



Choosing the appropriate size of equipment in pediatric patients

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Pediatric equipments

- Airway and breathing
- Circulation
- Supplemental equipment



RED				PURPLE			
SEIZURE		FLUIDS		SEIZURE		FLUIDS	
Lorazepam	0.9 mg	Volume Expansion		Lorazepam	1 mg	Volume Expansion	
Diazepam IV	1.7 mg	Crystalline (NS or LR)	100 mL	Diazepam IV	2 mg	Crystalline (NS or LR)	100 mL
Diazepam - RECTAL	4.2 mg	Colloid/blood	80 mL	Diazepam - RECTAL	5 mg	Colloid/blood	80 mL
Phenobarbital Load	170 mg	Maintenance		Phenobarbital Load	210 mg	Maintenance	
Phenytoin Load	130 mg	OSW + 1/2 NS +		Phenytoin Load	100 mg	OSW + 1/2 NS +	20
Fosphenytoin Load	130 mg-PE	20 mg KCAL	20 mL/HR	Fosphenytoin Load	100 mg-PE		
OVERDOSE		OVERDOSE		OVERDOSE		OVERDOSE	
Dextrose	4.25 g			Dextrose	5.25 g		
Naloxone	0.85 mg	Infusion:		Naloxone	1 mg	Infusion:	
Flumazenil	0.05 mg	Pursuant to JCAND's		Flumazenil	0.1 mg	Pursuant to JCAND's	
Glucagon	0.5 mg	National Patient Safety Goal 3b -		Glucagon	0.5 mg	National Patient Safety Goal 3b -	
Charcoal	0.5 g	"Rule of 6" for Infusions		Charcoal	10 g	"Rule of 6" for Infusions	
		should be connected to				should be connected to	
		Standardized Concentrations.				Standardized Concentrations.	
Mannitol	0.5 g			Mannitol	10 g		
Furosemide	0.5 mg			Furosemide	10 mg		
Equipment				Equipment			
O ₂ Mask		Pediatric NRB		O ₂ Mask		Pediatric NRB	
*ETCO ₂		Pediatric		*ETCO ₂		Pediatric	
*Urinary Catheter	(3-4-5 kg) 5 French, (Pink/Red) 8 French			*Urinary Catheter	(3-4-5 kg) 5 French, (Pink/Red) 8 French		
*Chest Tube	10-12 French			*Chest Tube	10-12 French		
NG Tube	5-8 French			NG Tube	5-8 French		
Vascular Access	22-24Ga			Vascular Access	22-24Ga		
Intraosseous	18Ga/15Ga			Intraosseous	18Ga/15Ga		
BP Cuff	(3-4-5 kg) Neonatal (5/Infant, (Pink/Red) Infant/Child			BP Cuff	(3-4-5 kg) Neonatal (5/Infant, (Pink/Red) Infant/Child		
*May not be included in Organizer System(s).				*May not be included in Organizer System(s).			

Airway and Breathing

- Oxygen mask
- Oral airway
- Bag-valve
- Laryngoscope
- Endotracheal tube
- Stylet
- Suction

Oxygen mask

Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
Premie, newborn	Newborn	Pediatric	Pediatric	Pediatric	Adult



Oral airway

Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
Infant	Infant, small	Small	Small	Medium	Medium, Large



(110mm, X Large)



(80mm, Small)



(100mm, Large)



(60mm, Child)



(90mm, Medium)



(40 mm, Infant)

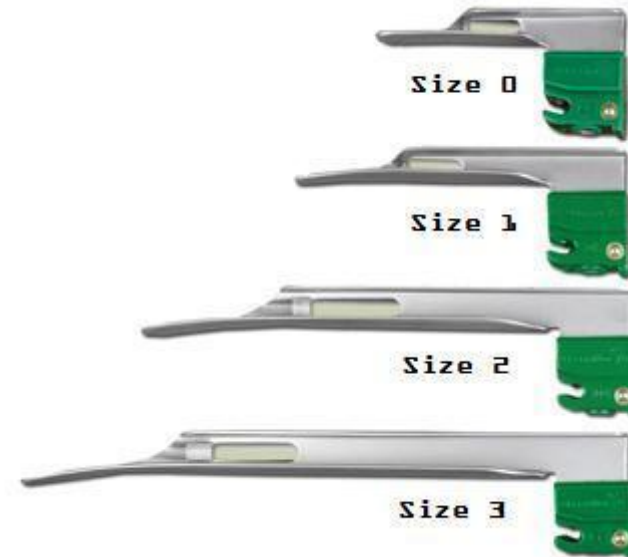
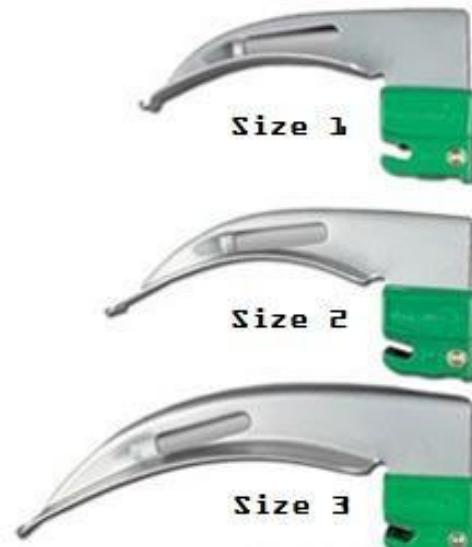
Bag-valve

Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
Infant	Infant	Pediatric	Pediatric	Pediatric	Pediatric, adult



Laryngoscope

Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
0 straight	1 straight	1 straight	1 straight	2 straight or curved	2-3 straight or curved



Endotracheal tube

Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
2.5-3.0 no cuff	3.0-3.5 no cuff	3.5-4.0 cuffed or uncuffed	4.0-4.5 cuffed or uncuffed	5.0-5.5 no cuff	5.5-6.5 cuffed



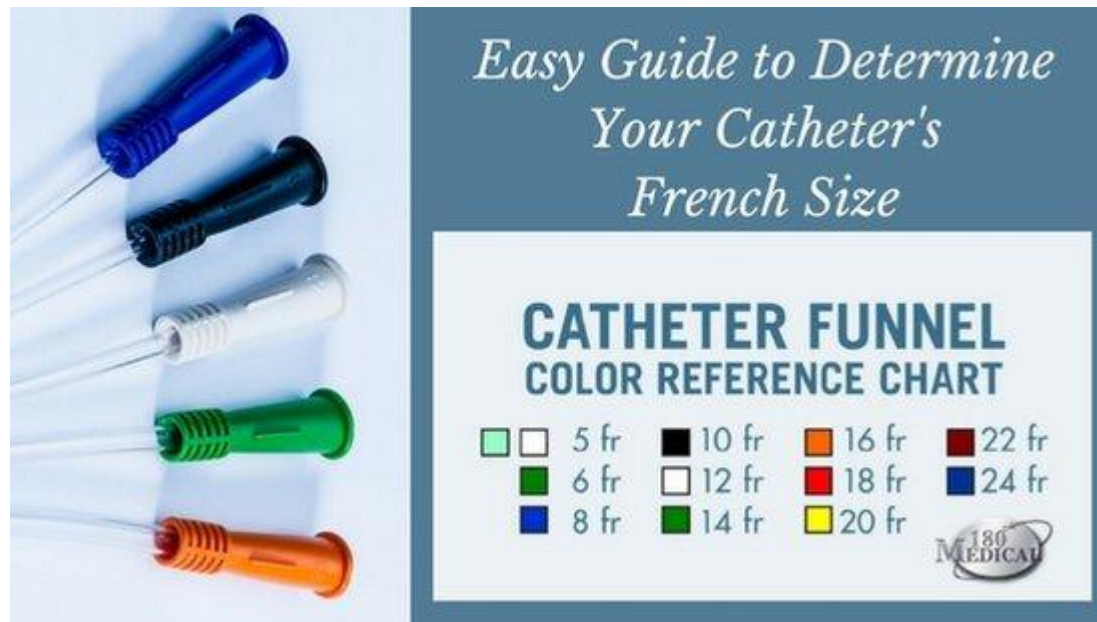
Stylet

Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
6 Fr	6 Fr	6 Fr	6 Fr	14 Fr	14 Fr

