

**Broselow-Luten System ~ Pediatric Alternate Airways**  
**Robert Luten MD & Scott DeBoer RN,MSN - September 2017**

www.ebroselow.com

<b>Broselow-Luten Color</b>	<b>Broselow-Luten Ideal Body Weights &amp; Patient Height</b>	<i>Ambu</i> <b>King LTS-D size &amp; Gastric access tube size</b>	<i>Ambu</i> <b>Aura Gain size &amp; Gastric access tube size</b>	<i>Mercury Medical</i> <b>Air-Q sp size</b> <i>*NO gastric access</i>	<i>Teleflex</i> <b>LMA Supreme size &amp; Gastric access tube size</b>	<i>Intersurgical</i> <b>i-gel size</b> <i>(Currently used internationally, but not approved for pediatric resuscitation in the US) &amp; Gastric access tube size</i>
Grey	3-5 kg (46-60 cm)	<b>0</b> *10 Fr	<b>1</b> *6 Fr	<b>1/2 - 1</b>	<b>1</b> *6 Fr	<b>1</b> *NO gastric access
Pink	6-7 kg (60-67 cm)	<b>1</b> *10 Fr	<b>1 1/2</b> *8 Fr	<b>1</b>	<b>1 1/2</b> *6 Fr	<b>1 1/2</b> *10 Fr
Red	8-9 kg (67-75 cm)	<b>1</b> *10 Fr	<b>1 1/2</b> *8 Fr	<b>1 1/2</b>	<b>1 1/2</b> *6 Fr	<b>1 1/2</b> *10 Fr
Purple	10-11 kg (75-84 cm)	<b>1</b> *10 Fr	<b>2</b> *10 Fr	<b>1 1/2</b>	<b>2</b> *6 Fr	<b>1 1/2</b> *10 Fr
Yellow	12-14 kg (84-97 cm)	<b>2</b> *16 Fr	<b>2</b> *10 Fr	<b>1 1/2</b>	<b>2</b> *10 Fr	<b>2</b> *10 Fr
White	15-18 kg (97-110 cm)	<b>2</b> *16 Fr	<b>2</b> *10 Fr	<b>1 1/2</b>	<b>2</b> *10 Fr	<b>2</b> *10 Fr
Blue	19-23 kg (110-122 cm)	<b>2 1/2</b> *16 Fr	<b>2 1/2</b> *10 Fr	<b>2</b>	<b>2</b> *10 Fr	<b>2</b> *10 Fr
Orange	24-29 kg (122-134 cm)	<b>2 1/2</b> *16 Fr	<b>2 1/2</b> *10 Fr	<b>2</b>	<b>2 1/2</b> *10 Fr	<b>2 1/2</b> *10 Fr
Green	30-36 kg (134-147 cm)	<b>3</b> *18 Fr	<b>3</b> *16 Fr	<b>2 1/2</b>	<b>3</b> *14 Fr	<b>2 1/2 - 3</b> *12 Fr

"The recommended Broselow-Luten Zone Sizes represent the appropriate equipment size for a child of average size (weight or length) or age for that color zone. If age alone (not height or weight) is used to access the color zone, caution must be used to assure that the patient is not large or small for age and that equipment. Size adjustments should be made accordingly."

Robert Luten MD

**Handtevy System ~ Pediatric Alternate Airways**  
**Peter Antevy MD & Scott DeBoer RN,MSN - December 2017**  
www.handtevy.com

