

FIRST — exclude severe respiratory diphtheria (Check for signs of severe respiratory diphtheria)

Warning signs: pseudomembrane · bull neck · stridor · respiratory distress · signs of sepsis. If ANY present: do **not** swab.

Follow local medical emergency protocols for Infectious Respiratory Medical emergency or deteriorating patient ie call MO, RFDs, MedStar, SAVES to stabilise patient , ring CDCB / ID for further advice

Suspected or confirmed RESPIRATORY diphtheria without signs of severe disease

- **First line:**
 - Azithromycin 500 mg (child 10 mg/kg up to 500 mg) orally, daily for 7 days, **OR**
 - Amoxicillin 1 g (child 30 mg/kg up to 1 g) orally, 8 hourly for 14 days
- Child <18 yr with adherence concerns: azithromycin 30 mg/kg (max 2 g) as a single dose, repeated at 5 days if still symptomatic.
- Adult ≥18 yr with adherence concerns: azithromycin 1 g stat, then 500 mg daily for 6 days.
- Adequately vaccinated patients can usually be managed as outpatients. Inadequately vaccinated symptomatic patients may need admission — discuss with infectious diseases on call.
- **Review every 1–2 days for worsening pseudomembrane, progressive neck swelling, sepsis or respiratory distress.**
- **If no capacity for staff or patients to review regularly, consider transfer to hospital.**

Suspected or confirmed CUTANEOUS diphtheria

- **First line:**
 - Azithromycin 500 mg (child 10 mg/kg up to 500 mg) orally, daily for 7 days. **OR**
 - Amoxycillin 1g (child 30mg/kg up to 1g) orally 8 hourly for 14 days will also cover streptococcal infection
- Cover lesions with an occlusive dressing; use PPE.
- Also treat co-infection — *S. aureus* and *S. pyogenes* are frequently co-isolated.
- Confirmed cutaneous cases require 2 x throat swab
- **If the wound is enlarging (>2 cm), has a grey membrane, or there are systemic features discuss with infectious diseases on-call and consider admission for DAT**

ASYMPTOMATIC pharyngeal carriage

Toxin-positive *C. diphtheria* no symptoms: azithromycin 500 mg (child 10 mg/kg up to 500 mg) orally daily for 5 days. Child <18 yr alternative: single dose 30 mg/kg (max 2 g). Adult ≥18 yr alternative: 1 g stat then 500 mg daily for 4 days. Monitor for symptoms — if they develop, manage as respiratory diphtheria.

Antibiotic alternatives — allergy, long QT

- See [therapeutic guidelines](#)
- **Current outbreak MCS results show diphtheria has reduced susceptibility to penicillin. IM benzathine penicillin is unlikely to be adequate. Discuss allergy to first-line agents with Infectious Diseases on call.**

Exclusion from work/school/childcare

- **Respiratory:** until antibiotics completed AND clearance testing negative (two swabs ≥24 h after finishing antibiotics, ≥24 h apart if feasible).
- **Cutaneous:** until wounds are healing or improving, can be covered with an occlusive waterproof dressing, recommended vaccination completed, and ≥72 hours of appropriate antibiotics.

For every case

- Vaccinate if >12 months since last diphtheria containing vaccine (Chart 1) if not febrile or unwell, and offer opportunistic vaccination to household contacts.
- If DAT was given, delay vaccination 4 weeks.
- Reinforce hand hygiene, wound covering, environmental cleaning and laundry; start contact tracing with CDCB (Chart 4).

Recall and follow-up — late toxin-mediated complications cause much of the mortality

- 1 week and 3 weeks after onset — myocarditis screen: HR, RR, BP, SpO₂, ECG. Ask about chest pain, breathlessness and palpitations; check troponin. Refer for specialist review and echocardiogram if indicated. Myocarditis can occur from the first to sixth week, usually the second.
- 3 months and 6 months after onset — neuropathy screen: numbness, tingling, loss of feeling or function. Consider UEC if renal risk factors. Neurological complications can begin from 10 days after onset.
- Complications can present months after untreated infection resolves — consider diphtheria in an inadequately vaccinated patient with new myocarditis, renal failure or neurology.

NOTIFY CDCB — 1300 232 272 (24/7): suspected and confirmed cases, and late complications. If toxin-positive *C. diphtheriae* is isolated in a patient not admitted, review urgently and discuss with ID on-call, with a low threshold for admission. If toxin-positive *C. diphtheriae* is NOT isolated, cease azithromycin and continue routine management.