

## Blood Day for Primary Care

# Investigation of Lymphadenopathy Suspicious for Lymphoma





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#### Disclosures

#### Pam Skrabek

How do I investigation of lymphadenopathy suspicious for lymphoma?

#### FINANCIAL DISCLOSURE

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Speaker bureau/Honoraria: Advisory board participant

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Other: none to disclose





#### **Objectives**

- Identify patient findings that should prompt suspicion of lymphoma
- To present a diagnostic approach to suspicious lymphadenopathy
- Understand when during the diagnostic process to send a referral to CancerCare Manitoba and what accompanying information is required to facilitate prioritization and appointment scheduling



#### Introduction

- Lymphoma is the 5<sup>th</sup> most common cancer
- Five year survival rates high
  - 70% Non-Hodgkin Lymphoma (NHL), 85% (Hodgkin Lymphoma (HL)
- Time to diagnosis longer than other cancers
- Primary Care likely to diagnose one person with NHL every 2-3 years and one HL in career<sup>1</sup>

1. Cancer, N. C. C. f. (2014). Suspected Cancer: recognition and management of suspected cancer in children, young people and adults National Institute for Health and Care Excellence



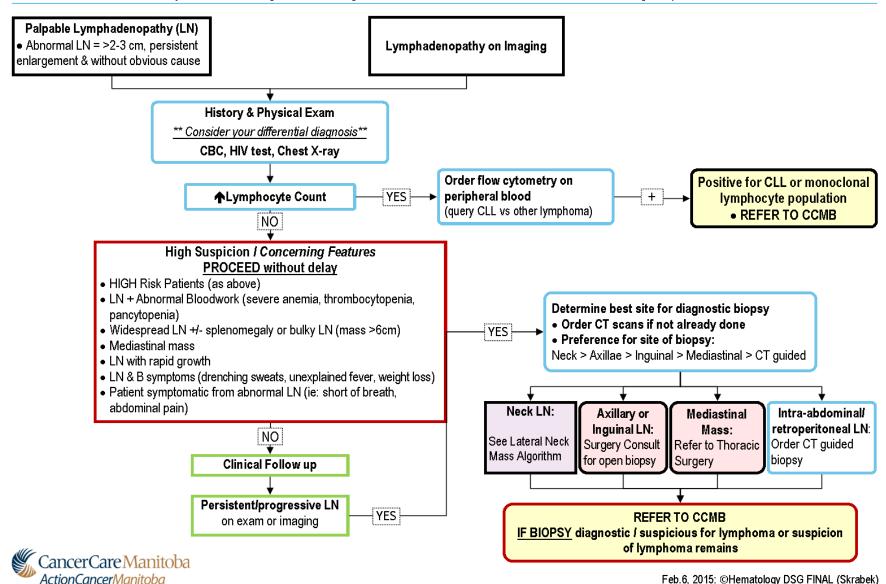


## Interactive question

- You are seeing a 60 y.o. male for routine physical exam and find multiple palpable neck LN with the largest being ~ 2.5 cm. Assuming this mass is malignant what proportion do you expect to be lymphoma?
  - a) 15%
  - b) 25%
  - c) 50%
  - d) 75%

#### Work-Up of LYMPHADENOPATHY Suspicious for LYMPHOMA

RISK FACTORS: HIGH risk: immune deficiency (ie. HIV or organ transplant), autoimmune disease +/- immune suppressing medications, and history of lymphoma PRACTICE POINTS: \*\*Consider your differential diagnosis\*\* including reactive LN due to infection/inflammation, metastatic malignancy, and autoimmune disease.



RISK	STRENGTH ASSOCIATION
AGE	<b>仓仓仓</b>
MALE SEX	仓
FAMILIAL HISTORY & GENETIC SUSCEPTIBILITY	仓
IMMUNE SUPPRESSION	<b>仓仓仓</b>
AUTOIMMUNE DISEASE	<b>仓仓仓</b>
INFECTIONS	<b>仓仓仓</b>
OCCUPATIONAL	仓
ENVIRONMENTAL	仓
LIFESTYLE	<b></b>

## **Lymphoma Risk Factors**







## Suspicion of Lymphoma

- Lymphadenopathy (LN) most common presentation NHL and HL
  - May be found incidentally (~ 30%)

#### Palpable Lymph nodes

- Most peripheral LN is benign....What makes LN "suspicious"
  - Size (> 2 cm), supraclavicular location, firm, painless
  - Symptoms/ findings along with LN may be what prompts suspicion





## Suspicion of Lymphoma

#### Lymphadenopathy on Imaging

- Palpable LN
- Abdominal complaints common in NHL
- Abnormal chest x ray
- B symptoms
- Imaging done for other reasons
- How likely does the LN represent Lymphoma?





