

(place patient label here)

Patient Name: _____



PROVIDER ORDERS

Order Set Directions:

- > (✓)- Check orders to activate; Orders with pre-checked box will be followed unless lined out.
- > Initial each place in the pre-printed order set where changes such as additions, deletions or line outs have been made
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Diagnosis: _____

Allergies with reaction type: _____

NICU Sedation Drips

Version 1 Approved 05/02/2013

Patient Weight: _____

Medications

Sedation Drips for infants greater than 1500 grams

Analgesics: Opioids

fentanyl 200 microgram in 25 milliliter Dextrose 5% water (8 microgram/milliliter)

- _____ microgram/kilogram per hour (_____ milliliter/hour) continuous intravenous infusion (Dose range: 0.5-3 microgram/kilogram per hour)

Sedatives: Benzodiazepines

midazolam (VERSED) 20 milligrams in 25 milliliters Dextrose 5% water (0.8 milligram/milliliter)

- _____ milligram/kilogram per hour (_____ milliliter/hour) continuous intravenous infusion (Dose range: 0.05-0.2 milligram/kilogram per hour)

Neuromuscular Blocking Agents - Nondepolarizing

vecuronium (NORCURON) 10 milligram in 10 milliliter Dextrose 5% water (1 milligram/milliliter)

- _____ milligram/kilogram per hour (_____ milliliter/hour) continuous intravenous infusion (Dose range: 0.1-0.15 milligram/kilogram per hour)

Sedation Drips for infants less than or equal to 1500 grams

Analgesics: Opioids

fentanyl 100 microgram in 25 milliliter Dextrose 5% water (4 microgram/milliliter)

- _____ microgram/kilogram per hour (_____ milliliter/hour) continuous intravenous infusion (Dose range: 0.5-3 microgram/kilogram per hour)

fentanyl 50 micrograms in 25 milliliter Dextrose 5% water (2 microgram/milliliter)

- _____ microgram/kilogram per hour (_____ milliliter/hour) continuous intravenous infusion **Use only if patient is less than 800 gram and infusing less than or equal to 1 microgram/kilogram per hour**

Sedatives: Benzodiazepines

midazolam (VERSED) 5 milligram in 25 milliliter Dextrose 5% water (0.2 milligram/milliliter)

- _____ milligram/kilogram per hour (_____ milliliter/hour) continuous intravenous infusion (Dose range: 0.05-0.2 milligrams per kilogram per hour)

Neuromuscular Blocking Agents - Nondepolarizing

vecuronium (NORCURON) 10 milligram in 25 milliliter Dextrose 5% water (0.4 milligram/milliliter)

- _____ milligram/kilogram per hour (_____ milliliter/hour) continuous intravenous infusion (Dose range: 0.1-0.15 milligram per kilogram per hour)

Provider Signature: _____ Date: _____ Time: _____

SEDATION DRIPS GREATER THAN 1500 G- NICU
 Fentanyl Drip 8 micrograms/mL
 (rates in chart = mL/hr)

		<u>Weight (kg)</u>												
		1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	3	3.5	4
<u>mcg/kg/hr</u>	0.5	0.1	0.11	0.11	0.12	0.13	0.13	0.14	0.14	0.15	0.16	0.19	0.22	0.25
	1	0.2	0.21	0.23	0.24	0.25	0.26	0.28	0.29	0.3	0.31	0.38	0.44	0.5
	1.5	0.3	0.32	0.34	0.36	0.38	0.39	0.41	0.43	0.45	0.47	0.56	0.66	0.75
	2	0.4	0.43	0.45	0.48	0.5	0.53	0.55	0.58	0.6	0.63	0.75	0.88	1
	2.5	0.5	0.53	0.56	0.59	0.63	0.66	0.69	0.72	0.75	0.78	0.94	1.09	1.25
	3	0.6	0.64	0.68	0.71	0.75	0.79	0.83	0.86	0.9	0.94	1.13	1.31	1.5

