

SOUTH PLAINS EMERGENCY MEDICAL SERVICE

PROTOCOL SUPPLEMENT 2023

Contents:

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- Pediatric Drug Charts
- IV Drip Rate Formulas & Examples

VERSED (Midazolam)

INDICATIONS	Premedication for cardioversion, Seizures , Chemical Sedation and Restraint
ADMINISTRATION	IV, IO, IM, IN (Intranasal)
DOSAGE	
ADULT	<p>Cardioversion:</p> <ul style="list-style-type: none"> • IV/IO: 5mg IV or IO if BP>90mmHg (2.5mg if patient is >60 years of age) • IN: 0.2mg/kg to a max of 5mg, repeated every 5-10 minutes as needed as long as SBP > 90mmHg <p>Chemical Sedation:</p> <ul style="list-style-type: none"> • IV/IO,IM: 1-5mg IV, IO or IM 0.5mg/kg to a max of 5mg per dose • IN: 0.2mg/kg to a max of 5mg, repeated every 5-10 minutes as needed as long as SBP > 90mmHg <p>Seizure:</p> <ul style="list-style-type: none"> • IM: 5mg IM, may be repeated at 2.5mg every 10 minutes as needed to control seizure activity. • IN: 0.2mg/kg to a max of 5mg, May repeat every 5-10 minutes at 0.1mg/kg to a max of 2.5
PEDIATRIC	<p>Cardioversion:</p> <ul style="list-style-type: none"> • IV/IO: 0.1mg/kg IV or IO to a max of 2.5mg <p>Chemical Sedation:</p> <ul style="list-style-type: none"> • IV/IO,IM: 0.1mg/kg IV or IO to a max of 5mg • IN: 0.2mg/kg to a max of 5mg, repeated every 5-10 minutes as needed as long as SBP > 90mmHg <p>Seizures:</p> <ul style="list-style-type: none"> • IM: 0.2mg/kg IM to a max of 5mg, may repeat 0.1mg/kg every 10 minutes as needed. • IN: 0.2mg/kg to a max of 5mg, May repeat every 5-10 minutes at 0.1mg/kg to a max of 2.5
THERAPEUTIC EFFECTS	<ul style="list-style-type: none"> • C.N.S. depressant • The agent causes amnesia by unknown mechanism
CONTRAINDICATIONS	<ul style="list-style-type: none"> • Hypersensitivity • Pre-existing respiratory depression due to drugs or C.N.S. dysfunction • Use with caution, if at all, for shock states, head injury patients and comatose patients
SIDE EFFECTS	<ul style="list-style-type: none"> • Amnesia, Tonic-clonic activity, drowsiness, and lethargy • Tachycardia and Hypotension • Photophobia, blurred vision and nystagmus • Nausea, vomiting, depressed gag reflex • Pain and phlebitis at injection site
SPECIAL NOTES/RESTRICTIONS	<ul style="list-style-type: none"> • This agent is 3-4 times as potent as diazepam on a milligram to milligram basis. Its has a more rapid onset and shorter half-life than Valium • Monitor ECG, V/S, and SPO2 continuously • For patients with VAD device, only use for continuous seizures, and use the lowest effective dose

XOPENEX
(Levalbuterol)

INDICATIONS	Respiratory distress with patients that have Asthma or COPD
ADMINISTRATION	Nebulized via supplemental oxygen
DOSAGE	
ADULT	1.25mg/3ml nebulized, may repeat once if no relief
PEDIATRIC	1.25mg/3ml nebulized, may repeat once if no relief
THERAPEUTIC EFFECTS	<ul style="list-style-type: none"> • Relaxes soft muscles • Causes bronchodilation • Causes cardiac stimulation
CONTRAINDICATIONS	<ul style="list-style-type: none"> • Hypersensitivity to drug • Tachydysrhythmias • Severe cardiac disease
SIDE EFFECTS	<ul style="list-style-type: none"> • Dizziness • Migraine • Nervousness • Anxiety • Tachycardia • Increased cough
SPECIAL NOTES/RESTRICTIONS	<ul style="list-style-type: none"> • Use with caution in patients with Cardio Vascular disorders • Use caution in patients with Diabetes and seizure disorders • For patients with a VAD device, limit to one dose

ZOFRAN
(Ondansetron)

INDICATIONS	Nausea and Vomiting
ADMINISTRATION	IV, IO
DOSAGE	
ADULT	<ul style="list-style-type: none"> • 4mg IV/IO push
PEDIATRIC	<ul style="list-style-type: none"> • <i>NOT INDICATED FOR CHILDREN < 2 YEARS OF AGE</i> • Over 2 years of age: 0.1mg/kg IV/IO push to a max of 4mg
THERAPEUTIC EFFECTS	<ul style="list-style-type: none"> • Helps reverse the effects of nausea • May potentate the effects of CNS depressants
CONTRAINDICATIONS	<ul style="list-style-type: none"> • Hypersensitivity to drug • Intestinal obstruction • Seizure disorder
SIDE EFFECTS	<ul style="list-style-type: none"> • Dizziness • Drowsiness • Blurred Vision • Hypotension • Constipation • Diarrhea • Fatigue
SPECIAL NOTES/RESTRICTIONS	Do NOT administer to children < 2 YOA