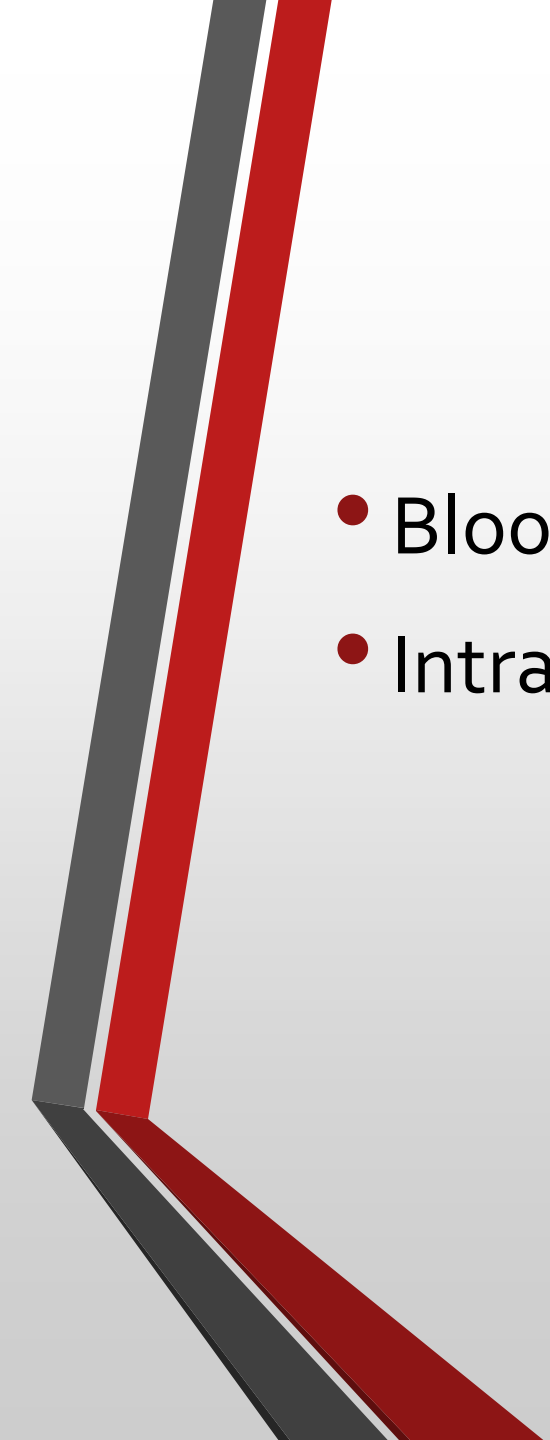


Suction

Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
6-8 Fr	8 Fr	8-10 Fr	10 Fr	14 Fr	14 Fr



<https://www.180medical.com/blog/catheters-101-the-basic-components-of-your-intermittent-catheter/>



Circulation

- Blood pressure cuff
- Intravenous catheter

Blood pressure cuff

Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
Premie, newborn	Newborn, infant	Infant, child	Child	Child	Child, adult



Neonate



Infant



Child



Adult



Adult Thigh



Thigh

Intravenous catheter

Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
22-24 ga	22 ga	22 ga	20-22 ga	20 ga	18-20 ga



SPECIFICATIONS				
Gauge	Colour Code	Ext. Dia. mm	Length mm	Flow Rate ml/min
18G	Green	1.3	32/45	90
20G	Pink	1.1	32	60
22G	Blue	0.9	25	36
24G	Yellow	0.7	19	20

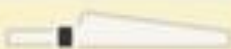
Supplemental equipment

- Orogastric / nasogastric tube
- Chest tube
- Urinary catheter
- Cervical collar

Orogastric / nasogastric tube

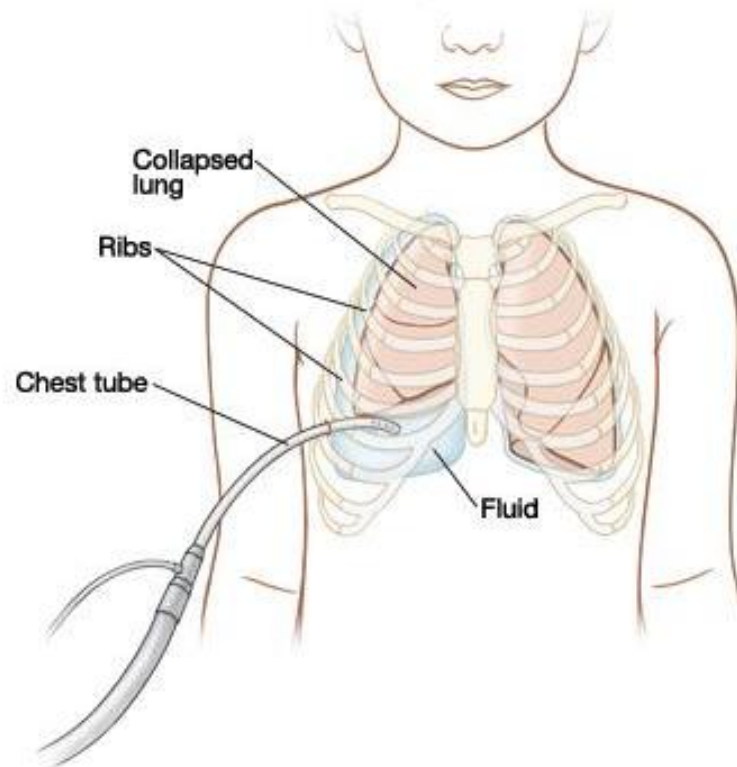
Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
8 Fr	10 Fr	12 Fr	12 Fr	12 Fr	14 Fr



8	Blue			
10	Black			
12	White			
14	Green			

Chest tube

Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
10-14 Fr	12-18 Fr	14-20 Fr	14-24 Fr	20-28 Fr	28-32 Fr



Urinary catheter

Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
5 Fr feeding	6 Fr or 5-8 Fr feeding	8 Fr	10 Fr	10-12 Fr	12 Fr



Cervical collar

Premie (3 kg)	0-6 months (3.5 kg)	6-12 months (7 kg)	1-3 years (10-12 kg)	4-7 years (16-18 kg)	8-10 years (24-30 kg)
-	-	Small	Small	Small	Medium



Images from ® <https://www.aspenmp.com/aspenr-pediatric-collar.html>

Images from ® <https://adventms.com/atlas/31-atlas-pediatric-cervical-collar.html>



Thank you for your interest.