Equation: $\text{mcg/kg/hr} \times \text{kg} / 8 = \text{mL/hr}$

Midazolam 0.8 mg/mL
 (rates in chart = mL/hr)

		<u>Weight (kg)</u>												
		1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	3	3.5	4
<u>mg/kg/hr</u>	0.05	0.1	0.11	0.11	0.12	0.13	0.13	0.14	0.14	0.15	0.16	0.19	0.22	0.25
	0.1	0.2	0.21	0.23	0.24	0.25	0.26	0.28	0.29	0.3	0.31	0.38	0.44	0.5
	0.15	0.3	0.32	0.34	0.36	0.38	0.39	0.41	0.43	0.45	0.47	0.56	0.66	0.75
	0.2	0.4	0.43	0.45	0.48	0.5	0.53	0.55	0.58	0.6	0.63	0.75	0.88	1

Equation: $\text{mg/kg/hr} \times \text{kg} / 0.8 = \text{mL/hr}$

Vecuronium 1 mg/mL
 (rates in chart = mL/hr)

		<u>Weight (kg)</u>												
		1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	3	3.5	4
<u>mg/kg/hr</u>	0.1	0.1	0.1	0.1	0.1			0.2	0.2	0.2	0.2		0.3	
	0.1	6	7	8	9	0.2	0.21	2	3	4	5	0.3	5	0.4
	5	4	6	7	9	0.3	0.32	3	5	6	8	5	3	0.6

Equation: $\text{mg/kg/hr} \times \text{kg} / 1 = \text{mL/hr}$

SEDATION DRIPS LESS THAN OR EQUAL TO 1500 G- NICU

Fentanyl Drip 4 micrograms/mL
(rates in chart = mL/hr)

		Weight (kg)											
		0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5
mcg/kg/hr	0.5					0.1	0.11	0.13	0.14	0.15	0.16	0.18	0.19
	1	0.1	0.13	0.15	0.18	0.2	0.23	0.25	0.28	0.3	0.33	0.35	0.38
	1.5	0.15	0.19	0.23	0.26	0.3	0.34	0.38	0.41	0.45	0.49	0.53	0.56
	2	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75
	2.5	0.25	0.31	0.38	0.44	0.5	0.56	0.63	0.69	0.75	0.81	0.88	0.94
	3	0.3	0.38	0.45	0.53	0.6	0.68	0.75	0.83	0.9	0.98	1.05	1.13

Equation: $\text{mcg/kg/hr} \times \text{kg} / 4 = \text{mL/hr}$

Fentanyl Drip 2 micrograms/mL (only use if < 800 grams)
(rates in chart = mL/hr)

		Weight (kg)											
		0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5
mcg/kg/hr	0.5	0.1	0.13	0.15	0.18								

Equation: $\text{mcg/kg/hr} \times \text{kg} / 2 = \text{mL/hr}$

Midazolam 0.2 mg/mL
(rates in chart = mL/hr)

		Weight (kg)											
		0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5
mg/kg/hr	0.05	0.1	0.13	0.15	0.18	0.2	0.23	0.25	0.28	0.3	0.33	0.35	0.38
	0.1	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75
	0.15	0.3	0.38	0.45	0.53	0.6	0.68	0.75	0.83	0.9	0.98	1.05	1.13
	0.2	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5

Equation: $\text{mg/kg/hr} \times \text{kg} / 0.2 = \text{mL/hr}$

Vecuronium 0.4 mg/mL
(rates in chart = mL/hr)

		Weight (kg)											
		0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5
mg/kg/hr	0.1	0.1	0.13	0.15	0.18	0.2	0.23	0.25	0.28	0.3	0.33	0.35	0.38
	0.15	0.15	0.19	0.23	0.26	0.3	0.34	0.38	0.41	0.45	0.49	0.53	0.56

Equation: $\text{mg/kg/hr} \times \text{kg} / 0.4 = \text{mL/hr}$