

EQA 015 for the Nov 2018 workshops

Analysis of the responses received with final diagnoses

Case 1: Chest biopsy from 52 year old woman with multiple nodular swellings on the body for 6 yrs. Mostly on the trunks. Adherent to overlying skin. Those on the scalp have ulcerated. IHC: strong uniform expression of CD3, patchy expression of CD4 in 20% of cells, patchy expression of CD30 in 10% of cells. Negative with CD20, CD8, CD56, EBV-LMP1 and ALK-1.

CONSULTANTS

| | |
|---|---|
| Peripheral T-cell Lymphoma (CD30 positive) | 2 |
| (Adult) T-cell lymphoma | 2 |
| Hodgkin's lymphoma (mixed cellularity) | 1 |
| Mycosis fungoidis (tumour stage) | 1 |
| Peripheral T-cell Lymphoma, unspecified with cutaneous invasion | 1 |
| Primary cutaneous anaplastic large cell lymphoma | 1 |

RESIDENTS

| | |
|---|---|
| (Primary) Cutaneous T-cell lymphoma (mycosis fungoides) | 8 |
| (Malignant) lymphoma (NHL) | 2 |
| T-cell lymphoma | 2 |
| Mantle cell/zone lymphoma | 2 |
| Anaplastic large cell lymphoma | 1 |
| No answer | 1 |
| Precursor T-cell lymphoblastic lymphoma | 1 |

DIAGNOSIS: High-grade cutaneous T-cell Lymphoma, most-likely tumour stage Mycosis Fungoides 25

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|---|-----------|
| Case 2: Excision left submandibular lymph node in 17yr old male. Previous tonsillectomies suspicious for lymphoma | |
| CONSULTANTS | |
| (mixed variant) Reactive hyperplasia (lymphadenitis) | 3 |
| Burkitt's lymphoma | 1 |
| Progressive transformation of germinal centres | 1 |
| Castleman's disease (hyaline vascular variant) | 1 |
| Nodular lymphocyte predominant Hodgkin's lymphoma | 1 |
| Reactive follicular lymphoma | 1 |
| RESIDENTS | |
| Reactive follicular hyperplasia/lymphadenitis | 10 |
| Castleman's disease (lymphoid type or hyaline-vascular type) | 2 |
| Burkitt lymphoma | 1 |
| Paracortical hyperplasia | 1 |
| NHL - mantle cell lymphoma | 1 |
| No answer | 1 |
| Infectious mononucleosis | 1 |
| DIAGNOSIS: Reactive follicular hyperplasia with progressive transformation of germinal centres | 25 |

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|---|-----------|
| Case 3: Cervical lymph node excision biopsy in 48 yr old female. IHC: CD30, CD45, EMA, CD68 - No HRS cells found. | |
| CONSULTANTS | |
| Follicular dendritic cell tumour/sarcoma | 2 |
| Non-caseating granuloma (lepromatous leprosy) - AFB | 1 |
| Granulomatous lymphadenitis - fungal infection | 1 |
| Sarcoidosis | 1 |
| Reactive lymphoid hyperplasia (sinus type) | 1 |
| Infectious mononucleosis | 1 |
| Chronic granulomatous inflammation | 1 |
| RESIDENTS | |
| (Chronic) granulomatous inflammation | 3 |
| Sinus histiocytosis | 3 |
| Sarcoidosis | 2 |
| Granulomatous lymphadenitis | 2 |
| Metastatic carcinoma to lymphnode | 2 |
| Metastatic mesenchymal tumour (rhabdomyosarcoma) | 1 |
| Toxoplasmosis | 1 |
| Kikuchi-Fujimoto disease | 1 |
| Hodgkin lymphoma (nodular sclerosis) | 1 |
| Rosai Dorfman | 1 |
| DIAGNOSIS: Granulomatous lymphadenitis most likely sarcoidosis | 25 |

