

ACP Version



As always, this guide is intended to support the ALS PCS and is for reference only. Refer to the current Medical Directives for all treatment decisions. If there are inconsistencies between this reference guide and the current directives always refer to the Medical Directives.

For questions, comments, or suggestions for improvements, please contact us at: **Website** (follow 'contact us' link): www.cepcp.ca

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How to Use This Pocketbook (Digital Edition)

Welcome to the **Advanced Care Paramedic Pocketbook (2025 Edition)**. This resource was designed with input from active paramedics, and instructional designers to help you make fast, safe, and confident clinical decisions in the field. This guide is optimized for rapid access and clarity.

Purpose

This digital reference supports **clinical decision-making**, **dosing accuracy**, **and provincial compliance** with the ALS PCS and local CEPCP directives. It is not a substitute for medical judgment or the original medical directives.

Human Factors-Informed Design

This pocketbook follows best practices from human factors engineering, cognitive ergonomics, and clinical usability, including:

- Alphabetical ordering for fast search
- Hyperlinked table of contents and internal anchors for one-click access
- Chunked information to align with working memory limits (5–7 items per section)
- Critical information presented first (e.g., Indications → Clinical Parameters → Contraindications → Doses)

How to Use This Pocketbook

This pocketbook is designed for rapid, intuitive use in dynamic clinical environments. To enhance findability and reduce cognitive load, content is organized into clearly labeled sections based on clinical presentation

or treatment need. The following categories are listed in alphabetical order:

- Adrenal
- Airway and Allergy
- Analgesia
- Cardiac Arrest and ROSC
- Cardiogenic
- Childbirth
- Combative
- CVAD (Central Venous Access Device), Intravenous (IV), Intraosseous (IO)
- Hyperkalemia
- · Hypoglycemia, Opioid, Seizure
- Nausea and Vomiting
- CBRNE
- Special Events

Within each category, Medical Directives are also listed alphabetically, ensuring you can quickly locate the relevant directives, medications, and procedures. This layout supports both novice and experienced providers by simplifying access to critical information during high-stress situations.

Whether you're referencing the digital version or a printed copy, this structure helps streamline decision-making and reduce delays in care.

Online Use Tips

This pocketbook is best used in **a PDF reader with clickable links**. You can:

- Use Ctrl+F or Command+F to find any directive by keyword (e.g., "hypoglycemia")
- Use bookmarks or collapsible headings to navigate long sections
- View on a tablet in portrait mode for optimal one-hand use

Quick Reference Layout

Each directive follows a standardized structure:

- 1. Indications
- 2. Clinical Parameters
- 3. Contraindications
- 4. Medication / Procedure
- 5. Dosing (Adult and Pediatric)
- 6. Patch Requirements
- 7. Clinical Notes or Decision Tips

Safety Enhancements

- High-risk medications clearly labeled (e.g., Ketamine, Dopamine)
- Treat-and-Discharge directives include decision checklists
- Patch Failure protocols and documentation reminders included
- Pediatric dosing tables are weight-based and include simplified charts
- We've separated directives using bookmarks, dividers, and by ensuring most tables fit on a single page. At times, this is not always feasible, but efforts were made to prioritize readability and navigation
- Medication Safety Colour Standardization: We have standardized colouring in the pocketbook to improve usability and enhance medication safety.

Medication Dosing Reference – Navigation



Feedback & Versioning

We welcome suggestions or improvements. Please contact:

Email: cepcp@cepcp.ca

Website: www.cepcp.ca/contact

This version is **5.4 – Updated for 2025**. Always refer to the most current version posted online or distributed by CEPCP

Click Here For The Clinical Notes



Or Scan here to go to the Clinical Notes Section



Suspected Adrenal Crisis

Indications

Patient with primary adrenal failure who has signs of an adrenal crisis

Clinical Parameters

Paramedics are presented with a vial of Hydrocortisone for the identified patient **AND** no allergy or sensitivity to Hydrocortisone **AND** any of the following:

- Age-related hypoglycemia, or
- GI symptoms (vomiting, diarrhea, abdominal pain), or
- Syncope, or
- Temperature ≥ 38C or suspected / hx of fever, or
- Altered LOA, or
- Age related hypotension, or
- Age related tachycardia

All Doses							
Medication	Initial Dose	Q	Repeat	Max doses			
Hydrocortisone IM / IV / IO / CVAD	2 mg/kg Max 100 mg May be rounded to the nearest 10mg.	N/A	N/A	1 dose			

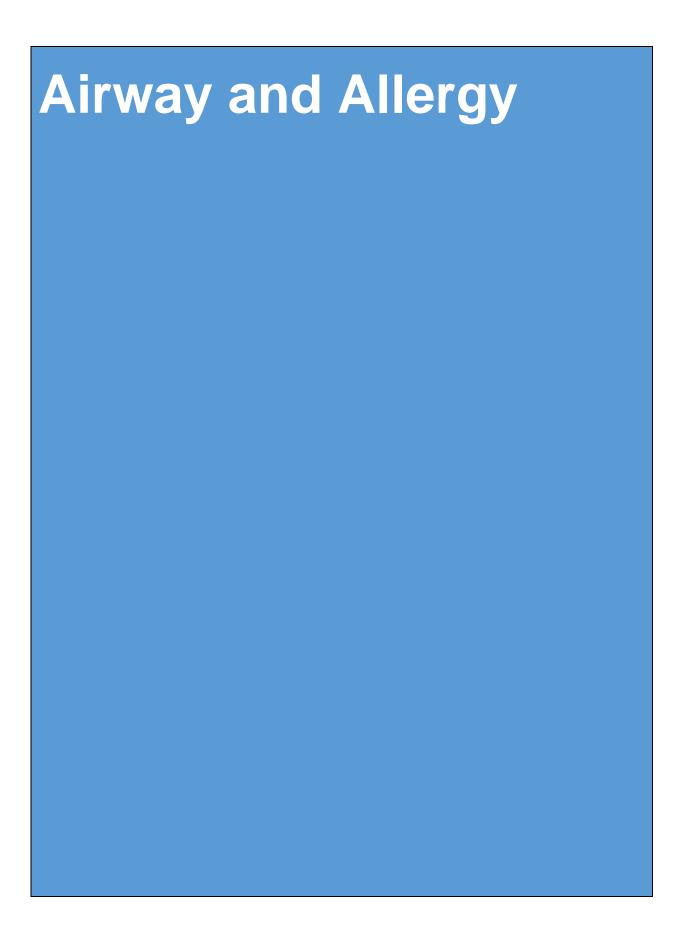
Notes:

To use the ACT-O-VIAL®:

- 1. Press down on plastic top to force diluent into the lower compartment
- 2. Gently agitate to effect solution
- 3. Remove plastic tab covering center of stopper
- 4. Sterilize top of stopper with alcohol
- 5. Insert needle through center of stopper and withdraw the appropriate dose / volume



Spot for your notes



Bronchoconstriction

Indications

Respiratory distress AND Suspected bronchoconstriction

Clinical Parameters

No allergy or sensitivity to any medication considered

Dexamethasone

- Not currently on PO or parenteral steroids
- Patient has history of asthma OR COPD OR 20 pack-year history of smoking

EPINEPHrine (High-Risk Medication)

- BVM ventilation is required
- Must have a history of asthma

Salbutamol

N/A

All doses					
Medication	Weight	Initial Dose	Q	Repeat	Max doses
Salbutamol MDI	< 25 kg	600 mcg	5-15 mins	600 mcg	3 doses
Salbutamol NEB	< 25 kg	2.5 mg	5-15 mins	2.5 mg	3 doses
Salbutamol MDI	≥ 25 kg	800 mcg	5-15 mins	800 mcg	3 doses
Salbutamol NEB	≥ 25 kg	5 mg	5-15 mins	5 mg	3 doses

All doses					
Medication	Initial Dose	Maximum Single Dose	Q	Repeat	Max doses
EPINEPHrine 1:1000 (1mg/kg) IM	0.01 mg/kg	0.5 mg	N/A	N/A	1 dose

^{*}EPINEPHrine may be rounded to the nearest 0.05 mg

All doses					
Medication	Initial Dose	Maximum Single Dose	Q	Repeat	Max doses
PO / IM / IV PO is the preferred route IM/IV routes should be reserved for patients that cannot tolerate PO.	0.5 mg/kg	8 mg	N/A	N/A	1 dose

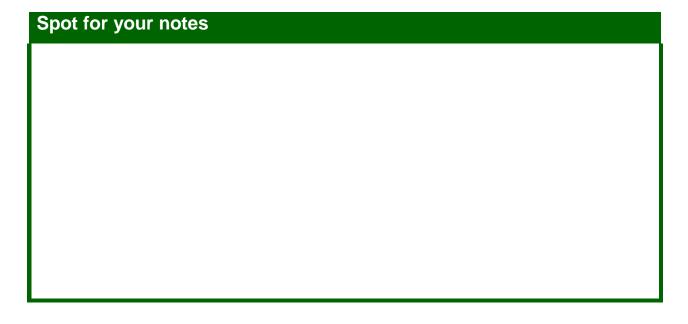
Dexamethasone Dosing Reference

Chart 1: Concentration 10 mg/mL

Weight (kg)	Dose (mg)	Volume (mL, 10 mg/mL)
1	0.5	0.05
2	1.0	0.1
3	1.5	0.15
4	2.0	0.2
5	2.5	0.25
6	3.0	0.3
7	3.5	0.35
8	4.0	0.4
9	4.5	0.45
10	5.0	0.5
11	5.5	0.55
12	6.0	0.6
13	6.5	0.65
14	7.0	0.7
15	7.5	0.75
>=16	8.0	0.8



NOTES: Proper assembly of the BVM and the MDI aerochamber. The MDI must be in an upright position to be administered correctly.



Cricothyrotomy Medical Directive Auxiliary

Indications

Need for advanced airway management

AND

Intubation AND supraglottic airway insertion unsuccessful or contraindicated

And

Unable to ventilate

Max x2 attempts per patient

(Only TAC and the CPLPs in York are certified on this currently)

Clinical Parameters

≥ 12 years old LOA: Altered

Contraindications

Suspected fractured larynx Inability to landmark

Confirmation Methods	Primary	Secondary
Confirm advanced airway placement	ETCO ₂ (waveform capnography) must be used if available.	 ETCO₂ (non-waveform capnography) Visualization (Oral) Auscultation Chest rise Esophageal Detection Device

Continuous Positive Airway Pressure (CPAP)-Auxiliary

Indications

Severe respiratory distress AND

Signs and/or symptoms of acute pulmonary edema (of any origin) **OR** COPD exacerbation

Clinical Parameters

- Able to sit upright and cooperate
- Respiratory rate ≥ 28 breaths/minutes
- SpO₂ < 90% OR accessory muscle use
- SBP ≥ 100
- Not asthma exacerbation
- Stable or protected airway
- Not suspected pneumothorax
- No major trauma or burns to the head or torso
- No tracheostomy



FLOW RATE (L/min)
PRESSURE (cmH ₂ O)
OXYGEN (%)*

8	10	12	15	20	25
5.0	8.0	10.0	15.0	20.0	25.0
54	59	62	67	73	77

Adult Doses (≥ 18 years of age)						
Initial setting Titration Titration Max setting						
5 cm H ₂ O	2.5 cm H ₂ O	5 min	15 cm H ₂ O			

If the device has adjustable FiO_2 , start at the lower setting and only increase if SpO_2 remains < 92% despite treatment and / or CPAP pressure of 10 cmH₂O

- 8I/min=5 cmH₂O
- 10I/min=8 cmH₂O (accepted titration for the CPAP model)
- 12I/min=10 cmH₂O
- 15lmin= 15 cmH₂O

A Spot for your Notes:	