ADULT MEDICATIONS FOR WEIGHTS UP TO 100KG Page 1 of 2

Weight (lbs)	110lbs	132lbs	154lbs	176lbs	198lbs	220lbs
Weight (kg)	50kg	60kg	70kg	80kg	90kg	100kg
Acetaminophen (PO), 10mg/kg up to 1,000mg (500mg tablets)	500mg (1 tablet)	500mg (1 tablet)	500mg (1 tablet)	1,000mg (2 tablets)	1,000mg (2 tablets)	1,000mg (2 tablets)
IV Acetaminophen, 1,000mg in 100ml of D5W or NS Given IV infusion over 15 minutes	100cc over 15 minutes	100cc over 15 minutes	100cc over 15 minutes	100cc over 15 minutes	100cc over 15 minutes	100cc over 15 minutes
Activated Charcoal 1g/kg up to 50g	50g PO	50g PO	50g PO	50g PO	50g PO	50g PO
Adenosine 12mg Rapid IV push, may be repeated once at 12mg rapid IV push	12mg	12mg	12mg	12mg	12mg	12mg
Amiodarone 150mg IV over 10 minutes for VT with a pulse	150mg	150mg	150mg	150mg	150mg	150mg
Amiodarone 300mg rapid IV for VF/VT without a pulse may repeat once at 150mg	300mg	300mg	300mg	300mg	300mg	300mg
Aspirin (ASA) 325mg PO	325mg	325mg	325mg	325mg	325mg	325mg
Atropine for Bradycardia 1mg may be repeated to a max of 3mg	1mg	1mg	1mg	1mg	1mg	1mg
Benadryl 50mg IVP	50mg	50mg	50mg	50mg	50mg	50mg
Calcium Gluconate 1 gram SLOW IV Push	1 gram	1 gram	1 gram	1 gram	1 gram	1 gram
Decadron 20mg SIVP	20mg	20mg	20mg	20mg	20mg	20mg
Dextrose 10% (D10W): Administer IV bolus using a 10-Drop set. Titrate to LOC.	Titrate to Effect	Titrate to Effect	Titrate to Effect	Titrate to Effect	Titrate to Effect	Titrate to Effect
Dopamine 5mcg/kg/min 200mg/250mL (60-Drop Set)	18gtts/min	23gtts/min	26gtts/min	30gtts/min	34gtts/min	38gtts/min
Dopamine 10mcg/kg/min 200mg/250mL (60-Drop Set)	38gtts/min	45gtts/min	53gtts/min	60gtts/min	68gtts/min	75gtts/min
Dopamine 15mcg/kg/min 200mg/250mL (60-Drop Set)	56gtts/min	68gtts/min	79gtts/min	90gtts/min	101gtts/min	113gtts/min
Dopamine 20mcg/kg/min 200mg/250mL (60-Drop Set)	75gtts/min	90gtts/min	105gtts/min	120gtts/min	135gtts/min	150gtts/min
Duo-Neb, 3mg of Albuterol with 0.5mg of Ipratropium in 3cc, Nebulized (Albuterol/Ipratropium)	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc
Epi 1:1,000 0.3mg IM	0.3mg	0.3mg	0.3mg	0.3mg	0.3mg	0.3mg
Epi 1:10,000 1mg IVP or 2mg ETT	1mg/2mg	1mg/2mg	1mg/2mg	1mg/2mg	1mg/2mg	1mg/2mg
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 2mcg/min (60-Drop Set)	12gtt/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 4mcg/min (60-Drop Set)	24gtt/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 6mcg/min (60-Drop Set)	36gtt/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 8mcg/min (60-Drop Set)	48gtt/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 10mcg/min (60-Drop Set)	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 2mcg/min (60-Drop Set)	30gtt/min	30gtt/min	30gtt/min	30gtt/min	30gtt/min	30gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 4mcg/min (60-Drop Set)	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 6mcg/min (60-Drop Set)	90gtt/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 8mcg/min (60-Drop Set)	120gtt/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 10mcg/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min
Etomidate 0.3mg/kg IV to a max of 40mg	15mg	18mg	21mg	24mg	27mg	30mg
Fentanyl, IV: 2.5-5mcg/kg to a max of 100mcg single does. May repeat once	100mcg	100mcg	100mcg	100mcg	100mcg	100mcg
Fentanyl, Intranasal (MAD): 2mcg/kg to a max of 100mcg per dose	100mcg	100mcg	100mcg	100mcg	100mcg	100mcg
Glucagon 1mg IM	1mg	1mg	1mg	1mg	1mg	1mg
Ibuprofen, 10mg/kg up to 800mg (200mg tablets)	400mg (2 tablets)	600mg (3 tablets)	600mg (3 tablets)	800mg (4 tablets)	800mg (4 tablets)	800mg (4 tablets)
Ketamine IV Push For Chemical Restraint: 2mg/kg (Administer slowly over 1 minute)	100mg	120mg	140mg	160mg	180mg	200mg
Ketamine IM For Chemical Restraint: 5mg/kg (In Thigh) May require multiple injections as maximum of 5cc per injection may be given	250mg	300mg	350mg	400mg	450mg	500mg

