

STATE OF MAINE DEPARTMENT OF PUBLIC SAFETY MAINE EMERGENCY MEDICAL SERVICES 152 STATE HOUSE STATION AUGUSTA, MAINE 04333



MICHAEL SAUSCHUCK COMMISSIONER

> WIL O'NEAL DIRECTOR

	OPERATIONAL BULLETIN						
Bulletin #		Date Issued					
2025-05-21-01	Bi	May 21, 2025					
Superseded	Released By:	Source:	Pages				
N/A	Maine EMS	Armstrong Medical	2				

Maine EMS has been notified of errors in the newly released Broselow Pediatric Emergency Tape, 2025 edition. This does not affect any previous editions of the Broselow Tape.

These tapes would have been sold through Armstrong Medical (the only vendor for Broselow Pediatric Emergency Tapes), and found at

https://www.armstrongmedical.com/products/broselow-pediatric-emergency-tape-2025-edition/)

Noted Errors

1. The Grey section incorrectly lists Sodium Bicarbonate at 4.8% concentration, instead of 8.4% concentration.

<3 months				GR	EY		Normal Res Normal Sys	rt Rate: 90-205 piratory Rate: 40 tolic BP: 60-84 ystolic BP: 60	
		3 kg	4 kg	5 kg		3 kg	4 kg	5 kg	
		RESUSCITATIO	N		F	LUIDS/BLOOD F	PRODUCTS		
Adenosine IV/IO (3 mg/mL)	1st Dose	0.3 mg (0.1 mL)	0.4 mg (0.13 mL)	0.5 mg (0.17 mL)	Fluid Bolus 0.9 NS or LR (IV/IO)	30-60 mL	40-80 mL	50-100 mL	
	2nd Dose	0.6 mg (0.2 mL)	0.8 mg (0.27 mL)	1 mg (0.33 mL)	Blood Products (IV/IO)	30 mL	40 mL	50 mL	
Amiodarone IV/IO (50 mg/mL)	15 mg (0.3 mL)	20 mg (0.4 mL)	25 mg (0.5 mL)	Maintenance Fluids (IV/IO)	00 IIIE	40 1112	00,1112	
Atropine IV/IO (0.1 mg/mL)		0.06 mg (0.6 mL)	0.08 mg (0.8 mL)	0.1 mg (1 mL)	0.9 NS with appropriate				
Calcium Chloride 10 (100 mg/mL)	% IV/IO	60 mg (0.6 mL)	80 mg (0.8 mL)	100 mg (1 mL)	potassium chloride (KCI) and dextrose	12 mL/hour	16 mL/hour	20 mL/hour	
EPINEPHrine IV/IO		0.03 - 0.06 mg	0.04 - 0.08 mg	0.05 - 0.1 mg		EQUIPME	EQUIPMENT		
		(0.3 - 0.6 mL)		(0.5 - 1 mL)	AIRWAY MANAGEMENT				
Lidocaine 2% IV/IO	(20 mg/mL)	3 mg (0.15 mL)	4 mg (0.2 mL)	5 mg (0.25 mL)	ETT Suction Catheter	6 - 8 French	6 - 8 French	6 - 8 French	
Magnesium Sulfate IV/IO	(40 mg/mL)	150 mg (3.8 mL)	200 mg (5 mL)	250 mg (6.3 mL)	Laryngeal Mask Airway*	0.5 - 1	0.5 - 1	1	
	(80 mg/mL)	150 mg (1.9 mL)	200 mg (2.5 mL)	250 mg (3.1 mL)	i-gel Airway*	1	1	1	
Sodium Bicarbonate		3 mEq (6 mL)	4 mEq (8 mL)	5 mEq (10 mL)	King Airway*	0	0	0	
	4.8%	N/A	N/A	N/A	Laryngoscope Blade	1	1	1	
	CARDIO	VERSION/DEFIBRILLATION			Nasal Airway*	14 French	14 French	14 French	
Synchronized	1st Dose	3 Joules	4 Joules	5 Joules	Oral Airway	50 mm	50 mm	50 mm	
Cardioversion	2nd Dose	6 Joules	8 Joules	10 Joules	Oral ETT*	3.5 Uncuffed or	4.0 uncuffed or	4.0 uncuffed o	
1st Defibrillation	2110 0000	6 Joules	8 Joules	10 Joules		3.0 Cuffed	3.5 cuffed	3.5 cuffed	
2nd Defibrillation		12 Joules	16 Joules	20 Joules	Oral ETT Secured at Teeth/Gumline	9 - 10.5 cm	10 - 12 cm	10.5 - 12 cm	
3rd Defibrillation		18 Joules	24 Joules	30 Joules	OTHER				
	ford in Occasi		24 000100	50 GOLLIGO	Chest Tube or Smaller				
60	May not be included in Organizer System(s).				Pigtail Catheter*	8 - 12 French	8 - 12 French	8 - 12 French	
Nasal Alrway Size - Tip of Nose to Earlobe				Foley Urinary Catheter*	5 French	5 - 6 French	5 - 6 French		
Oral Airway Size - Corner of Mouth to Earlobe				Intraosseous (IO)	15 Gauge	15 Gauge	15 Gauge		
					NG/OG Tube	5 - 8 French	6 - 8 French	6 - 8 French	
					Peripheral IV	22 - 24 Gauge	22 - 24 Gauge	22 - 24 Gauge	
		3 kg			4 kg		5 kg	g	

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2. The Red section lists the wrong settings for cardioversion and defibrillation



Airlife, the manufacturer, is still doing an internal assessment to determine the exact plan of action of how to handle the 2025 tapes that have already been sent. The decision on how to proceed with the tapes in the field will be based on the review from their internal quality team and clinical consultants. Armstrong will be drafting a letter to those who have purchased the new Broselow Tape pending details from Airlife.

It is recommended for any agency using the Broselow Pediatric Emergency Tape, 2025 edition to remove the tapes from clinical use. The current Maine EMS prehospital protocol has references on:

- Pediatric Equipment Sizes on Pink 10 by weight and color coding
- Pediatric Vital Sizes on Pink 8 by age and weight
- Pediatric Cardiac Arrest Medication Dosages on Red 21

<u>Note</u> – A Broselow Tape is NOT a required piece of equipment (and doses listed in the tape may vary from Maine EMS approved protocols), <u>however</u> a length/weight based tape <u>IS</u> required by Maine EMS rules on all non-transporting, transporting, and air agencies at every licensure and permitted level (Maine EMS Rules Chapter 17 §5 Fluids & Medications, Page 17-7 https://www.maine.gov/ems/sites/maine.gov.ems/files/inline-files/Maine-EMS-Rules-Effective-20250226.pdf). There are many different manufacturers and products that meet this requirement, and Maine EMS does not endorse one product over another.

Please contact the Maine EMS for Children program for any assistance at maine.ems@maine.gov or 207-626-3867