Maine EMS December 1, 2021 Protocols Formulary V2.1 - PLEASE NOTE: this document is not a substitute for the Maine EMS Protocols. For Most UP TO DATE information regarding the Maine EMS forumlary, please refer to the Maine EMS Protocols

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|--|--|-----|-----|-----------|--|--|----------------|---|--|---|--|---------------------------------|
| <u>Medication</u> | Protocol | EMR | EMT | Paramedic | Adult Dosing | Pediatric Dosing | OLMC Req'd? | Medication Notes | <u>Suggested Par</u> Level | PAR LEVEL COVERAGE | Estimated Cost (please note, cost will vary depending on distributor and availability - per Lexicomp accessed Feb 2022) | Service Level Required |
| Acetaminophen (chewable tabs) | Universal Pain Management (Green 21) | | ~ ~ | · • | 10-15 mg/kg PO (rounded to the nearest 40-80 mg) (MAX single dose 1000 mg) | Chart dosing in protocol | N | | (1) 30 count bottle of 80 mg chewable tablets | 1 patient | Bottle \$1.47 | EMT, AEMT, & Paramedic Services |
| Acetaminophen IV | Universal Pain Management (Green 21) | | ¥ | | Over 70 kg: AEMT/Paramedic 1000 mg over 15 minutes <u>Under 70 kg: (Paramedic only</u>) 12.5 mg/kg IV (MAX single dose 625 mg over 15 minutes | Under 70 kg: (Paramedic only) 12.5 mg/kg IV (MAX single dose 625 mg) over 15 minutes | N | Administer, undiluted from original container, over 10-15 minutes. If product comes in a glass bottle, vented tubing is required. Doses less than 1000 mg require a pump. | (1) 1000 mg/100 ml bottle | 1 patient | Varies- \$11- \$50 per 1000mg/100ml | AEMT & Paramedic Services |
| Activated Charcoal (without sorbitol) | t Poisoning / Overdose (Yellow | | | ~ | 1 gram/kg PO | | Y | | (4) 25 gram tubes | 1 patient up to 100 kg | 100gm tube \$12.32 | Paramedic Services |
| | Wide Complex Tachycardia (Red 19) | | | ~ | 6 mg IV rapid bolus; may repeat x2 at 12 mg IV rapid bolus | | N | Administer, undiluted via rapidIV push at centrally located peripheral IV. Follow immediately with 20 ml flush. | | 1 patient occurrence using | | |
| Adenosine | Narrow Complex Tachycardia (Red 18) | | | ~ | 6 mg IV rapid bolus; may repeat x2 at 12 mg IV rapid bolus | Under 50 kg: 0.1 mg/kg IV rapid bolus; may repeat once at 0.2 mg/kg IV rapid bolus | N | Administer, undituted via rapidIV push at centrally located peripheral IV. Follow immediately with 20ml flush. | (5) 6 mg/2 ml vials | 6mg/12mg/12mg | 6mg/2ml vial \$1.60 | Paramedic Services |
| | Allergy / Anaphylaxis (Gold 1) | | | ~ | 2.5 mg by nebulization | 2.5 mg by nebulization | N | Use 3 mL premix <u>OR</u> 0.5 mL of 0.5% solution mixed in 2.5 mL of normal saline | | | | |
| Albuterol | Respiratory Distress with Bronchospasm (Blue 7) | | | ~ | 2.5 mg by nebulization | 2.5 mg by nebulization | N | Use 3 mL premix <u>OR</u> 0.5 mL of 0.5% solution mixed in 2.5 mL of normal saline | (5) 0.083% 2.5 ml bullets | 5 administrations | 0.083% per 2.5ml neb \$0.15 | Paramedic Services |
| | Hyperkalemia (Red 26) | | | ~ | 15 mg by nebulization | Under 25 kg: 2.5 mg by nebulization Over 25 kg: 5 mg by nebulization | N | Use premix <u>OR</u> 0.5% solution mixed in normal saline | | | | |
| | Ventricular Fibrillation / Ventricular Tachycardia (Red 8, Red 12) | | | ~ | 300 mg IV/IO; may consider additional 150 mg IV/IO once | 5 mg/kg IV/IO; may repeat every 3-5 minutes to total of 15 mg/kg. (MAX single dose 300 mg) | e N | Administer undiluted via rapid push | | | | |
| Amiodarone | Tachycardia - Wide Complex (Red 19) | | | ~ | 150 mg IV/IO | | Ν | | (4) 150 mg/ml vials | 1 code bolus, 1 2nd dose, & 1 infusion mix | 150mg/3ml vial \$2.23 | Paramedic Services |
| | Unstable Tachycardia - Wide Complex (Red 17) | | | ~ | Infusion dose per OLMC | | Y | | | | | |
| | Post Cardiac Arrest (Red 9) Chest Pain - Suspected | | | | Infusion/bolus dose per OLMC | | Y | 150 mg mixed in 100 ml D5W | | | | |
| Aspirin (chewable tabs) | Cardiac Origin (Red 2) | | ~ ~ | · • | 324 mg PO | | N | Administer undiluted by rapidIV/IO push; | (4) 81 mg tablets | 1 patient | 81mg unit dose \$0.04 | EMT, AEMT, & Paramedic Services |
| | Bradycardia (Red 12, Red 20) | | | ~ | 1 mg IV/IO; repeat every 3 - 5 minutes (MAX cumulative total of 3 mg) | 0.02 mg/kg IV/IO; may repeat once (MIN single dose: 0.1 mg, MAX single dose 0.5 mg) | N | souvinjecton may result in paradoxical bradycardia | | | | |
