GUIDELINES FOR ADMINISTRATION OF INJECTABLE ARTESUNATE

FOR SEVERE MALARIA





ampoule

powder 60mg

PRODUCT DESCRIPTION 1

Dose: For children < 20 kg: 3.0 mg/kg For children > 20 kg and adults: 2.4 mg/kg

Can be given by intravenous route (IV) or intramuscular route (IM). IV is the preferred route of administration.

Please refer to the patient information leaflet for more information.

* Water for injection is not an appropriate dilutant

WEIGH THE PATIENT

solution

DETERMINE THE NUMBER OF VIALS NEEDED

Weight	less than 25 kg	26-50 kg	51-75 kg	76-100 kg
60 mg vial	1	2	3	4

RECONSTITUTE

Activate the drug: artesunate powder + bicarbonate ampoule (immediately before use)







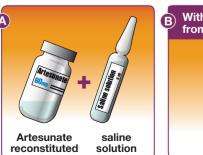


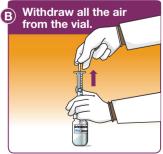


DILUTE

■ Reconstituted artesunate + saline solution (or dextrose 5%)

■ Volume for dilution	IV	IM
Bicarbonate solution volume	1 ml	1 ml
Saline solution volume	5 ml	2 ml
Total volume	6 ml	3 ml
Artesunate 60 mg solution concentration	10 mg/ml	20 mg/ml









Water for injection is not an appropriate dilutant

IMPORTANT

1. World Health Organization (WHO) List of Pregualified Medicinal Products (http://apps.who.int/pregual/guery/ProductRegistry.aspx?list=ma); artesunate injectable, reference N° MA051

2. World Health Organization. Management of Severe Malaria - A practical handbook - Third edition - April 2013 - (http://www.who.int/malaria/publications/atoz/9789241548526/en/index.html

CALCULATE THE DOSE

■ Calculate and withdraw the required dose in ml according to route of administration:

For intravenous route (IV) Concentration: 10 mg/ml

3.0 mg x body weight (kg) IV artesunate solution concentration 10 mg/ml Round up to the next whole number

Example:

Dose needed (ml) for 8 kg child: 3.0 x 8 20 = 2.4 ml 10

2.4 ml rounded up to 3 ml

Weight	Dose		
kg	mg	ml	
6 - 7	20	2	
8 - 10	30	3	
11 - 13	40	4	
14 - 16	50	5	
17 - 20	60	6	

Concentration: 10 mg/ml

2.4 mg x body weight (kg) IV artesunate solution concentration 10 mg/ml Round up to the next whole number

Example:

Dose needed (ml) for 26 kg child:

6.24 ml rounded up to 7 ml

	Weight	Dose			
	kg	mg	ml		
	20 - 25	60	6		
3	26 - 29	70	7		
20	30 - 33	80	8		
More than 20 kg	34 - 37	90	9		
ha	38 - 41	100	10		
e t	42 - 45	110	11		
0	46 - 50	120	12		
Σ	51 - 54	130	13		
	55 - 58	140	14		
	59 - 62	150	15		
	63 - 66	160	16		
	67 - 70	170	17		
	71 - 75	180	18		
	76 - 79	190	19		
	80 - 83	200	20		

210

220

230

240

Concentration: 20 mg/ml

For intramuscular route (IM)

Concentration: 20 mg/ml

3.0 mg x body weight (kg)

IM artesunate solution

concentration 20 mg/m

Round up to the next whole number Example:

Dose needed (ml) for 8 kg child:

1.2 ml rounded up to 2 ml

 $= 1.2 \, ml$

Dose

20 30

40

50 60 ml

2

2

3

3

 3.0×8

20

Weight

8 - 10

11 - 13

14 - 16

17 - 20

2.4 mg x body weight (kg) IM artesunate solution concentration 20 mg/m Round up to the next whole number

Example:

Dose needed (ml) for 26 kg child:

2.4 x 26 3.12 ml rounded up to 4 ml

Weight	Dose		
kg	mg	ml	
20 - 25	60	3	
26 - 29	70	4	
30 - 33	80	4	
34 - 37	90	5	
38 - 41	100	5	
42 - 45	110	6	
46 - 50	120	6	
51 - 54	130	7	
55 - 58	140	7	
59 - 62	150	8	
63 - 66	160	8	
67 - 70	170	9	
71 - 75	180	9	
76 - 79	190	10	
80 - 83	200	10	
84 - 87	210	11	
88 - 91	220	11	
92 - 95	230	12	
96 - 100	240	12	

Remark: the upper limit for each weight band is 0.9 kg e.g. 14 - 16 kg covers

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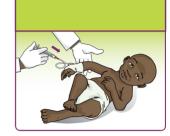
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ADMINISTER

IV: slow bolus 3-4 ml per



IM: Inject slowly. Spread the doses of more than 2 ml over different sites for babies and 5 ml for adults.



DOSING SCHEDULE

- 1. Give 3 parenteral doses over 24 hours as indicated in the opposite table
- 2. Give **parenteral doses** for a minimum of 24 hours once started irrespective of the patients ability to tolerate oral treatment earlier.
- Day 1 Dose 1: on admission (0 Hours) Dose 2: 12 hours later
- Day 2 Dose 3: 24 hours after first dose
- When the patient can take oral medication, prescribe a full 3-day course of recommended first line oral Artemisinin Combination Therapy (ACT). The first dose of ACT should be taken between 8 and 12 hours after the last injection of artesunate.
- Until the patient is able to take oral medication, continue parenteral treatment (one dose a day) for a maximum of 7 days.
- A course of injectable artesunate should always be followed by a 3-day course of ACT.
- Evaluate the patient's progress regularly.

IMPORTANT

- Prepare a fresh solution for each administration.
- Discard any unused solution after use

This document is intended to demonstrate to health workers how to prepare and administer injectable artesunate, a treatment for severe malaria. It is not intended to provide personal medical advice. The responsibility for the interpretation and use of this material lies with the reader. In no event shall MMV be liable for damages arising from

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92 - 95

96 - 100