



Sentinel Project
on pediatric drug-resistant tuberculosis

Stop TB Partnership
GLOBAL DRUG FACILITY

LEVOFLOXACIN 100MG SCORED, DISPERSIBLE TABLETS

Recommended dosing: 15-20mg/kg/day
Weight-based dosing

Weight Band (kg)	Dose	Number of 100mg tablets
1kg	20mg	Mix 100mg tablet in 10 mL of water and administer 2mL of mixture immediately
2kg	40mg	Mix 100mg tablet in 10 mL of water and administer 4mL of mixture immediately
3kg	50mg	0.5
4-6kg	100mg	1
7-9kg	150mg	1.5
10-12kg	250mg	2.0-2.5
13-15kg	300mg	3
16-18kg	350mg	3.0-3.5
19-20kg	400mg	4
21-23kg	450mg	4.0-4.5
24-25kg	500mg	5



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MOXIFLOXACIN 100MG SCORED, DISPERSIBLE TABLETS

Recommended dosing: 10-15mg/kg/day
Weight-based dosing

Weight Band (kg)	Dose	Number of 100mg tablets
1kg	10mg	Mix 100mg tablet in 10 mL of water and administer 1mL of mixture immediately
2kg	20mg	Mix 100mg tablet in 10 mL of water and administer 2mL of mixture immediately
3kg	30mg	Mix 100mg tablet in 10 mL of water and administer 3mL of mixture immediately
4-6kg	50-80mg	0.50-0.75
7-9kg	150mg	1.5
10-15kg	200mg	2
16-19kg	300mg	3
20-25kg	400mg	4



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CYCLOSERINE 125MG CAPSULES

Recommended dose: 15-20mg/kg/day

Weight-based dosing

Weight Band (kg)	Dose	Number of 125mg tablets
1kg	20mg	Mix 125mg capsule in 12 mL of water and administer 1mL of mixture immediately
2kg	40mg	Mix 125mg capsule in 12 mL of water and administer 2mL of mixture immediately
3-4kg	62.5mg	Mix 125mg capsule in 12 mL of water and administer 5 mL of mixture immediately
5-9kg	125mg	1
10-15kg	250mg	2
16-23kg	375mg	3
24-25kg	500mg	4



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ETHAMBUTOL 100MG SCORED, DISPERSIBLE TABLETS

Recommended Dosing: 15-25mg/kg/day
Weight-based dosing

Weight Band (kg)	Dose	Number of 100mg tablets
1kg	20mg	Mix 100mg tablet in 10 mL of water and administer 2mL of mixture immediately
2kg	40mg	Mix 100mg tablet in 10 mL of water and administer 4mL of mixture immediately
3kg	70mg	Mix 100mg tablet in 10 mL of water and administer 7mL of mixture immediately
4-6kg	100 mg	1
7-9kg	200 mg	2
10-12kg	250mg	2.5
13-15kg	300mg	3
16-18kg	350 mg	3.5
19-20kg	400mg	4
21-23kg	450mg	4.5
24-25kg	500mg	5



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PYRAZINDAMIDE 150MG SCORED, DISPERSIBLE TABLET

Recommended dose: 30-40mg/kg/day
Weight-based dosing

Weight Band (kg)	Dose	Number of 150mg tablets
1kg	30mg	Mix 150mg tablet in 15 mL of water and administer 3mL of mixture immediately
2kg	60mg	Mix 150mg tablet in 15 mL of water and administer 6mL of mixture immediately
3kg	90mg	Mix 150mg tablet in 15 mL of water and administer 9mL of mixture immediately
4-6kg	150mg	1
7-9kg	225-360mg	2
10-12kg	375mg	2.5
13-15kg	450mg	3
16-18kg	525mg	3.5
19-20kg	600mg	4
21-23kg	675mg	4.5
24-25kg	750mg	5