## Approach to Lymphadenopathy

HISTORY & PHYSICAL EXAM

#### \*\* Consider your differential diagnosis\*\*

- > Examine all LN group
  - > Size, consistency, fixation, rapidity of growth
  - > Local cause
    - ➤ Infectious, Malignant (head & neck cancer, breast cancer)
- Other lymphatic structures
  - Waldeyer ring, Liver, Spleen

**CBC**, Chest X-ray





## Generalized Lymphadenopathy

DIFFERENTIAL DIAGNOSIS

- Infections HIV, EBV, CMV, TB (generally localized), etc
- Neoplasm lymphoma, leukemia
- Drugs
- Immune SLE, RA, sarcoid





## High Suspicion of Lymphoma

CONCERNING FEATURES

**HIGH Risk Patients** 

LN + Abnormal Bloodwork (severe anemia, thrombocytopenia, pancytopenia)

Widespread LN +/- splenomegaly or bulky LN (mass >6cm)

Mediastinal mass

LN with rapid growth

LN & B symptoms (drenching sweats, unexplained fever, weight loss)

Patient symptomatic from abnormal LN (ie: short of breath, abdominal pain)

- NO Concerning features close clinical follow up
  - Persistent LN (>4 weeks) proceed with investigation





## Referral to Hematology

CASE 1

Thank you for seeing \_\_\_\_\_\_, a 60 year old male patient.

Seen April 28, 2014 - more rapid heart rate than usual - upper chest pressure - peristent cough. Chest x-ray ordered. A mass within the anterior superior mediastinum was seen and further evaluation with corss sectional imaging advised.

CT chest was done May 29/14 - it reported grossly enlarged anterior/middle/posterior mediastinal lymph nodes with soft tissue nodularity to the right pleura and bilateral pleural effusions. Lymphoma is the diagnosis of exclusion. The mediastinal soft tissue mass/nodes would likely be amenable to biopsy via mediastinoscopy if clinically indicated. Approx. 4-6mm nonspecific pulmonary nodule in the left lower lobe.

#### On following meds:

crestor, metoprolol 25mg bid, avodart, ranitidine 150mg bid

#### <u>Allergies</u>

No Allergies recorded





#### Investigations

SUSPECTED LYMPHOMA

- History & Exam, CBC, Chest X-ray
- electrolytes, urea/Cr, AST, ALT, Alk Phos, GGT, bilirubin, Ca, albumin, LDH, uric acid
- SPEP, HIV
- LYMPH NODE BIOPSY
- CT neck/chest/abdomen/pelvis





