

# Effective and Efficient Diagnosis of Adult Patients with Cervical Lymphadenopathy: A Primary Care Provider's Checklist

An Ontario Health (Cancer Care Ontario) Resource

MICHAEL J ODELL, MD, FRCSC; ALEXANDRA GINTY MD FCFP CCFP(EM); NEIL NAIK, MD, CCFP

## Background

Cervical lymphadenopathy (CL) in adults, an increasingly common and impactful concern, poses diagnostic challenges due a broad differential diagnosis and confusion regarding the ideal diagnostic approach. The Cancer Care Integration and Disease Advisory Program (CI-DAP) from Ontario Health (Cancer Care Ontario), in conjunction with an expert working group, developed the CL in Adults Pathway Map<sup>1</sup> and Checklist as diagnostic resources for primary care providers. These resources offer an evidence-based strategy to streamline investigation, optimize resource use, and ensure timely, appropriate referrals for improved patient outcomes.

### Patient problem:

- ☐ **Cervical lymphadenopathy** – enlarged lymph nodes in the neck

## Initial Identification

### Initial identification:

- ☐ Asymptomatic or incidental finding on imaging for unrelated issue, or
- ☐ Clinical presentation (e.g. palpable neck mass).
  - If considered urgent (e.g. neck mass is rapidly increasing in size or signs of airway compromise), refer urgently to the emergency room or surgeon.