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ETHIONAMIDE 125MG, SCORED, DISPERSIBLE TABLET

Recommended dose: 15-20mg/kg/day
Weight-based dosing

Weight Band (kg)	Dose	Number of 125mg tablets
1kg	20mg	Mix 125mg tablet in 12 mL of water and administer 1mL of mixture immediately
2kg	40mg	Mix 125mg tablet in 12 mL of water and administer 2mL of mixture immediately
3-4kg	62.5mg	0.5
5-6kg	125mg	1
7-9kg	187.5mg	1.5
10-13kg	250mg	2
14-15kg	312.5mg	2.5
16-20kg	375mg	3
21-23kg	437.5mg	3.5
24-25kg	500mg	4



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ISONIAZID 100MG SCORED, DISPERSIBLE TABLET

Recommended dosing: 15-20mg/kg
Weight-based dosing

Weight Band (kg)	Dose	Number of 100mg tablets
1kg	15mg	Mix 100mg tablet in 10 mL of water and administer 1.5mL of mixture immediately
2kg	30mg	Mix 100mg tablet in 10 mL of water and administer 3mL of mixture immediately
3kg	50mg	0.5
4-6kg	100mg	1
7-9kg	150mg	1.5
10-15kg	200mg	2
16-18kg	250mg	2.5
19-20kg	300mg	3
21-23kg	350mg	3.5
24-25 kg	400mg	4



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CLOFAZIMINE 50MG TABLET

Dosing 2-5mg/kg/day

Weight Band (kg)	Dose (mg)	Number of 50mg/tablet
<5kg	10-20mg	Dissolve tablet in 10mL of water to make a 5mg/mL suspension and administer desired dose. Do not store suspension but make a fresh one each time
6-10kg	25mg	½
11-19 kg	50mg	1
20-25kg	100mg	2



NOT YET AVAILABLE LINEZOLID 150MG, SCORED, DISPERSIBLE TABLETS

Dose: 10-12mg/kg once daily for children < 12 years who weigh 16kg or more; 15mg/kg once daily in children < 12 years who weigh less than 16kg; 10mg/kg once daily in children 12 years and above

Weight Band (kg)	Dose	Number of 150mg tablets
1kg	15mg twice daily	Mix 150mg tablet in 15 mL of water and administer 1.5mL of mixture immediately
2kg	30mg once daily	Mix 150 mg tablet in 15 mL of water and administer 3mL of mixture immediately
3kg	45mg once daily	Mix 150 mg tablet in 15 mL of water and administer 4.5mL of mixture immediately
4kg	60mg once daily	Mix 150 mg tablet in 15 mL of water and administer 6mL of mixture immediately
5kg	75mg once daily	Mix 150 mg tablet in 15 mL of water and administer 7.5mL of mixture immediately or give 0.5 of a 150mg tablet
6kg	90 mg once daily	Mix 150 mg tablet in 15 mL of water and administer 9mL of mixture immediately
7-9kg	75-150mg once daily	0.5-1
10-15kg	150-225mg once daily	1-1.5
16-20kg	225-300mg once daily	1.5-2
21-25kg	300mg once daily	2



BEDAQUILINE 20MG TABLET

Bedaquiline is a drug that is recommended by the World Health Organization for a majority of individuals with rifampicin-resistant tuberculosis (RR-TB), and for children ages six years and above (<https://www.who.int/publications/i/item/9789240007048>). Its use has been associated with lower mortality and improved outcomes. Dosing and safety data are well established for children ages six years and above, although the medication has been given to children younger than six years who have limited treatment options following the WHO’s “best practice” statement on such use (<https://apps.who.int/iris/handle/10665/258941>). The current adult formulation comes as a 100mg tablet, which has the same bioavailability if it is crushed and mixed with water than if it is administered whole (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6138504/>). There is also a new, quality assured 20mg, scored tablet that is available for children. This tablet can be dissolved in water and is more straightforward to give to children.

Currently, there are not weight-based dosing recommendations for children being treated with bedaquiline. Rather, children who weigh more than 30kg, the standard adult dose of 400mg daily for 14 days followed by 200mg three times a week for an additional 22 weeks is given. For children who weigh 16-30kg, the recommended dosing is 200mg daily for 14 days followed by 100mg three times a week for an additional 22 weeks. A practical dosing table for children weighing less than 30kg is below.