Croup

Indications

Current history of upper respiratory tract infection AND

Barking cough or recent history of barking cough

Clinical Parameters

≥ 6 months to < 8 years old

No allergy or sensitivity to medications being considered

EPINEPHrine (High-Risk Medication)

- Patient must have strider at rest
- No allergy or sensitivity to EPINEPHrine
- Heart rate less than 200 beats per minute

Dexamethasone

- Unaltered LOA
- Can be administered for mild, moderate, and severe croup
- No steroids received within the last 48 hours
- Able to tolerate oral medications

Pediatric doses					
Medication	Weight	Initial Dose	Max Single Dose	Repeat	Мах
EPINEPHrine 1:1000 [1 mg/ml] NEB	< 10 kg	2.5 mg (2.5 ml)	2.5 mg	N/A	1 dose
EPINEPHrine 1:1000 [1 mg/ml] NEB	≥ 10 kg	5 mg (5 ml)	5 mg	N/A	1 dose
Dexamethasone PO	N/A	0.5 mg/kg	8 mg	N/A	1 dose

Advanced Airway and Tracheostomy Suctioning and Reinsertion

Indications

Patient with an endotracheal, SGA (with gastric suction port) or tracheostomy tube

AND The airway is obstructed or increased secretions are present

Clinical Parameters

Suctioning through SGA Gastric Port (if available)

- Known or suspected gastric secretions or emesis following placement of SGA
- Persistent difficult ventilation despite other efforts to improve ventilation

Suctioning through SGA Gastric Port					
Patient	Initial Suction pressure	Max single dose	Q	Repeat	Max doses
Infant < 1 year	60 – 100 mmHg	Until fluid disappears or after 15 seconds of no fluid return	N/A	Same as initial	N/A
Child ≥ 1 year to < 12 years	100 – 120 mmHg	Until fluid disappears or after 15 seconds of no fluid return	N/A	Same as initial	N/A
Adult ≥ 12 years	100 – 150 mmHg	Until fluid disappears or after 15 seconds of no fluid return	N/A	Same as initial	N/A

I-Gel size	Suction Catheter Size
1	N/A
1.5	10
2	12
2.5	12
3	12
4	12
5	14

Consider Suctioning (ETT/Tracheostomy)					
Patient	Initial Suction pressure	Max single dose	Q	Repeat	Max doses
Infant < 1 year	60 – 100 mmHg	10 seconds	1 min	Same as initial	N/A
Child ≥ 1 year to < 12 years	100 – 120 mmHg	10 seconds	1 min	Same as initial	N/A
Adult ≥ 12 years	100 – 150 mmHg	10 seconds	1 min	Same as initial	N/A

Endotracheal and Tracheostomy Suctioning

Indications

Patient with an ETT or trach tube AND

The airway is obstructed, or increased secretions are present

Clinical Parameters

Emergency Tracheostomy Reinsertion

- Patient with an existing tracheostomy where the inner and/or outer cannula(s) have been removed from the airway AND
- Respiratory distress AND
- Inability to adequately ventilate AND
- Paramedics are presented with a tracheostomy cannula for the identified patient.
- Paramedics must have the ability to landmark or visualize

Endotracheal Intubation (Oral and Nasal)

Indications

Need for ventilatory assistance or control **AND** Other airway management is ineffective

Clinical Parameters

- No allergy or sensitivity to the medication considered
- If < 50 years old AND experiencing asthma exacerbation, must be in or near cardiac arrest.

Nasal ETT:

- ≥ 8 years old
- Not apneic
- No suspected basal skull or mid-face fracture
- No uncontrolled epistaxis
- Not on anticoagulant therapy (ASA excluded)
- No bleeding disorders

Lidocaine Topical

- For nasal/oral ETT
- Not used if patient is unresponsive

Xylometazoline Topical

Use for nasal ETT only

Adult Doses Medication	Initial Dose	Q	Repeat	Max
Lidocaine topical	10 mg/spray	N/A	N/A	5 mg/kg up to 20 sprays
Xylometazoline topical	2 sprays / nare	N/A	N/A	1 dose

Confirmation Methods	Primary	Secondary
Confirm advanced airway placement	ETCO ₂ (waveform capnography) must be used if available.	 ETCO₂ (non-waveform capnography) Visualization (Oral) Auscultation Chest rise Esophageal Detection Device

Notes: The formula for **cuffed** pediatric tubes is: (Age / 4) + 3.5

A Spot for your Notes:

The maximum body dose of Lidocaine includes both TOPICAL and IV/IO/CVAD.

Moderate to Severe Allergic Reaction

Indications

Exposure to a probable allergen AND

Signs and/or symptoms of a moderate to severe allergic reaction (including anaphylaxis)

Clinical Parameters

No allergy or sensitivity to any medication

Consider EPINEPHrine use for anaphylaxis

DiphenhydrAMINE

• Weight must be ≥ 25 kg

Adult Doses				
Medication	Initial Dose	Q	Repeat	Max doses
EPINEPHrine 1:1000 [1 mg/ml] IM ONLY***	0.01 mg/kg Max 0.5 mg (0.5ml)	Min 5 min	same as initial	2 doses
DiphenhydrAMINE IV / IM	50 mg if ≥ 50 kg 25 mg if 25-49 kg	N/A	N/A	1 dose

Pediatric Doses				
Medication	Initial Dose	Q	Repeat	Max doses
EPINEPHrine 1:1000 [1 mg/ml] IM ONLY ***	0.01 mg/kg Max 0.5 mg	Min 5 min	same as initial	2 doses
DiphenhydrAMINE IV / IM	25 mg if 25-49 kg	N/A	N/A	1 dose

Anaphylaxis Clinical Support Tool

For Healthcare Professionals

Anaphylaxis is likely when any one of the following three criteria are fulfilled

- O
- No Known† Allergen Exposure

Sudden onset of an illness (minutes to several hours) with Skin / Mucosal involvement AND either:

- Respiratory involvement
- Cardiovascular involvement
- 2

Likely or Known† Allergen Exposure

Sudden onset of two or more of the following:

- Skin / Mucosal involvement
- Respiratory involvement
- Cardiovascular involvement
- Severe Gastrointestinal involvement ‡
- 3

Known† Allergen Exposure

Sudden onset of either:

- · Respiratory involvement after exposure to a non-inhaled allergen
- Cardiovascular involvement

A Spot for your Notes:	

EPINEPHrine Dosing Chart-IM only****

Weight (kg)	Dose (mg)	Volume (mL) to Administer that is rounded
4	0.04	0.05
6	0.06	0.05
8	0.08	0.10
10	0.10	0.10
12	0.12	0.10
14	0.14	0.15
16	0.16	0.15
18	0.18	0.20
20	0.20	0.20
22	0.22	0.20
24	0.24	0.25
26	0.26	0.25
28	0.28	0.30
30	0.30	0.30
32	0.32	0.30
34	0.34	0.35
36	0.36	0.35
38	0.38	0.40
40	0.40	0.40
42	0.42	0.40
44	0.44	0.45
46	0.46	0.45
48	0.48	0.50
50	0.50	0.50

Supraglottic Airway

Indications

Need for ventilatory assistance **OR** airway control **AND**Other airway management is ineffective

Clinical Parameters

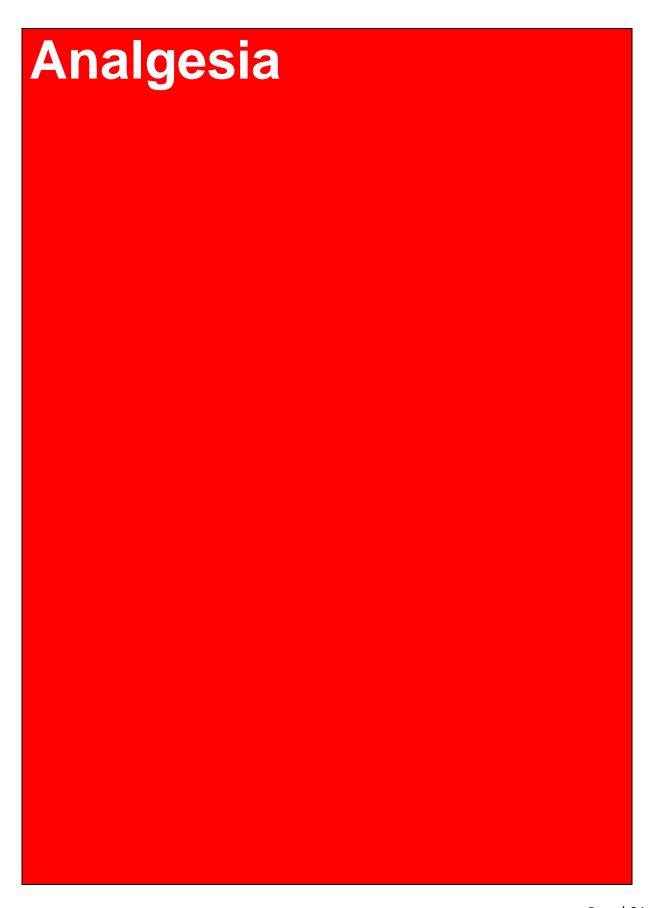
- Absent gag reflex
- No airway obstruction by foreign object
- No known esophageal disease (i.e., varices)
- No trauma to the oropharynx
- No caustic ingestion

Confirmation Methods	Primary	Secondary
Confirm advanced airway placement	ETCO ₂ (waveform capnography) must be used if available.	 ETCO₂ (non-waveform capnography) Auscultation Chest rise

Maximum 2 attempts per patient

King LT R	King LT Reference				
Size	Colour	Patient	Amount of air in Cuff		
0	Clear	< 5 kg	10 ml		
1	White	5 – 12 kg	20 ml		
2	Green	12 – 25 kg	25 – 35 ml		
2.5	Orange	25 – 35 kg	30 – 40 ml		
3	Yellow	4 – 5 ft tall	45 – 60 ml		
4	Red	5 – 6 ft tall	60 – 80 ml		
5	Purple	≥ 6 ft tall	70 – 90 ml		

iGel Refe	iGel Reference			
Size	Colour	Patient		
1	Pink	< 5 kg		
1.5	Blue	5 – 12 kg		
2	Grey	12 – 25 kg		
2.5	White	25 – 35 kg		
3	Yellow	30 – 60 kg		
4	Green	60 – 90 kg		
5	Orange	90 + kg		



Analgesia

Indications

Pain

Medication	Clinical Parameters	Contraindications
Acetaminophen	 ≥ 12 years old Unaltered 	 Acetaminophen use within previous 4 hours Allergy or sensitivity to acetaminophen Active vomiting Hx of liver disease Suspected ischemic chest pain Unable to tolerate oral medication

Ibuprofen	• ≥ 12 years old	
	• Unaltered	 NSAID use within previous 6 hours Allergy or sensitivity to ASA or NSAIDs Current active bleeding Patient on anticoagulation therapy (not anti-platelet therapy) History of peptic ulcer disease or GI bleed Asthmatic with no prior ASA/NSAID use Active vomiting Known renal impairment CVA or TBI in the previous 24 hours Unable to tolerate oral medication Suspected ischemic chest pain Pregnant

Ketorolac	• ≥ 12 years old	
	• Unaltered	 NSAID use within previous 6 hours Allergy or sensitivity to ASA or NSAIDs Current active bleeding Patient on anticoagulation therapy (not anti-platelet therapy) History of peptic ulcer disease or GI bleed Asthmatic with no prior ASA/NSAID use Active vomiting Known renal impairment CVA or TBI in the previous 24 hours Unable to tolerate oral medication Suspected ischemic chest pain Pregnant