| Atropine | Nerve Agent / Organophosphate / | | | | For dyspnea, twitching, n/v, sweating, confusion, or pinpoint pupils 2 mg IV/IO; may repeat every 5 minutes | For dyspnea, twitching, n/v, sweating, confusion, or pinpoint pupils Under 1 year: 0.2 mg IV/IO; may repeat every 5 minutes <u>Over 1 year</u> : 2 mg IV/IO; may repeat every 5 minutes | N | Administer undiluted by rapidIV/IO push; slow injection may result in paradoxical bradycardia | (3) 1 mg syringe or vial *Note- 10ml product cannot be used for IM administration. | 1 single dose | 1mg/10ml syringe \$4.11 | Paramedic Services |
| | Carbamate Poisoning (Yellow 7) | | | | Apnea, seizure, unconsciousness or flaccid paralysis 5 mg IV/IO; may repeat up to 3 times, every 5 minutes | Apnea, seizure, unconsciousness or flaccid paralysis Under 1 year: 0.2 mg IV/IO; may repeat every 5 minutes <u>Over 1 year</u> : 2 mg IV/IO; may repeat every 5 minutes | N | Administer undiluted by rapidIV/IO push; slow injection may result in paradoxical bradycardia | | | | |
| | Hyperkalemia with ECG Changes (Red 26) | | | ~ | 2 grams IV/IO over 10-20 minutes | 60 mg/kg IV/IO over 10-20 minutes (MAX single dose 2 grams) | N | Mix in 50-100 ml NS or D5W and administer over 10-20 minutes | | | | |
| Calcium Gluconate | Hyperkalemia with Cardiac Arrest (Red 9, Red 12, Red 27) | | | ~ | 3 grams IV/IO over 1 minute; may repeat in 10 minutes | 60 mg/kg IV/IO over 1 minute (MAX single dose 3 grams); repeat in 10 minutes | N | 1 gram/10 ml concentration. Administer over 1 minute | (3 to 6) 1 gram/10 ml vials OR premixed 1 gram/50 | up to 2 code doses or 2 doses for CCB OD | 1gm/10ml vial \$6.67 premixed 1gm/50ml bag \$6.55 | Paramedic Services |
| | Calcium Channel or Beta Blocker Overdose (Yellow 2) | | | ~ | 60 mg/kg IV over 5-10 minutes (MAX single dose 3 grams); may repeat every 10-20 min for 3-4 additional doses | 60 mg/kg IV over 30-60 minutes (MAX single dose 3 grams); may repeat every 10-20 min for 3-4 additional doses | N | 1 gram/10 ml concentration. Administer over 5-10 minutes | ml IV bag | | | |
| Ceftriaxone | Open Fractures (Green 29) | | | ~ | 2 grams in 50-100 ml of NS or D5W over 10 minutes | Under 12 years: 75 mg/kg IV (MAX single dose 2 grams) in 50-100 ml of NS or D5W over 10 minutes <u>Over 12 years</u> : 2 grams in 50-100 ml of NS or D5W over 10 minutes | N | Add to 50-100 ml NS or D5W. Administer over 10 minutes. | (2) 1 gram vials | 1 patient | | Paramedic Services |
| Cyanokit | Cyanide / CO Exposure (Yellow 8) | | | ~ | 5 grams IV; may repeat once | Under 30 kg: 2.5 grams IV Over 30 kg: 70 mg/kg IV | N | | Optional | Optional | | Paramedic Services (Optional) |
| <u>.</u> | , | | | - | 1 | | 1 | Administer undiluted over at least one | | | | 1 |
| Dexamethasone | Respiratory Distress with Bronchospasm (Blue 7) | | | ~ | 10 mg IV/IO/IM/PO | 0.6 mg/kg IV/IO/IM/PO (MAX single dose 10 mg) | N | minute. May also be diluted in 50 ml D5W or NS and administered over 5-15 minutes | (1) 10 mg/ml viel | 1 dose | 10ma/1ml \$0.83 | Paramedic Services |
| Dexamethasone | | | | √ √ | 10 mg IV/IO/IM/PO | | ^a N | | (1) 10 mg/ml vial | 1 dose | 10mg/1ml \$0.83 | Paramedic Services |

| <u>Medication</u> | Protocol | EMR | EMT | | 2000 EEE <u>Adult Dosing</u> R | Pediatric Dosing | OLMC Reg'd? | Medication Notes | Suggested Par Level | PAR LEVEL COVERAGE | Estimated Cost (please note, cost will vary depending on distributor and availability - per Lexicomp accessed Feb 2022) | Service Level Required |
|---------------------------|--|-----|-----|---|---|---|---------------------------|--|---------------------------------------|---|--|---|
| Dextrose - D10 | Diabetic / Hypoglycemic Emergencies (Gold 6) | | ~ | | ✓ 250 mL IV; paramedic may repeat with OLMC | <u>Under 40 kg</u> : 5 ml/kg IV; paramedic may repeat with OLMC <u>Over 40 kg</u> : 250 ml IV; paramedic may repeat with OLMC | N | Administer undiluted at a maximum rate of 200mg/kg over 1 minute. Concentrated solutions (e.g. anything greater that 5%) may be an irritant or vesicant. Ensure proper catheter placement prior to and during IV infusion. | (2) 250 ml premixed IV bag | 2 dose | 250ml bag \$1.82 | AEMT & Paramedic Services |
| Dextrose - D50 | Diabetic / Hypoglycemic Emergencies (Gold 6) | | ~ | | 25 grams IV (50 mL of 50% solution); paramedic may repeat with OLMC | | N | Administer undiluted at a maximum rate of 200 mg/kg over 1 minute. Concentrated solutions (e.g. anything greater that 5%) may be an irritant or vesicant. Ensure proper catheter placement prior to and during IV infusion. | (2) 25 grams/50 ml syringe or vial | 2 doses | 50ml vial/syringe \$6.54 | AEMT & Paramedic Services |
