

November 29, 2024

Ontario is experiencing increased *Mycoplasma pneumoniae* (*M. pneumoniae*) activity, especially in young and school-age children.

Typical M. pneumoniae season is late summer to fall and rates usually decline as winter approaches.

Most *M. pneumoniae* infections are mild and most patients will recover without antibiotics. Those with pre-existing lung conditions may be at higher risk of more severe illness.

## Symptoms | Testing

- **Common symptoms** of *M. pneumoniae* infection are fever, headache, and a slowly worsening cough.
  - Activity is highest in those 10-19 years of age, and they may present with prolonged fever and cough, progressive shortness of breath and fatigue, and oxygen desaturation.
  - Kids 9 and younger may present with milder symptoms including prolonged dry cough for weeks; worse at night and difficulty sleeping. If they also present with wheezing, consider managing co-morbidities including <u>asthma</u>.
- Testing is typically done to alter management. Test (PCR) for *M. pneumoniae* using <u>PHO's testing</u> <u>kit</u> or their local / institutional laboratory practice. Throat swab is preferred over nasopharyngeal swab.

### About M. pneumoniae

- Bacterial infection that can cause a variety of upper and lower respiratory tract infections, such as Tracheobronchitis (chest cold), mild pneumonia ("walking pneumonia") and pneumonia.
- Spread through airborne droplets from close contact.
- **Common outbreak settings** are crowded environments, such as schools, post-secondary residence halls, and long-term care facilities.

### Testing Resources from Public Health Ontario

- To order testing supplies from PHO, complete the <u>Requisition for Specimen Containers</u> <u>and Supplies</u> and fax completed requisitions to your closest <u>PHO laboratory</u>.
- <u>Mycoplasma pneumoniae/Chlamydophila pneumoniae PCR Kit (6-Pack)</u> collection instructions.

# Information for Family Physicians About *Mycoplasma pneumoniae* Infection



## Management | Treatment Recommendations

- Most patients with a mild *M. pneumoniae* infection will recover without antibiotics. Prescribe antibiotics only when indicated by clinical or laboratory evidence.
- As noted, testing is typically done to alter management.
- Amoxicillin is the first-line antibiotic to treat bacterial pneumonia. However, *M. pneumoniae* is treated with a macrolide. Therefore:
  - If your patient has worsening symptoms (excluding isolated cough) after 72 hours of amoxicillin or is not getting better in 5-7 days, consider switching antibiotics and/or testing.
- Doxycycline is recommended for patients with suspected or confirmed *M. pneumoniae* infection who are not improving on – or who are resistant

#### Treating Mycoplasma Pneumoniae

- **Macrolides** are generally considered for first-line treatment:
  - Erythromycin: 25–50 mg/kg/day for 14 days
  - Clarithromycin: 10–15 mg/kg/day for 10 days
  - Azithromycin: 10 mg/kg/day for 3 days
- **Doxycycline** is recommended as a second-line treatment, or for certain cases with macrolide-resistance.
- Fluoroquinolones are an alternative, but generally contraindicated in children.

to - macrolides (exceptions: tetracyclines are generally not recommended for younger children or those requiring supplemental oxygen or ventilatory support).

- **Fluoroquinolones** may be considered as an alternative for adult patients; they are generally contraindicated in children.
- A note about antibiotics in pregnancy:
  - Careful consideration is needed when weighing the benefits and risks of taking antibiotics during pregnancy.
  - Fluoroquinolones and tetracyclines are generally avoided; the data is mixed on pregnancy risks with macrolides.<sup>1</sup>

### Help Your Patients Stay Healthy This Respiratory Season

- While **there is no vaccine for** *M. pneumoniae*, continue to promote the recommended vaccines for other respiratory infections, based on age and health status. The OCFP's <u>respiratory illness webpage</u> has more information on COVID-19, RSV, influenza, invasive pneumococcal disease and pertussis.
- See resources to share with patients to help them <u>stay healthy</u> and <u>care for sick children at home</u>.
- <u>Updated clinic screening tool</u>.

<sup>1</sup> Mayo Clinic: <u>https://www.mayoclinic.org/healthy-lifestyle/pregnancy-week-by-week/expert-answers/antibiotics-and-pregnancy/faq-20058542</u>