

APPROVED: Signature On File In EMS Office
Executive Director

EFFECTIVE DATE: 7/01/2011

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Medical Director

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GENERAL PEDIATRIC

- I. AUTHORITY: Health and Safety Code, Division 2.5, California Code of Regulations, Title 22, Division 9
- II. PURPOSE: To serve as the treatment standard for EMTs and Paramedics within their scope of practice.
- III. PROTOCOL:

PEDIATRIC MEASUREMENTS - VITAL SIGNS - RECOMMENDED ET TUBE AND BLADE SIZES								
AGE	cm length	Weight (kg)**	Average Systolic BP	Pulse/Minute	Resp./Minute	ET Tube Size	Blade #	Broselow Tape Color
Preemie	≤-53	< 2.5	60 - 70	> 120	60	2.5 - 3 (uncuffed)	0	White
Term NB	50 - 57	2.5 - 4	60 - 70	> 120	30 - 50	3 - 3.5 (uncuffed)	1	White
3 months	58 - 65	5 - 6	70 - 80	80-160	30 - 50	3.5 (uncuffed)	1	Pink
6 months	66 - 74	7	80 - 100	80-160	30 - 50	3.5 - 4 (uncuffed)	1	Pink - Red
1 year	75 - 86	10	80 - 100	80-160	24 - 40	4 - 4.5 (uncuffed)	1	Purple
2 year	87 - 100	12 - 14	94	80-130	24 - 32	4.5 (uncuffed)	2	Yellow
4 year	100 - 113	16 - 18	98	80-120	22 - 28	5.0 (uncuffed)	2	White
6 year	114 - 132	20 - 22	102	70-115	22 - 28	5.5 (uncuffed)	2	Blue
8 year	127 - 135	25 - 26	106	70-110	20 - 24	6.0 (cuffed)	2	Orange
10 year	133 - 142	30 - 34	110	70-110	20 - 24	6.5 (cuffed)	2	Orange-Grn
12 year	138 - 150	34 - 41	114	65-110	16 - 22	7.0 (cuffed)	3	Green
13 year	155 - 165	41 - 50	118	65-110	16 - 22	7.0 (cuffed)	3	X
14 year	161 - 170	50 - 56	122	65-110	16 - 22	7.5 (cuffed)	3	X

**** Estimated Weight based upon predefined formula. To be used as a guide only and is NOT intended to replace the known or actual patient weight.**

Formulas for Systolic BP: 50th percentile BP for age over 2 → $Systolic\ BP = 90 + (2 \times age\ in\ yrs)$

Lower BP Limit → $Systolic\ BP = 70 + (2 \times age\ in\ yrs)$

Formula for ET tube size: $4 + \frac{Age\ yrs}{4}$

Formula for Weight: $kg = (2 \times age\ in\ yrs) + 10$

Abnormal Vital Signs

	<u>Respiration</u>	<u>Pulse</u>	<u>Blood Pressure</u>
Infant	> 90	> 190	< 60
Toddler	> 30	> 160	< 75
School Age	> 25	> 120	< 85
Adolescent	> 20	> 110	< 90

