

**Ghana and Nigeria National Diagnostic Histopathology EQA circulation 015 (For the November 2018 TSL workshops). Mastersheet**

**Part I: Lymph nodes/lymphoma pathology**

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. **DIAGNOSIS:** high-grade cutaneous T-cell lymphoma, most likely tumour stage mycosis fungoides. Clinical correlation required to exclude lymphomatoid papulosis. Also consider primary cutaneous Anaplastic large cell lymphoma.
2. Excision left submandibular lymph node in 17yr old male. Previous tonsillectomies suspicious for lymphoma. **DIAGNOSIS:** Reactive follicular hyperplasia with progressive transformation of germinal centres.
3. Cervical lymph node excision biopsy in 48 yr old female. **IHC:** CD30, CD45, EMA, CD68 - **No HRS cells found.** **DIAGNOSIS:** Granulomatous lymphadenitis most likely sarcoidosis.
4. 34 yr old male with right cervical lymphadenopathy. **IHC:** Lesional cells express CD30 and CD15 but are negative with CD45 and EBV-LMP1. **DIAGNOSIS:** nodular sclerosis classic Hodgkin's lymphoma.
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. **DIAGNOSIS:** B – CLL/SLL
6. Splenectomy in adult female, big spleen (2.1kg) resulting in pancytopenia. **IHC:** Tumour cells are negative with CD61, glycophorin, CD117, CD34, CD45, CD79a and AE1/3. They express CD38, CD138 and MUM-1. **DIAGNOSIS:** (?primary) splenic plasmacytoma – anaplastic variant.
7. Male 70yrs. Lymph node right groin ? Lesion sole of foot. **IHC, NOT PROVIDED:** lesional cells express SMA and Desmin but are negative with HMB45. **DIAGNOSIS:** Angiomyomatous hamartoma of lymph node
8. Male 54 yrs. 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. **DIAGNOSIS:** TCHR - DLBCL (may be grey zone btw DLBCL and classical Hodgkin's lymphoma).
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. **DIAGNOSIS:** Lymphocyte depletion classical Hodgkin's lymphoma.
10. Inguinal lymph node from 48 yr old man. Also has para-aortic lymph nodes. **DIAGNOSIS:** Dermatopathic lymphadenitis.
11. Supraclavicular lymph node in 60 yr old female. **IHC:** CD20, CD5, CD163 and Ki-67 provided. **DIAGNOSIS:** Kikuchi-Fujimoto histiocytic necrotising lymphadenitis (clinically exclude SLE).
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. **DIAGNOSIS:** WHO grade 1-2 follicular B-cell non-Hodgkin's lymphoma.
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.

**DIAGNOSIS:** High grade follicular with areas of transformation to DLBCL.

14. 46 yr old man, level 1B (on imaging) pathological lymph node right neck ? TB ? lymphoma.

**DIAGNOSIS:** Reactive lymph node – toxoplasmosis.

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.

**DIAGNOSIS:** Mantle Cell Lymphoma.

## **Part II: Gestational Trophoblastic disease**

16. F/27yrs; Endometrial tissue ?Molar gestation. **DIAGNOSIS:** normal products of conception

17. F/28YRS; Bleeding per vagina ?Molar gestation. **DIAGNOSIS:** normal products of conception

18. F/32yrs; Bleeding per vaginam; Product of conception r/o Molar gestation. **DIAGNOSIS:**

Partial hydatidiform mole

19. F/25yrs; Bleeding per vaginam; Product of conception. **DIAGNOSIS:** Partial hydatidiform

mole

20. F/Adult. **DIAGNOSIS:** Complete hydatidiform mole

21. F/27yrs; Endometrial tissue. **DIAGNOSIS:** Complete hydatidiform mole

22. F/50yrs; Bleeding per vaginam ?Endometrial Carcinoma. **DIAGNOSIS:** choriocarcinoma

23. F/40yrs; Bleeding per vaginam. **DIAGNOSIS:** choriocarcinoma

24. F/Adult; Anterior vaginal mass biopsy. **DIAGNOSIS:** choriocarcinoma

25. F/Adult; Bleeding per vagina ?Molar gestation. **DIAGNOSIS:** choriocarcinoma