



PAMC Transfer center - 907-212-7363  
NICU (907) 212-3614 – Ask for attending neonatologist on call.  
Neonatologist direct line (for emergencies) (907) 212-2068.

GESTATIONAL AGE (weeks)	24	26	28	30	32	34	36	38	40
ESTIMATED WEIGHT (grams)	700	900	1100	1350	1650	2100	2600	3000	3500
<b>EQUIPMENT/SUPPLIES: NG/OG Tube - 5 French + UVC &lt;32 weeks - 3.5 French + UVC ≥32 weeks - 5 French</b>									
Laryngoscope Blade	00	00	00	0	0	0	0	0-1	0-1
ETT Size	2.5	2.5	2.5-3.0	3.0	3.0	3.0-3.5	3.5	3.5-4.0	3.5-4.0
ETT Depth lip to tip. <i>Place at T2 above the carina.</i>	6.5-7 cm	6.5-7 cm	7 cm	7-7.5 cm	7.5 cm	8 cm	8.5 cm	9 cm	9.5 cm
Laryngeal mask airway (LMA)	none	none	none	none	Consult NICU.	1	1	1	1
Needle decompression. <i>See kit and protocol in neonatal code cart.</i>	18 gauge	18 gauge	18 gauge	18 gauge	18 gauge	16 gauge	16 gauge	16 gauge	16 gauge
UVC insertion. <i>Place just above diaphragm. Add umbilical stump length.</i> <b>May insert UVC 2-4 cm for emergency access.</b>	6.5 cm	6.9 cm	7.2 cm	7.5 cm	8 cm	8.7 cm	9.4 cm	10 cm	10.8 cm

**VITAL SIGNS: Heart Rate 120-160 + Respiratory Rate 30-60 + Mean Blood Pressure = Gestational age in weeks**

### INITIAL VENTILATOR SETTINGS

Positive Inspiratory Pressure (PIP) cm H <sub>2</sub> O	16-22	16-22	16-22	16-22	18-24	18-24	18-24	20-28	20-28
Positive End Expiratory Pressure (PEEP) cm H <sub>2</sub> O	4-6	4-6	4-6	4-6	4-6	5-6	5-6	5-6	5-6
Inspiratory Time (seconds)	0.3-0.35	0.3-0.35	0.3-0.35	0.3-0.35	0.3-0.35	0.3-0.35	0.35-0.4	0.35-0.4	0.35-0.4
Respiratory Rate (breaths per minute)	30-45	30-45	30-45	30-45	20-40	20-40	20-40	20-40	20-40
Saturation Goal after 10 Minutes	88-95%	88-95%	88-95%	88-95%	88-95%	88-95%	88-95%	95-98%	95-98%

### MEDICATIONS

Epinephrine <b>IV/IO 0.1 mg/mL</b> 0.2 mL/kg. <i>May repeat every 3 minutes for asystole.</i>	0.14 mL	0.18 mL	0.22 mL	0.27 mL	0.33 mL	0.4 mL	0.5 mL	0.6 mL	0.7 mL
Epinephrine <b>ET ONLY 0.1 mg/mL</b> 1 mL/kg. <i>May repeat every 3 minutes for asystole.</i>	0.7 mL	0.9 mL	1.1 mL	1.3 mL	1.6 mL	2.1 mL	2.6 mL	3 mL	3.5 mL
Curosurf (poractant alfa 80 mg/mL) 2.5 mL/kg as a single dose. Give Curosurf <26 weeks OR 26-29 weeks requiring ≥40% FiO <sub>2</sub> OR >29 weeks with CXR-proven RDS. See <a href="#">guideline</a> for more details.	1.8 mL	2.2 mL	2.8 mL	3.4 mL	4 mL	5.2 mL	6.6 mL	7.6 mL	8.8 mL
<b>FOR HYPOGLYCEMIA:</b> Give D10 bolus 2 mL/kg IV/IO at 1 mL/min. Increase D10 maintenance fluid rate by 1 mL/hour for <2 kg or 2 mL/hour for ≥2 kg.	1.4 mL	1.8 mL	2.2 mL	2.7 mL	3.3 mL	4.2 mL	5.2 mL	6 mL	7 mL
Ampicillin ( <b>Dilute to 100 mg/mL</b> ) 50 mg/kg IV/IM	35 mg (0.35 mL)	45 mg (0.45 mL)	55 mg (0.55 mL)	68 mg (0.68 mL)	83 mg (0.83 mL)	105 mg (1.05 mL)	130 mg (1.3 mL)	150 mg (1.5 mL)	175 mg (1.75 mL)
Gentamicin (2 mg/mL) 5 mg/kg IV as one-time dose. May give IM. <b>DO NOT USE IN VILLAGE.</b>	3.5 mg (1.75 mL)	4.5 mg (2.25 mL)	5.5 mg (2.75 mL)	6.8 mg (3.4 mL)	8.2 mg (4.1 mL)	10.4 mg (5.2 mL)	13 mg (6.5 mL)	15 mg (7.5 mL)	17.6 mg (8.8 mL)
Volume Expanders: NS or albumin 10 mL/kg IV/IO. Give over 15-30 minutes; give faster if unstable; give slower for extreme premies.	7 mL	9 mL	11 mL	13.5 mL	16.5 mL	21 mL	26 mL	30 mL	35 mL
D10 Maintenance Fluids: <750 grams give 90-100 mL/kg/24 hours + ≥750 grams give 80 mL/kg/24 hours. Goal blood glucose is 50-110 mg/dL.	3 mL/hour	3 mL/hour	3.7 mL/hour	4.5 mL/hour	5.5 mL/hour	7 mL/hour	8.7 mL/hour	10 mL/hour	12 mL/hour
Phenobarbital (130 mg/mL) 10 mg/kg IV/IO/IM/PR. May give additional 10 mg/kg dose.	7 mg (0.05 mL)	9 mg (0.07 mL)	11 mg (0.08 mL)	13.5 mg (0.1 mL)	16.5 mg (0.13 mL)	21 mg (0.16 mL)	26 mg (0.2 mL)	30 mg (0.23 mL)	35 mg (0.27 mL)