| Diphenhydramine | Allergy / Anaphylaxis (Gold 1) | | | | ✓ 25-50 mg Ⅳ/IO/IM | 1-2 mg/kg IV/IO/IM (MAX single dose 50 mg) | N | Administer at a rate = 25 mg/minute</td <td>(1) 50 mg/ml</td> <td>1-2 doses</td> <td>50mg/1ml vial \$0.54</td> <td>Paramedic Services</td> | (1) 50 mg/ml | 1-2 doses | 50mg/1ml vial \$0.54 | Paramedic Services |
| | Dystonic Reaction (Yellow 2) | | | | ✓ 25-50 mg IV/IM | 1-2 mg/kg IV/IM (MAX single dose 50 mg) | N | Administer at a rate = 25 mg/minute</td <td>syringe or vial</td> <td></td> <td></td> <td></td> | syringe or vial | | | |
| Epinephrine 1mg/ml | Respiratory Distress with Bronchospasm (Blue 7) | | ~ ~ | | 0.5 mg of 1 mg/mi livi every 20 minutes | <u>Under 25 kg</u> : 0.15 mg of 1mg/ml IM every 20 minutes <u>Over 25 kg</u> : 0.3 mg of 1mg/ml IM every 20 minutes | Y - EMT/AEMT N - Medic | Administer undiluted using 1 mg/ml concentration | (6) 1 mg/1 ml | 18 doses (also serves as b/u to | 1mg/1ml amp/vial \$8.21 | EMT, AEMT, & Paramedic Services |
| _p | Allergy / Anaphylaxis (Gold 1) | | ~ ~ | | 0.3 mg of 1 mg/ml IM; may repeat every 5-15 minutes | Under 25 kg: 0.15 mg of 1mg/ml IM; may repeat every 5-15 minutes Over 25 kg: 0.3 mg of 1mg/ml IM; may repeat every 5-15 minutes | N | Administer undiluted using 1 mg/ml concentration | ampule or vial | make additional 1mg/10ml) | nig ni anpina ec. i | Einit, AEinit, alt analitotic ocivicos |
| Epinephrine 1mg/10 ml | Cardiac Arrest (Red 8, Red 12, Pink 7) | | | | 1 mg of 1 mg/10 ml IV/IO every 3-5 minutes | 0.01 mg/kg IV/IO 1 mg/10 ml; repeat every 3-5 minutes (MAX single dose 1 mg) 0.01 mg/kg IV/IO 1 mg/10 ml (MAX | N | Rapid push using 1 mg/10 ml concentration; flush with at least 10ml Rapid push using 1 mg/10 ml | (6) 1 mg/10 ml syringe or vial | 6 doses (18 -30 minutes) | 1mg/10ml syringe \$4.06 | Paramedic Services |
| | Bradycardia (Red 12) Allergy / Anaphylaxis (Gold 1) | _ | | _ | Start at 0.05 mcg/kg/min. Titrate by 0.05 | single dose 1 mg) Start at 0.05 mcg/kg/min_Titrate by 0.05 | N | concentration; flush with at least 10ml Add 1 mg/ml vial to 250 ml NS or D5W for | | | | |
| | | | | | mcg/kg/min every 5 minutes to desired effect which may include resolution of ✓ bradycardia, SPB of > 90 mmHg and/or MAP > 65 mmHg. (Usual dose is 0.05- | mcg/kg/min every 5 minutes to desired effect which may include resolution of bradycardia, SPB of > 90 mmHg and/or MAP > 65 mmHg. (Usual dose is 0.05- 0.5 mcg/kg/min) (MAX dose is 0.5 mcg/kg/min) | Y | final concentration of 4 mcg/ml. Must be infused via pump. | (1) 1 mo/ml ampule | 1 patient (this could also be covered | | |
| Epinephrine Infusion | Bradycardia (Red 21) | | | | Start at 0.05 mcg/kg/min. Titrate by 0.05 mcg/kg/min every 5 minutes to desired effect which may include resolution of bradycardia, SPB of > 90 mmHg and/or MAP > 65 mmHg. (Usual dose is 0.05- | | N | Add 1 mg/ml vial to 250 ml NS or D5W for final concentration of 4 mcg/ml. Must be infused via pump. | or vial | in PAR level above) | 1mg/1ml amp/vial \$8.21 | Paramedic Services |
| Epinephrine Nebulized | Allergy / Anaphylaxis (Gold 1) Respiratory Distress with | | | | 1 mg (1 mg / ml) nebulized with 2 mL of NS | 1 mg (1 mg / ml) nebulized with 2 mL of NS 1 mL (1 mg/mL) nebulized with 2 mL of | N | Add 1 mg/ml to 2 ml NS. Add 1 mg/ml to 2 ml NS. | (1) 1 mg/ml ampule or vial | 1 dose (this could also be covered ir PAR level above) | 1mg/1ml amp/vial \$8.21 | Paramedic Services |
| | Inspiratory Stridor (Pink 2) | | | | | NS; may repeat with OLMC | N | rida i nigini to 2 ni rito. | | | | |
| Racemic Epinephrine | Allergy / Anaphylaxis (Gold 1) Respiratory Distress with | | | • | ✓ 0.5 mL nebulized | 0.5 mL nebulized; may repeat with | N | 2.25% solution diluted with 2.5 mL of NS 2.25% solution diluted with 2.5 mL of NS | Optional | Optional | 2.25% 0.5ml \$0.77 *stability very sensitive to temperature excursions above 77°F | Paramedic Services (Optional) |
| Epinephrine Auto-injector | Inspiratory Stridor (Pink 2) Allergy / Anaphylaxis (Gold 1) | | ~ ~ | | Epi Pen (0.3 mg); may repeat every 5-15 | OLMC <u>Under 25 kg</u> : Epi Pen Jr (0.15 mg); may repeat every 5-15 minutes <u>Over 25 kg</u> : Epi Pen (0.3 mg); may repeat every 5-15 minutes | N | 2.2.0 // Solution diluted with 2.5 mE of No | Optional | Optional | EpiPen Jr \$133.81, Adult \$133.81 | EMT, AEMT, & Paramedic Services (Optional) |
| | Universal Pain Management (Green 22) | | | | 1 mcg/kg IV/IN/IM; may repeat every 5- 10 minutes at 0.5-1.0 mcg/kg (MAX single dose 100 mcg) (MAX cumulative dose 5 mcg/kg) | | N - with exceptions | IM: administer slowly over 1-2 minutes IV: Administer slowly over 1-2 minutes Rapid administration may result in muscle and chest wall rigidity, impaired ventilation or respiratory distress/arrest. | | | | |
