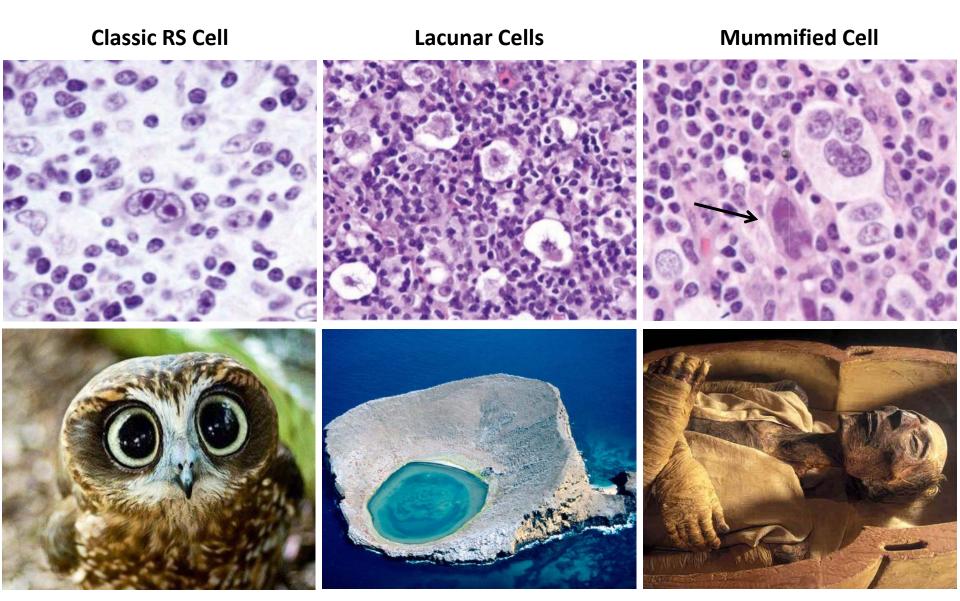
Hodgkin Lymphoma

- Lymphoid neoplasm derived from germinal center B cells.
- Neoplastic cells (i.e. Hodgkin/Reed-Sternberg/LP cells) comprise the *minority* of the infiltrate.
- Non-neoplastic background inflammatory cells comprise the *majority* of infiltrate.
- Two biologically distinct types:
 - 1. Classical Hodgkin Lymphoma (CHL)
 - 2. Nodular Lymphocyte Predominant Hodgkin Lymphoma (NLPHL)

Classical Hodgkin Lymphoma

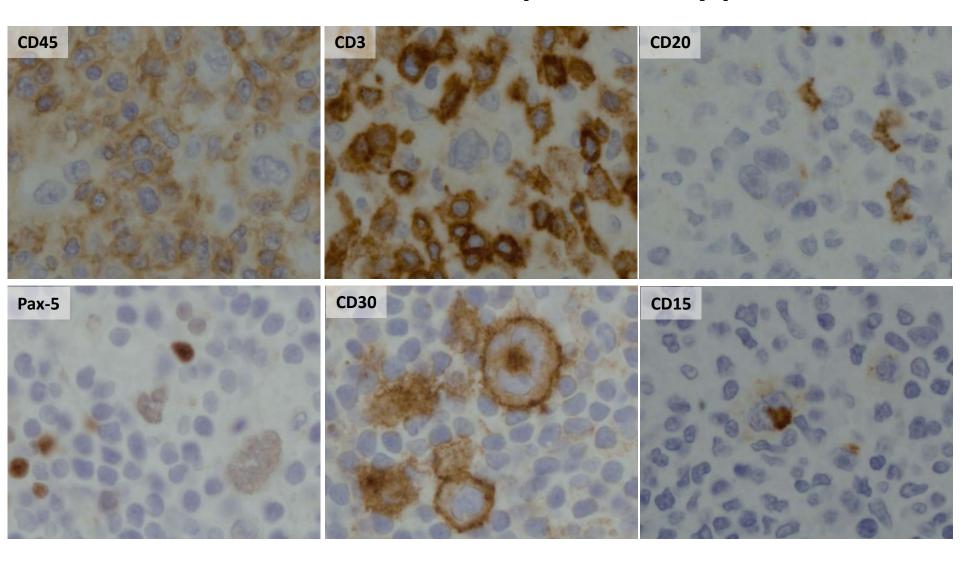
- Neoplastic B (Hodgkin) cells are often take the form of Reed-Sternberg cells or variants
 - Classic RS, mummified and lacunar cells.
- The majority of background, non-neoplastic small lymphocytes are T cells.
- Unique immunophenotype that differs from most B cell lymphomas.
- Divided into 4 histologic subtypes according to the background milieu:
 - Nodular Sclerosis
 - Mixed Cellularity
 - Lymphocyte Rich
 - Lymphocyte Deplete

