HEALTHEAST MEDICAL TRANSPORTATION MEDICAL OPERATIONS MANUAL

PROPOFOL (Diprivan)

Drug Classification: General Anesthetic

BACKGROUND

Pharmacodynamics

Propofol (Diprivan) binds to GABAA receptors in the central nervous system. These receptors, once blocked, are known to cause a reduction in anxiety and also induce sleep. **Propofol (Diprivan)** is known to bind to these sites and in sufficient quantities can induce a dreamless, near coma-like state in those given the drug.

Indications

Intravenous anesthetic agent used for induction and maintenance of general anesthesia. IV
administration of propofol (Diprivan) is used to induce unconsciousness in addition to continued
use for management of intubated and mechanically ventilated patients.

Contraindications

- Hypotension
- Allergies to eggs, egg products, soybeans or soy products.

Cautions

- Bradycardia, hypotension, hypertension, decreased cardiac output may result from administration. Monitor blood pressure, pulse rate, and level of sedation for evidence of sideeffects
- Elderly patients are greater risk of adverse effects due to higher peak levels. Reduce loading and continuous doses by 50%.

DOSAGE and ADMINISTRATION

	ADULT	PEDIATRICS (less than 60 kg)					
1.	If patient not currently on propofol (Diprivan) administer 1-2 mg/kg ¹ by delivering 20-40 mg every 10 seconds until desired level of sedation is achieved.	1.	If patient not currently on propofol (Diprivan) administer 2-3 mcg/kg ¹ by delivering 20-40 mg every 10 seconds until desired level of sedation is achieved.				
2.	Initiate propofol (Diprivan) infusion at 5 mcg/kg/min ² and increase by 5-10 mcg/kg/min every 5-10 minutes until desired level of sedation is achieved. 150 mcg/kg/min maximum approved infusion. Decrease infusion in the event of hypotention ³ .	2.	Initiate propofol (Diprivan) infusion at 5 mcg/kg/min ² and increase by 5-10 mcg/kg/min every 5-10 minutes until desired level of sedation is achieved. 150 mcg/kg/min maximum approved infusion. Decrease infusion in the event of hypotention ³ .				
3.	Supplement sedation with midazolam (Versed) and fentanyl (Sublimaze) as needed.	3.	Supplement sedation with midazolam (Versed) and fentanyl (Sublimaze) as needed.				

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ADVERSE REACTIONS/SIDE EFFECTS

- Severe hypotension
- Bradycardia

NOTES

Propofol Drip Chart 1% (10 mg/ml)

DRUG PROPOFOL

INDICATIONS INITIATION AND MAINTENANCE OF ICU SEDATION IN INTUBATED, MECHANICALLY VENTILATED

CONCENTRATION 10 MG/ML (10,000 MCG/ML)
USUAL DOSE 5-50 MCG/KG/MIN

CONTRAINDICATIONS: SULFITE ALLERGIES

PATIENT WEIGHT	PATIENT WEIGHT	DOSE (MCG/KG/MIN)									
(kg)	(lbs)	5	10	15	20	25	30	35	40	45	50
40	88	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0
45	99	1.4	2.7	4.1	5.4	6.8	8.1	9.5	10.8	12.2	13.5
50	110	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0
55	121	1.7	3.3	5.0	6.6	8.3	9.9	11.6	13.2	14.9	16.5
60	132	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0
65	143	2.0	3.9	5.9	7.8	9.8	11.7	13.7	15.6	17.6	19.5
70	154	2.1	4.2	6.3	8.4	10.5	12.6	14.7	16.8	18.9	21.0
75	165	2.3	4.5	6.8	9.0	11.3	13.5	15.8	18.0	20.3	22.5
80	176	2.4	4.8	7.2	9.6	12.0	14.4	16.8	19.2	21.6	24.0
85	187	2.6	5.1	7.7	10.2	12.8	15.3	17.9	20.4	23.0	25.
90	198	2.7	5.4	8.1	10.8	13.5	16.2	18.9	21.6	24.3	27.0
95	209	2.9	5.7	8.6	11.4	14.3	17.1	20.0	22.8	25.7	28.
100	220	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0
105	231	3.2	6.3	9.5	12.6	15.8	18.9	22.1	25.2	28.4	31.
110	242	3.3	6.6	9.9	13.2	16.5	19.8	23.1	26.4	29.7	33.0
115	253	3.5	6.9	10.4	13.8	17.3	20.7	24.2	27.6	31.1	34.
120	264	3.6	7.2	10.8	14.4	18.0	21.6	25.2	28.8	32.4	36.
125	275	3.8	7.5	11.3	15.0	18.8	22.5	26.3	30.0	33.8	37.
130	286	3.9	7.8	11.7	15.6	19.5	23.4	27.3	31.2	35.1	39.
135	297	4.1	8.1	12.2	16.2	20.3	24.3	28.4	32.4	36.5	40.
140	308	4.2	8.4	12.6	16.8	21.0	25.2	29.4	33.6	37.8	42.0
145	319	4.4	8.7	13.1	17.4	21.8	26.1	30.5	34.8	39.2	43.
150	330	4.5	9.0	13.5	18.0	22.5	27.0	31.5	36.0	40.5	45.
155	341	4.7	9.3	14.0	18.6	23.3	27.9	32.6	37.2	41.9	46.
160	352	4.8	9.6	14.4	19.2	24.0	28.8	33.6	38.4	43.2	48.0
165	363	5.0	9.9	14.9	19.8	24.8	29.7	34.7	39.6	44.6	49.
170	374	5.1	10.2	15.3	20.4	25.5	30.6	35.7	40.8	45.9	51.
						RATE (ML	/HOUR)				

¹ Reduce propofol dose by 50% for elderly, debilitated, or septic patients

² Per propofol infusion chart

³ Discontinue infusion in the event of severe hypotension or symptomatic bradycardia. Continue sedation with midazolam and fentanyl as needed.