

Coding stage – Session 5

Haematological Malignancies

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Lugano classification

- The current Lugano staging classification for Lymphoma is a **modification** of the Ann Arbor classification
 - Consensus conference, Lugano, 2012
- Previously used staging laparotomy and the resulting pathological staging classification = obsolete
- The Lugano classification is also used to evaluate response to therapy



Clinical Staging – Hodgkin Lymphoma

- Modified Ann Arbor Classification
- Determined by:
 - History, clinical examination,
 - Imaging
 - Blood analysis, initial biopsy report, bone marrow biopsy
- Lymphatic structures
 - Lymph nodes => are grouped into regions and 1 or > may be involved

•



Lymphatic regions above the diaphragm

2

6

Lymphatic regions below the diaphragm

16

13

17. Splenic and splenic hilar

- Splenic lymph node, NOS

18. Left pelvic and iliac lymph nodes

- L Inferior epigastric lymph node

- L Hypogastric lymph node

- L Intrapelvic lymph node

- L Obturator lymph node

- L Paracervical lymph node

- L Presymphysial lymph node

- L Parametrial lymph node

- L Sacral lymph node

19. Left inguinal and femoral

- L Femoral lymph node

L Inguinal lymph node

- L Lymph node of groin

- L Lymph node of Cloquet

- L Lymph node of lower limb

- L Subinguinal lymph node

- L Popliteal lymph node

- L Tibial lymph node

20. Left popliteal

L Lymph node of Rosenmuller

L Internal iliac

(External iliac)

- Splenic hilar lymph node

Spleen

1. Waldeyer's Ring

- Oropharynx (palatine tonsil)
- Nasopharynx (palatine tonsil)
- Adenoids
- Base of tongue (lingual tonsil)

2. Right cervical, supraclavicular, occipital and pre-auricualar

- R Auricular lymph node
- R Cervical lymph node
- R Facial lymph node
- R Jugular lymph node
- R Mandibular lymph node
- R Occipital lymph node
- R Parotid lymph node
- R Preauricular lymph node
- R Prelaryngeal lymph node
- R Pretracheal lymph node
- R Retropharyngeal lymph node
- R Scalene lymph node
- A Scalerie lymph houe
- R Sublingual lymph node
- R Submandibular lymph node
- R Submaxillary lymph node
- R Submental lymph node
- R Supraclavicular lymph node

3. Right infraclavicular

- R Infraclavicular lymph node
- R Subclavicular lymph node

4. Right axillary and pectoral lymph nodes

- R Axillary lymph node
- R Pectoral lymph node
- R Subscapular lymph node
- R Internal mammary

5. Right epitrochlear and brachial

- R Brachial lymph node
- R Cubital lymph node
- R Epitrochlear lymph node

6. Hilar

- Bronchial lymph node
- Bronchopulmonary lymph node
- Hilar lymph node
- Pulmonary hilar lymph node

7. Mediastinal

- Diaphragmatic lymph node
- Esophageal lymph node
- Innominate lymph node
- Intercostal lymph node
- Mediastinal lymph node
- Parasternal lymph node
 Paratrachael lymph node
- Paratrachaenymphin
- Peritrachael lymph node
- Pulmonary lymph node, NOS
- Thoracic lymph node
- Tracheal lymph node
- Tracheobronchial lymph nodeSubaortic lymph node (para-aortic)
- 8. Left cervical, supraclavicular, occipital and pre-auricualar
 - L Auricular lymph node
 - L Cervical lymph node
 - L Facial lymph node
- L Jugular lymph node
- L Mandibular lymph node
- L Occipital lymph node
- L Parotid lymph node
- L Preauricular lymph node
- L Prelaryngeal lymph node
- L Pretracheal lymph node
- L Retropharyngeal lymph node
- L Scalene lymph node
- L Sublingual lymph node
- L Submandibular lymph node
- L Submaxillary lymph node
- L Submental lymph node
- L Supraclavicular lymph node

9. Left infraclavicular

- L Infraclavicular lymph node
- L Subclavicular lymph node

10. Left axillary and pectoral lymph nodes

- L Axillary lymph node
- L Pectoral lymph node
- L Subscapular lymph node
- L Internal mammary

11. Left epitrochlear and brachial

- L Brachial lymph node
- L Cubital lymph node
- L Epitrochlear lymph node

12. Mesenteric

- Abdominal lymph node
- Colic lymph node
- Gastric lymph node
- Ileocolic lymph node
- Inferior mesenteric lymph node
- Intestinal lymph node
- Mesenteric lymph node
- Midcolic lymph node
- Superior mesenteric lymph node

