

Appendix 1

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Nursing Titration Guide

Medication	Initial Infusion Rate (to be determined by LIP)	Minimum Increase Titration Rate Increment	Maximum Increase Titration Rate Increment	Maximum Rate	Down Titration Rate Increment	Targeted Parameters	Indications to Call LIP	Monitoring
Fentanyl	25 mcg/hr	25 mcg/hr every 30 minutes	50 mcg/hr every 20 minutes	500 mcg/hr	50 mcg/hr every 60 minutes	Target RASS	Goal RASS not achieved with maximum dose, patient over-sedated, patient develops respiratory depression (not intubated)	<ul style="list-style-type: none"> - Continuous ETCO2 and pulse oximetry monitoring - Monitor V/S, RASS, and pain score at initiation or with any dose/rate change, then: <ul style="list-style-type: none"> • Every 15 mins x 4 • Every 30 min x 2 • Every 1 hour x 4 • Every 2 hours x 6, then • Every 4 hours, once stable
Dexmedetomidine (Precedex [®])	0.2 mcg/kg/hr	0.1 mcg/kg/hr every 30 minutes	0.2 mcg/kg/hr every 30 minutes	1.5 mcg/kg/hr	0.2 mcg/kg/hr every 30 minutes	Target RASS	Goal RASS not achieved with maximum dose, patient over-sedated, adverse hemodynamic effects	<ul style="list-style-type: none"> - Monitor for bradycardia and hypotension - For dose/rate change, monitor RASS and vital signs <ul style="list-style-type: none"> • Every 15 mins x 4 • Every 1-hour x 3, then • Every 4 hours, at minimum
Propofol (Diprivan [®])	10 mcg/kg/min	5 mcg/kg/min every 10 minutes	10 mcg/kg/min every 5 minutes	75 mcg/kg/min	10 mcg/kg/min every 10 minutes	Target RASS	Goal RASS not achieved with maximum dose, patient over-sedated, adverse hemodynamic effects	<ul style="list-style-type: none"> - Cardiac monitoring (HR, BP) - Triglycerides every 3-7 days - For dose/rate change monitor RASS, HR, and BP <ul style="list-style-type: none"> • Every 15 mins x 4 • Every 1-hour x 2 or until stable dose achieved, then • Every 4 hours, once stable

LIP: licensed independent practitioner, RASS: Richmond Agitation Sedation Scale; VS: vital signs; HR: heart rate; BP: blood pressure

Note: If more than one agent within a therapeutic class is prescribed, an agent priority must be designated.

Propofol Dose Requirements for RASS Goal per Day

Dose required for RASS per day	IBW n=25	ABW n=25
Day 1		
Dose for RASS 0	20 [20-20]	25 [25-35]
Dose for RASS -1		27.5 [19-36]
Dose for RASS -2	30 [20-40]	35 [24-48]
Dose for RASS -3	35 [31-38]	40 [20-40]
Dose for RASS -4	30 [20-35]	50 [50-50]
Day 2		
Dose for RASS 0	30 [30-30]	20 [15-23]
Dose for RASS -1	-	25 [20-30]
Dose for RASS -2	32 [20-40]	20 [15-40]
Dose for RASS -3	35 [25-40]	40 [30-60]
Dose for RASS -4	35 [25-38]	30 [30-30]
Day 3		
Dose for RASS 0	30 [30-30]	35 [35-35]
Dose for RASS -1	25 [23-28]	25 [23-28]
Dose for RASS -2	35 [16-43]	32.5 [16-46]
Dose for RASS -3	30 [23-33]	30 [18-40]
Dose for RASS -4	-	27.5 [21-34]

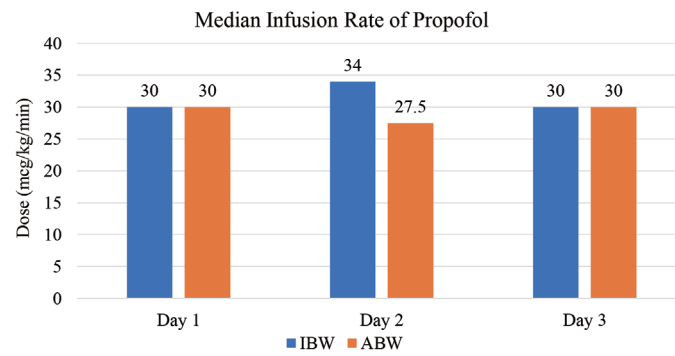


Figure S1 Median daily propofol infusion rate. IBW, ideal body weight; ABW, actual body weight.