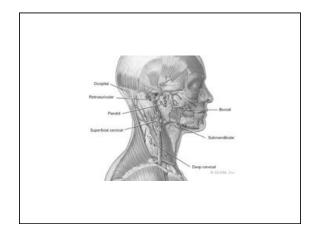


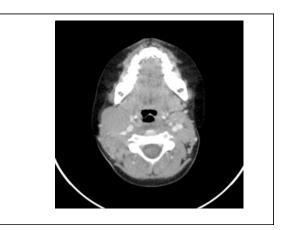
Statistical facts of 2007 in U.S

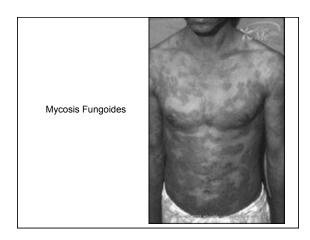
- 71,380 cases of NHL
- 8190 cases of H.D
- 5th most common cancer in males and females in the U.S
- Age adjusted incidence rose by 84% from 1974-2004
- Incidence increases by age

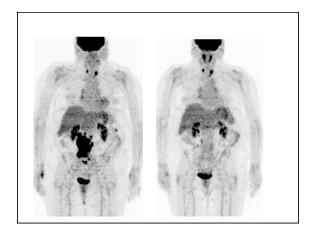
Clinical Features

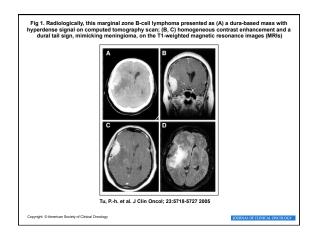
- · Enlarged lymph nodes
- Weight loss
- Fever
- Night sweats
- Itching

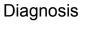




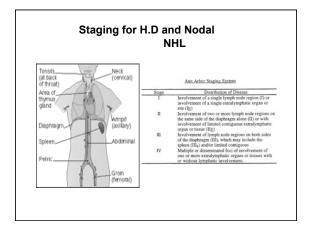


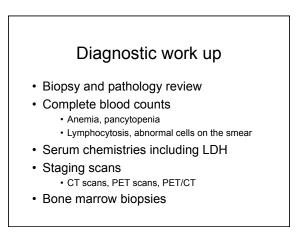






- Tissue biopsy must be an adequate sample with intact tissue architecture
 Excision biopsies
 - Core biopsy
- Fine needle aspirate acceptable only for recurrent disease or for hard to reach areas

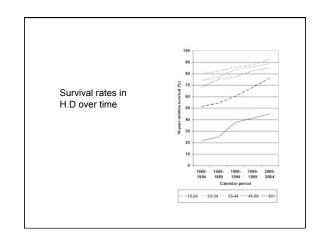




Classification of Hodgkin's Disease Hodgkin's Disease/Lymphoma Туре Percentage Nodular sclerosing • 55 · Mixed cellularity 25 Lymphocyte rich classical • 5 Characterized Hodgkin's disease by the Lymphocyte depleted • 2 presence of Reed Not classifiable • 5 Sternberg cell

Hodgkin's Disease

- Curable in over 85% of cases
- Combination of chemotherapy and radiation therapy
- · Monitor for secondary malignances



Hodgkin's Lymphoma

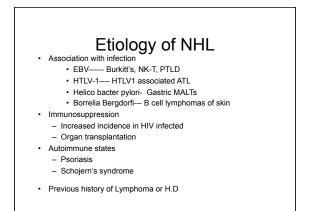
- · Different pattern of growth
- · Response to therapy is different
- Curable in over 85% of cases with a combination of chemotherapy and radiation
- Monitor for secondary malignancies

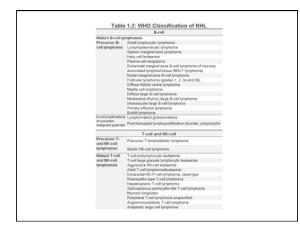
Relative frequency of Non-Hodgkin's lymphomas

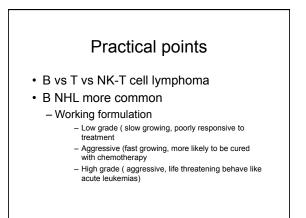


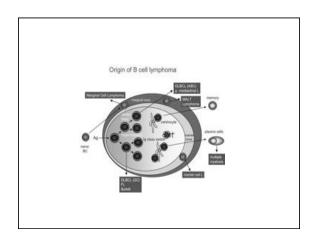
NHL

Clonal expansion of B, T or NK cells Arise from lymph nodes or any lymphoid tissue including brain, skin, breast









Prognosis of NHL

- Histological subtype determines clinical behavior and prognosis
- Accurate diagnosis
- · Staging
- Age
- LDH
- Performance status
- Other prognostic factors unique to histological subtype

Immunophenotyping

- B cell malignanices—CD19, CD20, kappa/ lambda light chain restriction
- Tcell malignancies-----CD3, CD4, CD5, CD4, CD8, Tcell gene rearrangements
- NK-T cell---- CD56, CD16 usually EBV positive

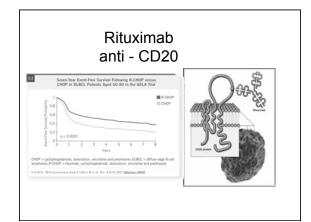
Diffuse large B cell lymphoma vs Follicular lymphoma

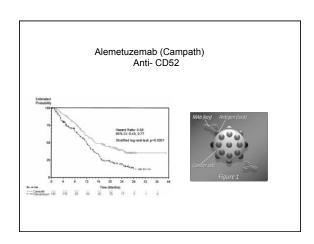
Treatment

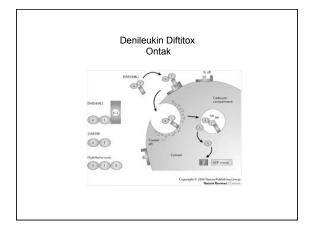
- Tailored to the type of NHL
- B cells vs T cells
 - Different therapeutic approaches
- Low grade vs aggressive or high grade • Immediate treatment vs wait and watch
- · General condition of the patient
- Site of origin
 - Skin
 - brain

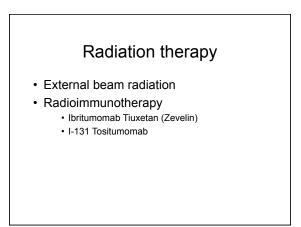
Chemotherapy

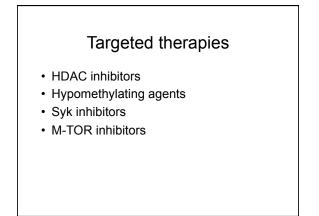
- Combination chemotherapy has shown the best results for both HD and NHL
- · Most active drugs are
 - Alkylating agents
 - Anthracyclins
 - Topoisomerase I and II inhibitors
 - Steroids











Principles of Underlining Cure by BMT

1. AUTOLOGOUS

2. ALLOGENEIC

Ablation of host normal hematopoiesis and malignancy (hematologic and solid tumor) Re-establishment of host hematopoeisis Host immune reconstitution (stem cell derived)

Ablation of host hematopoiesis, normal and malignant Re-establishment of donor hematopoiesis Donor immune resconstitution (stem cell derived) Donor anti-tumor effect (GVL)