13. Right pelvic and iliac lymph nodes

R Hypogastric lymph node

- R Obturator lymph node

- R Paracervical lymph node

- R Parametrial lymph node

- R Sacral lymph node

14. Right inguinal and femoral

- R Femoral lymph node

- R Inguinal lymph node

- R Lymph node of groin

- R Popliteal lymph node

- R Tibial lymph node

- Aortic lymph node

- Celiac lymph node

- Lumbar lymph node

- Pyloric lymph node

- Hepatic lymph node

- Portal lymph node

- Pancreatic lymph node

Para-aortic lymph nodePeri-aortic lymph node

- Peripancreatic lymph node

Retroperitoneal lymph node

- Common duct lymph node

- Porta hepatic lymph node

15. Right popliteal

16. Paraaortic

- R Lymph node of Cloquet

- R Lymph node of lower limb

- R Subinguinal lymph node

- R Lymph node of Rosenmuller

- R Presymphysial lymph node

- R Internal iliac
- R Inferior epigastric lymph node (External iliac)
 R Intrapelvic lymph node

Clinical Staging – Hodgkin Lymphoma

- Lymphatic structures
 - Lymph nodes => are grouped into regions and 1 or > may be involved
 - Waldeyer ring
 - Spleen (S)
 - Appendix
 - Thymus
 - Peyer patches
- Extralymphatic organs: (E), => Other than the lymphatic structures mentioned above
 - Lung involvement? Specific definition of 'localized involvement' versus diffuse!
 - Liver involvement => is always considered as 'diffuse extralymphatic disease'



Lugano classification: Hodgkin Lymphoma

Limited Stage

• Stage I

Involvement of a single lymph node region (I), or localized involvement of a single extralymphatic organ or site (IE).

Stage II

Involvement of \geq 2 lymph node regions on the same side of the diaphragm (II), *OR localized* involvement of a single extralymphatic organ or site and its regional lymph node(s) +/- involvement of other contiguous lymph node regions on the same side of the diaphragm (IIE).

• Bulky Stage II

Stage II disease with a single nodal mass > than 10 cm in maximum dimension **or** greater than a 1/3 of the thoracic diameter as assessed on CT.



Lugano Classification: Hodgkin lymphoma (2)

Advanced Stage

Stage III

Involvement of lymph node regions on both sides of the diaphragm (III), +/- involvement of the spleen (IIIS)

Stage IV

Disseminated (**multifocal**) **involvement** of ≥ 1 extralymphatic organs, +/- associated lymph node involvement; or non-contiguous extralymphatic organ involvement with involvement of lymph node regions on the same or both sides of the diaphragm.

A and B Classification (Symptoms)

1. Unexplained weight loss of more than 10% of the usual body weight in the 6 months prior to first attendance

2. Unexplained fever with temperature above 38 °C

3. Night sweats

Note: Pruritus alone does not qualify for B classification, nor a short febrile illness associated with a known infection



Lugano classification: Non-Hodgkin Lymphoma

- Also Lugano classification
- No A and B classification
- Only adults
- Stage II disease, bulk definition:
 - >6 cm in Follicular Lymphoma
 - >10 cm for Diffuse Large Cell Lymphoma



Non-Hodgkin lymphoma – (Paediatric)

- Tier 1
 - Advanced: Involvement of bone marrow and/or CNS
 - Limited: No involvement of bone marrow or CNS
- Tier 2: The St Jude/Murphy system is recommended
 - Stage I Involvement of a **single tumour mass or nodal area**, excluding the mediastinum and abdomen
 - Stage II Involvement of a single tumour mass with regional node(s) or two or more tumours and/or nodal regions on the same side of the diaphragm, or a completely resected primary GI tract tumour +/-regional nodal involvement
 - Stage III Tumour masses and/or regional nodes on opposite sides of the diaphragm or primary intrathoracic tumour (mediastinal, pleural or thymic) or extensive primary intra-abdominal disease or paraspinal tumour or epidural tumour
 - Stage IV Involvement of **bone marrow** and/or **central nervous system**



Other haematological staging systems

• Myeloma

- (Revised) International Staging System: (R)ISS 2015: Stage I-III, based on:
 - The amount of albumin in the blood
 - The amount of beta-2-microglobulin in the blood
 - The amount of LDH in the blood
 - The specific gene abnormalities (cytogenetics) of the cancer.
- Durie Salmon : amount of myeloma and 'damage' it has caused (anemia, bone disease)

• CLL

- BINET stage
 - Binet stage A: Fewer than 3 areas of lymphoid tissue are enlarged, with no anemia or thrombocytopenia.
 - Binet stage B: 3 or more areas of lymphoid tissue are enlarged, with no anemia or thrombocytopenia.
 - Binet stage C: Anemia and/or thrombocytopenia are present. Any number of lymphoid tissue areas may be enlarged
- RAI : divides CLL into 5 stages based on the results of blood tests and a physical examination