<b>Handtevy Color</b>	<b>Handtevy Age, Ideal Body Weights &amp; Patient Height</b>	<i>Ambu</i> <b>King LTS-D size &amp; Gastric access tube size</b>	<i>Ambu</i> <b>Aura Gain size &amp; Gastric access tube size</b>	<i>Mercury Medical</i> <b>Air-Q sp size</b> <i>*NO gastric access</i>	<i>Teleflex</i> <b>LMA Supreme size &amp; Gastric access tube size</b>	<i>Intersurgical</i> <b>i-gel size</b> <i>(Currently used internationally, but not approved for pediatric resuscitation in the US) &amp; Gastric access tube size</i>
Grey	Preemie (2 kg) 45.5-48.5 cm	<b>0</b> *10 Fr	<b>1</b> *6 Fr	<b>1/2</b>	<b>1</b> *6 Fr	<b>1</b> *NO gastric access
Grey	Newborn (3-5 kg) 48.5-59.5 cm	<b>0</b> *10 Fr	<b>1</b> *6 Fr	<b>1/2 - 1</b>	<b>1</b> *6 Fr	<b>1</b> *10 Fr
Pink	4-months (6 kg) 59.5-67 cm	<b>1</b> *10 Fr	<b>1 1/2</b> *8 Fr	<b>1</b>	<b>1 1/2</b> *6 Fr	<b>1 1/2</b> *10 Fr
Red	6-months (8 kg) 67-74 cm	<b>1</b> *10 Fr	<b>1 1/2</b> *8 Fr	<b>1 1/2</b>	<b>1 1/2</b> *6 Fr	<b>1 1/2</b> *10 Fr
Purple	1-year (10 kg) 74-83.5 cm	<b>1</b> *10 Fr	<b>2</b> *10 Fr	<b>1 1/2</b>	<b>2</b> *10 Fr	<b>1 1/2</b> *10 Fr
Yellow	2-years (12 kg) 83.5-95 cm	<b>2</b> *16 Fr	<b>2</b> *10 Fr	<b>1 1/2</b>	<b>2</b> *10 Fr	<b>2</b> *10 Fr
White	3-4 years (15-17 kg) 95-108 cm	<b>2</b> *16 Fr	<b>2</b> *10 Fr	<b>1 1/2</b>	<b>2</b> *10 Fr	<b>2</b> *10 Fr
Blue	5-6 years (20-22 kg) 108-121.5 cm	<b>2 1/2</b> *16 Fr	<b>2 1/2</b> *10 Fr	<b>2</b>	<b>2</b> *10 Fr	<b>2</b> *10 Fr
Orange	7-8 years (25-27 kg) 121.5-131 cm	<b>2 1/2</b> *16 Fr	<b>2 1/2</b> *10 Fr	<b>2</b>	<b>2 1/2</b> *10 Fr	<b>2 1/2</b> *10 Fr
+6	9-13 years (30-60 kg) 131-162 cm	<b>3-4</b> *18 Fr	<b>3-4</b> *16 Fr	<b>2 1/2 - 3 1/2</b>	<b>3-4</b> *14 Fr	<b>3-4</b> *12 Fr

"The Handtevy System allows providers to utilize both age and length to determine dosing for children of average size. The Handtevy length based tape is recommended when treating children larger or smaller than their stated age or if the provider is unsure of the child's age." Peter Antevy MD

## Just the Facts...Pediatric Alternate Airways

January 2018

<b>Alternate airway</b>	<b>Where to find sizing info?</b>	<b>Where to find inflation amount?</b>	<b>Where to find gastric access tube size?</b>	<b>Printable charts for Sizing (kg), inflation amounts, &amp; gastric tube size See manufacturer websites</b>	<b>Package currently color coded to Broselow-Luten system</b>
<b>King airway (LTS-D)</b>	Package & front of airway	Package & airway	Back of airway	<a href="http://www.ambuusa.com">www.ambuusa.com</a>	Yes
<b>Ambu Aura Gain</b>	Package & pilot balloon	Package	Package & side of airway	<a href="http://www.ambuusa.com">www.ambuusa.com</a>	No*
<b>Air-Q sp</b>	Package & back of airway	n/a self-inflating	No gastric access	<a href="http://www.mercurymed.com">www.mercurymed.com</a>	No*
<b>LMA Supreme</b>	Package & front of airway	Package & airway	Only on website or written instructions for use	<a href="http://www.teleflex.com">www.teleflex.com</a>	No*
<b>i-gel</b>	Package & front of airway	n/a	Only on website or written instructions for use	<a href="http://www.intersurgicalinc.com">www.intersurgicalinc.com</a>	No*