Morphine	 ≥ 1 years old Unaltered Normotension 	 Allergy or sensitivity to morphine Treatment of headache Treatment of chronic pain SBP drops by ≥ 1/3 of initial value after morphine administration Suspected ischemic chest pain (refer to Cardiac Ischemia Medical Directive) Active labour
FentanYL	 ≥ 1 years old Unaltered 	 Allergy or sensitivity to fentanyl Treatment of headache Active labour Treatment of chronic pain Suspected ischemic chest pain SBP drops by ≥ 1/3 of initial value after fentanyl administration
Ketamine	• ≥ 1 years old • Unaltered	 Allergy or sensitivity ketamine Treatment of headache Active labour Treatment of chronic pain Suspected ischemic chest pain

Adult Doses	Adult Doses								
Medication	Age	Initial Dose	Max Single Dose	Q	Max Cumulative Dose	Max Doses			
Acetaminophen PO	≥ 18	960-1000 mg	1000 mg	N/A	N/A	1			
Acetaminophen	≥12 <18	500- 650mg	650mg	N/A	N/A	1			
Ibuprofen PO	≥ 12	400 mg	400 mg	N/A	N/A	1			
Ketorolac	≥ 12	10-15 mg	15 mg	N/A	N/A	1			
Morphine IV / SC	≥ 18	2-10 mg	10 mg	15 min	20 mg	N/A			
FentaNYL IV / IN	≥ 18	25-75 mcg	75 mcg	5 min	200 mcg	N/A			

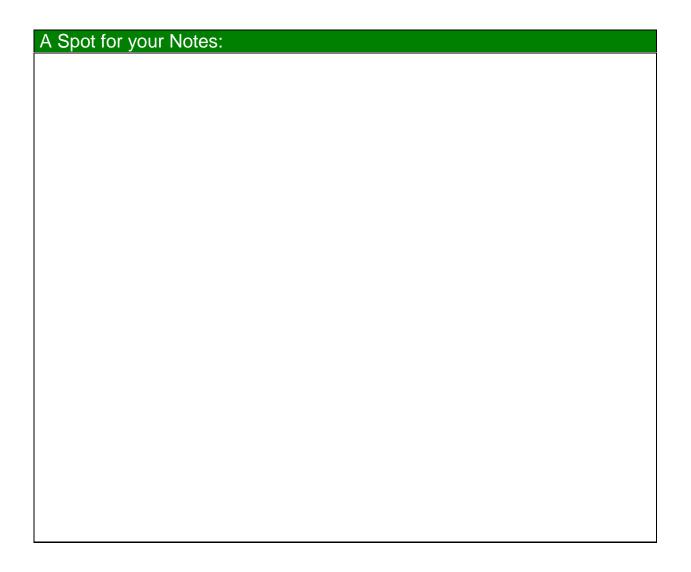
Mandatory PATCH: Contact the Base Hospital Physician (BHP) for authorization and dose verification before administering morphine or FentaNYL to any patient under 12 years of age.

Pediatric Analgesia Dosing Guidelines							
Medication	Age	Initial Dose	Max Single Dose	Q	Max Cumulative Dose	Max Doses	
Morphine (High-Risk Medication)	≥ 1 to < 18	0.05- 0.1 mg/kg	5 mg	15 min	10 mg	N/A	
FentaNYL (High-Risk Medication) IV / IN	≥ 1 to < 18	up to 1 mcg/kg	75 mcg	5 min	200 mcg	N/A	

Table 1: Morphine Dosing Chart – 0.1 mg/kg (IV/SC Route)

(Using 10 mg/mL concentration)

Age (Years)	Estimated Weight (kg)	Morphine Dose (mg)	Volume to Administer (mL)	
1	12	1.2	0.12	
2	14	1.4	0.14	int
3	16	1.6	0.16	P0
4	18	1.8	0.18	[q]
5	20	2.0	0.20	atc
6	22	2.2	0.22	<u>~</u>
7	24	2.4	0.24	
8	26	2.6	0.26	atc _
9	28	2.8	0.28	Mandatory Patch Point
10	30	3.0	0.30	
11	32	3.2	0.32	
12	34	3.4	0.34	
13	36	3.6	0.36	
14	38	3.8	0.38	
15	40	4.0	0.40	
16	42	4.2	0.42	
17	44	4.4	0.44	



Consider adding 0.12ml of dead space if using the IN routes (dependent on the IN product/manufacturer)



Mandatory patch point ages

Table 2: Morphine Dosing Chart (0.05 mg/kg)

Age (Years)	Estimated Weight (kg)	Morphine Dose (mg)	Volume t Administ (mL)	
1	12	0.6	0.06	
2	14	0.7	0.07	ınt
3	16	0.8	0.08	Mandatory Patch Poin
4	18	0.9	0.09	:h .
5	20	1.0	0.10	atc
6	22	1.1	0.11	F
7	24	1.2	0.12	ry
8	26	1.3	0.13	ato
9	28	1.4	0.14	າd:
10	30	1.5	0.15	
11	32	1.6	0.16	\geq
12	34	1.7	0.17	
13	36	1.8	0.18	
14	38	1.9	0.19	
15	40	2.0	0.20	
16	42	2.1	0.21	
17	44	2.2	0.22	

FentaNYL Dosing Chart (50mcg/ml): Intravenous Dose 1mcg/ml

IV Dosing

Age (Years)	Weight (kg)	IV Dose (mcg)	IV Volume (mL, 50 mcg/mL)
1	12	12 mcg	0.24 mL
2	14	14 mcg	0.28 mL t
3	16	16 mcg	0.32 mL
4	18	18 mcg	0.36 mL
5	20	20 mcg	0.40 mL
6	22	22 mcg	0.44 mL
7	24	24 mcg	0.28 mL 0.32 mL 0.36 mL 0.40 mL 0.44 mL 0.48 mL 0.52 mL 0.56 mL 0.60 mL
8	26	26 mcg	0.52 mL at 0
9	28	28 mcg	0.56 mL
10	30	30 mcg	0.60 mL
11	32	32 mcg	0.64 mL
12	34	34 mcg	0.68 mL
13	36	36 mcg	0.72 mL
14	38	38 mcg	0.76 mL
15	40	40 mcg	0.80 mL
16	42	42 mcg	0.84 mL
17	44	44 mcg	0.88 mL

FentaNYL Dosing Chart (50mcg/ml): Intranasal Dose 1mcg/ml

Age (Years)	Weight (kg)	IN Dose (mcg)	IN Volume (mL, 50 mcg/mL)
1	12	12 mcg	0.24 mL
2	14	14 mcg	0.28 mL 1
3	16	16 mcg	0.32 mL
4	18	18 mcg	0.36 mL
5	20	20 mcg	0.40 mL atc
6	22	22 mcg	0.44 mL
7	24	24 mcg	0.28 mL 0.32 mL 0.36 mL 0.40 mL 0.40 mL 0.40 mL 0.40 mL 0.50 mL 0.50 mL 0.60 mL
8	26	26 mcg	0.52 mL 3
9	28	28 mcg	0.56 mL
10	30	30 mcg	0.60 mL
11	32	32 mcg	0.64 mL
12	34	34 mcg	0.68 mL
13	36	36 mcg	0.72 mL
14	38	38 mcg	0.76 mL
15	40	40 mcg	0.80 mL
16	42	42 mcg	0.84 mL
17	44	44 mcg	0.88 mL

FentaNYL Dosing Chart for 0.5 mcg/kg

Fentanyl Dosing Reference (0.5 mcg/kg)

IV Dosing

Age (Years)	Weight (kg)	IV Dose (mcg)	IV Volume (mL, 50 mcg/mL)
1	12	6 mcg	0.12 mL
2	14	7 mcg	0.14 mL
3	16	8 mcg	0.16 mL
4	18	9 mcg	0.18 mL
5	20	10 mcg	0.20 mL
6	22	11 mcg	0.22 mL
7	24	12 mcg	Wandatory Parents of the Normal Mandatory Parents of the Norma
8	26	13 mcg	0.26 mL
9	28	14 mcg	0.28 mL
10	30	15 mcg	0.30 mL
11	32	16 mcg	0.32 mL
12	34	17 mcg	0.34 mL
13	36	18 mcg	0.36 mL
14	38	19 mcg	0.38 mL
15	40	20 mcg	0.40 mL
16	42	21 mcg	0.42 mL
17	44	22 mcg	0.44 mL

FentaNYL Dosing Chart for 0.5 mcg/kg: Intranasal Route

Age (Years)	Weight (kg)	IN Dose (mcg)	IN Volume (mL, 50 mcg/mL)
1	12	6 mcg	0.12 mL
2	14	7 mcg	0.14 mL tu
3	16	8 mcg	0.16 mL
4	18	9 mcg	0.18 mL
5	20	10 mcg	0.20 mL
6	22	11 mcg	0.22 mL
7	24	12 mcg	Wandatory Park Point Display to the property of the propert
8	26	13 mcg	0.26 mL at (
9	28	14 mcg	0.28 mL
10	30	15 mcg	0.30 mL
11	32	16 mcg	0.32 mL
12	34	17 mcg	0.34 mL
13	36	18 mcg	0.36 mL
14	38	19 mcg	0.38 mL
15	40	20 mcg	0.40 mL
16	42	21 mcg	0.42 mL
17	44	22 mcg	0.44 mL

Adult Ketamine Medical Directive – High-Risk Medication

This directive outlines the **safe administration of ketamine for analgesia** in adults. Due to its classification as a **high-risk medication**, strict adherence to dosing, route, and monitoring is required.

Adult Ketamine Intravenous Doses (High-Risk Medication)							
Medication	Age	Initial Dose	Max Single Dose	Q	Max Cumulative Dose	Max Doses	
Ketamine	≥ 18	O.25mg/kg Administered over 2-3 minutes and ensure it is properly diluted	20mg	15 mins	N/A	2	

Intranasal Ketamine (High-Risk Medication)							
Medication	Age	Initial Dose	Max Single Dose	Q	Max Cumulative Dose	Max Doses	
Ketamine	≥ 18	<mark>1mg/kg</mark>	<mark>75mg</mark>	15 mins	N/A	2	

PEDIATRIC KETAMINE DOSING (1–17 yrs) – Patch Required

Ketamine is classified as a **high-risk medication** in pediatric patients. **Mandatory PATCH is required** for all patients **under 18 years of age** to:

- 1. Confirm the appropriate dose
- 2. Confirm that ketamine is clinically indicated

Pediatric Intravenous Ketamine (High-Risk Medication)						
Medication	Age	Initial Dose	Max Single Dose	Q	Max Cumulative Dose	Max Doses
Ketamine	≥ 1 to < 18 years old	0.25mg/kg Administered over 2-3 minutes and ensure it is properly diluted	10mg	15 mins	N/A	2

Pediatric Intranasal Ketamine (High-Risk Medication)							
Medication	Age	Age Initial Dose Max Single Dose Dose Max Cumulative Dose Dose					
Ketamine	≥ 1 to < 18 years old	1mg/kg	30mg	15 mins	N/A	2	



Ketamine IV Dosing Chart (High-Risk Medication)

Concentration: 500 mg/10 mL (i.e., 50 mg/mL)

Dose: 0.25 mg/kg (IV route only)

Dose: 1mg/kg (IN only)

This chart is only applicable to the **50 mg/mL concentration** of ketamine. Use this chart to determine the appropriate **IV/IN ketamine dose based on weight**.

Always dilute and administer slowly over 2-3 minutes.