CHL - RS Cell Variants

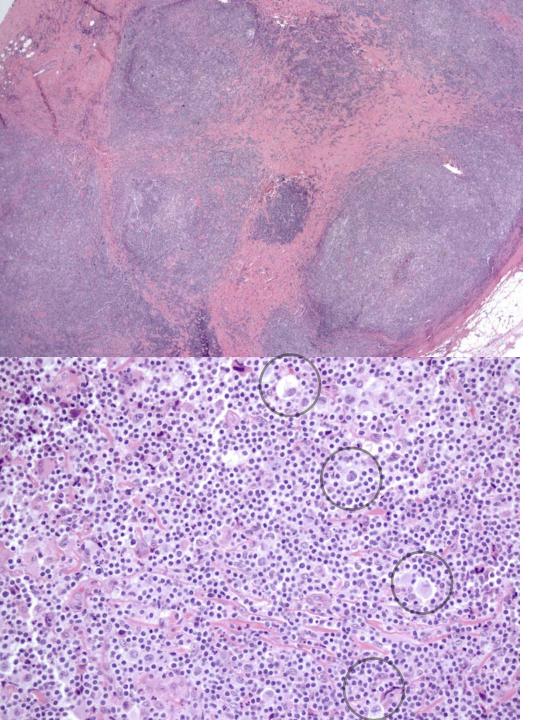


Hsi ED and Golblum JR. Foundations in Diagnostic Pathology: Hematopathology. 2nd Ed. 2012