04/01/2023

ADULT MEDICATIONS FOR WEIGHTS UP TO 100KG Page 2 of 2

Weight (lbs)	110lbs	132lbs	154lbs	176lbs	198lbs	220lbs
Weight (kg)	50kg	60kg	70kg	80kg	90kg	100kg
Ketamine for Pain Management: 0.5mg/kg SLOW IV or IO push to a maximum of 500mg	25mg	30mg	35mg	40mg	45mg	50mg
Ketamine for Sedation prior to Cardioversion or Pacing: 0.5mg/kg SLOW IV or IO push to a maximum of 500mg	25mg	30mg	35mg	40mg	45mg	50mg
Labetalol 10-20mg IVP (MUST CONTACT MEDICAL CONTROL BEFORE ADMINISTERING)	10-20mg	10-20mg	10-20mg	10-20mg	10-20mg	10-20mg
Lidocaine for PVCs 1mg/kg IV may be repeated at 0.5mg/kg to a max of 3mg/kg	50mg/25mg	60mg/30mg	70mg/35mg	80mg/40mg	90mg/45mg	100mg/50mg
Lidocaine for VF/VT given via ETT 2mg/kg may repeat at 2mg/kg to a max of 6mg/kg	100mg	120mg	140mg	160mg	180mg	200mg
Lidocaine Drip 2-4mg/minute (60-Drop Set)	30-60gtt/min	30-60gtt/min	30-60gtt/min	30-60gtt/min	30-60gtt/min	30-60gtt/min
Magnesium Sulfate 4 grams Loading Dose (diluted 1:1 and given SLOWLY over 15 minutes)	4 grams	4 grams	4 grams	4 grams	4 grams	4 grams
Magnesium Sulfate Maintenance Drip, 1g/hr. 5 grams in 250cc of NS (60-Drop Set)	50gtt/min	50gtt/min	50gtt/min	50gtt/min	50gtt/min	50gtt/min
Magnesium Sulfate Maintenance Drip, 1g/hr. 5 grams in 500cc of NS (60-Drop Set)	100gtt/min	100gtt/min	100gtt/min	100gtt/min	100gtt/min	100gtt/min
Morphine 2-6mg every 10 minutes (half dosage in pts >60y/o)	2-6mg	2-6mg	2-6mg	2-6mg	2-6mg	2-6mg
Narcan, IV: 2mg may repeat once if no change in mental status	2mg	2mg	2mg	2mg	2mg	2mg
Narcan, Intranasal: 2mg, IN may repeat once if no respiratory improvement	2mg	2mg	2mg	2mg	2mg	2mg
Nitro Spray 0.4mg SL max of 3 if BP>90 systolic	0.4mg	0.4mg	0.4mg	0.4mg	0.4mg	0.4mg
Norcuron 0.15mg/kg to a max of 20mg may repeat at 0.01mg/kg if needed	7.5mg	9mg	10.5mg	12mg	13.5mg	15mg
Oral Glucose 15g between check and gum may repeat to desired effect	15g	15g	15g	15g	15g	15g
Racemic Epi	Not indicated	Not indicated	Not indicated	Not indicated	Not indicated	Not indicated
Rocuronium (INITIAL DOSE) 1mg/kg	50mg	60mg	70mg	80mg	90mg	100mg
Rocuronium (REPEAT DOSE) repeated X1 in 12 minutes if needed 0.1mg/kg	5mg	6mg	7mg	8mg	9mg	10mg
Sodium Bicarbonate 1meq/kg to a max of 100meq, may repeat at 0.5meq every 10 minutes up to 50meq	50meq	60meq	70meq	80meq	90meq	100meq
Succinylcholine 2mg/kg rapid IVP	100mg	120mg	140mg	160mg	180mg	200mg
Valium 5mg IV for active seizures may repeat as needed at 5mg every 5 minutes	5mg	5mg	5mg	5mg	5mg	5mg
Versed 5mg IVP if BP>90 systolic (2.5mg if pt >60)	5mg	5mg	5mg	5mg	5mg	5mg
Versed, Intranasal for SEIZURE activity (0.2mg/kg to a max of 5mg)	5mg	5mg	5mg	5mg	5mg	5mg
Versed, Intranasal, for SEIZURE activity, REPEAT DOSAGE at 0.1mg/kg to a max of 2.5mg	2.5mg	2.5mg	2.5mg	2.5mg	2.5mg	2.5mg
Versed, Intranasal, for SEDATION: 0.2mg/kg to a max of 5mg. May repeat every 5-10 minutes as needed as long as SBP>90mmHg	5mg	5mg	5mg	5mg	5mg	5mg
Xopenex 1.25mg/3cc NS Nebulized may be repeated at same dose if needed	1.25mg/3cc	1.25mg/3cc	1.25mg/3cc	1.25mg/3cc	1.25mg/3cc	1.25mg/3cc
Zofran 4mg IVP	4mg	4mg	4mg	4mg	4mg	4mg