Ketamine IV Dosing Reference (50 mg/mL)

Pediatric Ketamine (IV)

Weight (kg)	Dose (mg)	Volume (mL, 50 mg/mL)
12	3.0	0.06
14	3.5	0.07
16	4.0	0.08
18	4.5	0.09
20	5.0	0.10
22	5.5	0.11
24	6.0	0.12
26	6.5	0.13
28	7.0	0.14
30	7.5	0.15
32	8.0	0.16
34	8.5	0.17
36	9.0	0.18
38	9.5	0.19
40*	10.0 (MAX)	0.20 (MAX)

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Ketamine IV Dosing Reference (50 mg/mL)

Adult Ketamine (IV)

Weight (kg)	Dose (mg)	Volume (mL, 50 mg/mL)
40	10.0	0.20
50	12.5	0.25
60	15.0	0.30
70	17.5	0.35
80+	20.0 (MAX)	0.40 (MAX)



Intranasal Ketamine Dosing Reference (50 mg/mL)

Pediatric IN Ketamine

Weight (kg)	Dose (mg)	Volume (mL, 50 mg/mL)
12	12	0.24
14	14	0.28
16	16	0.32
18	18	0.36
20	20	0.40
25	25	0.50
30*	30 (MAX)	0.60 (MAX)

Intranasal Ketamine Dosing Reference (50 mg/mL)

Adult IN Ketamine

Weight (kg)	Dose (mg)	Volume (mL, 50 mg/mL)
30	30	0.60
40	40	0.80
50	50	1.00
60	60	1.20
70	70	1.40
75+	75 (MAX)	1.50 (MAX)

Ketamine IV Dosing Chart (High-Risk Medication)

Concentration: 10mg/mL

This chart is only applicable to the **10 mg/mL concentration** of ketamine. Use this chart to determine the appropriate **IV ketamine dose based on weight**.

Always dilute and administer slowly over 2-3 minutes.

Ketamine Dosing Charts (10mglml Concentration)



IV Ketamine for Adults ≥18 Years (0.25 mg/kg, Max 20 mg)

Ketamine IV Dosing Reference (10 mg/mL)

Adult IV Ketamine

Weight (kg)	Dose (mg)	Volume (mL, 10 mg/mL)
40	10.0	1.00
50	12.5	1.25
60	15.0	1.50
70	17.5	1.75
80+	20.0 (MAX)	2.00 (MAX)
90+	20.0 (MAX)	2.00 (MAX)
100+	20.0 (MAX)	2.00 (MAX)
120+	20.0 (MAX)	2.00 (MAX)

IN Route Warning for Adults

The intranasal (IN) route is NOT recommended in adults when using Ketamine 10 mg/mL, as the required volume exceeds the safe limit of 1 mL per nostril. Consider 50mg/ml concentration for adults requiring IN administration.

Pediatric IN Ketamine Dosing (1 mg/kg) Patch Point Required



Ketamine IN Dosing Reference (10 mg/mL)

Pediatric IN Ketamine

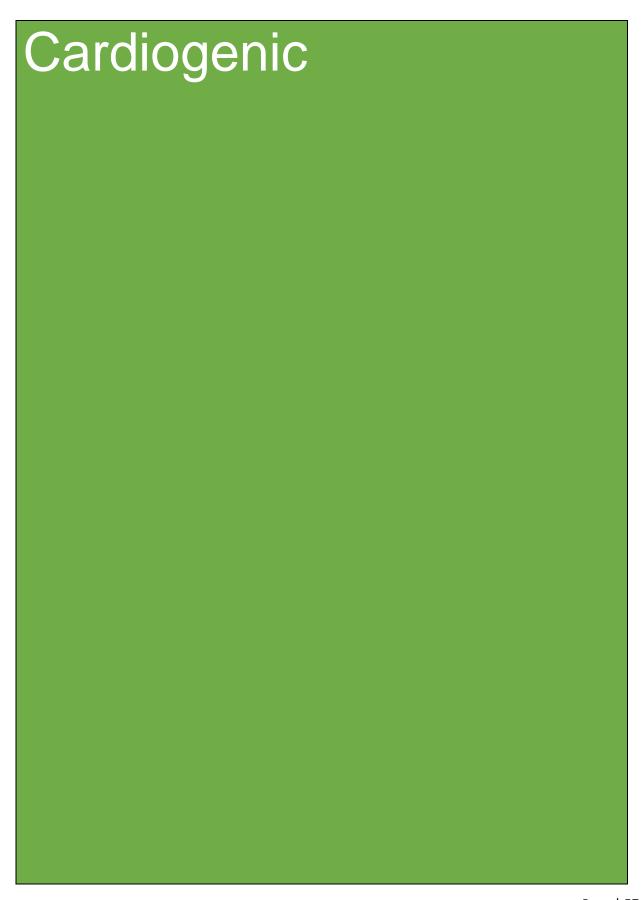
Weight (kg)	Dose (mg)	Volume (mL, 10 mg/mL)
12	12	1.20
14	14	1.40
16	16	1.60
18	18	1.80
20	20	2.00
22	22	2.20
24	24	2.40
26	26	2.60
28	28	2.80
30	30	3.00

Ketamine IV Dosing Reference (10 mg/mL)

Pediatric IV Ketamine

Weight (kg)	Dose (mg)	Volume (mL, 10 mg/mL)
12	3.0	0.30
14	3.5	0.35
16	4.0	0.40
18	4.5	0.45
20	5.0	0.50
22	5.5	0.55
24	6.0	0.60
26	6.5	0.65
28	7.0	0.70
30	7.5	0.75

Pediatric IV Ketamine Dosing (0.25 mg/kg)-Patch Point Required



Acute Cardiogenic Pulmonary Edema

Indications

Moderate to severe respiratory distress **AND** Suspected acute cardiogenic pulmonary edema

Clinical Parameters

Vital Sign Parameters

- No allergy or sensitivity
- No *phosphodiesterase inhibitors in the past 48 hours
- If SBP < 140 mmHg patient must have prior Nitroglycerin use or an IV established
- HR 60 159 bpm
- SBP ≥ 100 mmHg
- SBP drops no more than 1/3 of the initial reading

Adult Doses (≥ 18 years of age)

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Medication	Initial Dose	Q	Repeat	Max
Nitroglycerin SL SBP 100 – 139 mmHg WITH an IV or History of use	0.4 mg	5 min	0.4 mg	6 doses
Nitroglycerin SL SBP ≥ 140 mmHg and NO History or IV	0.4 mg	5 min	0.4 mg	6 doses
Nitroglycerin SL SBP ≥ 140 mmHg WITH History or IV	0.8 mg	5 min	0.8 mg	6 doses

Cardiac Ischemia

Indications

Suspected cardiac ischemia

Clinical Parameters

Nitroglycerin:

- Prior Nitroglycerin use and/or IV established
- Age ≥ 18 years old
- HR 60 159 beats per minute
- SBP ≥ 100 mmHg; Discontinue if SBP drops more than 1/3 of the initial reading
- No *phosphodiesterase inhibitor use in past 48 hours
- No right ventricular MI (no ST elevation in V4R in the setting of ST elevation in II, III and aVF).

ASA Indications:

- Unaltered LOA
- Age ≥ 18 years old
- Able to chew and Swallow

ASA Contraindications:

- No prior use of ASA if asthmatic
- No allergy to ASA or NSAIDs
- No current, active bleeding
- No CVA or TBI in past 24 hrs

Morphine: (after 3rd Nitroglycerin or if Nitroglycerin is contraindicated)

- Age ≥ 18 years old
- Severe pain
- SBP ≥ 100 mmHg
- Discontinue if SBP drops more than 1/3 the initial reading

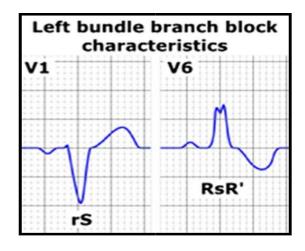
Adult Doses (≥ 18 years of age)				
Medication Initial Dose		Q	Repeat	Max dose
Nitroglycerin SL (Non-STEMI)	0.4 mg	5 min	0.4 mg	6 doses
Nitroglycerin SL (STEMI)	0.4 mg	5 min	0.4 mg	3 doses
ASA PO	160 - 162 mg	N/A	N/A	160 - 162 mg
Morphine IV	2 mg	5 min	2 mg	5 doses

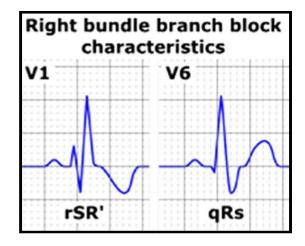
Common Imitators of AMI

Interpreting ST segment elevation is not possible in the following rhythms (not a complete list – other imitators exist)

LBBB

- Characterized by a supraventricular rhythm (identified by the presence of P waves and a 1:1 occurrence with QRS waves) & a wide (> 120 ms) QRS complex.
- A LBBB will have a -ve terminal deflection in V1 and typically a secondary R wave in V6 (seen as a notched complex seen as RsR' below). A STEMI cannot be determined in the field in the presence of a LBBB.
- A RBBB will have a +ve terminal deflection in V1 typically with a notched complex & a slurred or prolonged S wave in V6. A RBBB does not preclude the ability to interpret a STEMI in the field.

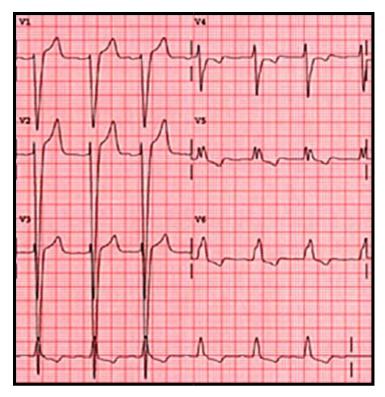




Ventricular Paced Rhythm

- A pacer spike is typically seen immediately preceding the QRS complex which will be wide.
- · Pacer detect may need to be activated on the cardiac monitor
- Electrical capture is the presence of a QRS following the pacer spike.
- Mechanical capture is the presence of a pulse matching the electrical rate of the paced rhythm.





LVH (Left Ventricular Hypertrophy)

Look at the RS complex in either V1 or V2 and count the small boxes of the -ve deflection

Then do the same with either V5 or V6, counting the small boxes of the +ve deflection

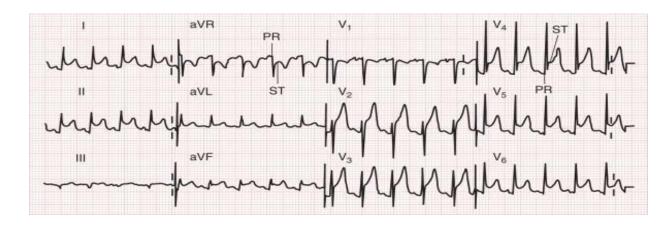
Add the two numbers together, if they equal 35 mm's or greater, it is likely LVH.

