

# Pediatric Inflammatory Adenopathy



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## KEYWORDS

- Pediatric lymphadenopathy • Cervical lymphadenopathy
- Chronic granulomatous disease • Chédiak-Higashi syndrome • Cat-scratch disease

## KEY POINTS

- The differential diagnosis in pediatric lymphadenopathy includes bacterial, viral, fungal, and idiopathic causes.
- A systematic approach to patient evaluation must be used because the differential diagnosis, presentation, and work up must consider infectious, immunologic, neoplastic, and idiopathic disorders.
- A thorough history and physical are vital to determining the diagnosis and ruling out a malignant process.

## INTRODUCTION

Pediatric cervical adenopathy is a frequently encountered clinical concern that often presents to an otolaryngologist. A systematic approach to the evaluation of these patients must be used because the differential diagnosis, presentation, and work up must consider infectious, immunologic, neoplastic, and idiopathic disorders (**Fig. 1**). The assessment and diagnosis hinge on a thorough physical examination, the decision for laboratory data, and necessary imaging. A complete history, including recent travel, ethnicity, and other social dynamics, may influence exposure to different pathogens. A detailed history, physical examination, laboratory assessment, and appropriate radiologic examinations can often identify the disease process before the need for surgical intervention.

## BACTERIAL

### *Bacterial Cervical Lymphadenitis*

Recent reports have identified an increased incidence of pediatric deep neck infections. The increase in methicillin-resistant *Staphylococcus aureus* (MRSA) has played

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Abbreviations	
CGD	Chronic granulomatous disease
CHS	Chédiak-Higashi syndrome
CSD	Cat-scratch disease
CXR	Chest radiograph
EBV	Epstein-Barr virus
FNA	Fine-needle aspiration
HAART	Highly active antiretroviral therapy
IM	Infectious mononucleosis
MRSA	Methicillin-resistant <i>Staphylococcus aureus</i>
NTM	Nontuberculous mycobacteria
PCR	Polymerase chain reaction
PPD	Purified protein derivative
US	Ultrasound

a role in the increasing prevalence of this disease. *S aureus* is cultured from pediatric neck abscesses in up to 60% of the cases; 22% to 29% are MRSA.<sup>1-4</sup> Although reactive lymphadenopathy is commonly in response to upper respiratory illnesses, the duration and severity of these infections is usually short lived.

**Clinical presentation**

Presentation typically involves neck mass, fever, cervical lymphadenopathy, poor oral intake, and neck stiffness.<sup>5</sup> Coticchia and colleagues<sup>5</sup> found that children younger than 4 years with bacterial cervical lymphadenitis had a higher incidence of agitation, cough, drooling, lethargy, palatal or pharyngeal swelling, respiratory distress, retractions, rhinorrhea, and stridor than children older than 4 years.

**Diagnosis**

Diagnosis can be made clinically, although is usually supported by imaging that includes ultrasound (US) or CT. Imaging modalities may aid in revealing characteristics

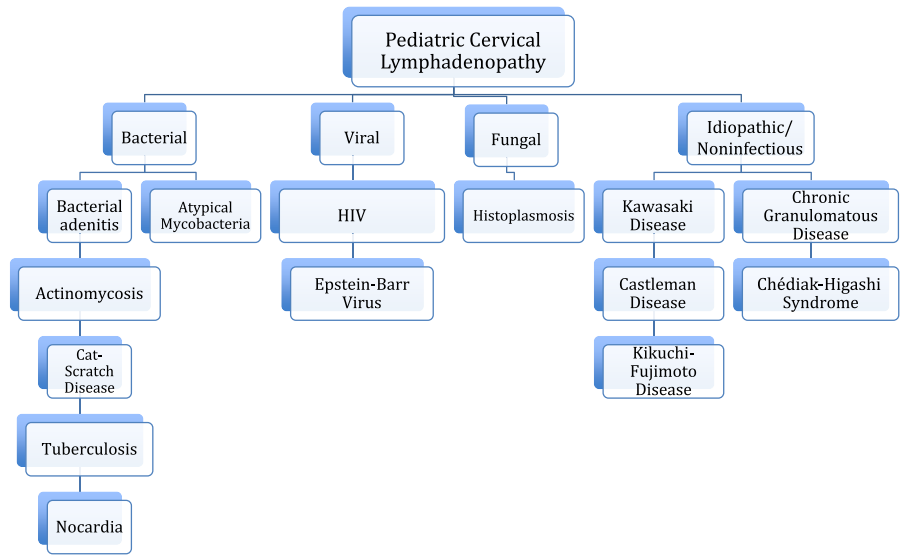


Fig. 1. Pediatric cervical lymphadenopathy.

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