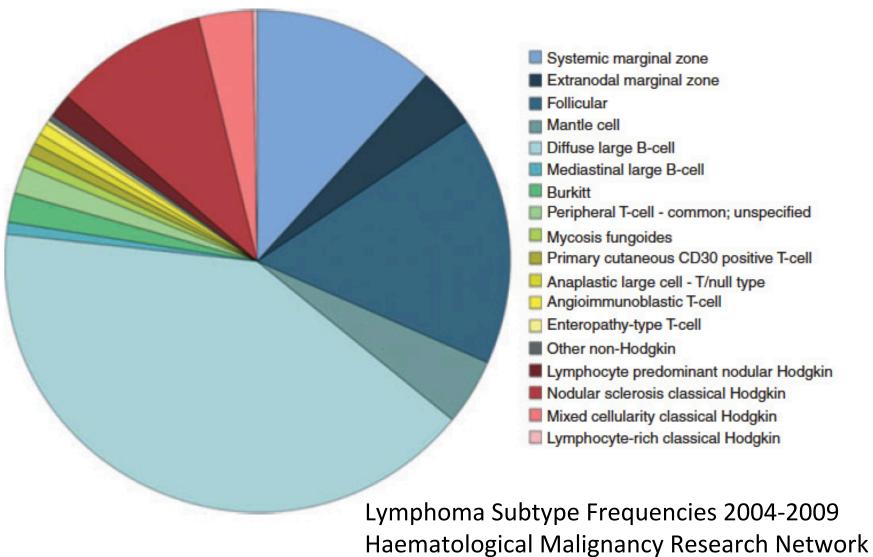
## Diagnosis of Lymphoma

BIOPSY TYPES

- FNA exclusion metastatic carcinoma, can not be used for definitive diagnosis
- Core biopsy if no easily accessible node
- Excisional/incisional LN biopsy always preferred
  - Diagnostic yield greater if LN > 2cm
     SC>cervical = axillary> inguinal









## When to refer to hematology

- Biopsy with lymphoma or suspicious of lymphoma
- High Suspicion / Concerning features send consult early in process, call if you are worried about patient
- INCLUDE: physical exam & note regarding symptoms, CBC, lytes, urea/Cr, LD, Calcium, albumin, chest x-ray
- ORDER: CT neck/chest/abd/pelvis (Do not wait for results, just send the requisition and let us know its ordered)





## Referral to Hematology

CASE 2

Thank you for seeing a 31 year old female patient. She initially felt pain along her left lower breast approximately 2 years ago. The discomfort was fairly stable but more recently it has been increasing in intensity and she states it is particularly bad when her child gives her a hug. She has also had a fullness over her left supraclavicular region for many years, and according to the supraclavicular region for many years

#### l'hysical exam:

H&N: She does have a fullness over the left supraclavicular region but no discrete node is appreciated.

Chest-clear, no adventia

CV: \$1/\$2, no \$3/\$4, no murmrus

ABDO: no masses appreciated, although exam limited d/t body habitus

Breasts: no masses, no axillary nodes

Groin: no nodes appreciated

PVS: no edema, pulses present b/l



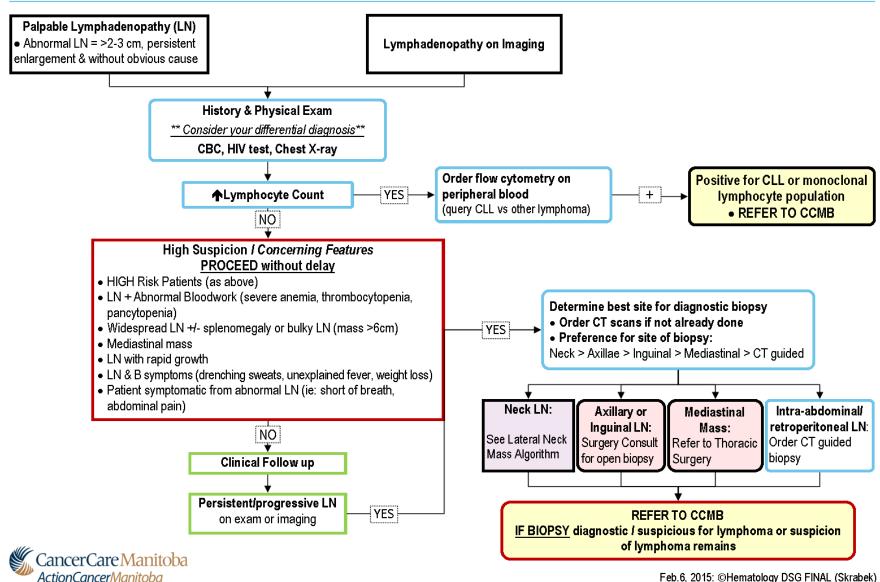


#### Process when referral is received

- Reviewed by Triaging MD
- If no definitive diagnosis refer for biopsy
- Order labs & imaging, prioritize and assign

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## Take Home Messages

- Main presentation of lymphoma is lymphadenopathy
- Presentation variable due to different types of lymphoma
- Patients high suspicion proceed with referral for diagnostic biopsy & to CCMB early





#### Questions?

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#### APPROACH TO AN ADULT WITH A LATERAL NECK MASS