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|---|-----------|
| Case 4: 34 yr old male with right cervical lymphadenopathy. IHC: Lesional cells express CD30 and CD15 but are negative with CD45 and EBV-LMP1 | |
| CONSULTANTS | |
| (Nodular sclerosis) Hodgkin's (classical) | 8 |
| RESIDENTS | |
| (Nodular sclerosis) Hodgkin's (classical) | 11 |
| Nodular lymphocyte predominant Hodgkin lymphoma | 3 |
| Follicular lymphoma (floral variant) | 3 |
| DIAGNOSIS: Nodular sclerosis classical Hodgkin's | 25 |

Case 5: Axillary lymph node. 55 yr old man with 2 month history of painless rubbery right axillary lymph nodes. Other nodes in the ipsilateral supraclavicular region. IHC: tumour cells express CD20, BCL-2, CD5 (weakly) and CD23 but are negative with CD10 and cyclin D1. Ki-67 index up to 60% in multiple small foci but 1-3% in most areas.

CONSULTANTS

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|--|---|
| Small cell lymphocytic lymphoma (NHL)(CLL/SLL) | 6 |
| Mantle cell lymphoma | 2 |

RESIDENTS

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|--|----|
| Small cell lymphocytic lymphoma (NHL)(CLL/SLL) | 10 |
| No answer | 3 |
| Small lymphocytic lymphoma/follicular lymphoma | 2 |
| Follicular lymphoma | 1 |
| Mantle cell lymphoma | 1 |

DIAGNOSIS: B- SLL/CLL 25

Case 6: Splenectomy in adult female, big spleen (2.1kg) resulting in pancytopenia. IHC: Tumour cells are negative with CD61, glycoporin, CD117, CD34, CD45, CD79a and AE1/3. They express CD38, CD138 and MUM-1.

CONSULTANTS

| | |
|---|---|
| Multiple myeloma | 2 |
| Plasmacytoma | 2 |
| Extrasosseous plasma cell myeloma (anaplastic type) | 1 |
| Myelofibrosis | 1 |
| Isolated multiple lymphoma | 1 |
| Extramedullary haemopoiesis ? Leukaemia | 1 |

RESIDENTS

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|---|---|
| Myelofibrosis/myelodysplastic syndrome | 4 |
| (Extrasosseous) plasmacytoma | 3 |
| (Splenic) Plasmacytoma | 3 |
| Extra nodal marginal zone B-cell lymphoma with plasmacytoid differentiation | 2 |
| Lymphoplasmacytic lymphoma | 1 |
| Hodgkin's lymphoma | 1 |
| Multiple myeloma | 1 |
| Plasmablastic lymphoma | 1 |
| Diffuse large B-cell lymphoma | 1 |

DIAGNOSIS: Anaplastic variant plasmacytoma (?primary splenic) 25

Case 7: Lymph node right groin ? Lesion sole of foot. IHC, NOT PROVIDED: lesional cells express SMA and Desmin but are negative with HMB45.

CONSULTANTS

| | |
|--|---|
| No answer | 1 |
| Malignant melanoma | 1 |
| Sinus histiocytosis | 1 |
| Angiomyomatous hamartoma | 1 |
| Reactive hyperplasia - dermatopathic lymphadenitis | 1 |
| Kaposi sarcoma | 1 |
| Hodgkin lymphoma | 1 |
| NHL | 1 |

RESIDENTS

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|--|---|
| Metastatic (amelanotic)(desmoplastic) malignant melanoma | 3 |
| Mantle cell/zone lymphoma | 3 |
| No answer | 2 |
| Castleman's disease | 2 |
| Alveolar soft part sarcoma | 1 |
| Metastatic embryoma rhabdomyosarcoma | 1 |
| Low grade myofibroblastic sarcoma | 1 |
| Hodgkin lymphoma | 1 |
| Reactive | 1 |
| Kikuchi disease | 1 |
| Non Hodgkin's lymphoma | 1 |

DIAGNOSIS: Angiomyomatous hamartoma of lymphnode 25

Case 8: Inguinal lymph node. ? Lymphoma. IHC: Tumour cells express CD45, CD30 and CD20. They are negative with CD15, ALK-1, S-100 and broad spectrum cytokeratins.