CHL - Immunophenotype

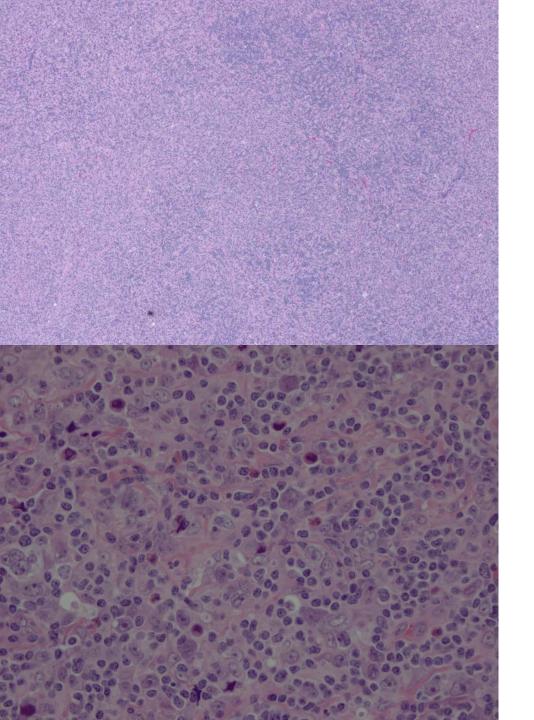


CHL - Histologic Subtypes



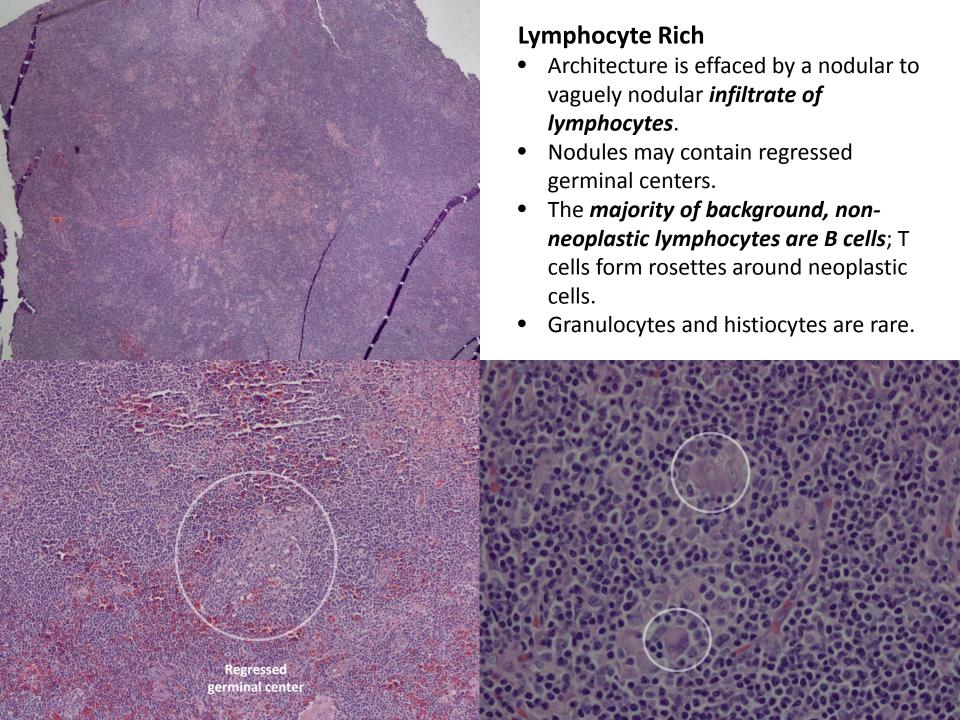
Nodular Sclerosis

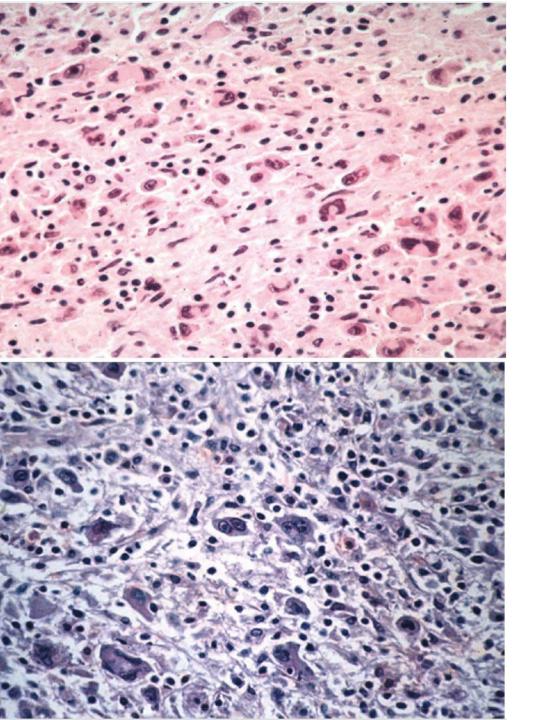
- Architecture is effaced by prominent nodules separated by dense bands of collagen.
- Mixed inflammatory infiltrate composed of T cells, granulocytes, and histiocytes.
- *Lacunar variants* are the predominant form of RS cells.



Mixed Cellularity

- Architecture is effaced by a more diffuse infiltrate without bands of fibrosis.
- Background of lymphocytes, plasma cells, histiocytes and eosinophils.
- Approximately 75% of cases are *positive for EBV*-encoded RNA or protein (LMP1)