A STEMI cannot be

determined in the field in the presence of LVH

Pericarditis

- A condition in which inflammation of the pericardial sac produces electrical abnormalities in the 12 lead ECG
- Men aged 20 50 years of age are most susceptible
- Often produces "global" ST elevation, or elevation in leads that are not anatomically contiguous and that is not consistent with the patient's clinical presentation
- A STEMI cannot be determined in the field in the presence of pericarditis



Space for Notes:	

Cardiogenic Shock

Indications

STEMI positive 12-lead **AND**Cardiogenic Shock

Clinical Parameters

SBP < 90 mmHg

Bolus:

• No fluid overload-acute cardiogenic pulmonary edema

DOPamine (High-Risk Medication)

- No allergy or sensitivity
- No tachydysrhythmias (excluding sinus tachycardia)
- No mechanical shock (i.e. Tension Pneumothorax, Pulmonary Embolism, Pericardial Tamponade)
- No pheochromocytoma
- No hypovolemia

Adult Doses (≥ 18 years of age)						
Medication	Initial Dose	Q	Repeat	Max		
Bolus IV / IO / CVAD	10 ml/kg	Reassess every 250 ml	N/A	1,000 ml		
DOPamine IV High risk medication	5 mcg/kg/min	5 min	5 mcg/kg/min	20 mcg/kg/min		

Symptomatic Bradycardia

Indications

Bradycardia AND

Hemodynamic Instability

Clinical Parameters

SBP < 90 mmHg AND HR < 50 bpm with hemodynamic instability

Atropine:

- No hypothermia
- No heart transplant
- No allergy or sensitivity to any medication considered

TCP:

• No hypothermia

DOPamine:

- No pheochromocytoma
- No mechanical shock
- Allergy of sensitivity to DOPamine

Adult Doses (≥ 18 years of age)				
Medication	Initial Dose	Q	Repeat	Max
Atropine IV	1 mg	5 min	1 mg	2 doses
DOPamine IV	5 mcg/kg/min	5 min	Increase by 5 mcg/kg/min	20 mcg/kg/min

Transcutaneous pacing: Set rate at 80 and then increase mAmps to get electrical and mechanical capture

Notes:

Transcutaneous Pacing

- Attach limb leads
- Attach defibrillation pads
- Activate pacing function
- Increase CURRENT (mA) until electrical capture is evident (pacer spike followed by a QRS complex)
- Check for mechanical capture (assess for a pulse equivalent to the pacing rate) Assess BP
- Consider reducing the RATE to 60 bpm if BP is adequate
- Continuously reassess BP

Consider FentNYL and Midazolam (as per the Procedural Sedation Medical Directive) administration for this patient to relieve discomfort post TCP.

Tachydysrhythmia

Indications

Symptomatic tachydysrhythmia

Clinical Parameters

No allergy or sensitivity to any medication considered

Valsalva

- SBP ≥ 100 mmHg
- Unaltered LOA
- Use for regular narrow complex tachycardia ≥ 150 bpm
- Not for sinus tachycardia, A-fib, or A-flutter

Adenosine:

- SBP ≥ 100 mmHg
- Unaltered LOA
- Use for regular narrow complex tachycardia ≥ 150 bpm
- Not on Dipyridamole (Persantine, Aggrenox) or Carbamazepine (Tegretol)
- No bronchoconstriction on exam
- Not for sinus tachycardia, A-fib, or A-flutter
- PATCH only if suspected SVT with aberrancy (regular wide complex)

Lidocaine - PATCH:

- SBP ≥ 100 mmHg
- Unaltered LOA
- Use for regular wide complex tachycardia ≥ 120 bpm

Cardioversion - PATCH:

- For unstable patients: SBP < 90 mmHg, altered LOA, ongoing chest pain, other signs of shock
- Tachycardia ≥ 120 bpm (wide complex) OR ≥ 150 bpm (narrow complex)

Adult Tachycardia – Narrow Complex (≥18 years old)

Procedure / Medication	Initial Dose	Interval (Q)	Repeat	Max Dose
Valsalva (REVERT)	1 attempt	60 sec	_	2 attempts
Adenosine IV	6 mg	2 min	12 mg	2 doses
Cardioversion (Patch if unstable)	100 J	PRN	200 J → Max energy	3 attempts

Note: Patch for cardioversion if unstable.

Adult Tachycardia – Wide Complex (≥18 years old)

Medication / Procedure	Initial Dose	Interval (Q)	Repeat	Max Dose
Adenosine IV (Suspected SVT with aberrancy – Patch required)	6 mg	2 min	12 mg	2 doses
Lidocaine IV (Patch required)	1.5 mg/kg (Max 150 mg)	10 min	0.75 mg/kg (Max 75 mg)	3 doses
Cardioversion (Patch required)	100 J	PRN	200 J \rightarrow Max energy	3 attempts

Note: Adenosine only if suspected SVT with aberrancy – Patch required. Patch also required for lidocaine and cardioversion.

Notes:

*Administer synchronized cardioversion in accordance with **PATCH** orders.

The energy settings noted above are a guideline and would apply in the event of a **PATCH** failure.

Cardioversion

Synchronized Cardioversion - Safety Checklist for Paramedics

1. Prepare the Environment

Confirm resuscitation equipment is immediately available:

- Airway kit and suction
- Resuscitation drugs (as ordered)
- Manual resuscitator (BVM)
- Backup defibrillator pads (if available)

2. Activate SYNC Mode (Critical Safety Step)

- ☐ Press **SYNC** on the defibrillator.
- □ VISUALLY CONFIRM sync markers are aligned with each R wave on the ECG.

Monitor must display: "SYNCHRONIZED CARDIOVERSION" – if not, STOP and reassess.

3. Set Up for Cardioversion

Select the **ordered energy level** (Base Hospital Physician or medical directive).

Initiate ECG print.

Run strips before and after the procedure to capture rhythm and changes.

4. Safety Pause - Before Delivering Shock

Call a **CLEAR** verbal confirmation from all team members.

Visually scan to ensure **no one is touching** the patient or stretcher. Press and **hold** the SHOCK button until the energy is delivered.

5. Post-Shock Awareness ***

SYNC MODE RESETS AUTOMATICALLY after each shock.

If another cardioversion is required, you must reactivate SYNC before proceeding.

6. Reassess

Reassess patient's rhythm and clinical status.

Consider underlying causes, monitor for deterioration, and prepare to repeat procedure if ordered.



Tachydysrhythmia Treat and Discharge – IF AUTHORIZED

Indications

An ACP may **treat and discharge** a patient experiencing a tachydysrhythmia under these criteria

AND

if authorized to use this Medical Directive

Consi	iderations for Treat and Discharge
The pa	atient must meet all of the following criteria:
	The patient is ≥ 18 AND < 65 years old,
	Patient must have a prior history of SVT,
	The patient presented with narrow complex and regular rhythm
	Supraventricular Tachycardia (SVT),
	The patient must have only had a single SVT episode in the past
	24 hours,
	The patient has returned to normal sinus rhythm (NSR) either
	spontaneously, with a valsalva maneuver or with Adenosine
	treatment by paramedics and is now asymptomatic,
	The patient has returned to their normal level of consciousness,
	A complete set of vital signs are within expected normal ranges
	with a HR < 100 bpm and the patient remains in NSR for at least
	15 minutes post conversion,
ΔΝΠ	(continued on next nage)

Considerations for Treat and Discharge AND.... ☐ The patient was not treated with electrical cardioversion by paramedics, The patient is not pregnant, The SVT must not be related to alcohol or substance abuse or withdrawal. The patient has no fever or preceding illness, In addition to the above criteria, if all of the following requirements have been met, the patient can be discharged by Paramedics: A responsible adult agrees to remain with the patient for the next 4 hours. All of the patient or substitute decision makers questions were answered and a care plan was developed, The patient or substitute decision maker has been advised to follow up with their primary health care team or provider. Clear instructions to call 911 were provided should symptoms redevelop, Patient or substitute decision maker has the ability to access 911 should symptoms redevelop, Patient or substitute decision maker consents to the discharge.

Patch to BHP for consultation if you are unclear if the patient meets all of the discharge criteria.

Cardiac Arrest and ROSC

Medical Cardiac Arrest

Indications

Non-traumatic cardiac arrest.

In the following settings, consider very early transport after a minimum of one analysis (and defibrillation if indicated) once an egress plan is organized:

- 1) pregnancy presumed to be ≥ 20 weeks gestation (fundus at or above umbilicus, ensure manual displacement of uterus to left);
- 2) known reversible cause of the arrest unable to be addressed.

For patients in refractory VF or pulseless VT, consider:

Double sequential external defibrillation (DSED) if authorized, **OR** Vector change defibrillation (VCD) if DSED is unavailable or not authorized,

AND Transport following three (3) doses of DSED or VCD **AND** three (3) rounds of epinephrine if they remain in VF or pulseless VT (or after 3rd consecutive defibrillation if no IV/IO/CVAD/ETT access).

Refractory VF or pulseless VT is defined for the purpose of this directive, as persistent VF or pulseless VT after 3 consecutive shocks.

Clinical Parameters

CPR

- Altered LOA
- Performed in two-minute intervals
- Not obviously dead
- Does not meet the conditions of the DNR Standard

Manual Defibrillation

- ≥ 24 hours old AND Altered LOA
- VF OR pulseless VT

DSED or Vector Change

- ≥ 18 years old
- Altered LOA
- Non-traumatic VF/pulseless VT of presumed cardiac origin
- Three consecutive standard shocks

If anaphylaxis suspected as the causative event:

EPINEPHrine 1:1000 [1mg/ml] IM (High-Risk Medication)

- ≥ 24 hours old AND Altered LOA
- No allergy or sensitivity to Epinephrine

Lidocaine (High-Risk Medication)

- ≥ 24 hours AND Altered LOA
- Refractory or recurrent VF OR pulseless VT
- No allergy or sensitivity to Lidocaine
- Paramedics may count public access defibrillations and/or the fire departments defibrillations
- The patient must be in a shockable rhythm at least twice at any time to receive lidocaine and it is based on the last interpretation.

0.9% NaCl Fluid Bolus

- ≥ 24 hours **AND** Altered LOA
- PEA OR any other rhythm where hypovolemia is suspected

 Once starting the fluid bolus, it is recommended to complete the fluid bolus based on the 20ml/kg dose, regardless of if there is a rhythm change, unless the patient meets signs of fluid overload.

Medical TOR

- Mandatory Patch to the BHP for authorization to apply the Medical TOR if applicable
- ≥ 16 years old **AND** Altered LOA
- Arrest not witnessed by paramedic AND no ROSC after 20 minutes of resuscitation AND no defibrillation delivered

TOR is contraindicated if:

- Pregnancy presumed to be ≥ 20 weeks gestation
- Suspected hypothermia
- Airway obstruction
- Non-opioid drug overdose/toxicology

Pediatric Doses (greater than and equal to 24 hours to less than 12 years of age)				
Medication	Initial Dose	Q	Min	Max dose
EPINEPHrine 1:10,000 [0.1mg/mL] IV/ IO / CVAD	0.01 mg/kg (0.1 mL/kg) The EPINEPHrine dose may be rounded to the nearest 0.05mg	4 min	0.05 mg (0.5ml)	N/A
EPINEPHrine 1:1,000 [1mg/mL] - ETT	0.1 mg/kg (0.1 mL/kg)	4 min	0.5 mg (0.5ml)	2 mg (2 ml)
EPINEPHrine 1:1,000 (1mg/1ml) IM (for suspected anaphylaxis)	0.01 mg/kg max 0.5 mg	N/A	N/A	0.5 mg (0.5ml) 1 dose
Lidocaine IV / IO / CVAD for refractory/recurrent VF/pVT	1.0 mg/kg	4 min	N/A	2 doses
Lidocaine ETT for refractory/recurrent VF/pVT	2 mg/kg	4 min	N/A	2 doses
Bolus IV / IO / CVAD	20 ml/kg	Re- assess every 100 ml	N/A	2,000 ml

Adult Defibrillation Dosing (≥8 years of age)

- Interpret, print and code mark/snapshot the rhythm every 2 minute.
- For Zoll and LP15 provide energy as per RBHP/manufacturer.