CONSULTANTS

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|---|---|
| NHL - Diffuse large B-cell lymphoma | 3 |
| Hodgkin's Lymphoma | 2 |
| Nodal involvement by CD30+ cutaneous lymphoproliferative disorder | 1 |
| Reactive hyperplasia | 1 |
| Rosai Dorfman | 1 |

RESIDENTS

| | |
|---|---|
| No answer | 4 |
| (Anaplastic) Diffuse Large B-cell lymphoma | 3 |
| Dermatopathic lymphadenopathy/lymphadenitis | 2 |
| Hodgkin lymphoma | 2 |
| Nodular lymphocyte predominant Hodgkin's lymphoma | 1 |
| Langerhan's cell histiocytosis | 1 |
| Infectious mononucleosis | 1 |
| Benign | 1 |
| Reactive (haemophagocytosis) | 1 |
| Necrotizing lymphadenitis | 1 |

DIAGNOSIS: T-cell/Histiocyte-rich Diffuse Large B-cell Lymphoma 25

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|--|-----------|
| Case 9: Female 35yrs with neck swelling and cough x 1 yr. IHC: Lesional cells are CD30 and CD15 positive but EBV-LMP1 and CD45 negative. | |
| CONSULTANTS | |
| Hodgkin's Lymphoma (classical)(nodular sclerosis)(lymphocyte depleted)(lymphocyte rich) | 8 |
| RESIDENTS | |
| Hodgkin's lymphoma (mixed cellularity) | 5 |
| Tuberculosis coexisting with Hodgkin lymphoma | 2 |
| No answer | 2 |
| Hodgkin's Lymphoma (classical)(nodular sclerosis)(lymphocyte depleted)(lymphocyte rich) | 2 |
| Anaplastic large cell lymphoma | 2 |
| Chronic granulomatous inflammation | 1 |
| Metastatic spindle cell tumour | 1 |
| Metastatic pleomorphic rhabdomyosarcoma | 1 |
| Tuberculosis | 1 |
| DIAGNOSIS: Lymphocyte depletion classical Hodgkin's lymphoma | 25 |

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| Case 10: Inguinal lymph node from 48 yr old man. Also has para-aortic lymph nodes | |
| CONSULTANTS | |
| Castleman's disease (hyaline vascular)(plasma cell type) | 4 |
| Reactive hyperplasia/lymphadenitis | 2 |
| Non-Hodgkin's lymphoma | 1 |
| Hodgkin's Lymphoma | 1 |
| RESIDENTS | |
| Mantle zone/cell lymphoma | 4 |
| Castleman disease | 3 |
| Diffuse large B-cell lymphoma | 2 |
| No answer | 2 |
| Marginal zone lymphoma | 2 |
| Sinus histiocytosis | 1 |
| Small lymphocytic lymphoma | 1 |
| Hodgkin lymphoma | 1 |
| Follicular lymphoma | 1 |
| DIAGNOSIS: Dermatopathic lymphadenitis | 25 |

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|---|-----------|
| Case 11: Supraclavicular lymph node in 60 yr old female. IHC: CD20, CD5, CD163 and Ki-67 provided | |
| CONSULTANTS | |
| No answer | 2 |
| NHL - follicular lymphoma | 2 |
| Rosai-Dorfman disease | 1 |
| Histiocytic sarcoma | 1 |
| NHL ? Type | 1 |
| Follicular hyperplasia | 1 |
| RESIDENTS | |
| No answer | 5 |
| Mantle cell/zone lymphoma | 4 |
| Histiocytic sarcoma | 2 |
| Rosai-Dorfman disease | 1 |
| Sinus histiocytosis | 1 |
| Burkitt lymphoma | 1 |
| Non-Hodgkin's lymphoma | 1 |
| Reactive | 1 |
| Follicular lymphoma | 1 |
| DIAGNOSIS: Kikuchi-Fujimoto histiocytic necrotising lymphadenitis | 25 |