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### Epinephrine 0.1 mg/mL

- This is the pre-filled syringe concentration.
- Draw up doses by inserting needle through the thick rubber stopper.
- Flush with 3 mL of NS regardless of weight or gestational age.

### Ampicillin 100 mg/mL

#### Products needed:

- Ampicillin 500 mg vial
- Sterile water for injection, 10 mL vial

#### How to mix:

1. Reconstitute 500 mg vial with 4.8 mL sterile water for injection. This will result in a 100 mg/mL final concentration.
2. The Neonatal Resuscitation Summary (page 1) lists the total dose and volume – draw up dose from vial.
3. Dose must be used within 1 hour of reconstitution.

#### Administration:

- Doses less than 500 mg can be injected via slow IV push over 3 to 5 minutes.
- Not compatible with D10W.
- Administer before gentamicin – do not administer at the same time.

### Gentamicin 2 mg/mL

#### Product needed:

- Gentamicin 100 mg/50 mL pre-mixed bag.

**DO NOT ADMINISTER THE BAG – the dose will be administered via syringe pump.**

The Neonatal Resuscitation Summary (page 1) lists the total dose and volume – draw up this volume from the bag and **immediately dispose of the bag.**

#### Administration:

- Administer after ampicillin – do not administer at the same time.
- Administer via **syringe pump** over 30 minutes.
- Compatible with D10W.

**Rapid Sequence Intubation Medications: Consult NICU prior to use.** Do not use in routine resuscitation. Consider for surfactant administration and in difficult airway.

GESTATIONAL AGE (weeks)	24	26	28	30	32	34	36	38	40
ESTIMATED WEIGHT (grams)	700	900	1100	1350	1650	2100	2600	3000	3500
Atropine (0.1 mg/mL) – 0.02 mg/kg	0.01 mg (0.1 mL)	0.02 mg (0.2 mL)	0.02 mg (0.2 mL)	0.03 mg (0.3 mL)	0.03 mg (0.3 mL)	0.04 mg (0.4 mL)	0.05 mg (0.5 mL)	0.06 mg (0.6 mL)	0.07 mg (0.7 mL)
Fentanyl (**10 mcg/mL**) – 1 mcg/kg (May repeat dose once.) <b>Push slowly over 3-5 minutes.</b> Have dose of rocuronium drawn up in case of chest wall rigidity.	0.7 mcg (0.07 mL)	0.9 mcg (0.09 mL)	1.1 mcg (0.11 mL)	1.4 mcg (0.14 mL)	1.7 mcg (0.17 mL)	2.1 mcg (0.21 mL)	2.6 mcg (0.26 mL)	3 mcg (0.3 mL)	3.5 mcg (0.35 mL)
Rocuronium (10 mg/mL) – 0.6 mg/kg <b>Do not routinely use. Reserve for difficult airways.</b>	0.4 mg (0.04 mL)	0.5 mg (0.05 mL)	0.7 mg (0.07 mL)	0.8 mg (0.08 mL)	1 mg (0.1 mL)	1.3 mg (0.13 mL)	1.6 mg (0.16 mL)	1.8 mg (0.18 mL)	2.1 mg (0.21 mL)
Naloxone (0.4 mg/mL) – 0.1 mg/kg	0.07 mg (0.18 mL)	0.09 mg (0.23 mL)	0.11 mg (0.28 mL)	0.14 mg (0.35 mL)	0.16 mg (0.4 mL)	0.2 mg (0.5 mL)	0.26 mg (0.65 mL)	0.3 mg (0.75 mL)	0.35 mg (0.9 mL)

### Fentanyl 10 mcg/mL

#### Products needed:

- Fentanyl 50 mcg/mL, 2 mL vial
- Preservative-free normal saline

#### How to mix:

1. Draw up 1 mL of fentanyl 50 mcg/mL.
2. Add to 4 mL of normal saline.

#### Administration:

- Inject via slow IV push over 3 to 5 minutes.
- If chest wall rigidity develops, give dose of rocuronium or naloxone.

### RSI Drug Notes

#### • Drug Locations:

- Atropine and naloxone located in neonatal code cart.
- Fentanyl 50 mcg/mL and rocuronium located in OB Pyxis.

- May flush with 0.5-1 mL of NS if needed.