ADULT MEDICATIONS FOR WEIGHTS OF 110KG AND OVER Page 1 of 2

Weight (lbs)	242lbs	264lbs	286lbs	308lbs	330lbs
Weight (kg)	110kg	120kg	130kg	140kg	150kg
Acetaminophen (PO), 10mg/kg up to 1,000mg (500mg tablets)	1,000mg (2 tablets)	1,000mg (2 tablets)	1,000mg (2 tablets)	1,000mg (2 tablets)	1,000mg (2 tablets)
IV Acetaminophen, 1,000mg in 100ml of D5W or NS Given IV infusion over 15 minutes	100cc over 15 minutes	100cc over 15 minutes	100cc over 15 minutes	100cc over 15 minutes	100cc over 15 minutes
Activated Charcoal 1g/kg up to 50g	50g PO	50g PO	50g PO	50g PO	50g PO
Adenosine 12mg Rapid IV push, may be repeated once at 12mg rapid IV push	12mg	12mg	12mg	12mg	12mg
Amiodarone 150mg IV over 10 minutes for VT with a pulse	150mg	150mg	150mg	150mg	150mg
Amiodarone 300mg rapid IV for VF/VT without a pulse may repeat once at 150mg	300mg	300mg	300mg	300mg	300mg
Aspirin (ASA) 325mg PO	325mg	325mg	325mg	325mg	325mg
Atropine for Bradycardia 1mg may be repeated to a max of 3mg	1mg	1mg	1mg	1mg	1mg
Benadryl 50mg IVP	50mg	50mg	50mg	50mg	50mg
Calcium Gluconate 1 gram SLOW IV Push	1gram	1gram	1gram	1gram	1gram
Decadron 20mg SIVP	20mg	20mg	20mg	20mg	20mg
Dextrose 10% (D10W): Administer IV bolus using a 10-Drop set. Titrate to LOC.	Titrate to Effect	Titrate to Effect	Titrate to Effect	Titrate to Effect	Titrate to Effect
Dopamine 5mcg/kg/min 200mg/250mL (60-Drop Set)	40gtts/min	45gtts/min	49gtts/min	53gtts/min	56gtts/min
Dopamine 10mcg/kg/min 200mg/250mL (60-Drop Set)	84gtts/min	90gtts/min	98gtts/min	105gtts/min	113gtts/min
Dopamine 15mcg/kg/min 200mg/250mL (60-Drop Set)	124gtts/min	135gtts/min	146gtts/min	158gtts/min	169gtts/min
Dopamine 20mcg/kg/min 200mg/250mL (60-Drop Set)	165gtts/min	180gtts/min	195gtts/min	210gtts/min	225gtts/min
Duo-Neb, 3mg of Albuterol with 0.5mg of Ipratropium in 3cc, Nebulized (Albuterol/Ipratropium)	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc
Epi 1:1,000 0.3mg IM	0.3mg	0.3mg	0.3mg	0.3mg	0.3mg
Epi 1:10,000 1mg IVP or 2mg ETT	1mg/2mg	1mg/2mg	1mg/2mg	1mg/2mg	1mg/2mg
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 2mcg/min (60-Drop Set)	12gtt/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 4mcg/min (60-Drop Set)	24gtt/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 6mcg/min (60-Drop Set)	36gtt/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 8mcg/min (60-Drop Set)	48gtt/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 10mcg/min (60-Drop Set)	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 2mcg/min (60-Drop Set)	30gttmin	30gttmin	30gttmin	30gttmin	30gttmin
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 4mcg/min (60-Drop Set)	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 6mcg/min (60-Drop Set)	90gtt/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 8mcg/min (60-Drop Set)	120gtt/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 10mcg/min (60-Drop Set)	150gtt/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min
Etomidate 0.3mg/ kg IV to a max of 40mg	33mg	36mg	39mg	40mg	40mg
Fentanyl, IV: 2.5-5mcg/kg to a max of 100mcg single does. May repeat once	100mcg	100mcg	100mcg	100mcg	100mcg
Fentanyl, Intranasal (MAD): 2mcg/kg to a max of 100mcg per dose	100mcg	100mcg	100mcg	100mcg	100mcg
Glucagon 1mg IM	1mg	1mg	1mg	1mg	1mg
Ibuprofen, 10mg/kg up to 800mg (200mg tablets)	800mg (4 tablets)	800mg (4 tablets)	800mg (4 tablets)	800mg (4 tablets)	800mg (4 tablets)
Ketamine IV Push For Chemical Restraint: 2mg/kg (Administer slowly over 1 minute)	220mg	240mg	260mg	280mg	300mg
Ketamine IM For Chemical Restraint: 5mg/kg (In Thigh) May require multiple injections as maximum of 5cc per injection may be given	550mg	600mg	650mg	700mg	750mg