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|---|-----------|
| Case 12: Adult female, lymph node excision biopsy. Reactive lymph node hyperplasia. IHC: lesional cells express CD20, PAX5, CD10, Bcl-6, Bcl2 with Ki-67 index of about 5%. They are negative with CD5 and cyclin D1. | |
| CONSULTANTS | |
| Follicular lymphoma (grade 1) | 7 |
| Marginal zone lymphoma | 1 |
| RESIDENTS | |
| Follicular lymphoma (grade 1) | 10 |
| No answer | 2 |
| B-cell lymphoblastic lymphoma | 1 |
| Molar pregnancy | 1 |
| B-cell lymphoblastic lymphoma | 1 |
| Marginal zone lymphoma | 1 |
| Rosai Dorfman histiocytosis | 1 |
| DIAGNOSIS: WHO grade 1-2 follicular B-cell Non-Hodgkin's lymphoma | 25 |

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|---|-----------|
| Case 13: 82 yr old man. Left supraclavicular lymph node ? lymphoma. IHC: lesional cells express CD20, CD10 and BCL-2 with Ki-67 up to 70% in different foci. They are negative with CD5 with no significant expression of MUM-1. CD23 and CD21 mark neoplastic FDC meshworks. | |
| CONSULTANTS | |
| Follicular lymphoma (grade 3) | 4 |
| No answer | 1 |
| NHL - Diffuse large B-cell lymphoma | 1 |
| Diffuse large B-cell lymphoma DDx follicular lymphoma diffuse form grade 3 | 1 |
| Follicular lymphoma with transformation | 1 |
| RESIDENTS | |
| NHL - Diffuse large B-cell lymphoma | 5 |
| Follicular lymphoma (more aggressive due to more centroblasts)/grade 3A | 4 |
| Mantle cell lymphoma | 2 |
| Diffuse follicular lymphoma | 2 |
| Marginal zone lymphoma | 1 |
| Small lymphocytic lymphoma | 1 |
| No answer | 1 |
| Non-Hodgkin's lymphoma | 1 |
| DIAGNOSIS: WHO grade 3 Follicular lymphoma with areas of transformation to DLBCL | 25 |

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|---|-----------|
| Case 14: 46 yr old man, level 1B (on imaging) pathological lymph node right neck ? TB ? lymphoma. | |
| CONSULTANTS | |
| Reactive hyperplasia (lymphadenitis)(follicular type) | 3 |
| Sinus histiocytosis with lymphadenopathy | 1 |
| Intrafollicular Large cell (B-cell) lymphoma | 1 |
| Angiofollicular lymph node hyperplasia (hyaline vascular variant) | 1 |
| Mantle cell lymphoma | 1 |
| Marginal zone lymphoma | 1 |
| RESIDENTS | |
| Hodgkin's lymphoma; Nodular lymphocyte predominant | 3 |
| Reactive (follicular) hyperplasia | 3 |
| No answer | 3 |
| Hodgkin's lymphoma | 2 |
| Sinus histiocytosis | 2 |
| Progressively transformed germinal centre | 1 |
| Mantle cell lymphoma | 1 |
| Small lymphocytic lymphoma | 1 |
| Chronic granulomatous lymphadenitis | 1 |
| DIAGNOSIS: Reactive lymphnode suggestive of toxoplasmosis | 25 |

Case 15: 69 yr old male with lump in left shoulder. IHC: Lesional cells express CD20, BCL-2, CD5 and cyclin D1 with a Ki-67 index of 15-20%. They are negative with CD10, CD3 and CD23.

