

# South East England General Histopathology EQA Scheme

## Round VV Final Case Analyses

Cases **575** to **586**

Circulated  
May-June 2014

121 responses (88%)

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Authorised by:



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With thanks to those who contributed to this round.

**Case Number:** 575

**Diagnostic category:** Respiratory

**Clinical** : M72. Weight loss, right upper lobe mass, smoker.

**Specimen** : Bronchial biopsy

**Macro** : Multiple pieces of haemorrhagic tissue, in aggregate measuring 10mm.  
Immuno: Tumour is positive for CK5/6 and p63.

	<b>Final Merges</b>	<b>Score</b>
1	Poorly differentiated carcinoma c/w squamous cell ca	8.86
2	Small cell carcinoma	0.81
3	Mixed squamous cell and small cell carcinoma	0.25
4	Lung carcinoma	0.08

**Most popular diagnosis:** Poorly differentiated carcinoma c/w squamous cell  
ca

**Reported Diagnosis:** Poorly differentiated squamous carcinoma

**Case Number:** 576

**Diagnostic category:** Skin

**Clinical** : F25 with annular plaques involving left hand dorsum.

**Specimen** : Skin punch

**Macro** : Single punch biopsy, 5mm in diameter.

	<b>Final Merges</b>	<b>Score</b>
1	<b>Granuloma annulare</b>	<b>9.76</b>
2	<b>Intradermal naevus</b>	<b>0.08</b>
3	<b>Rheumatoid nodule</b>	<b>0.08</b>
4	<b>Pyogenic granuloma</b>	<b>0.08</b>

**Most popular diagnosis:** Granuloma annulare

**Reported Diagnosis:** Granuloma annulare

**Case Number:** 577

**Diagnostic category:** Breast

**Clinical** : F46. Had removal of bilateral ruptured 'PIP' implants earlier this year. Has developed two lumps right lateral breast.

**Specimen** : Lump from right breast

**Macro** : Two well-circumscribed, rubbery pieces of tissue, 20 x 12 x 8mm and 14 x 7 x 6mm; combined weight 2g (larger piece submitted for EQA).

	Final Merges	Score
1	Silicone lymphadenitis	10.00

**Most popular diagnosis:** Silicone lymphadenitis

**Reported Diagnosis:** Silicone lymphadenitis

**Case Number: 578**

**Diagnostic category:** Miscellaneous

**Clinical** : M66. Leuko-erythroblastic blood picture and large atypical cells seen on aspirate.

**Specimen** : Bone marrow

**Macro** : Core of brown tissue 11mm long. Immuno: CD34 negative, CD117 positive, S100 positive.

	<b>Final Merges</b>	<b>Score</b>
1	<b>Metastatic melanoma</b>	<b>8.44</b>
2	<b>Other</b>	<b>0.02</b>
3	<b>Systemic mastocytosis / histiocytosis X</b>	<b>0.25</b>
4	<b>GIST</b>	<b>0.07</b>
5	<b>Dendritic cell sarcoma / malig reticulodendritic proliferation</b>	<b>0.21</b>
6	<b>Leukaemia</b>	<b>0.61</b>
7	<b>Langerhans cell sarcoma</b>	<b>0.04</b>
8	<b>Malignancy requiring IHC / clinical correlation</b>	<b>0.08</b>
9	<b>Multiple myeloma / malignant mast cell disease</b>	<b>0.20</b>
10	<b>High grade anaplastic NHL</b>	<b>0.08</b>

**Most popular diagnosis:** Metastatic melanoma

**Reported Diagnosis:** Metastatic malignant melanoma

## THIS CASE HAS BEEN EXCLUDED FROM PERSONAL SCORES

**Case Number:** 579

**Diagnostic category:** Lymphoreticular

**Clinical** : F77. Right neck lymph node excision ?lymphoma ??metastatic.

**Specimen** : Lymph node

**Macro** : A lymph node 37 x 25 x 18. Slicing showed a nodular yellow cut surface

	<b>Final Merges</b>	<b>Score</b>
1	<b>TB (until proven otherwise)</b>	<b>3.58</b>
2	<b>Hodgkin's lymphoma mentioned in response</b>	<b>4.50</b>
3	<b>Necrotising granulomatous lymphadenopathy</b>	<b>1.83</b>
4	<b>Necrotizing granulomatous lymphadenopathy Kikuchi's</b>	<b>0.09</b>