ADULT MEDICATIONS FOR WEIGHTS OF 110KG AND OVER Page 2 of 2

Weight (lbs)	242lbs	264lbs	286lbs	308lbs	330lbs
Weight (kg)	110kg	120kg	130kg	140kg	150kg
Ketamine for Pain Management: 0.5mg/kg SLOW IV or IO push to a maximum of 500mg	55mg	60mg	65mg	70mg	75mg
Ketamine for Sedation prior to Cardioversion or Pacing: 0.5mg/kg SLOW IV or IO push to a maximum of 500mg	55mg	60mg	65mg	70mg	75mg
Labetalol 10-20mg IVP (MUST CONTACT MEDICAL CONTROL BEFORE ADMINISTERING)	10-20mg	10-20mg	10-20mg	10-20mg	10-20mg
Lidocaine for PVCs 1mg/kg IV may be repeated at 0.5mg/kg to a max of 3mg/kg	110mg/55mg	120mg/60mg	130mg/65mg	140mg/70mg	150mg/75mg
Lidocaine for VF/VT given via ETT 2mg/kg may repeat at 2mg/kg to a max of 6mg/kg	220mg	240mg	260mg	280mg	300mg
Lidocaine Drip 2-4mg/minute (60-Drop Set)	30-60gtt/min	30-60gtt/min	30-60gtt/min	30-60gtt/min	30-60gtt/min
Magnesium Sulfate 4 grams Loading Dose (diluted 1:1 and given SLOWLY over 15 minutes)	4 grams	4 grams	4 grams	4 grams	4 grams
Magnesium Sulfate Maintenance Drip, 1g/hr. 5 grams in 250cc of NS (60-Drop Set)	50gtt/min	50gtt/min	50gtt/min	50gtt/min	50gtt/min
Magnesium Sulfate Maintenance Drip, 1g/hr. 5 grams in 500cc of NS (60-Drop Set)	100gtt/min	100gtt/min	100gtt/min	100gtt/min	100gtt/min
Morphine 2-6mg every 10 minutes (half dosage in pts >60y/o)	2-6mg	2-6mg	2-6mg	2-6mg	2-6mg
Narcan, IV: 2mg may repeat once if no change in mental status	2mg	2mg	2mg	2mg	2mg
Narcan, Intranasal: 2mg, IN may repeat once if no respiratory improvement	2mg	2mg	2mg	2mg	2mg
Nitro Spray 0.4mg SL max of 3 if BP>90 systolic	0.4mg	0.4mg	0.4mg	0.4mg	0.4mg
Norcuron 0.15mg/kg to a max of 20mg may repeat at 0.01mg/kg if needed	16.5mg	18mg	19.5mg	20mg	20mg
Oral Glucose 15g between check and gum may repeat to desired effect	15g	15g	15g	15g	15g
Racemic Epi	Not Indicated	Not indicated	Not indicated	Not indicated	Not indicated
Rocuronium (INITIAL DOSE) 1mg/kg	110mg	120mg	130mg	140mg	150mg
Rocuronium (REPEAT DOSE) repeated X1 in 12 minutes if needed 0.1mg/kg	11mg	12mg	13mg	14mg	15mg
Sodium Bicarb 1meq/kg to a max of 100meq, may repeat at 0.5meq every 10 minutes up to 50meq	100meq	100meq	100meq	100meq	100meq
Succinylcholine 2mg/kg rapid IVP	200mg	200mg	200mg	200mg	200mg
Valium 5mg IV for active seizures may repeat as needed at 5mg every 5 minutes	5mg	5mg	5mg	5mg	5mg
Versed 5mg IVP if BP >90 systolic (give half dosage if pt >60y/o)	5mg	5mg	5mg	5mg	5mg
Versed, Intranasal for SEIZURE activity (0.2mg/kg to a max of 5mg)	5mg	5mg	5mg	5mg	5mg
Versed, Intranasal, for SEIZURE activity, REPEAT DOSAGE at 0.1mg/kg to a max of 2.5mg	2.5mg	2.5mg	2.5mg	2.5mg	2.5mg
Versed, Intranasal, for SEDATION: 0.2mg/kg to a max of 5mg. May repeat every 5-10 minutes as needed as long as SBP>90mmHg	5mg	5mg	5mg	5mg	5mg
Xopenex 1.25mg/3cc NS Nebulized may be repeated at same dose if needed	1.25mg in 3cc	1.25mg in 3cc	1.25mg in 3cc	1.25mg in 3cc	1.25mg in 3cc
Zofran 4mg IVP	4mg	4mg	4mg	4mg	4mg