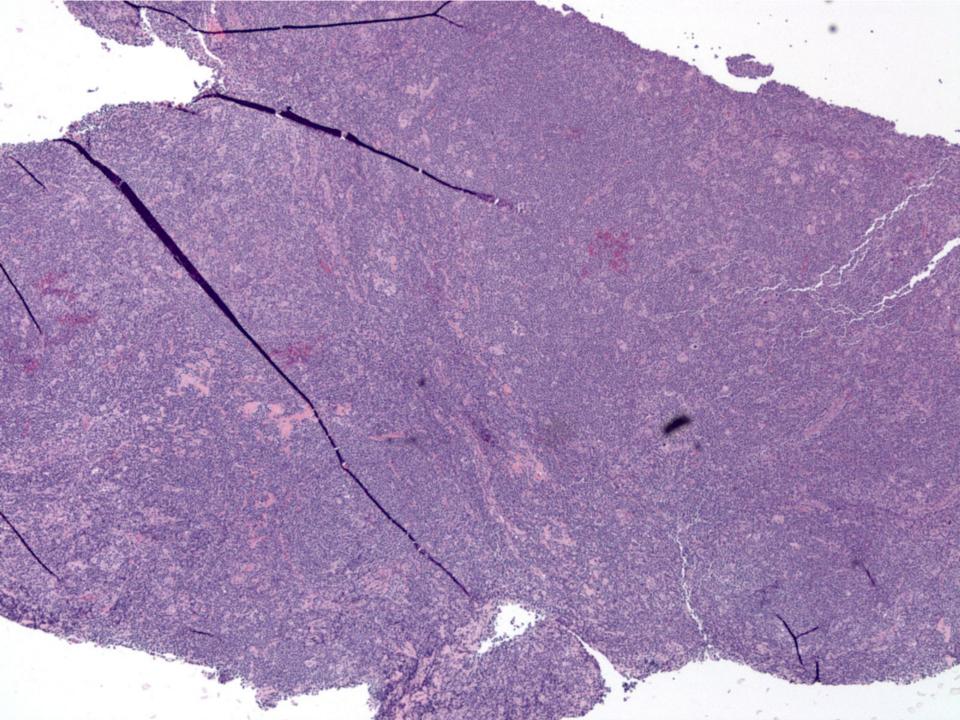


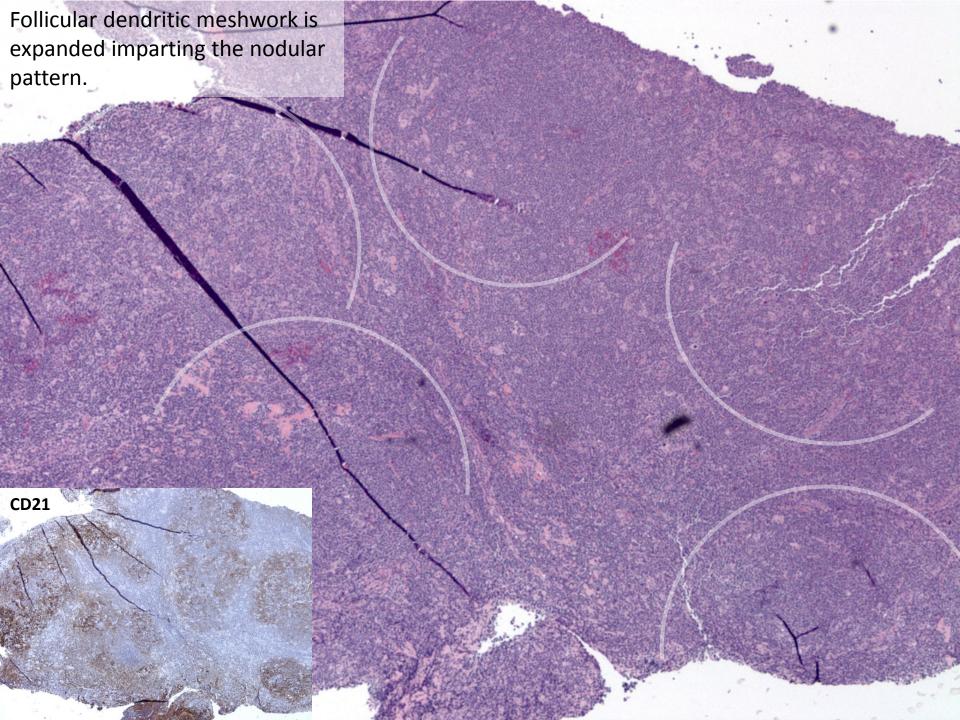
Lymphocyte Deplete

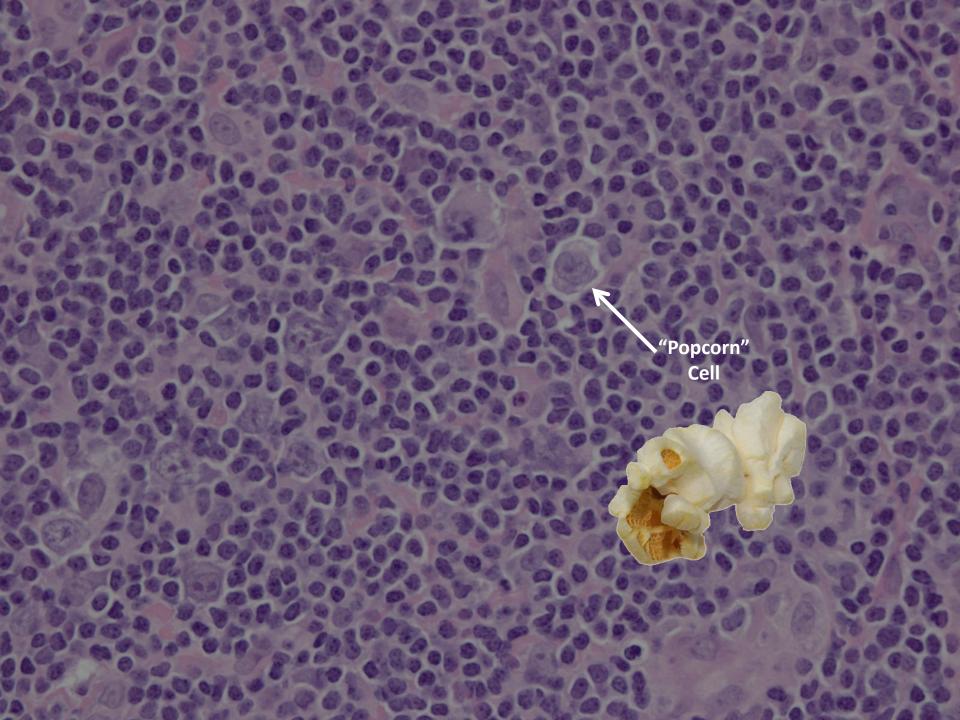
- Architecture is effaced by disordered fibrosis and necrosis.
- Paucity of background inflammatory cells.
- RS cells are characteristically pleomorphic and may be rare or abundant.

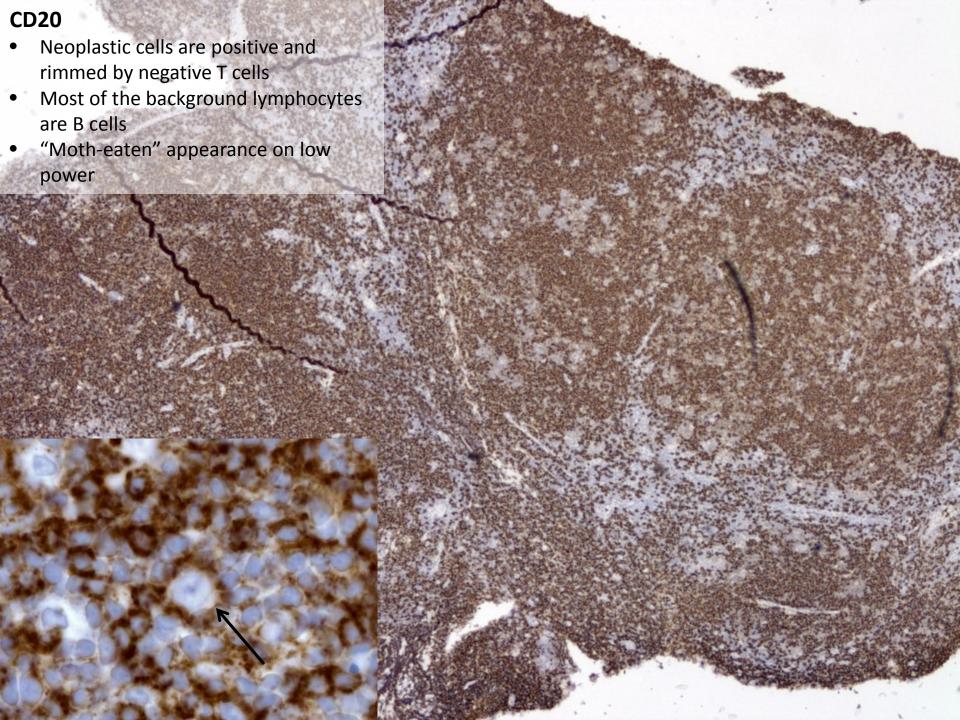
Nodular Lymphocyte Predominant Hodgkin Lymphoma

- Nodal architecture is effaced by large nodules with residual germinal centers compressed toward the periphery.
- Neoplastic B cells take the form of LP or "popcorn" cells.
- The majority of background, non-neoplastic lymphocytes are B cells; T cells form rosettes around neoplastic cells.
- Immunophenotype reflects maintenance of the B cell repertoire.









NLPHL - Immunophenotype