CPR	As per current HSF of Canada Guidelines			
Treatment	Dose Repeats		Q	Max doses
Manual defib	LP15 360J Zoll X 200J	LP15 360J Zoll X 200J	2 min	N/A
DSED or VC MUST BE ≥ 18	LP15 360J Zoll X 200J	Zoll X 200J	2 min	N/A

Adult Medication Doses (greater than or equal to 12 years old)

Medication	Initial Dose	Q	Min	Max Dose
EPINEPHrine 1:10,000 (0.1 mg/ml) IV / IO/ CVAD	1mg (10ml)	4 min	1 mg	N/A
EPINEPHrine ETT	2.0 mg All 1:10,000 or mixed 1:10,000 and 1:1,000	4 min	2 mg	N/A
EPINEPHrine 1:1,000 (1mg/ml) – IM (for suspected anaphylaxis)	0.01 mg/kg max 0.5 mg (0.5ml)	N/A	N/A	1 dose

Medication	Initial Dose	Q	Min	Max Dose
Lidocaine IV / IO / CVAD for refractory/recurrent VF/pVT	1.5 mg/kg (1 st dose) <mark>0.75 mg/kg (2nd dose)</mark>	4 min	N/A	2 doses
Lidocaine ETT for refractory/recurrent VF/pVT	3 mg/kg (1 st dose) <mark>1.5 mg/kg (2nd dose)</mark>	4 min	N/A	2 doses
Bolus IV / IO / CVAD PEA or any other rhythm where hypovolemia is suspected Once initiated a fluid bolus, it is recommended to complete the fluid bolus, regardless of the rhythm change, unless there is a contraindication.	20 ml/kg	Re-assess every 250 ml	N/A	2,000 ml

Medical TOR: (≥ 16 years of age)

Mandatory Provincial Patch Point:

Patch early to consider TOR if there are extenuating circumstances or where the paramedic considers ongoing resuscitation to be futile. If the patch fails, and/or, no ROSC after 20 minutes of resuscitation, initiate transport.

Pediatric Dosing (Courtesy of Mitch Lohnert)

DOSING: ≥ 24 HOURS LESS THAN 12 YEARS OF AGE							
Weight	Age	Joules 2J/kg / 4J/kg	Epi 0.1mg(1ml) IV/IO/CVAD 0.01 mg/kg 0.1 mls/kg	Epi 1mg/1ml ETT 0.1mg/kg	Lidocaine IV/IO/CVAD 1mg/kg	Approx ETT Size	EZ IO
4 kg/9 lb	< 1 year	8 J / 16 J	0.05 mg = 0.5 ml	0.5mg = 0.5ml	4 mg = 0.2 ml	3.0 mm	Pink
6 kg/13lb	< 1 year	12J /24 J	0.06 mg = 0.6 ml	0.6mg = 0.6ml	6 mg = 0.3 ml	3.0 mm	Pink
8 kg/18lb	< 1 year	16 J / 32 J	0.08 mg = 0.8 ml	0.8mg = 0.8ml	8 mg = 0.4 ml	3.0–3.5 mm	Pink
10kg/22lb	< 1 year	20 J / 40 J	0.10 mg = 1.0 ml	1.0mg = 1.0ml	10 mg = 0.5 ml	3.5 mm	Pink
12kg/26lb	1	24 J / 48 J	0.12 mg = 1.2 ml	1.2mg = 1.2ml	12 mg = 0.6 ml	4.0 mm	Pink
14kg/31lb	2	28 J / 56 J	0.14 mg = 1.4 ml	1.4mg = 1.4ml	14 mg = 0.7 ml	4.0 mm	Pink
16kg/35lb	3	32 J / 64 J	0.16 mg = 1.6 ml	1.6mg = 1.6ml	16 mg = 0.8 ml	4.5 mm	Pink
18kg/40lb	4	36 J / 72J	0.18 mg = 1.8 ml	1.8mg = 1.8ml	18 mg = 0.9 ml	4.5 mm	Pink
20kg/44lb	5	40 J / 80 J	0.20 mg = 2.0 ml	2.0mg = 2.0ml	20 mg = 1.0 ml	5.0 mm	Pink
22kg/48lb	6	44 J / 88J	0.22 mg = 2.2 ml	2.0mg = 2.0ml	22 mg = 1.1 ml	5.0 mm	Pink
24kg/53lb	7	48 J /96J	0.24 mg = 2.4 ml	2.0mg = 2.0ml	24 mg = 1.2 ml	5.5 mm	Pink
26kg/57lb	8	200J Zoll 360 LP15	0.26 mg = 2.6 ml	2.0mg = 2.0ml	26 mg = 1.3 ml	5.5 mm	Pink
28kg/62lb	9	200J Zoll 360 LP15	0.28 mg = 2.8 ml	2.0mg = 2.0ml	28 mg = 1.4 ml	5.5 mm	Pink
30kg/66lb	10	200J Zoll 360 LP15	0.30 mg = 3.0 ml	2.0mg = 2.0ml	30 mg = 1.5 ml	6.0 mm	Pink
35kg/77lb	11		0.35 mg = 3.5 ml	2.0mg = 2.0ml	35 mg = 1.75 ml	6.0 mm	Pink

Newborn Resuscitation (< 24 hours)

Indications

Newborn patient (< 24 hours)

Clinical Parameters

Do not attempt resuscitate if patient is obviously dead as per BLS PCS Do not attempt resuscitate if presumed age is less than 20 weeks (consider calling the BHP for guidance)

< 24 hours of age

Positive Pressure Ventilation

• HR < 100

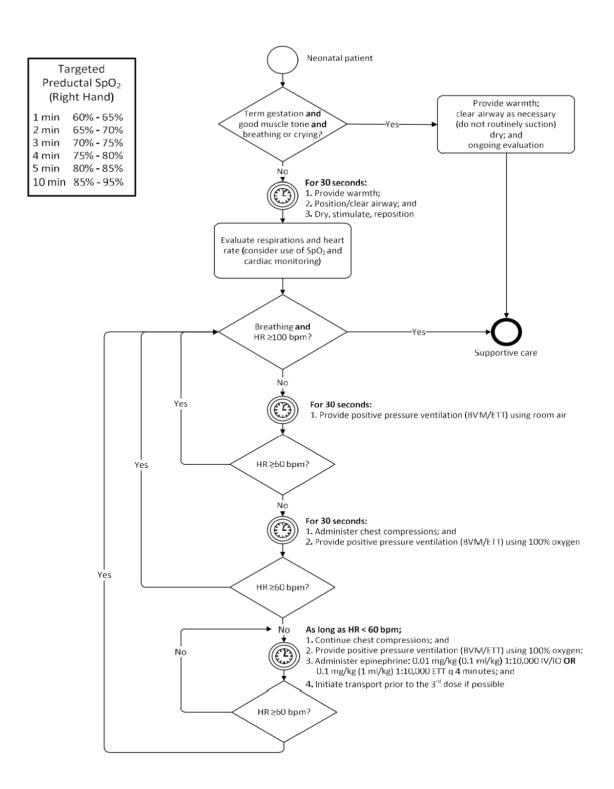
CPR

- HR < 60
- After 30 seconds of PPV with room air

EPINEPHrine

- After 30 seconds of CPR and PPV with oxygen
- No allergy or sensitivity

A Spot for your Notes:		



Newborn Reference					
Gestation al Age (wks)	Weight (kg)	Tube Size (cuffed)	IV/IO EPINEPHrine [0.1 mg/ml] (Using a 1ml syringe is recommended)	ETT EPINEPHrine [0.1 mg/ml] (Using a 1ml syringe is recommended until volume exceeds 1ml)	
23-24	≈ 0.5	2.5 mm	0.05 mg (0.5 ml)	0.05 mg (0.5 ml)	
25-26	≈ 0.8	2.5 mm	0.05 mg (0.5 ml)	0.08 mg (0.8 ml)	
27-29	≈ 1.0	2.5 mm	0.05 mg (0.5 ml)	0.10 mg (1.0 ml)	
30-32	≈ 1.2	3.0 mm	0.05 mg (0.5 ml)	0.12 mg (1.2 ml)	
33-34	≈ 1.6	3.0 mm	0.05 mg (0.5 ml)	0.16 mg (1.6 ml)	
35-37	≈ 2.2	3.5 mm	0.05 mg (0.5 ml)	0.22 mg (2.2 ml)	
38-40	≈ 2.8	3.5 mm	0.05 mg (0.5 ml)	0.28 mg (2.8 ml)	
41-43	≈ 3.7	4.0 mm	0.05 mg (0.5 ml)	0.3 mg (3.0 ml)	

The formula for cuffed pediatric tubes is: (Age / 4) + 3.5

Category	Pre-term (<37 weeks)	Term (37-42 weeks)	
Skin	Thin, translucent, veins visible	le Opaque, some vernix present	
Feet	Smooth soles, few creases	Full creases covering the soles	
Ears	Pliable, slow recoil	Firm, immediate recoil	
Muscle Tone	Floppy, extended posture	Flexed limbs, active movements	

Two stee	OLI	Para	Mossis Tana	A	Materia
Weeks	Skin	Feet	Muscle Tone	Appearance	Weight
	Extremely thin,	No creases, feet	Minimal tone, limbs	Eyes fused, limbs very thin, delicate structure, abdomen	Approximately
14	translucent, veins	very small	floppy	flat and undeveloped	100 grams
weeks	prominent	•			
20	Thin, translucent,	No creases on	Minimal tone, floppy	Eyes fused, limbs thin and elongated, visible veins,	Approximately
weeks	veins visible	soles	limbs	abdomen slightly rounded	300 grams
04	Veins visible, skin	Few creases on	Some tone,	Eyes partially open, thin limbs, some subcutaneous fat,	Approximately
24 weeks	becoming slightly	soles	intermittent	abdomen more rounded	600 grams
weeks	thicker		movements		
28	Thicker skin,	Creases covering	Increased tone,	Eyes open, more rounded limbs, subcutaneous fat	Approximately
weeks	translucency reducing	part of sole	occasional flexion	increasing, abdomen fuller	1 kg
32	Mostly opaque, less	Moderate creases	Flexed limbs, more	Well-defined limbs, eyes fully open, plumper	Approximately
weeks	visible veins	over sole	frequent movements	appearance, abdomen prominent and rounded	1.8 kg
36	Opaque, some vernix	Full creases	Good tone, active	Rounded limbs, less wrinkled skin, vernix and lanugo,	Approximately
weeks	present	across the sole	movements	abdomen firm and rounded	2.5 kg
40	Fully opaque, possible	Full creases, well-	Strong tone, active and	Well-developed, rounded limbs, little or no lanugo,	Approximately
weeks	peeling or vernix	defined	flexed	abdomen firm and well-defined	3-4 kg
(Term)					

iGel Reference				
Size	Colour		Patient	
1	1 Pink		< 5	kg
King LT Re	ference			
Size	Col	lour	Pat	ient
0	Cle	ear	< 5	kg
	Inflate cu	uff with a max	rimum of 10 ml ai	r.
EPINEPHri	ne			
		Age		
		< 24 hours		
		Route		
		ľ	V/ IO	ETT*
Solu	tion	_	nL = 1:10,000 mg/1ml)	0.1 mg/mL = 1:10,000 (0.1mg/1ml)
Dos	60	0.0	1 mg/kg	0.1 mg/kg
	36	(0.1 ml/kg)		(1.0 ml/kg)
Minimun Do:		0.05 mg (0.5 ml)		N/A
Maximun Do:	_	N/A		0.3 mg (3.0 ml)
Dosing I	Interval	4	l min	N/A
Max # of	Doses		N/A	1

^{*}Administer EPINEPHrine IV/IO after a **single ETT dose**. A 3cc flush should be administered after epinephrine administration for the IV/IO routes

Gestational Age (weeks)	Estimated Weight (kg)
20	1.4
21	1.5
22	
	1.6
23	1.7
24	1.8
25	1.9
26	2.0
27	2.1
28	2.2
29	2.3
30	2.4
31	2.5
32	2.6
33	2.7
34	2.8
35	2.9
36	3.0
37	3.1
38	3.2
39	3.3
40	3.4

10% Dextrose Dosing for Neonates (20-40 Weeks Gestation)

Gestational Age (weeks)	Estimated Weight (kg)	Dextrose Dose (g)	Dextrose Volume (mL)
20	1.4	0.28	2.8
21	1.5	0.3	3.0
22	1.6	0.32	3.2
23	1.7	0.34	3.4
24	1.8	0.36	3.6
25	1.9	0.38	3.8
26	2.0	0.4	4.0
27	2.1	0.42	4.2
28	2.2	0.44	4.4
29	2.3	0.46	4.6
30	2.4	0.48	4.8
31	2.5	0.5	5.0
32	2.6	0.52	5.2
33	2.7	0.54	5.4
34	2.8	0.56	5.6
35	2.9	0.58	5.8
36	3.0	0.6	6.0
37	3.1	0.62	6.2
38	3.2	0.64	6.4
39	3.3	0.66	6.6
40	3.4	0.68	6.8

Notes:

For secondary management of a neonate when hypovolemia is suspected, paramedics can patch to the Base Hospital Physician (BHP) to request authorization for a fluid bolus. According to the Neonatal Resuscitation Program (NRP) 8th edition, the recommended fluid bolus dose is 10 mL/kg of normal saline (0.9% NaCl).