**Most popular diagnosis:** Hodgkin's lymphoma mentioned in response

**Reported Diagnosis:** Classical Hodgkin lymphoma (mixed cellularity) with prominent tuberculoid granulomatous reaction. No TB isolated on culture

## THIS CASE HAS BEEN EXCLUDED FROM PERSONAL SCORES

**Case Number: 580**

**Diagnostic category:** Endocrine

**Clinical** : F54. Primary hyperparathyroidism.

**Specimen** : Right inferior parathyroid

**Macro** : A piece of tissue weighing 7.5gms and measuring 15 x 11 x 9mm in greatest dimension.

	<b>Final Merges</b>	<b>Score</b>
1	Parathyroid adenoma	9.86
2	Presence of parathyroid tissue confirmed histologically	0.08
3	Parathyroid hyperplasia	0.06

**Most popular diagnosis:** Parathyroid adenoma

**Reported Diagnosis:** Parathyroid adenoma

**Case Number: 581**

**Diagnostic category:** GI Tract

**Clinical** : F43. Microcytic anaemia. Apparent mucosal junction at 43cm from the incisors. Stomach-result of urease test within antrum proved negative for helicobacter pylori. The whole upper gastrointestinal tract was normal.

**Specimen** : Duodenal biopsy

**Macro** : Five pieces of pale tissue measuring 2-4mm.

	<b>Final Merges</b>	<b>Score</b>
1	<b>Strongyloides infestation</b>	<b>8.93</b>
2	<b>Parasitic infection – hook worm</b>	<b>0.58</b>
3	<b>Helminth (Ascaris)</b>	<b>0.25</b>
4	<b>Pin worm</b>	<b>0.08</b>
5	<b>Helminthiasis likely Trichuris Trichura</b>	<b>0.08</b>
6	<b>Parasitic infection, schistosomiasis</b>	<b>0.08</b>

**Most popular diagnosis:** Strongyloides infestation

**Reported Diagnosis:** Strongyloides infection. Hyperinfection should be considered due to the large number of parasites present in the biopsies



## THIS CASE HAS BEEN EXCLUDED FROM PERSONAL SCORES

**Case Number:** 582

**Diagnostic category:** GU

**Clinical** : M32. Testicular tumour.

**Specimen** : Testis

**Macro** : Right orchidectomy specimen weighing 49.5g. The testis measures 5 x 3.5 x 4cm. The lower pole is predominantly solid and partially cystic mass measuring 3.5cm in max diameter. Attached is a 6cm long segment of spermatic cord.

	<b>Final Merges</b>	<b>Score</b>
1	<b>Mixed Seminoma / mature teratoma</b>	<b>7.35</b>
2	<b>Classic seminoma</b>	<b>2.52</b>
3	<b>Spermatocytic seminoma</b>	<b>0.13</b>

**Most popular diagnosis:** Mixed Seminoma / mature teratoma

**Reported Diagnosis:** Combined seminoma & teratoma, mature & immature

## THIS CASE HAS BEEN EXCLUDED FROM PERSONAL SCORES

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**Case Number:** 583

**Diagnostic category:** Miscellaneous

**Clinical** : F30. Hernia sac.

**Specimen** : Hernia sac.

**Macro** : 4 x 2 x 2cm blind-ending sac with partly shiny and white internal lining.  
Wall looks fibro-fatty.

	<b>Final Merges</b>	<b>Score</b>
1	Endometriosis / endosalpingiosis	5.92
2	Other benign lesion	0.01
3	Reactive changes (haemorr, mesothelial hyperp, metaplasia)	2.66
4	Adenomatoid tumour	0.36
5	Myxoid neoplasm	0.08
6	Benign cyst. Insufficient evidence for endometriosis	0.08
7	(Fibrosis / incarcerated) hernia	0.43
8	Atypical endometriosis susp of adenoca / met ca	0.38
9	Borderline serous lesion	0.08

**Most popular diagnosis:** Endometriosis / endosalpingiosis

**Reported Diagnosis:** Endosalpingiosis (+reactive hernia sac changes)

## THIS CASE HAS BEEN EXCLUDED FROM PERSONAL SCORES

**Case Number: 584**

**Diagnostic category:** Gynae

**Clinical** : F45. Menorrhagia.

**Specimen** : Ovary

**Macro** : An ovary measuring 45 x 40 x 40mm. Slicing of the ovary shows a fibrous cut surface and no cysts, necrosis or haemorrhage seen.