| | Post ETT / BIAD Pain Control / Sedation (Blue 6) | | | | | 0.5-1 mcg/kg IV/IO every 15 minutes (MAX cumulative dose 5 mcg/kg) | N | IM: administer slowly over 1-2 minutes IV: Administer slowly over 1-2 minutes Rapid administration may result in muscle and chest wall rigidity, impaired ventilation or respiratory distress/arrest. | CONTROLLED SUBSTANCE - | | | |
| Fentanyi | Chest Pain - Suspected Cardiac Origin (Red 2) | | | | 1 mcg/kg IV/IM/IN (MAX single dose 100 mcg) | | N | IM: administer slowly over 1-2 minutes IV: Administer slowly over 1-2 minutes Rapid administration may result in muscle and chest wall rigidity, impaired ventilation or respiratory distress/arrest. | Refer to hospital contract | Depends on hospital contract | 100mcg/2ml \$1.45 | Paramedic Services |
| | Pain Control Pre- Cardioversion / TCP (Red 17) | | | | 1 mcg/kg IV/IO/IM/IN (MAX single dose 100 mcg) | | N | IM: administer slowly over 1-2 minutes IV: Administer slowly over 1-2 minutes Rapid administration may result in muscle and chest wall rigidity, impaired ventilation or respiratory distress/arrest. | | | | |

| Medication | Protocol | EMR | EMT | AEMT | Paramedic | <u>Adult Dosing</u> | Pediatric Dosing | OLMC Reg'd? | Medication Notes | Suggested Par Level | PAR LEVEL COVERAGE | Estimated Cost (please note, cost will vary depending on distributor and availability - per Lexicomp accessed Feb 2022) | Service Level Required | | | |
|---|--|-----|-----|-------|--|--|--|--|--|--|------------------------------|--|---|----------|--|--|
| Fentanyl | Abdominal Pain (Gold 18) | | | | ~ | 1 mcg/kg IV/IN (MAX single dose 100 mcg); may repeat with OLMC | | N | IV: Administer slowly over 1-2 minutes Rapid administration may result in muscle and chest wall rigidity, impaired ventilation or respiratory distress/arrest. | CONTROLLED SUBSTANCE - Refer to hospital contract | Depends on hospital contract | 100mcg/2ml \$1.45 | Paramedic Services | | | |
| Glucagon | Diabetic / Hypoglycemic Emergencies (Gold 6) | | | ~ | * | 1 mg IM; paramedic may repeat with OLMC | <u>Under 20 kg</u> : 0.5 mg IM; paramedivc may repeat with OLMC <u>Over 20 kg</u> : 1 mg IM; paramedic may repeat with OLMC | N | Must be reconstituted with provided diluen prior to administration | t (1) 1 mg vial/kit | 1 dose | 1mg vial \$107.26 | AEMT & Paramedic Services | | | |
| | Allergy / Anaphylaxis -for patients taking Beta Blockers (Gold 1) | | | | ~ | 1 mg IM | | N | Must be reconstituted with provided diluent prior to administration | t | | | Paramedic Services | | | |
| Glucose | Diabetic / Hypoglycemic Emergencies (Gold 6) | | ~ | ~ | ~ | 1 tube PO | 1 tube PO | N | May also stock glucose tablets | (1) Tube | 1 dose | | EMT, AEMT, & Paramedic Services | | | |
| Hemostatic Dressings | Hemorrhage (Green 15) | ~ | ~ | ~ | ~ | Packed in wound to achieve hemorrhage control | Packed in wound to achieve hemorrhage control | N | | See Maine EMS Rules | N/A | | EMR, EMT, AEMT, & Paramedic Services | | | |
| Ipratroprium Bromide / Albuterol Mix | Respiratory Distress with Bronchospasm (Blue 7) | | ~ | ~ | | 0.5 mg nebulized every 5 minutes; may repeat x2 | Over 1 year: 0.5 mg nebulized every 5 minutes; may repeat x2 Under 1 year: do not use | N | 0.5 mg Ipratropium Bromide and 2.5 mg Albuterol premixed | (5) 0.5 mg/2.5 mg 3 ml bullets | 5 doses (25 minutes) | 0.5mg/2.5ml (0.02%) \$0.19; Also supplied as Albuterol/Ipratropium 2.5mg/0.5mg per 3ml neb \$0.26 | EMT, AEMT, & Paramedic Services | | | |
| | Post ETT / BIAD Pain Control / Sedation (Blue 6) | | | | ~ | 0.2 mg/kg IV/IO; may repeat once in 5 minutes (MAX single dose 25 mg) <u>OR</u> 0.4 mg/kg IM; may repeat once in 10 minutes (MAX single dose 50 mg) | | Y | IM: Administer deep into large muscle mass IV: Dilute calculated dose in 100 ml D5W or NS. Administer over 10 minutes via pump | | | | | | | |
| | Anxiolysis In CPAP (Blue 10) | | | | ~ | 0.2 mg/kg IV/IO; may repeat once in 5 minutes (MAX single dose 25 mg) over 10 minutes QR 0.4 mg/kg IM; may repeat once in 10 minutes (MAX single dose 50 mg) | | Y | IM: Administer deep into large muscle mass IV: Dilute calculated dose in 100 ml D5W or NS. Administer over 10 minutes via pump | CONTROLLED | | | | | | |