PEDIATRIC MEDICATIONS Page 1 of 3

Weight (lbs)	7.5lbs	15lbs	22lbs	33lbs	44lbs	55lbs	66lbs	77lbs	88lbs	99lbs
Weight (kg)	3.5kg	7kg	10kg	15kg	20kg	25kg	30kg	35kg	40kg	45kg
Acetaminophen (PO) NOT INDICATED FOR PEDIATRICS	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated
IV Acetaminophen, 1,000mg in 100ml of D5W or NS. Given IV infusion over 15 minutes < 1 month of age 12.5mg/kg over 15 minutes. > 1 month of age 15mg/kg over 15 minutes	4.5cc over 15 minutes	9cc over 15 minutes:	15cc over 15 minutes:	22.5cc over 15 minutes:	30cc over 15 minutes:	37.5cc over 15 minutes:	45cc over 15 minutes:	52.5cc over 15 minutes:	60cc over 15 minutes:	67.5cc over 15 minutes:
Administer at the appropriate rate for 15 minutes and then discontinue the infusion!	60gtt set: 18gtt/min	60gtt set: 36gtt/min	60gtt set: 60gtt/min	60gtt set: 90gtt/min	60gtt set: 120gtt/min	10gtt set: 25gtt/min	10gtt set: 30gtt/min	10gtt set: 35gtt/min	10gtt set: 40gtt/min	10gtt set: 45gtt/min
Activated Charcoal 1g/kg up to 50g	3.5g	7g	10g	15g	20g	25g	30g	35g	40g	45g
Adenosine 0.1mg/kg to a max of 12mg	0.4mg	0.7mg	1mg	1.5mg	2mg	2.5mg	3mg	3.5mg	4mg	4.5mg
Amiodarone 5mg/kg rapid IV for VF/VT without a pulse may repeat once in 3-5 minutes at 2.5mg/kg to a max of 150mg	17.5mg	35mg	50mg	75mg	100mg	125mg	150mg	150mg	150mg	150mg
Amiodarone 5mg/kg IV or IO over 20 minutes for SVT and VT with a pulse to a max single dose of 150mg May repeat X 2 PRN	17.5mg	35mg	50mg	75mg	100mg	125mg	150mg	150mg	150mg	150mg
Aspirin (ASA)	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated
Atropine for Bradycardia 0.02mg/kg, minimum dose 0.1mg, max single dose 1mg may repeat in 3-5 minutes	0.1mg	0.14mg	0.2mg	0.3mg	0.4mg	0.5mg	0.6mg	0.7mg	0.8mg	0.9mg
Atropine for PAI (using Succinylcholine) 0.02mg/kg to a max of 1mg to all pts less than 16 years old	0.1mg	0.14mg	0.2mg	0.3mg	0.4mg	0.5mg	0.6mg	0.7mg	0.8mg	0.9mg
Atropine for Organophosphate Poisoning 0.05mg/kg to a max of 2mg single dose may repeat in 10-15 minutes (minimum dose 0.1mg)	0.2mg	0.4mg	0.5mg	0.8mg	1mg	1.3mg	15.mg	1.8mg	2mg	2mg
Benadryl 1mg/kg to a max of 50mg	3.5mg	7mg	10mg	15mg	20mg	25mg	30mg	35mg	40mg	45mg
Calcium Gluconate NOT INDICATED FOR PEDIATRICS	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated
Decadron 0.6mg/kg to a max of 20mg NOT INDICATED for children <2 years of age	2mg	4mg	6mg	9mg	12mg	15mg	18mg	20mg	20mg	20mg
Dextrose 10% (D10W): Administer IV bolus using a 60-Drop set. Titrate to LOC.	Titrate to Effect	Titrate to Effect	Titrate to Effect	Titrate to Effect	Titrate to Effect	Titrate to Effect	Titrate to Effect	Titrate to Effect	Titrate to Effect	Titrate to Effect
Dopamine 5mcg/kg/min 200mg/250mL (60-Drop Set)	1gtt/min	3gtts/min	4gtts/min	6gtts/min	8gtts/min	9gtts/min	11gtts/min	13gtts/min	15gtts/min	17gtts/min
Dopamine 10mcg/kg/min 200mg/250mL (60-Drop Set)	3gtts/min	5gtts/min	8gtts/min	11gtts/min	15gtts/min	19gtts/min	23gtts/min	26gtts/min	30gtts/min	34gtts/min
Duo-Neb, 3mg of Albuterol with 0.5mg of Ipratropium in 3cc, Nebulized (Albuterol/Ipratropium)	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc	3mg/0.5mg in 3cc
Epi 1:1,000 for cardiac arrest ETT 0.1mg/kg to a max of 1mg per single dose	0.35mg	0.7mg	1mg	1mg	1mg	1mg	1mg	1mg	1mg	1mg
Epi 1:10,000 for cardiac arrest 0.01mg/kg IV or IO to a max of 1mg per single dose	0.03mg	0.07mg	0.1mg	0.15mg	0.2mg	0.25mg	0.3mg	0.35mg	0.4mg	0.45mg
Epi for Bradycardia 0.01mg/kg of 1:10,000 solution to a max of 5cc per single dose	0.03mg	0.07mg	0.1mg	0.15mg	0.2mg	0.25mg	0.3mg	0.35mg	0.4mg	0.45mg
Epi for Bradycardia via ETT 0.1mg/kg of 1:1,000 solution to a max of 0.5cc per single dose may repeat at same dose every 3-5minutes	0.35mg	0.7mg	1mg	1mg	1mg	1mg	1mg	1mg	1mg	1mg
Epi for Allergic Reactions 0.01mg/kg IV or IO of 1:10,000 solution to a max of 0.5mg	0.03mg	0.07mg	0.1mg	0.15mg	0.2mg	0.25mg	0.3mg	0.35mg	0.4mg	0.45mg
Epi IM for Allergic Reactions 1:1,000 solution 0.01mg/kg to a max of 0.15mg IM	0.03mg	0.7mg	0.1mg	0.15mg	0.15mg	0.15mg	0.15mg	0.15mg	0.15mg	0.15mg

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Weight (lbs)	7.5lbs	15lbs	22lbs	33lbs	44lbs	55lbs	66lbs	77lbs	88lbs	99lbs
Weight (kg)	3.5kg	7kg	10kg	15kg	20kg	25kg	30kg	35kg	40kg	45kg
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 2mcg/min (60-Drop Set)	12gtt/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 4mcg/min (60-Drop Set)	24gtt/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 6mcg/min (60-Drop Set)	36gtt/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 8mcg/min (60-Drop Set)	48gtt/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 10mcg/min (60-Drop Set)	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 2mcg/min (60-Drop Set)	30gtt/min	30gtt/min	30gtt/min	30gtt/min	30gtt/min	30gtt/min	30gtt/min	30gtt/min	30gtt/min	30gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 4mcg/min (60-Drop Set)	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 6mcg/min (60-Drop Set)	90gtt/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 8mcg/min (60-Drop Set)	120gtt/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 10mcg/min (60-Drop Set)	150gtt/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min
Etomidate 0.3mg/ kg IV to a max of 40mg	1mg	2.1mg	3mg	4..5mg	6mg	7.5mg	9mg	10.5mg	12mg	13.5mg
Fentanyl, IV/IO: 1-2mcg/kg slow IVP to a max of 100mcg per single dose. May repeat once (NOT indicated for children < 2 years of age)	Not Indicated	Not Indicated	Not Indicated	15-30mcg	20-40mcg	25-50mcg	30-60mcg	35-70mcg	40-80mcg	45-90mcg
Fentanyl, IN (MAD): 2mcg/kg to a max of 100mcg per dose. Do NOT administer to patients < 2 years of age	Not Indicated	Not Indicated	Not Indicated	30mcg	40mcg	50mcg	60mcg	70mcg	80mcg	90mcg
Glucagon 0.5mg IM NOT INDICATED for children <2 years of age	Not Indicated	Not Indicated	Not Indicated	0.5mg	0.5mg	0.5mg	0.5mg	0.5mg	0.5mg	0.5mg
Ibuprofen (Liquid Children's Motrin) 10mg/kg up to 800mg	35mg	70mg	100mg	150mg	200mg	250mg	300mg	350mg	400mg	450mg
Ketamine IV Push, for Chemical Restraint: 2mg/kg (Administer slowly over 1 minute). Do NOT administer to patients < 2 years of age	Not Indicated	14mg	20mg	30mg	40mg	50mg	60mg	70mg	80mg	90mg
Ketamine IM, For Chemical Restraint for children < 5yoa: 3mg/kg in thigh. May require multiple injections as maximum of 5cc per injection may be given. Do NOT administer to an infant < 3 months old	N/A	N/A	N/A	N/A	60mg	75mg	90mg	105mg	120mg	135mg
Ketamine IM, For Chemical Restraint for children ≥ 5yoa: 5mg/kg in thigh. May require multiple injections as maximum of 5cc per injection may be given. Do NOT administer to an infant < 3 months old	Not Indicated	35mg	50mg	75mg	100mg	125mg	150mg	175mg	200mg	225mg
Ketamine for Pain Management: 0.5mg/kg SLOW IV or IO push to a maximum of 500mg	Not Indicated	3.5mg	5mg	7.5mg	10mg	12.5mg	15mg	17.5mg	20mg	22.5mg
Ketamine for Sedation prior to Cardioversion: 0.5mg/kg SLOW IV or IO push to a maximum of 500mg	Not Indicated	3.5mg	5mg	7.5mg	10mg	12.5mg	15mg	17.5mg	20mg	22.5mg

