99
2	Bartholin's gland duct obstruction / hamartoma	0.15
3	Mesonephric gland hyperplasia	0.15
4	Aggressive Angiomyxoma	0.01
5	Bartholin's gland mucocele / mucocele like changes	0.49
6	Not sure – show colleague	0.01
7	Adenomyoma of Bartholin's gland	0.04
8	Bartholin's / mucinous cyst	0.10
9	Fibroadenoma	0.07

Most popular diagnosis: Nodular Hyperplasia/adenoma of Bartholin's Gland

Reported Diagnosis: Bartholin's gland hyperplasia

Case Number: 700

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Diagnostic category: Lymphoreticular

Clinical : F35. 2 month history right neck lump. Level 2 and 3 lymph node with microcalcification.

Specimen : Core biopsy lymph node

Macro : Two pale cores 14mm and 15mm.

	Final Merges	Score
1	Metastatic papillary carcinoma (Thyroid)	10.00

Most popular diagnosis: Metastatic papillary carcinoma (Thyroid)

Reported Diagnosis: Papillary carcinoma of the thyroid (metastatic to lymph node)

Case Number: 701

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Diagnostic category: Miscellaneous

Clinical : M54. Previous lung ca

Specimen : Right humerus bone biopsy

Macro : Tissue from right elbow: Six separate pieces of pale grey and greyish brown moderately soft tissue partly covered in haemorrhagic material and the largest measuring 9 x 7 x mm and the smallest 4 x 3 x 2mm. 5-1 AT.

Immunohistochemistry staining patterns show that tumour cells are: Positive for: CK7 and partially positive for CK20. Negative for: PSA, CDX-2, TTF-1 and Napsin.

	Final Merges	Score
1	Metastatic adenocarcinoma	9.67
2	Metastatic melanoma	0.10
3	Metastatic mesothelioma	0.04
4	Metastatic germ cell tumour	0.07
5	Epithelioid angiosarcoma	0.12

Most popular diagnosis: Metastatic adenocarcinoma

Reported Diagnosis: Adenocarcinoma

Case Number: 702

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Diagnostic category: GU

Clinical : M33. Orchidectomy ?malignancy (tumour identified ultrasonically during investigation for azoospermia)

Specimen : Orchidectomy

Macro : Testis 70 x 50 x 38mm with well-circumscribed, tan, solid tumour with multinodular appearance (60mm in maximum dimension).

Immuno: Calretinin & vimentin – strongly positive.

Inhibin, CD56 & Melan A – patchy & variable positivity.

PLAP, CD117, APR, CD30 & Chromogranin – all negative.

Ki67 – 1% positive.

	Final Merges	Score
1	Leydig cell tumour/Sertoli-Leydig/Sex Chord Stromal tumour	9.02
2	Testicular adenomatoid tumour	0.07
3	Sertoli cell tumour	0.23
4	Adult granulosa cell tumour	0.07
5	Spermatocytic seminoma with ITGCN	0.07
6	Adenomatoid tumour	0.07
7	Testicular adrenal rest tumour	0.45

Most popular diagnosis: Leydig cell tumour/Sertoli-Leydig/Sex Chord Stromal tumour

Reported Diagnosis: Leydig cell tumour

Case Number: 703

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Diagnostic category: Breast

Clinical : F50. Breast lump

Specimen : Breast WLE

Macro : Fibrofatty breast disc 62 x 60 x 28mm (weight 44g) with a 27mm ill-defined, hard tumour. *Immuno*: CD117 positive. ER, PR and HER-2 – negative.

	Final Merges	Score
1	Adenoid cystic carcinoma	10.00

Most popular diagnosis: Adenoid cystic carcinoma

Reported Diagnosis: Adenoid cystic carcinoma

This case is excluded from personal scoring

Case Number: 704

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Diagnostic category: GI

Clinical : F65. Left parotid lump

Specimen : Parotid gland

Macro : A firm tan nodule measuring 15mm x 10mm x 6mm

	Final Merges	Score
1	Warthin tumour	5.47
2	Lymphoepithelial cyst	4.26
3	Lymphoepithelial cyst and lymphoepithelial sialadenitis	0.07
4	Benign lymphoepithelial lesion (?HIV related parotid cysts)	0.07
5	Branchial cyst	0.12
6	Lymphoepithelial lesion / Sjogrens	0.01

Most popular diagnosis: Warthin tumour

Reported Diagnosis: Lympho epithelial cyst

This case is excluded from personal scoring

EDUCATIONAL CASE

Case Number: 705

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Diagnostic category: Educational

Clinical : F83. Excision biopsy of lesion from nose.

Specimen : Skin

Macro : Ellipse of skin 8 x 6 x 2mm with central papule 3mm diameter.

Suggested diagnoses:

<p>Trichilemmoma Inverted follicular keratosis Clear cell acanthoma of Degos Desmoplastic Trichilemmoma Basal cell carcinoma Basal cell carcinoma – clear cell type Actinic keratosis with clear cell change Hidradenoma Sebaceous epithelioma Sebaceoma Benign skin appendate tumour most likely Clear cell hidradenoma Skin adenexal tumour Sebaceous cell neoplasm Hamartoma Chondroid syringoma Benign hair follicle tumour Infundibular tumour Trichoepithelioma of the skin Poroid hidradenoma Eccrine spiradenoma Clear cell acanthoma Naevus sebaceous with tricholemmoma, trichoepithelioma, solar elastosis & Demodex Intraepidermal epithelioma (Borst Jadassohn phenomenon) Poroma Clear cell hidradenoma Eccrine poroma/hidroacanthoma simplex Nodular hidradenoma Benign adnexal tumour</p>	<p>Trichoblastoma (previously trichoepithelioma) Sebaceous adenoma Trichilemmoma with desmoplastic central component Benign skin appendate tumour - ?sweat gland origin Chondroid Syringoma Eccrine Poroma Inverted follicular keratosis Hidroacanthoma simplex with clear cell change Eccrine poroma</p>
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Reported Diagnosis: Tricholemmoma

EDUCATIONAL CASE

Case Number: 706

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Diagnostic category: Educational

Clinical : F84. Left mastectomy and axillary dissection for invasive ductal carcinoma.

Specimen : Breast

Macro : Mastectomy with nipple bearing skin and axillary contents

Suggested diagnoses:

Invasive micropapillary carcinoma Micropapillary ductal carcinoma Breast carcinoma – invasive micropapillary type Grade 3 invasive ductal carcinoma with central hyalinised stroma Invasive ductal carcinoma Infiltrating duct carcinoma Macropapillary adenocarcinoma of breast Invasive ductal carcinoma NST and micropapillary Invasive ductal carcinoma (dd neuroendocrine carcinoma) Pleomorphic lobular carcinoma Grade 3 micropapillary carcinoma Malignant, favour infiltrating ductal carcinoma ?micro-papillary (in out carcinoma) ?solid papillary ?other subtype Invasive, ductal and lobular NST + micropapillary carcinoma Mixed ductal and lobular carcinoma Tubulolobular carcinoma	
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Reported Diagnosis: Invasive ductal carcinoma (MOS) mixed with micropapillary carcinoma (more micropapillary component in other blocks up to 30%).