CONSULTANTS

| | |
|---------------------------|---|
| Mantle cell lymphoma | 5 |
| Small cell lymphoma (NHL) | 2 |
| Burkitt lymphoma | 1 |

RESIDENTS

| | |
|---------------------------------------|---|
| Mantle cell lymphoma, diffuse pattern | 8 |
| Small lymphocytic lymphoma | 5 |
| Diffuse large B-cell lymphoma | 2 |
| Burkitt lymphoma | 1 |
| No answer | 1 |

DIAGNOSIS: Mantle cell lymphoma 25

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| Case 16: F/27yrs; Endometrial tissue ?Molar gestation. | |
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| CONSULTANTS | |
| Partial mole | 3 |
| Normal products of conception/Non molar gestation | 3 |
| Hydropic abortus | 2 |
| | |
| RESIDENTS | |
| Hydatidiform mole; partial | 4 |
| Retained product of conception | 3 |
| Partial mole | 3 |
| Placental site nodule | 2 |
| Complete mole | 2 |
| Hydropic abortus | 1 |
| No answer | 1 |
| Placenta | 1 |
| | |
| DIAGNOSIS: Normal products of conception | 25 |

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|--|-----------|
| Case 17: F/28YRS; Bleeding per vagina ?Molar gestation. | |
| CONSULTANTS | |
| Product of conception (with Arias stella reaction)/Non molar gestation | 7 |
| Choriocarcinoma | 1 |
| RESIDENTS | |
| Decidua (with Arias stella reaction)(progestational changes) | 4 |
| No answer | 4 |
| Partial mole | 2 |
| (Inflamed) Products of conception | 2 |
| Retained product of conception (and Arias Stella change) | 2 |
| Molar gestation | 1 |
| Exaggerated placental implantation site | 1 |
| Choriocarcinoma | 1 |
| DIAGNOSIS: Normal products of conception | 25 |

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|---|-----------|
| Case 18: F/32yrs; Bleeding per vagina; Product of conception r/o Molar gestation. | |
| CONSULTANTS | |
| Complete mole | 4 |
| Partial (hydatidiform) mole | 2 |
| Stem villi | 1 |
| Hydatidiform mole | 1 |
| RESIDENTS | |
| Complete mole | 8 |
| No answer | 2 |
| Choriocarcinoma | 2 |
| Placental site trophoblastic tumour | 2 |
| Product of conception (foetal membrane) | 2 |
| Partial mole | 1 |
| DIAGNOSIS: Partial hydatidiform mole | 25 |

| | |
|--|-----------|
| Case 19: F/25yrs; Bleeding per vagina; Product of conception | |
| CONSULTANTS | |
| Partial (hydatidiform) mole | 3 |
| Hydatidiform mole (partial) | 2 |
| Recent gestation | 1 |
| Product of conception with focal hydropic change | 1 |
| Hydropic change | 1 |
| RESIDENTS | |
| Partial mole | 8 |
| Complete mole | 2 |
| Hydatidiform mole | 2 |
| Products of conception | 2 |
| No answer | 1 |
| Molar gestationn(p57 IHC recommended) | 1 |
| Hydropic change | 1 |
| DIAGNOSIS: Partial hydatidiform mole | 25 |

Case 20: F/Adult.

CONSULTANTS

| | |
|------------------------------|---|
| Partial (hydatidiform) mole | 4 |
| Hydatidiform mole (complete) | 3 |
| Tubal gestation | 1 |

RESIDENTS

| | |
|------------------------------|---|
| Hydatidiform mole (complete) | 6 |
| Partial (hydatidiform) mole | 5 |
| Hydatidiform mole | 4 |
| No answer | 1 |
| Pre-eclampsia | 1 |

DIAGNOSIS: Complete hydatidiform mole 25

Case 21: F/27yrs; Endometrial tissue.