| Ketamine | Universal Pain Control (Green 22) | en | ~ | * | 0.2 mg/kg IV over 10 minutes (MAX single dose 25mg); may repeat every 15 minutes as needed (MAX cumulative dose 1 mg/kg) <u>OR</u> 0.5 mg/kg IN (MAX single dose 25 mg); may repeat once at 0.25 mg/kg IN in 15 minutes as needed for pain | | N - with exceptions | IV: Diute calculated dose in 50-100 ml D5W or NS. Administer over 15-30 minutes | SUBSTANCE - Refer to hospital contract | Depends on hospital contract | 100mg/ml 5ml vial \$6.51 | Paramedic Services | | | | |
| | Agitation / Excited Delirium (Orange 5) | | | | ~ | Under 65 years: 4 mg/kg IM | | Y | Administer deep into large muscle mass | - | | | | | | |
| | Anxiety for Hospice Patients (Grey 7) | | | | ~ | 0.5 mg/kg IN (MAX single dose 25 mg) | | Y | | - | | | | | | |
| Lidocaine 2% | IO Pain with Infusion | | | | | 40 mg slow IO push over 3-4 minutes followed by 10 ml NS flush; may repeat with 20 mg with OLMC | 0.5 mg/kg slow IO push over 3-4 minutes followed by 10 ml NS flush (MAX dose 40 mg); may repeat with 0.25 mg/kg with OLMC | N | Use 2% preservative free concentration | (4) 5 ml vials | 5ml = 10mg | 2% in 5ml vial \$1.12 | Paramedic Services | | | |
| | Respiratory Distress with Bronchospasm (Blue 7) | | | | ~ | 2 grams IV/IO over 10 minutes | 50 mg/kg IV/IO over 10 minutes (MAX dose of 2 grams) | N | Should not be given any faster than 150 mg/minute | | | | | | | |
| | Seizures during Pregnancy (Gold 9) | | | | ~ | 4 gm IV/IO over 10 minutes <u>OR</u> 8 grams IM (4 grams in each buttock) | dose of 2 grains | N | IV: Should not be given any faster than 150 mg/minute | | | | | | | |
| Magnesium Sulfate | Tachycardia - Wide Complex / Torsades de Pointes (Red 8, Red 12, Red 19) | | | | ~ | 2 grams IV/IO over 5 minutes | 25-50 mg/kg IV/IO (MAX single dose 2 grams) over 10 minutes | N | Should not be given any faster than 150 mg/minute | 8 gm (vial size may vary) | Need 8 grams for max dose | 1gm/2ml vial \$1.02 | Paramedic Services | | | |
| | Tricyclic Antidepressant Overdose (Yellow 2) | | | | ~ | 2 grams IV/IO over 10 minutes | 25-50 mg/kg IV/IO (MAX single dose 2 grams) over 10 minutes | N | Should not be given any faster than 150 mg/minute | | | | | | | |
| Mark-1 Auto injector | Nerve Agent / Organophosphate / Carbamate Poisoning (Vellow | ~ | * | · · . | ~ ~ ~ | ~ ~ ~ | ✓ ✓ | | For dyspnea, twitching, n/v, sweating, confusion, or pinpoint pupils 1 atropine autoinjector IM; may repeat every 5 minutes | For dyspnea, twitching, n/v, sweating, confusion, or pinpoint pupils <u>Under 1 year</u> : 1 pediatric atropine autoinjector; may repeat every 5 minutes <u>Over 1 year</u> : 1 atropine autoinjector; may repeat every 5 minutes | N | Administer undiluted deep IM into large muscle | Optional | Optional | | EMR, EMT, AEMT, & Paramedic Services (Optional) |
| | 7) | | | | | | | Apnea, seizure, unconsciousness or flaccid paralysis 3 atropine autoinjectors; may repeat every 5 minutes | Apnea, seizure, unconsciousness or flaccid paralysis <u>Under 1 year</u> : 1 pediatric atropine autoinjector; may repeat every 5 minutes <u>Over 1 year</u> : 1 atropine autoinjector; may repeat every 5 minutes | | | | | | | |
| Metoprolol | Tachycardia (Red 17) | | | | | 5 mg IV over 5 minutes; may repeat once | | Y | Administer over 5 minutes | (1) 5 mg/5 ml vial | 1 dose | 5mg/5ml \$0.47 | Paramedic Services | | | |

| Para Cattor Pre- outneews Priority (Het 17), Ref 2 (2) Image: Second Priority (Het 17) | Medication | Protocol | EMR | EMT | AEMT | Paramedic | <u>Adult Dosing</u> | Pediatric Dosing | OLMC Reg'd? | Medication Notes | <u>Suggested Par</u> Level | PAR LEVEL COVERAGE | Estimated Cost (please note, cost will vary depending on distributor and availability - per Lexicomp accessed Feb 2022) | Service Level Required |
|--|-------------------------------------|---|-----|-----|------|-----------|--|--|-----------------------------------|--|-------------------------------|-----------------------------------|--|--|
| Number of the second | | Seizures (Gold 8) | | | | ~ | resolution of seizure (MAX IM cumulative total 20 mg) <u>OR</u> 5 mg IV/IO; repeat every 5 minutes until resolution of seizure (MAX IV/IO | mg); repeat every 5 minutes at 0.6 mg/kg until resolution of seizure (MAX IM cumulative total of 20 mg) <u>OR</u> 0.1 mg/kg IV (MAX single dose of 5 mg); repeat every 5 minutes at 0.3 mg/kg until resolution of seizure (MAX IV | Ν | IM: Administer undiluted deep IM into large muscle IV/IO: Administer by slow injection over at least 2 minutes using a concentration < 5 | | | | |