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Weight (lbs)	7.5lbs	15lbs	22lbs	33lbs	44lbs	55lbs	66lbs	77lbs	88lbs	99lbs
Weight (kg)	3.5kg	7kg	10kg	15kg	20kg	25kg	30kg	35kg	40kg	45kg
Magnesium Sulfate Loading Dose NOT INDICATED FOR PEDIATRICS	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated
Labetalol	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated
Lidocaine for Head Injury 0.5mg/kg	2mg	4mg	5mg	8mg	10mg	13mg	15mg	18mg	20mg	23mg
Lidocaine for VT and VF with or without a pulse 2mg/kg ETT to a max of 6mg/kg	7mg	14mg	20mg	30mg	40mg	50mg	60mg	70mg	80mg	90mg
Lidocaine Drip 30mcg/kg/min for Post Resuscitation (60-Drop Set)	2gtt/min	3gtt/min	5gtt/min	7gtt/min	9gtt/min	11gtt/min	14gtt/min	16gtt/min	18gtt/min	20gtt/min
Magnesium Sulfate Maintenance Dose: NOT INDICATED FOR PEDIATRICS	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated
Morphine 0.1mg/kg to a max of 3mg single dose	0.4mg	0.7mg	1mg	1.5mg	2mg	2.5mg	3mg	3mg	3mg	3mg
Narcan, IV: 0.1mg/kg to a max of 2mg single dose	0.35mg	0.7mg	1mg	1.5mg	2mg	2mg	2mg	2mg	2mg	2mg
Narcan, Intranasal: 0.1mg/kg to a max of 2mg single dose may repeat once if no respiratory improvement	0.35mg	0.7mg	1mg	1.5mg	2mg	2mg	2mg	2mg	2mg	2mg
Nitro Spray	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated
Norcuron 0.15mg/kg to a max of 20mg may repeat at 0.01mg/kg if needed	0.5mg	1mg	1.5mg	2.25mg	3mg	3.75mg	4.5mg	5.25mg	6mg	6.75mg
Oral Glucose 15g between check and gum may repeat to desired effect	15g	15g	15g	15g	15g	15g	15g	15g	15g	15g
Racemic Epi 11.25mg in 2 cc saline solution nebulized. DO NOT give to pts >40kg	11.25mg	11.25mg	11.25mg	11.25mg	11.25mg	11.25mg	11.25mg	11.25mg	11.25mg	11.25mg
Rocuronium for PAI Initial Dose 1mg/kg	3.5mg	7mg	10mg	15mg	20mg	25mg	30mg	35mg	40mg	45mg
Rocuronium for PAI Repeat Dose 0.1mg/kg if needed in 12 min.	0.35mg	0.7mg	1mg	1.5mg	2mg	2.5mg	3mg	3.5mg	4mg	4.5mg
Sodium Bicarb	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated
Succinylcholine 2mg/kg rapid IVP	7mg	14mg	20mg	30mg	40mg	50mg	60mg	70mg	80mg	90mg
Valium 0.1mg/kg IV to a max of 5mg per dose may repeat every 5 minutes	0.4mg	0.7mg	1mg	1.5mg	2mg	2.5mg	3mg	3.5mg	4mg	4.5mg
Valium 0.5mg/kg Rectal to a max of 10mg per dose	1.8mg	3.5mg	5mg	7.5mg	10mg	10mg	10mg	10mg	10mg	10mg
Versed, IV, for Cardioversion 0.1mg/kg to a max of 2.5mg	0.4mg	0.7mg	1mg	1.5mg	2mg	2.5mg	2.5mg	2.5mg	2.5mg	2.5mg
Versed, IV, for Chemical Sedation 0.1mg/kg to a max of 10mg	0.4mg	0.7mg	1mg	1.5mg	2mg	2.5mg	3mg	3.5mg	4mg	4.5mg
Versed, IV, for Seizures 0.2mg/kg to a max of 5mg single dose, may repeat at 0.1mg/kg every 10 minutes as needed.	0.7mg	1.4mg	2mg	3mg	4mg	5mg	5mg	5mg	5mg	5mg
Versed, Intranasal for SEIZURE activity (0.2mg/kg to a max of 5mg)	0.7mg	1.4mg	2mg	3mg	4mg	5mg	5mg	5mg	5mg	5mg
Versed, Intranasal, for SEIZURE activity, REPEAT DOSAGE at 0.1mg/kg to a max of 2.5mg	0.35mg	0.7mg	1mg	1.5mg	2mg	2.5mg	2.5mg	2.5mg	2.5mg	2.5mg
Versed, Intranasal, for SEDATION: 0.2mg/kg to a max of 5mg. May repeat every 5-10 minutes as needed as long as SBP>90mmHg	0.7mg	1.4mg	2mg	3mg	4mg	5mg	5mg	5mg	5mg	5mg
Xopenex 1.25mg/3cc NS Nebulized may be repeated at same dose if needed	1.25mg	1.25mg	1.25mg	1.25mg	1.25mg	1.25mg	1.25mg	1.25mg	1.25mg	1.25mg