Weight Band (kg)	Recommended loading dose for each of the first 14 days (mg)	Number of 20mg tablets	Recommended maintenance dose (mg) three times per week	Number of 20mg tablets	Total number of tablets for a 24 week course
11-15kg*	100mg	5	50mg	2.5	235
16-30kg	200mg	10	100mg	5	470

*Bedaquiline is currently not formally recommended in this weight group, but the dosing recommendation is extrapolated from the adult dosing

Administration of 20 mg Tablets to Patients Who Can Swallow Intact Tablets

The 20 mg tablet can be swallowed whole or divided in half along the functional score line into two equal halves of 10 mg each.

For children who cannot swallow whole tablets, the medication can be dispersed in water (or other beverage) or administered with a soft food. A maximum of 5 tablets can be mixed with 5mL of the water/other beverage or with 1 teaspoon full of soft food. This mixture should be administered immediately. If more than 5 tablets are required, then the step should be repeated with an additional 5mL of liquid or 1 teaspoon of soft food.



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The tablets can also be administered through a nasogastric tube using the following process:

- Disperse 5 tablets or less in 50 mL of non-carbonated water and mix well. Mixture should be white to almost white with visible particles expected.
- Administer through the nasogastric tube immediately.
- Repeat with additional tablets until desired dose is reached.
- Rinse and flush with 25 mL of additional water to ensure no tablet residue is left in materials used for preparation or the nasogastric tube.

Storage

The 20mg tablets of bedaquiline come in a bottle of 60 tablets. The bottle also contains a silica gel desiccant pack which must be kept and stored with the bottle, but which should not be administer to any patient. Protect from light and moisture. Keep the container tightly closed. Store at 25°C (77°F); excursions permitted between 15°C to 30°C (59°F to 86°F).



DELAMANID 25MG DISPERSIBLE TABLET

Delamanid is a drug that is recommended by the World Health Organization for individuals with rifampicin-resistant tuberculosis (RR-TB), and for children ages three years and above (<https://www.who.int/publications/i/item/9789240007048>). Its use has been improved outcomes in some clinical studies. Dosing and safety data are well established for children ages three years and above, although the medication has been given to children younger than three years who have limited treatment options following the WHO’s “best practice” statement on such use (<https://apps.who.int/iris/handle/10665/258941>). The current adult formulation comes as a 50mg tablet, which has reduced bioavailability if it is crushed and mixed with liquid and thus it has limited utility in children (<https://apps.who.int/iris/bitstream/handle/10665/311390/WHO-CDS-TB-2019.3-eng.pdf>). There is also a dispersible, quality assured 25mg tablet that is available for children. This tablet can be dispersed in water and is more straightforward to give to children.

Currently, there are not weight-based dosing recommendations for children being treated with delamanid. Rather, children who weigh more than 35kg, the standard adult dose of 100mg twice daily is given (for a total daily dose of 200mg). For children who weigh 24-34kg, the recommended dosing is 50mg twice daily (for a total daily dose of 100mg). A practical dosing table for children based on weight is below.

Weight Band (kg)	Recommended dose(mg)	Number of 25mg tablets	Total daily dose	Total number of tablets for a 24 week course
7-23kg*	25mg twice daily	1 tablet given twice daily	50mg	336
24-34kg	50mg twice daily	2 tablets given twice daily	100mg	672
35kg or above	100mg twice daily	4 tablets given twice daily	200mg	1344

* Delamanid is currently not formally recommended in this weight group, but the dosing recommendation is extrapolated from the adult dosing

Administration of 25 mg Tablets To Patients Who Can Swallow Intact Tablets

The 25 mg tablet can be swallowed whole or administered with water. It is recommended that the 25mg tablet be dissolved in 15mL of water.

Storage

The 25mg tablets of delamanid come in a blister pack, and each pack contains 48 tablets of 25mg each. Protect from light and moisture. Store at 25°C (77°F).