	<b>Final Merges</b>	<b>Score</b>
1	Brenner tumour	9.92
2	Transitional Cell adenofibroma	0.08

**Most popular diagnosis:** Brenner tumour

**Reported Diagnosis:** Brenner tumour

## EDUCATIONAL CASE

**Case Number:** 585

**Diagnostic category:** Educational

**Clinical** : M73. Multiple indurated skin plaques, 8mm punch from thicker lesion, ?mycosis fungoides.

**Specimen** : Skin biopsy

**Macro** : Punch biopsy 8mm across and 9mm deep. Immuno: Large cells are strongly positive for CD2, CD56 and CD123, with weak CD4 expression, but negative for CD3. Monoclonal TCR gene rearrangement detected.

### Suggested diagnoses:

<p>Non Hodgkin's lymphoma (T cell lineage) Agranular haematodermic neoplasm Blastic natural killer cell lymphoma (granulocytic sarcoma) High grade lymphoma Blastic plasmacytoid dendritic cell neoplasm Cutaneous T-cell lymphoma/mycosis fungoides NK Cell lymphoma – T cell Lymphoma Blastic NK Cell lymphoma High grade T cell lymphoma Malignant lymphoma, high grade NK/T cell lymphoma, extranodal Malignant High grade T-cell NHL Primary cutaneous follicular lymphoma High grade 'special' cell lymphoma Cutaneous NK lymphoma Primary cutaneous T Cell Lymphoma (not MF) Benign Decidualised Stroma of pregnancy Anaplastic lymphoma Probable cutaneous T cell lymphoma Malignant infiltrate with immuno suggesting NK T cell lymphoma Cutaneous localisation of T cell lymphoma Peripheral T cell leukemia Poorly differentiated tumour ?lymphoma T cell/nullcell/NK cell ?dendritic Plasmacytoid dendritic cell cutaneous lymphoma/leukaemia Cutaneous CD56 positive NK T cell lymphoma Granulocytic sarcoma</p>	<p>Plasmacytoid dendritic neoplasm Peripheral T cell lymphoma Lymphoproliferative disorder with immunoprofile suggestive of Chronic myeloid Leukaemia Skin lymphoma Myeloproliferative disorder consistent with Chronic myeloid Leukaemia Malignant lymphoma Chronic myeloid leukaemia Haematodermic NK lymphoma CML</p>
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**Reported Diagnosis:** Blastic plasmacytoid dendritic cell neoplasm

## EDUCATIONAL CASE

**Case Number:** 586

**Diagnostic category:** Educational

**Clinical** : F30. Lump in omentum at LSCS. Normal ovaries. Omental biopsy.

**Specimen** : Gastrointestinal/Omentum

**Macro** : Firm white nodular tissue 40 x 30 x 15mm, with a thin rim of fat.  
Immuno: Negative staining for DOG-1, p16 and CDK4. Cytogenetics showed rearrangement of ALK gene at 2p23.

### Suggested diagnoses:

<p>Inflammatory myofibroblastic tumour Metastatic lung carcinoma Inflammatory pseudotumour Abdominopelvic low grade myofibroblastic sarcoma Deciduoid malignant mesothelioma Deciduoid peritoneal mesothelioma Malignant Decidua cells implant at caesarean section scar site. There is no evidence of malignancy Decidualised nodule Decidualised IMT Gist Inflammatory myofibroblastoma Decidual change in inflammatory myofibroblastic tumour Leiomyoma / decidualised changes Decidualised leiomyoma Decidualisation Myofibroblastic tumour Spindle cell tumour myofibroblastic tumour Inflammatory pseudo tumour with areas of pseudo decidualisation Decidual Nodule, possibly in leiomyoma, SMA, Desmin for confirmation Decidual Nodule and spindle cell proliferation suggestive of leiomyoma, SMA, Desmin, and S100 needed Inflammatory myofibroblastic tumour with decidual reaction</p>	
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**Reported Diagnosis:** Inflammatory myofibroblastic tumour