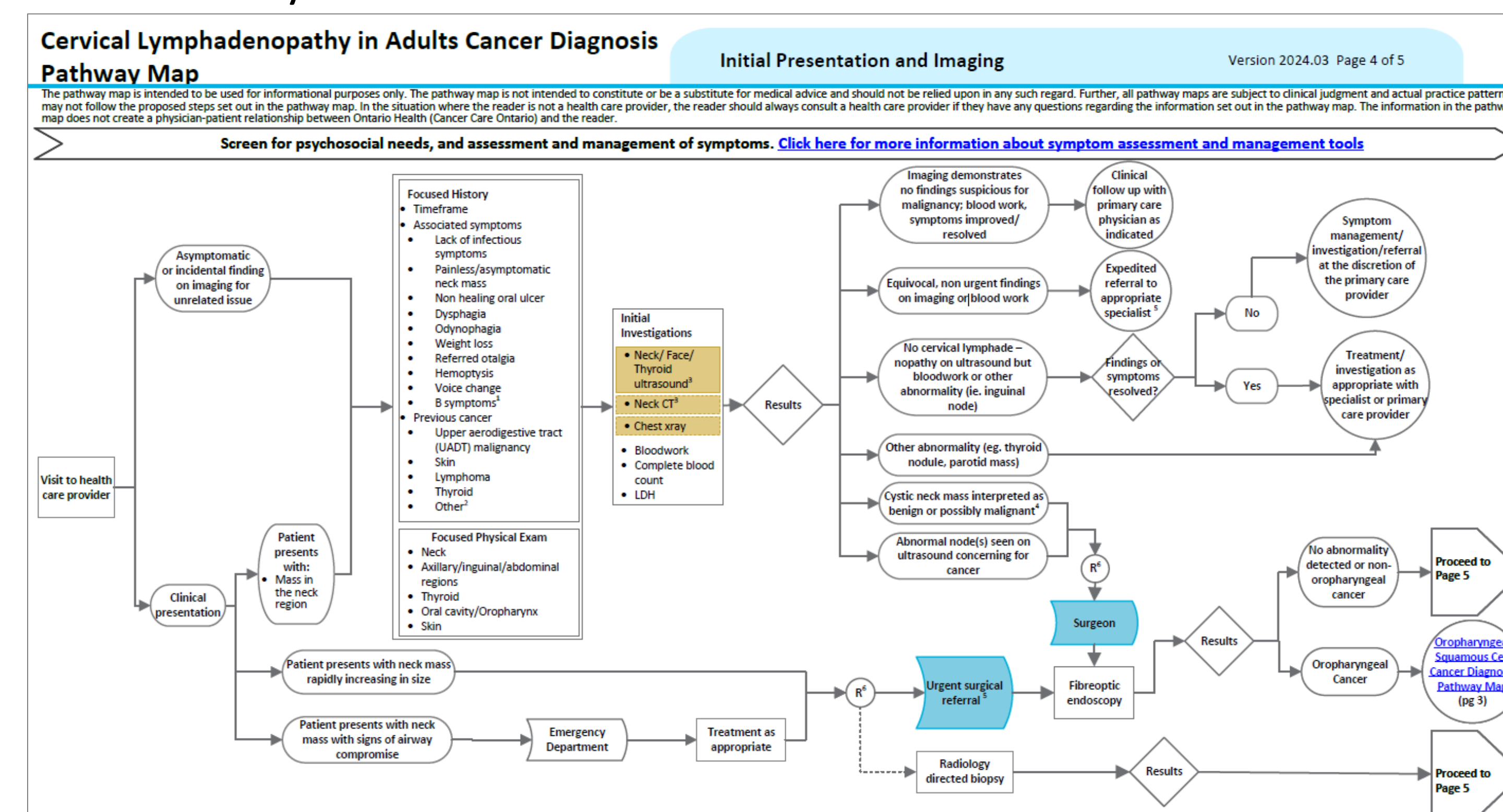
## Initial Assessment by Primary Care

Begin with a detailed history and physical examination focusing on associated symptoms and previous cancer, including:

- ☐ **Timeframe:** malignant lesions will typically persist and enlarge over weeks to months.
- ☐ **Symptoms:** Lack of infectious symptoms, painless/asymptomatic neck mass, non-healing oral ulcer, dysphagia, odynophagia, weight loss, referred otalgia, hemoptysis, voice change, B symptoms (e.g. weight loss of greater than 10% of body mass, drenching night sweats, and/or fevers not explained by infection. The lack of B symptoms does not rule out cancer, including lymphoma).
- ☐ **History of previous cancer:** Upper aerodigestive tract (UADT) malignancy, skin, lymphoma, thyroid, or other cancers that can present as a neck mass (e.g. breast, lung, ovarian and other select cancers).
- ☐ **Focused Physical Exam:** Neck, axillary/inguinal/abdominal regions, thyroid, oral cavity/oropharynx, and skin.

## Initial Investigations: Imaging and Bloodwork

- ☐ Ultrasonography of the neck/face/thyroid is heavily favoured over a neck CT scan as the initial imaging modality. Chest Xray is also an optional imaging modality, but less favoured.
- ☐ Bloodwork - helpful in the diagnosis of lymphoproliferative disease:
  - complete blood count to rule out anemia, thrombocytopenia, white blood cell abnormalities
  - LDH may be elevated due to increased cell turnover.



## Clinical Strategy Based on Results – When to Refer

### Primary Care to continue treatment/management when:

- ☐ Imaging results demonstrate no findings suspicious for malignancy and when blood work, symptoms improved/ resolved.

### At Primary Care's discretion to manage/investigate/refer to a specialist when:

- ☐ Results indicate no cervical lymphadenopathy on ultrasound but bloodwork or other abnormality (ie. inguinal node)
- ☐ Results indicate other abnormality (e.g. thyroid nodule, parotid mass)

### Refer to appropriate specialist when:

- ☐ Equivocal, non urgent findings on imaging or blood work → Expedited referral to appropriate specialist (within 4-6 weeks).
- ☐ Cystic neck masses can be benign or malignant → surgical referral is recommended.
- ☐ Abnormal node(s) seen on ultrasound concerning for cancer → refer to surgeon; if access to surgical consultation may be a challenge, consider ultrasound guided biopsy.

## Following Surgical Referral

Following a fiberoptic endoscopy and exclusion of oropharyngeal cancer, the recommended histologic/cytologic and pathology results support surgeons in categorizing findings into benign, inconclusive, or malignant. This enables targeted diagnostic workups and appropriate referrals for treatment.

## Conclusion

Integrating the CL diagnostic resources into primary care practices has the potential to transform how CL is managed, leading to a more streamlined approach for the healthcare system and most importantly, patients.