Return of Spontaneous Circulation (ROSC)

Indications

ROSC after resuscitation was initiated

Clinical Parameters

- Adult hypotensive
- Pediatric SBP < 70 mmHg + (2 x age in years)

Bolus:

- No fluid overload-cardiogenic pulmonary edema
- Fluid administration during the cardiac arrest does not count towards fluid administered in the ROSC setting.

DOPamine (High-Risk Medication):

- No allergy/sensitivity to Dopamine
- No pheochromocytoma
- No tachydysrhythmias (excluding sinus tachycardia)
- No mechanical shock states (i.e.: tension pneumothorax, pulmonary embolism, pericardial tamponade)

Adult Doses				
Medication	Initial Dose	Q	Titration	Max dose
Bolus		Reassess		
IV / IO / CVAD	10 ml/kg	every	N/A	<mark>1000 ml</mark>
Macodrip set)		250 ml		
DOPamine IV only	5	5 min	5	20
≥ 8 years old	mcg/kg/min	S IIIIII	mcg/kg/min	mcg/kg/min

Pediatric Doses (less than 12 years old)							
Medication	Initial Dose	Q	Titration	Max dose			
Bolus IV / IO / CVAD (Microdrip set)	10 ml/kg	Reassess every 100 ml	N/A	<mark>1000 ml</mark>			
DOPamine IV only and age ≥ 8 yrs	5 mcg/kg/min	5 min	5 mcg/kg/min	20 mcg/kg/min			

Hemodynamics Optimization

- Target SBP ≥90 mmHg or MAP ≥65 mmHg
- Start with 250 mL 0.9% NaCl if lungs are clear
- Reassess after each bolus; continue up to 1000 mL total
- If SBP <90 mmHg or poor perfusion persists:
- → Initiate dopamine at 5 mcg/kg/min
- → Titrate every 5 min by 5 mcg/kg/min up to 20 mcg/kg/min

12-lead & STEMI Identification

- Obtain 12-lead ECG after stabilizing ABCs
- Repeat serial 12-leads if non-diagnostic
- Identify STEMI and prioritize PCI-capable center
- Notify hospital early with ECG & clinical status
- Reapply defib pads if STEMI is present

Temperature Management

- Monitor for rising temperature after ROSC
- Avoid hyperthermia >37.7°C
- Minimize heat retention during transport
- Consider cool ambulance environment
- If hyperthermia suspected: apply cold packs
- Report fever to receiving facility

Sedation & Seizure Management

- Sedate only when clinically indicated
- Use small, titrated doses for discomfort
- Sedation may be appropriate for intubated patients
- Patch if patient with iGel requires sedation for removal
- Monitor and document patient response carefully

Safe Transport & Continuous Monitoring

- Ensure continuous monitoring en route
- Anticipate re-arrest at all times
- Provide structured handover with updates to receiving facility

DOPami	ine Single Stre	ngth 800 mcg/m	l	
Weight	5mcg/kg/min	10mcg/kg/min	15mcg/kg/min	20mcg/kg/min
5 kg	2	4	6	8
10	4	8	11	15
15	6	11	17	23
20	8	15	23	30
25	9	19	28	38
30	11	23	34	45
35	13	26	39	53
40	15	30	45	60
45	17	34	51	68
50	19	38	56	75
55	21	41	62	83
60	23	45	68	90
65	24	49	73	98
70	26	53	79	105
75	28	56	84	113
80	30	60	90	120
85	32	64	96	128
90	34	68	101	135
95	36	71	107	143
100	38	75	113	150
105	39	79	118	158
110	41	83	124	165
115	43	86	129	173
120	45	90	135	180

Patient Weight (kg)	Fluid Bolus Volume (mL)
12	120
13	130
14	140
15	150
16	160
17	170
18	180
19	190
20	200
21	210
22	220
23	230
24	240
25	250
26	260
27	270
28	280
29	290
30	300
31	310
32	320
40	400
50	500
60	600
70	700
80	800
90	900
100	1000

Trauma Cardiac Arrest

Indications

Cardiac arrest secondary to severe blunt or penetrating trauma

Clinical Parameters

CPR

- Altered LOA
- Performed in two-minute intervals
- Not obviously dead
- Does not meet the conditions of the DNR Standard

Manual Defibrillation

- ≥ 24 hours old AND Altered LOA
- VF **OR** pulseless VT

Trauma TOR

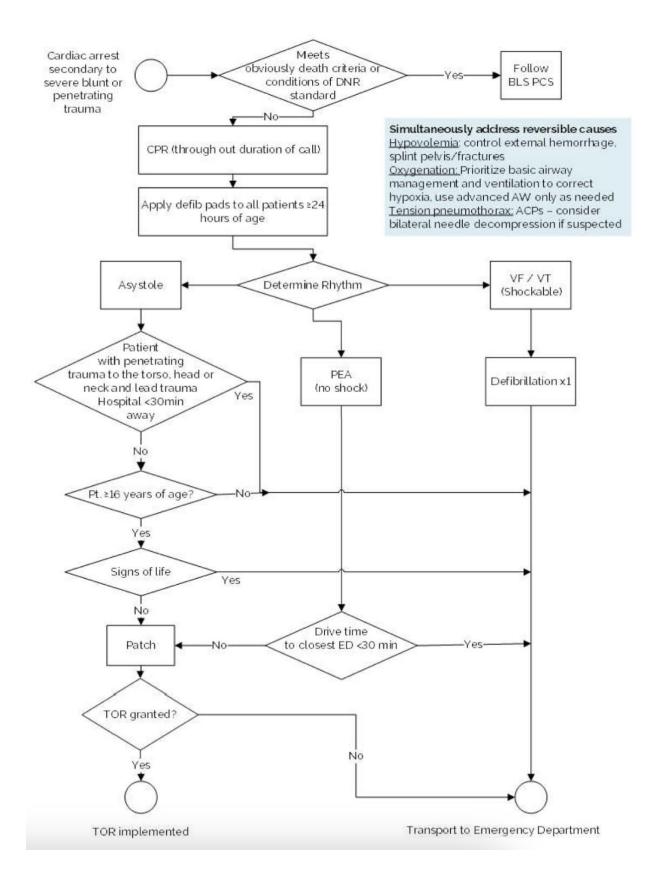
- Mandatory PATCH Point to the BHP for authorization to apply the Trauma TOR if applicable. If the BHP patch fails, or the Trauma TOR does not apply, transport to the closest appropriate receiving facility following the 1st analysis/defibrillation.
- ≥ 16 years old
- No palpable pulses AND no defibrillations delivered AND rhythm is Asystole AND no signs of life at any time since fully extricated OR signs of life when fully extricated with the closest ED ≥ 30 min transport time away OR rhythm PEA with the closest ED ≥ 30 min transport time away
- NO TOR if patients with penetrating trauma to the torso or head/neck and Lead Trauma Hospital < 30 min transport time away

Adult Doses

Treatment	Dose	Q	Repeat	Max dose
Manual defibrillation	Max energy ≥8 years older	N/A	N/A	1 dose
Bolus IV / IO / CVAD (≥12 years older)	20 ml/kg	Reassess every 250 ml	N/A	2,000 ml
Needle Thoracostomy				

Pediatric Doses (≥ 24 hours to < 8 years of age)

Treatment	Dose	Q	Repeat	Max dose
Manual defibrillation	2 J/kg	N/A	N/A	1 dose
Bolus IV / IO / CVAD	20 ml/kg	Reassess every 100 ml	N/A	2,000 ml
Needle Thoracostomy				



NOTES: Pediatric Joule Settings

Weight	Age	Joules 2J/kg
4 kg/9 lb	≥24 hr	8 J
6 kg/13lb	≥24 hr	15 J
8 kg/18lb	≥24 hr	20 J
10kg/22lb	< 1 year	20 J
12kg/26lb	1 year	30 J
14kg/31lb	2 years	30 J
16kg/35lb	3 years	50 J
18kg/40lb	4 years	50 J
20kg/44lb	5 years	50 J
22kg/48lb	6 years	50 J
24kg/53lb	7 years	50 J
26kg/57lb	8 years	Max joules settings Zoll 200J LP15 360 J
28kg/62lb	9 years	Max joules settings Zoll 200J LP15 360 J
30kg/66lb	10 years	Max joules settings Zoll 200J LP15 360 J
35kg/77lb	11 years	Max joules settings Zoll 200J LP15 360 J



Emergency Childbirth

Indications

Pregnant patient experiencing labour **OR** immediately following delivery

Clinical Parameters

For all considerations, patient must be of childbearing years.

Delivery

- Second stage labour and/or imminent birth AND/OR:
 - Shoulder dystocia
 - Breech delivery
 - Prolapsed cord

Umbilical Cord Management

 Cord complications OR if newborn or maternal resuscitation is required OR due to transport considerations

Oxytocin

- Postpartum delivery (the placenta can be in or out)
- No allergy or sensitivity to oxytocin
- All fetuses have been delivered
- SBP < 160 mmHg
- No suspected or known preeclampsia with current pregnancy
- No eclamptic seizures with current pregnancy
- ≤ 4 hours post placenta delivery

External Uterine Massage

Post-placental delivery

Bimanual Compression

The placenta does not have to be delivered

Adult doses

Medication	Initial Dose	Q	Repeat	Max
Oxytocin IM	10 units	N/A	N/A	1 dose

Interventions

Shoulder Dystocia

Perform ALARM twice on scene. If successful, delivery the neonate.
 If unsuccessful, transport to closest appropriate facility

Breech Delivery

- Hands off the breech. Allow neonate to deliver to the umbilicus.
- Consider carefully releasing the legs & arms as they are delivered, if needed
- Once hairline is visible AND/OR 3 minutes has passed since umbilicus was visualized, attempt Mauriceau Smellie-Veit maneuver
- If successful, delivery the neonate. If unsuccessful, transport to closest appropriate facility

Prolapsed Cord

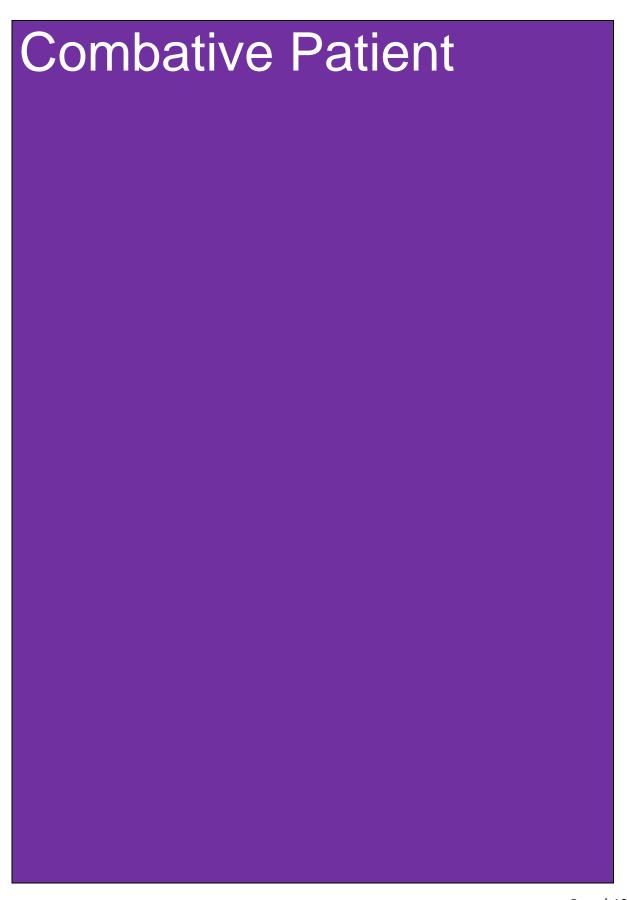
- Elevate fetal part to relieve pressure on the cord
- Assist patient to the knee-chest or exaggerated Sims position
- Insert gloved fingers/hand into the vagina and apply gentle manual digital pressure to the presenting part; this is maintained until transfer of care

Postpartum Hemorrhage - Pre-Placental Delivery

- If the placenta has not yet been delivered, consider:
 - Gentle cord traction while guarding the uterus
 - Bimanual compression if bleeding continues

Postpartum Hemorrhage - Post-Placental Delivery

- If the placenta has been delivered, consider:
 - o External uterine massage while guarding the uterus
 - o Encouraging patient to void bladder
 - o Bimanual compression if bleeding continues



Combative Patient

Indications

Combative **OR** violent **OR** agitated behaviour that requires sedation for patient safety.