| Hold Composition Image: Processing of the second seco | | | | | | ~ | minutes; may repeat x 3 (MAX IV/IO cumulative dose of 5 mg) <u>OR</u> 1-5 mg IM; repeat every 5 minutes; may repeat x 3 (MAX IM cumulative dose | 6 months-12 vears: 0.05 mg/kg IV/IO every 5 minutes (MAX IV/IO cumulative dose of 5 mg) <u>OR 6 months-12 vears</u> : 0.1 mg/kg IM (MAX single dose 5 mg); repeat every 5 minutes (MAX IM cumulative dose of 10 | Ŷ | IM: Administer undiluted deep IM into large muscle IV: Administer by slow injection over at least 2 minutes using a concentration < 5 mg/ml IN: Use 5 mg/ml solution only; max volume | | | | |
| Name Accord (0) () | | | | | | ~ | 4-10 mg IM | | Ν | Administer undiluted deep IM into large | | | | |
| Minute | | Anxiolysis In CPAP (Blue 10) | | | | 1 | repeat x 3 (MAX IV/IO cumulative dose of 5mg) <u>OR</u> 1-5 mg IM every 5 minutes; may repeat x 3 (MAX IM cumulative dose of | | Y | IM: Administer undiluted deep IM into large muscle IV: Administer by slow injection over at least 2 minutes using a concentration < 5 mg/ml IN: Use 5 mg/ml solution only; max volume | | Depends on hospital contract | | Paramedic Services |
| Network Production | Midazolam | Cardioversion / Trans- cutaneous Pacing (Red 17, | | | | * | 3 mg IV/IO/IN | | N | IM: Administer undiluted deep IM into large muscle IV: Administer by slow injection over at least 2 minutes using a concentration < 5 mg/ml IN: Use 5 mg/ml solution only; max volume | Refer to hospital | | | |
| n n Appende seture, unconsciousness of model paralysis (1 mg M) Appende seture, unconsciousness of model paralysis (1 mg M) n N N N N N N | | Organophosphate / | | | | ~ | confusion, or pinpoint pupils 10mg IM; may repeat every 5 minutes <u>OR</u> 5mg IV/IO; may repeat every 5 | confusion, or pinpoint pupils 0.2 mg/kg IM (MAX single dose 10 mg); may repeat every 5 minutes <u>OR</u> 0.1 mg/kg IV/IO (Max single dose 5 | | IM: Administer undiluted deep IM into large | | | | |
| Severe Alcohol Withdrawal (Yellow S) 2 Sign (Y, may repeat once (MXX IV curnulative does S mg) DQS 5 mg (N, may repeat once (MXX IV curnulative does 10 mg) Y M: Administer unditude dep (M into large muscle last 2 minutes under a concentration < 5 mg/ml Severe Alcohol Withdrawal (Yellow S) Z = Sign (Y, may repeat once (MXX IV curnulative does 50 mg) Y M: Administer unditude dep (M into large muscle last 2 minutes under a concentration < 5 mg/ml Severe Alcohol Withdrawal (Yellow S) Z = Sign (Y, may repeat once (MXX IV curnulative does 50 mg) Y M: Administer unditude dep (M into large muscle last 2 minutes under a concentration < 5 mg/ml Severe Alcohol Withdrawal (Yellow S) Severe Alcohol Withdrawal (Yellow | | | | | | ~ | flaccid paralysis 10 mg IM <u>OR</u> 5 mg IV/IO; may repeat up to 3 | flaccid paralysis 0.2 mg/kg IM (MAX single dose 10 mg); may repeat every 5 minutes <u>OR</u> 0.1 mg/kg IV/IO (Max single dose 5 | Ν | IM: Administer undiluted deep IM into large muscle | | | | |
| Nation Poisoning / Overdose (Vellow 1) v | | | | | | ~ | cumulative dose 5 mg) <u>OR</u> 5 mg IM; may repeat once (MAX IM | | | IM: Administer undiluted deep IM into large muscle IV: Administer by slow injection over at least 2 minutes using a concentration < 5 | | | | |
| Name Optional Optional Optional Services (Optional) Name Optional Optional Optional Services (Optional) Nitroglycerin (tabs or spray) Chest Pain - Suspected Cardiac Origin (Red 2) V V V V V V V V V V Paramedic level services (EMT assist patient) Nitroglycerin (tabs or spray) Chest Pain - Suspected Cardiac Origin (Red 2) V </td <td>Naloxone</td> <td></td> <td>~</td> <td>~</td> <td>*</td> <td>1</td> <td>minutes in other nostril 0.1 - 2 mg IV/IO/IM (AEMT & Paramedic)</td> <td>(AEMT & Paramedic) Over 20 kg or over 5 years: 0.1-2 mg</td> <td></td> <td>IV push (dilute 0.4 mg with 9 ml NS for</td> <td></td> <td>3 doses</td> <td>2mg/2ml syringe \$27.90 0.4mg/ml vial \$27.52</td> <td></td> | Naloxone | | ~ | ~ | * | 1 | minutes in other nostril 0.1 - 2 mg IV/IO/IM (AEMT & Paramedic) | (AEMT & Paramedic) Over 20 kg or over 5 years: 0.1-2 mg | | IV push (dilute 0.4 mg with 9 ml NS for | | 3 doses | 2mg/2ml syringe \$27.90 0.4mg/ml vial \$27.52 | |
| Nitroglycerin (tabs or spray) Chest Pain - Suspected Cardiac Origin (Red 2) V Image: Description of the system of parametic is system of parametis system of parametic is system of parametic is system | Naloxone Auto Injector | Poisoning / Overdose (Yellow 1) | ~ | ~ | ~ | ~ | | | N | | Optional | Optional | | EMR, EMT, AEMT, & Paramedic Services (Optional) |
