

## Paediatric Antibiotic Dosing Guidelines for Community Settings

<b>DOXYCYCLINE</b> (excluding Lyme Disease – see Lyme Disease page for specific guidance)	
<b>Age</b>	<b>Normal dose:</b>
<b>8 to &lt;12 years</b>	<b>&lt;45kg:</b> Day 1: 4.4 mg/kg/day in 1-2 divided doses  Day 2 onwards: 2.2 mg/kg/day in 1-2 divided doses  <b>≥45kg:</b> Day 1: 200 mg daily in 1–2 divided doses  Day 2 onwards: 100 mg daily
<b>12- 17 years</b>	Day 1: 200 mg daily in 1–2 divided doses  Day 2 onwards: 100 mg daily

Preparations available:

Doxycycline capsules/tablets 50mg & 100mg

Dispersible tablets 100mg. This is an unlicensed product, check availability with community pharmacist.

### **Sample calculation (information for dispensing pharmacist)**

*Child requiring treatment using Doxycycline 100mg unlicensed dispersible tablets:*

Child weight=30 kg (specify child weight on prescription)

Dose: 4.4 mg per kg

$30\text{kg} \times 4.4 \text{ mg/kg} = 132 \text{ mg}$  dose required i.e. 100 mg + 32 mg

How to disperse tablet to give a part dose of 32 mg:

Dissolve 1x 100 mg dispersible doxycycline tablet in 5 mL of water

$100 \text{ mg} = 5 \text{ mL}$  so  $32 \text{ mg} = 1.6 \text{ mL}$  (Draw up and give 1.6 mL using 5mL syringe supplied by pharmacist to give 32 mg).

Therefore for a total dose of 132mg, give the appropriately dispersed 100mg tablet plus 1.6mL (32mg) of the dispersed liquid prepared as above.

Discard remaining dose by returning to local pharmacy in child resistant closure container.

If required, to improve palatability, can add squash/fruit juice to water. Make dose fresh each time.