DRIP RATE FORMULAS

- **Adult Lidocaine** (mg/min)

Formula:

$$\frac{\text{Required dose} * \text{Volume in bag} * \text{Drip set}}{\text{Amount of drug in bag}} = \text{Flow rate in gtts/min}$$

Example:

$$\frac{2 \text{ mg/min} * 250 \text{ mL} * 60 \text{ gtts/min}}{1000 \text{ mg}} = 30 \text{ gtts/min}$$

- **Pediatric Lidocaine** (mcg/kg/min)

Formula:

$$\frac{\text{Required dose} * \text{Volume in bag} * \text{Drip set} * \text{Patient weight in kg}}{\text{Amount of drug in bag in mcg (mg} * 1000 = \text{mcg)}} = \text{Flow rate in gtts/min}$$

Pediatric Lidocaine example: (using a 10kg patient)

$$\frac{30 \text{ mcg/min} * 250 \text{ mL} * 60 \text{ gtts/min} * 10 \text{ kg}}{1,000,000 \text{ mcg}} = 5 \text{ gtts/min}$$

- **Dopamine** (mcg/kg/min)

Formula:

$$\frac{\text{Required dose} * \text{Volume in bag} * \text{Drip set} * \text{Patient weight in kg}}{\text{Amount of drug in bag in mcg (mg} * 1000 = \text{mcg)}} = \text{Flow rate in gtts/min}$$

Example: (using a 100kg patient)

$$\frac{5 \text{ mcg/min} * 250 \text{ mL} * 60 \text{ gtts/min} * 100 \text{ kg}}{200,000 \text{ mcg}} = 38 \text{ gtts/min}$$

- **Adult Amiodarone** (volume/time)
(Mix 150mg of Amiodarone into 100mL of D5W)

Formula:

$$\frac{\text{Volume to be infused} * \text{Drip set}}{\text{Time in Minutes}} = \text{Flow rate in gtts/min}$$

Example:

$$\frac{100 \text{ mL} * 10 \text{ gtts/min}}{10 \text{ min}} = 100 \text{ gtts/min}$$

- **Magnesium Sulfate (5 grams in 250cc of NS)** (gram/hr)
(Mix 5 grams of Magnesium Sulfate in 250cc of NS)

Formula:

$$\frac{\text{Required dose} * \text{Volume in bag} * \text{Drip set}}{\text{Amount of drug in bag}} = \text{Flow rate in gtts/min}$$

Example:

$$\frac{1\text{gm/hr} (.0167\text{gm/min}) * 250 \text{ mL} * 60 \text{ gtts/min}}{5\text{gm}} = 50\text{gtts/min}$$

- **Magnesium Sulfate (5 grams in 500cc of NS)** (gram/hr)
(Mix 5 grams of Magnesium Sulfate in 500cc of NS)

Formula:

$$\frac{\text{Required dose} * \text{Volume in bag} * \text{Drip set}}{\text{Amount of drug in bag}} = \text{Flow rate in gtts/min}$$

Example:

$$\frac{1\text{gm/hr} (.0167 \text{ gm/min}) * 500 \text{ mL} * 60 \text{ gtts/min}}{5\text{gm}} = 100\text{gtts/min}$$

- **Epinephrine Drip (1mg in 100cc of NS)** (2mcg/min)
(Mix 1mg of Epinephrine 1:1,000 in 100cc of NS)

Formula:

$$\frac{\text{Required dose} * \text{Volume in bag} * \text{Drip set}}{\text{Amount of drug in bag}} = \text{Flow rate in gtts/min}$$

Example:

$$\frac{0.002\text{mg} (2\text{mcg/min}) * 100\text{mL} * 60 \text{ gtts/min}}{1\text{mg}} = 12\text{gtts/min}$$

- **Epinephrine Drip (1mg in 250cc of NS)** (2mcg/min)
(Mix 1mg of Epinephrine 1:1,000 in 100cc of NS)

Formula:

$$\frac{\text{Required dose} * \text{Volume in bag} * \text{Drip set}}{\text{Amount of drug in bag}} = \text{Flow rate in gtts/min}$$

Example:

$$\frac{0.002\text{mg} (2\text{mcg/min}) * 250\text{mL} * 60 \text{ gtts/min}}{1\text{mg}} = 30\text{gtts/min}$$