| Pulmonary Edema (Blue 11) V Definition of high all of | Nitroglycerin (tabs or spray) | | | ~ | ~ | ~ | 0.4 mg tab or 1 spray SL; may repeat every 2 minutes if systolic BP above 100 mmHg (2 times for EMT/AEMT, no limit for paramedic) | | patient) Y - AEMT N - Medic | | | One patient (single use products) | 0.4mg tabs #25 bottle \$14.39; Spray bottle \$122.53 | AEMT, & Paramedic level services |
| Nitroglycerine 2% Olithent Pulmonary Edema (Blue 11) v v 1 linch on chest wall V - AEMT V - A | | Pulmonary Edema (Blue 11) | | | ~ | ~ | every 2 minutes if systolic BP above 100 | | | | | | | AEMT & Paramedic Services |
| 50% Nitrous Oxide/Oxygen Universal Pain Management (Green 22) Self administered to effect Parametic Services (Optional) | | | | | ~ | | | | | Use supplied paper applicator | | 2-4 doses | 2% 1gm packet \$1.88 | AEMT & Paramedic Services |
| | 50% Nitrous Oxide/Oxygen Mixture | Universal Pain Management (Green 22) | | | | ~ | Self administered to effect | | | | Optional | Optional | | Paramedic Services (Optional) |

| Medication | Protocol | EMR | EMT | AEMT | Paramedic | <u>Adult Dosing</u> | Pediatric Dosing | OLMC Reg'd? | Medication Notes | <u>Suggested Par</u> Level | PAR LEVEL COVERAGE | Estimated Cost (please note, cost will vary depending on distributor and availability - per Lexicomp accessed Feb 2022) | Service Level Required | | | | | | |
|----------------------------------|--|-----|-----|------|-----------|---|--|-------------|--|--|---|--|--|---|---|--|--|--------------------------------|--|
| | Post Cardiac Arrest (Red 16) | | | | ~ | Starting dose of 0.03 mcg/kg/min IV/IO. Titrate by 0.03 mcg/kg/min every 3-5 minutes to maintain systolic BP greater than 100 mmHg. (Jsuail dose is 0.03 - 0.25 mcg/kg/min) (Jsuail MAX dose is 0.6 mcg/kg/min) (Absolute MAX dose is 3 mcg/kg/min) | | Y | Add 8 mg norepinephrine to 250 ml (DSW or NS) Final concentration is 32 mcg/ml. Must be administered with infusion pump. | | | 8mg/2ml \$35.06 | | | | | | | |
| Norepinephrine | Medical Shock (Gold 15) | | | | ~ | mcg/kg/min every 3-5 minutes to maintain systolic BP greater than 100 mmHg. (Usual dose is 0.03 - 0.25 mcg/kg/min) (Usual MAX dose is 0.6 mcg/kg/min) (Usual MAX dose is 3 mcg/kg/min) | 0.03 mcg/kg/min IV/IO. Titrate by 0.03 mcg/kg/min every 3-5 minutes to maintain systolic BP greater than 100 mmHg. (Usual dose is 0.03 - 0.25 mcg/kg/min) (Usual MAX dose is 0.6 mcg/kg/min) (Absolute MAX dose is 3 mcg/kg/min) | Y | Add 8 mg norepinephrine to 250 ml (D5W or NS) Final concentration is 32 mcg/ml. Must be administered with infusion pump. | (2) 4 gram vials | 1 patient | 8mg/2ml \$35.06 | Paramedic Services | | | | | | |
| | Cardiogenic Shock (Red 22) | | | | ~ | 0.03 mcg/kg/min IV/I0. Titrate by 0.03 mcg/kg/min every 3-5 minutes to maintain systolic BP greater than 100 mmHg. (Usual dose is 0.03 - 0.25 mcg/kg/min) (Usual MAX dose is 0.6 mcg/kg/min) (Absolute MAX dose is 3 mcg/kg/min) | 0.03 mcg/kg/min IV/I0. Titrate by 0.03 mcg/kg/min every 3-5 minutes to maintain systolic BP greater than 100 mmHg. (Usual dose is 0.03 - 0.25 mcg/kg/min) (Usual MAX dose is 0.6 mcg/kg/min) (Absolute MAX dose is 3 mcg/kg/min) | Y | Add 8 mg norepinephrine to 250 ml (D5W or NS) Final concentration is 32 mcg/ml. Must be administered with infusion pump. | | | 8mg/2ml \$35.06 | | | | | | | |
| | Tricyclic Antidepressant Overdose (Yellow 2) | | | | ~ | 0.03 mcg/kg/min IV/IO. Titrate by 0.03 mcg/kg/min every 3-5 minutes to maintain systolic BP greater than 100 mmHg. (Usual dose is 0.03 - 0.25 mcg/kg/min) (Usual MAX dose is 0.6 mcg/kg/min) (Absolute MAX dose is 3 mcg/kg/min) | 0.03 mcg/kg/min IV/IO. Titrate by 0.03 mcg/kg/min every 3-5 minutes to maintain systolic BP greater than 100 mmHg. (Usual dose is 0.03 - 0.25 mcg/kg/min) (Usual MAX dose is 0.6 mcg/kg/min) (Absolute MAX dose is 3 mcg/kg/min) | Y | Add 8 mg norepinephrine to 250 ml (D5W or NS) Final concentration is 32 mcg/ml. Must be administered with infusion pump. | | | 8mg/2ml \$35.06 | | | | | | | |
| Ondansetron ODT | Nausea and Vomiting (Gold 20) | | | < | ~ | 4 mg ODT; may repeat once in 15 minutes | Under 4 years: do not use Over 4 years: 4 mg ODT; may repeat once in 15 minutes | N | | (2) 4 mg tablets | 1 patient | 4mg tab \$0.32 | AEMT & Paramedic Services | | | | | | |
| Ondansetron IV | Nausea and Vomiting (Gold 20) | | | ~ | ~ | | <u>Under 4 years</u> : 0.1 mg/kg IV/IM (MAX single dose 4 mg) <u>Over 4 years</u> : 4 mg IV; may repeat once in 15 minutes | N | Administer undiluted over at least 30 seconds, preferably over 2-5 minutes | (2) 4 mg/2 ml syringe or vial | 1 patient | 4mg/2ml vial \$0.29 | AEMT & Paramedic Services | | | | | | |