CONSULTANTS

| | |
|---|---|
| Complete mole | 2 |
| Partial (hydatidiform) mole | 2 |
| Hydropic change | 1 |
| Hydatidiform mole | 1 |
| Placental site trophoblastic tumour | 1 |
| Product of conception with Arias-Stella reaction and hydropic villi | 1 |

RESIDENTS

| | |
|--|---|
| (Normal) Retained products of conception | 7 |
| Hydatidiform mole | 3 |
| Partial mole | 3 |
| Complete mole | 2 |
| Placental site trophoblastic tumour | 1 |
| No answer | 1 |

DIAGNOSIS: Complete hydatidiform mole 25

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| Case 22: F/50yrs; Bleeding per vagina ?Endometrial Carcinoma | |
| CONSULTANTS | |
| Suspicious - repeat biopsy | 1 |
| Exaggerated placental site (reaction) | 1 |
| Inadequate for histological appraisal | 1 |
| No answer | 1 |
| Epithelioid trophoblastic tumour | 1 |
| Placental site trophoblastic tumour | 1 |
| Choriocarcinoma | 1 |
| Acute endometritis | 1 |
| RESIDENTS | |
| Choriocarcinoma | 5 |
| Placental site trophoblastic tumour | 4 |
| No answer | 1 |
| Exaggerated placental site (reaction) | 1 |
| Invasive mole | 1 |
| Abscess | 1 |
| Retained products of conception | 1 |
| Leiomyoma with pyometra | 1 |
| Endometrial carcinoma | 1 |
| Metastatic carcinoma | 1 |
| DIAGNOSIS: Choriocarcinoma | 25 |

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| Case 23: F/40yrs; Bleeding per vagina | |
| | |
| CONSULTANTS | |
| Choriocarcinoma (metastatic, vagina) | 5 |
| Invasive mole | 1 |
| Exaggerated placental site reaction | 1 |
| Leiomyosarcoma | 1 |
| | |
| RESIDENTS | |
| | |
| Choriocarcinoma | 7 |
| Epithelioid trophoblastic tumour | 4 |
| Invasive mole (with endometrial hyperplasia) | 2 |
| Placental site trophoblastic tumour | 1 |
| Granular cell tumour | 1 |
| Endometrial carcinoma | 1 |
| No answer | 1 |
| | |
| DIAGNOSIS: Choriocarcinoma | 25 |

Case 24: F/Adult; Anterior vaginal mass biopsy.

CONSULTANTS

Choriocarcinoma (metastatic)

7

Undifferentiated carcinoma

1

RESIDENTS

Choriocarcinoma

11

No answer

4

(Non-keratinising) Squamous Cell Carcinoma

2

DIAGNOSIS: Choriocarcinoma

25

| | |
|---|-----------|
| Case 25: F/Adult; Bleeding per vagina ?Molar gestation. | |
| | |
| CONSULTANTS | |
| Choriocarcinoma | 6 |
| Clear cell carcinoma | 1 |
| No answer | 1 |
| | |
| | |
| RESIDENTS | |
| Choriocarcinoma | 14 |
| No answer | 1 |
| Complete mole | 1 |
| Placental site trophoblastic tumour | 1 |
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| | |
| DIAGNOSIS: Choriocarcinoma | 25 |

| CONSULTANTS | |
|-----------------------------|--------------|
| Nas | DonaldTrump |
| JEWELS | daudee84 |
| kpeb 22 | Ajoke |
| Sophie | IFE |
| RESIDENTS | |
| OA | Adi888 |
| SQUARE | Tomi |
| Maverick | Bond 007 |
| Xinus | AKPOMIEMIE 1 |
| Recena2076 | Chyke82 |
| H.M | tara |
| OT2 | C5012 |
| OI10 | Code |
| Reana2076 | |
| TOWNS/CITIES/STATES/REGIONS | |
| Nnewi/Anambra | Adamawa |
| Lagos | Kumasi |
| Benin | Kaduna |
| Zaria | Jos |
| Ibadan | Enugu |
| | |