

Field Administration of Biological Agent (Anthrax, Plague, Tularemia) Post-Exposure Prophylaxis: Pediatric Dosing Procedures for Ciprofloxacin and Doxycycline^{1, 2}

Ciprofloxacin^{4,5}

Weight		Anthrax/Tularemia Prophylaxis ^{3,4}				Plague Prophylaxis Dose ⁴					
		Dose		250 mg/5 mL Susp.		500 mg/5 mL Susp.		Dose		250 mg/5 mL Susp.	
Lbs	Kg	10 mg/kg - 15 mg/kg po BID	Administer	Qty to Dispense for 10-day supply ⁶	Administer	Qty to Dispense for 10-day supply ⁶	20 mg/kg po BID	Administer	Qty to Dispense for 10-day supply ⁶	Administer	Qty to Dispense for 10-day supply ⁶
11	5	50 mg - 75 mg po BID	1-1.5 mL po BID	20-30 mL	0.5 mL - 0.75 mL po BID	10 to 15mL	100 mg po BID	2 mL po BID	40 mL	1 mL po BID	20mL
16.5	7.5	75 mg - 125 mg po BID	1.5-2.5 mL po BID	30-50 mL	0.75 mL - 1.25 mL po BID	15 to 25mL	150 mg po BID	3 mL po BID	60 mL	1.5 mL po BID	30mL
22	10	100 mg - 150 mg po BID	2-3 mL po BID	40-60 mL	1 mL - 1.5 mL po BID	20 to 30mL	200 mg po BID	4 mL po BID	80 mL	2 mL po BID	40mL
44	20	200 mg - 300 mg po BID	4-6 mL po BID	80-120 mL	2 mL - 3 mL po BID	40 to 60mL	400 mg po BID	8 mL po BID	160 mL	4 mL po BID	80mL
66	30	300 mg - 450 mg po BID	6-9 mL po BID	120-180 mL	3 mL - 4.5 mL po BID	60 to 90mL	500 mg po BID ⁷	10 mL po BID	200 mL	5 mL po BID	100mL
88	40	400 mg - 500 mg po BID ⁸	8-10 mL po BID	160-200 mL	4 mL - 5 mL po BID	80 to 100mL	500 mg po BID ⁸	10 mL po BID	200 mL	5 mL po BID	100mL
>99	>45	450 mg - 500 mg po BID ⁸	9-10 mL po BID	180-200 mL	4.5 mL - 5 mL po BID	90 to 100mL	500 mg po BID ⁸	10 mL po BID	200 mL	5 mL po BID	100mL

Doxycycline⁵

Weight		Anthrax/Tularemia/Plague Prophylaxis Dose ⁴	Administer		Qty to Dispense per 10 Day Supply	
Lbs	Kg	2.2 mg/kg po BID	25 mg/5 mL Susp.	50 mg/5 mL Susp.	25 mg/5 mL Susp. (60mL/BTL) ⁵	50 mg/5 mL Susp. (473 mL/BTL)
11	5	11 mg po BID	2.5 mL po BID	1.25 mL po BID	1 BTL (50 mL)	25 mL
16.5	7.5	~17 mg po BID	3.5 mL po BID	1.75 mL po BID	2 BTL (70 mL)	35 mL
22	10	~22 mg po BID	5 mL po BID	2.5 mL po BID	2 BTL (100 mL)	50 mL
44	20	~44 mg po BID	9 mL po BID	4.5 mL po BID	3 BTL (180 mL)	90 mL
66	30	~66 mg po BID	13 mL po BID	6.5 mL po BID	5 BTL (260 mL)	130 mL
88	40	~88 mg po BID	18 mL po BID	9 mL po BID	6 BTL (360 mL)	180 mL
>99	>45	~99 mg po BID	20 mL po BID	10 mL po BID	7 BTL (400 mL)	200 mL

¹Local protocols may supersede the recommended guidelines. ²This card may be used as a cross-reference to calculate pediatric doses. All pediatric doses should be individualized based on a child's actual weight. All doses have been rounded to nearest 0.5mL. Refer to CDC guidelines for complete prescribing information (www.bt.cdc.gov). ³Renally compromised patients require a dose adjustment for ciprofloxacin when CrCl < 50 mL/min. ⁴Maximum Daily Dose: Ciprofloxacin 500mg BID; Doxycycline 100mg BID. ⁵Qty to dispense: May dispense in full bottles or divided into to exact quantities that have been provided.

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Field Administration of Biological Agent (Anthrax, Plague, Tularemia) Post-Exposure Prophylaxis: Pediatric Dosing Procedures for Ciprofloxacin and Doxycycline¹

Antibiotic of Choice²

- **Anthrax:** Doxycycline or Ciprofloxacin³
- **Plague:** Doxycycline is the antibiotic of choice. Ciprofloxacin may be administered to individuals that have a contraindication to Doxycycline (i.e. allergy to one of the tetracyclines).
- **Tularemia:** Doxycycline or Ciprofloxacin

Adult Dosing Guidelines (including pregnant & lactating women; and immuno-compromised individuals)²

Doxycycline 100mg po BID **OR** Ciprofloxacin 500mg po BID³

Available Formulations (Note: *italics* indicates Strategic National Stockpile Formulation).

Doxycycline

- *25 mg/5 mL suspension (after reconstitution); 60 ml bottle*
- *100 mg tablet packaged in unit-of-use (20 tablets/bottle)*
- 50 mg/ml syrup
- 20 mg, 50 mg, 75 mg tablets
- 20 mg, 50 mg, 75 mg, 100 mg capsules

Ciprofloxacin

- *250 mg/5 mL suspension (after reconstitution); 100 ml bottle*
- *500 mg tablet packaged in unit-of-use (20 tablets/bottle)*
- 500 mg/ml suspension
- 100 mg, 250 mg, 750 mg tablets

Guidelines for Home Preparation of Doxycycline Suspension

1. Place one 100-mg Doxycycline tablet into a bowl and grind into a fine powder.
2. Add 4 teaspoons (20ml) 50:50 apple juice/table sugar mixture to the Doxycycline powder and stir well until the powder dissolves. The resulting suspension has a concentration of 25mg/5ml
3. Unused suspension should be covered and stored in the refrigerator for up to 24 hours.
4. FDA recommends that this mixture be prepared daily; unused portions should be discarded.

¹NOTE: Local protocols may supersede the recommended guidelines. ²Refer to CDC guidelines for complete prescribing information (www.bt.cdc.gov) ³Renally compromised patients require a dose adjustment for ciprofloxacin when CrCl ≤ 50 mL/min

References: *J Pediatr*. 2002 Sept;141(3):311-326; www.bt.cdc.gov/children/pdf/workingexecsumm03.pdf; The Harriet Lane Handbook; http://www.dsf.health.state.pa.us/healthlib/health/ems/ems_ib_5.pdf; www.fda.gov/cder/drug/prepare

See reverse side of this document for more information

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