| Oxygen | Multiple Protocols | ~ | ~ | ~ | ~ | Titrate to SpO2 above 94% | Titrate to SpO2 above 94% | N | | See Maine EMS Rules | Defined in Rules | | EMR, EMT, AEMT, & Paramedic Services | | | | | | |
| | Metabolic Acidosis, TCA OD, CCB OD, or Hyperkalemia in Cardiac Arrest (Red 9, Red 12, Red 27) | | | | ~ | 50 mEq bolus IV/IO; may repeat x 2 at 5 minute intervals with goal of QRS complex less than 120msec | 1 to 2 mEq/kg IV/IO; repeat every 5 minutes (MAX single dose 50 mEq) (Dilute 1:1 to 4.2%) with goal of QRS complex less than 120msec | N | Administer slowly. Vesicant at concentrations >/= 8.4%; Ensure proper catheter placement prior to and during IV infusion. Pediatric Dose must be diluted 1:1 to 4.2% | | | 50mEq/50ml syringe/vial \$7.78 | | | | | | | |
| Sodium Bicarbonate | Hyperkalemia (Red 26) | | | | ~ | 50 mEq IV/IO | 1 mEq/kg IV over 5 minutes (MAX single dose 50 mEq) (Dilute 1:1 to 4.2%) | N | Administer slowly. Vesicant at concentrations >= 8.4%; Ensure proper catheter placement prior to and during IV infusion. Pediatric Dose must be diluted 1:1 to 4.2% | (4-5) 50 mEq/50 ml 8.4% syringe or vial | I 2 1/2 doses for a 100 kg patient (or 10 minutes) | 50mEq/50ml syringe/vial \$7.78 | Paramedic Services | | | | | | |
| | Tricyclic Antidepressant Overdose (Yellow 2) | | | | | | | | | | ~ | as needed with goal of QRS complex | 1 mEq/kg IV over 1 minute; may repeat as needed with goal of QRS complex less than 120msec. <u>Under 2 years old</u> : Dilute 1:1 with D5W to 4.2% | N | Administer slowly. Vesicant at concentrations >/= 8.4%; Ensure proper catheter placement prior to and during IV infusion. If under 2 years old: dilute 1:1 with DSW to 4.2% | | | 50mEq/50ml syringe/vial \$7.78 | |
| | Crush Injury / Suspension Trauma (Green 26) | | | | ~ | 1 mEq/kg IV over 5 minutes (MAX single dose of 50 mEq) | | N | Administer slowly. Vesicant at concentrations >/= 8.4%; Ensure proper catheter placement prior to and during IV infusion. | | | 50mEq/50ml syringe/vial \$7.78 | | | | | | | |
| Tetracaine | Ophthalmology (Green 28) | | | | ~ | 2 drops to affected eye every 5 minutes | | N | May administer via Morgan lens | (1) 0.5%/2 ml dropper | 1 patient | 5% 4ml bottle \$4.39 | Paramedic Services | | | | | | |
| Tranexamic Acid (TXA) | Hemorrhagic Shock (Green 17) | | | | ~ | 1 gram IV in 250 ml NS or D5W over 10 minutes | | N | Dilute in 50-100 ml D5W or NS (or use pre- mixed solution) and administer at a rate of 100 mg/min (1 gram over 10 minutes). | (1) 1 gram/100 ml vial OR premixed 1 | 1 patient | 1am vial \$7.98 | Paramedic Services | | | | | | |
| | Obstetrical Emergencies (Gold 19) | | | | ~ | 1 gram IV in 250 ml NS or D5W over 10 minutes | | N | Dilute in 50-100 ml D5W or NS (or use pre mixed solution) and administer at a rate of 100 mg/min (1 gram over 10 minutes). | gram/100 ml IV bag | i pausin | igni vizi er.30 | | | | | | | |
| Lactated Ringers (IV fluid) | Multiple Protocols | | | ~ | ~ | 40 ml/kg or 2,000 ml without OLMC) | TKO: 10-25 ml/hr Cardiogenic Shock: 10 ml/kg Bolus: 20 ml/kg; may repeat once Other doses are protocol specific | N | | See Maine EMS Rules | Defined in Rules | | AEMT & Paramedic Services | | | | | | |
| Heparin | For Heparin Locks Only Tracheostomy Care (Blue 15) | | ~ | < | - | 2-3 ml nebulized | 3-4 ml nebulized | N | For heparin lock use only | | Should be determined by service | | AEMT & Paramedic Services EMT, AEMT, & Paramedic Services | | | | | | |
| Normal Saline | Multiple Protocols | | Ý | * | * * | TKO: 10-25 ml/hr Other doses are protocol specific (MAX 40 ml/kg or 2,000 ml without OLMC) | TKO: 10-25 ml/hr Cardiogenic Shock: 10 ml/kg Bolus: 20 ml/kg; may repeat once Other doses are protocol specific | N | | See Maine EMS Rules | Defined in Rules | | EM1, AEM1, & Paramedic Services | | | | | | |
| D5W (IV fluid) | Multiple Protocols | | | ~ | ~ | TKO: 10-25 ml/hr Other doses are protocol specific (MAX 40 ml/kg or 2,000 ml without OLMC) | TKO: 10-25 ml/hr Cardiogenic Shock: 10 ml/kg Bolus: 20 ml/kg; may repeat once Other doses are protocol specific | N | | See Maine EMS Rules | Defined in Rules | | AEMT & Paramedic Services | | | | | | |
| WHO Oral Rehydration Solution | Hyperthermia (Yellow 13) | | ~ | ~ | ~ | Sips of 1 teaspoon salt + 8 teaspoons sugar + 1 liter water | Sips of 1 teaspoon salt + 8 teaspoons sugar + 1 liter water | N | Mix 1 teaspoon salt + 8 teaspoons sugar + 1 liter water | Optional | Optional | | EMT, AEMT, & Paramedic Services (Optional) | | | | | | |