Clinical Parameters

Midazolam Conditions (high risk medication)

- ≥ 18 years of age
- Allergy or sensitivity to Midazolam

Ketamine Conditions (high risk medication)

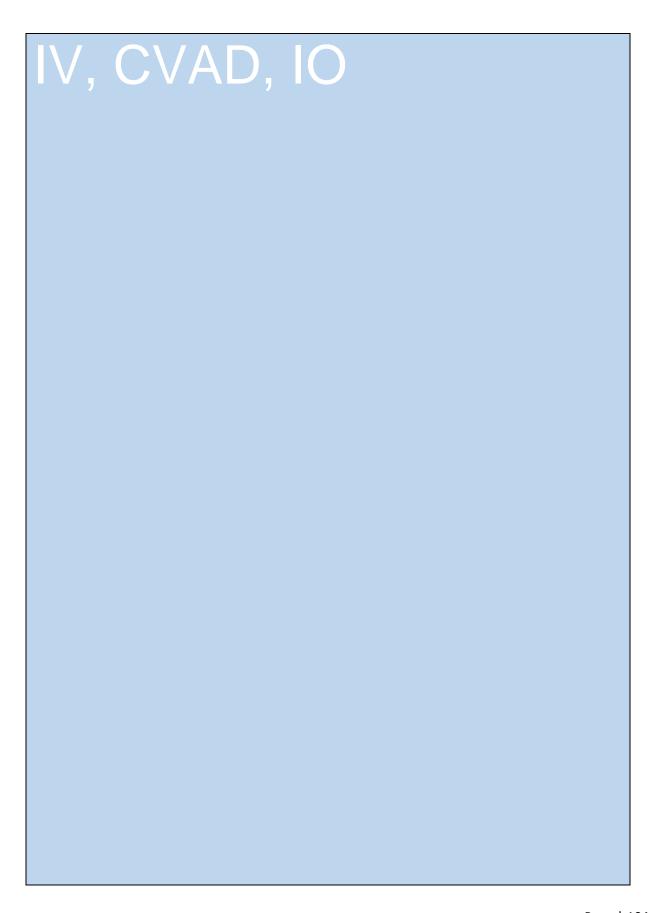
 For Ketamine, a patient suffering from suspected excited delirium or severe violent psychosis

Contraindications

Allergy or sensitivity to Ketamine

Midazolam					
Medication	Dose	Max Single Dose	Q	Max. cumulative dose	Max doses
Midazolam IV / IM / IN	Up to 0.1 mg/kg	5 mg	5 minutes	10 mg	N/A

Ketamine					
Medication	Age	Dose	Max Single Dose	Q	Max doses
Ketamine IM	≥ 18 years to < 65 years	5 mg/kg	500 mg	N/A	1 dose
Ketamine IM	≥ 65 years	3 mg/kg	300 mg	N/A	1 dose



Central Venous Access Device (CVAD)

Indications

Actual or potential need for intravenous medication **OR** fluid therapy **AND** Intravenous access is unobtainable **AND**

Patient is in cardiac arrest or pre-arrest state

Clinical Parameters	Contraindications
CVAD: Patient has a pre-existing, externally accessible central venous catheter in place	 Inability to confirm patency of CVAD Inability to flush or aspirate Injury or suspected fracture proximal to the access site Swelling of the involved limb Bleeding at the insertion site

Intravenous and Fluid Therapy

Indications

Actual or potential need for intravenous medication **OR** fluid therapy

Clinical Parameters

Cannulation:

• No fracture proximal to the access site

Bolus:

- For adults SBP <90 mmHg for pediatric patients (< 70 mmHg + (2 x age in years)
- Chest clear
- No signs of fluid overload-acute cardiogenic pulmonary edema

Note: Administer a fluid bolus until the patient is normotensive.

Dosing (≥ 12 years)							
Medication	Dose	Q	Repeat	Max doses			
NaCI TKVO	30 – 60 ml/hr	N/A	N/A	N/A			
NaCl Fluid Bolus IV	20 ml/kg	Reassess every 250 ml	N/A	2,000 ml			

Pediatric Doses (≥24 hours to <12 years)					
Medication	Initial Dose	Q	Repeat	Max doses	
NaCl TKVO	15 ml/hr	N/A	N/A	N/A	
NaCl Fluid Bolus IV	20 ml/kg	Reassess every 100 ml	N/A	2,000 ml	

A spot for your notes					

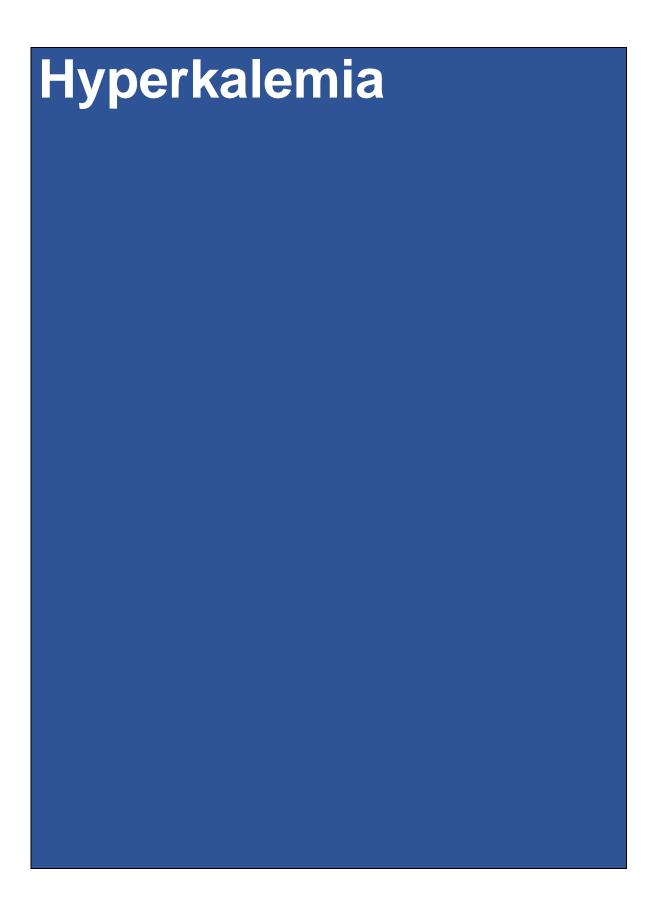
Pediatric / Adult Intraosseous

Indications

Actual or potential need for intravenous medication **OR** fluid therapy **AND** Intravenous access is unobtainable **AND**

Patient is in cardiac arrest or near-arrest state

Clinical Parameters	Vital Sign Parameters
IO Initiation:	
No fracture or crush injuries or known replacement / prosthesis proximal to the access site	N/A



Indications

Suspected hyperkalemia in high risk patient (dialysis; end-stage renal disease; other reason e.g. Crush injury)

AND

Cardiac arrest **OR** pre-arrest with 12 lead ECG changes suggestive of hyperkalemia

Clinical Parameters	Contraindications
N/A	Allergy or sensitivity to considered medication.

Consider 12 lead acquisition and interpretation

Adult Doses (≥ 18 years of age)

Medication	Initial Dose	Q	Repeat	Max doses
Calcium Gluconate IV / IO / CVAD	1 g (10 ml) over 2-3 minutes	5 min	Same as initial	2 doses*
Salbutamol MDI / NEB	1600 mcg 16 puffs OR 10 mg NEB	Immediate	Same as initial	2 doses

^{*} A 3rd dose of Calcium Gluconate may be administered after 30 minutes if the patient improved initially and then the symptoms meeting the indications recur or if ECG changes do not improve, or if they worsen.

Home Dialysis Emergency Disconnect

Indications

Patient connected to home dialysis AND

Requires transport to a receiving facility

Clinical Parameters

Patient must be unable to disconnect themselves **AND** no caregiver who is knowledgeable in how to disconnect is present.

Interventions

Disconnect

Notes:

In general, the instructions will be found with the machine.

Sequence:

- Ensure the patient side is clamped first, and
- then the machine side, and
- then the tubing can be disconnected between the clamps.

Hypoglycemia, Seizures and Opioids

Hypoglycemia

Indications

Suspected hypoglycemia

Clinical Parameters Vital Sign Parameters Altered LOA Hypoglycemia: Hypoglycemia • ≥ 2 yrs < 4.0 mmol/L < 2 yrs < 3.0 mmol/L IN Glucagon: >=4 years old **Dextrose:** • Allergy or sensitivity to Dextrose Glucagon: • No Pheochromocytoma No allergy or sensitivity to glucagon

In all cases Dextrose should be titrated to a level of awareness where the patient can safely consume complex carbohydrates.

All dose	es				
Med	ication	Max Single Dose	Q	Repeat	Max doses
D10W I∀	0.2 g/kg (2 ml/kg)	25 g (250 ml)	10 min	0.2 g/kg (2 ml/kg)	2 doses
D50W IV	0.5 g/kg (1 ml/kg)	25 g (50 ml)	10 min	0.5 g/kg (1 ml/kg)	2 doses

Pediatr	Pediatric doses (Age < 2 years old)					
Med	ication	Max Single Dose	Q	Repeat	Max doses	
D10W IV	0.2 g/kg (2 ml/kg)	5 g (50 ml)	10 min	0.2 g/kg (2 ml/kg)	2 doses	

All doses				
Medication	Initial Dose	Q	Repeat	Max doses
Glucagon IM	< 25 kg (55lbs) 0.5 mg	20 min	0.5 mg	2 doses
Glucagon IM	≥ 25 kg 1 mg	20 min	1 mg	2 doses

IN Glucagon				
Medication	Initial Dose	Q	Repeat	Max doses
Glucagon IN	3mg IN	20 min	3mg IN	2 doses

A Spot for your Notes:	

Hypoglycemia Treat and Discharge – <u>IF</u> AUTHORIZED

Indications

Patient has been treated appropriately under the Hypoglycemia Medical Directive

AND

An ACP, when authorized, **may discharge** a post hypoglycemic patient, according to the following:

Considerations for Treat and Discharge: All of the following criteria must be met: The patient is ≥ 18 AND < 65 years old,</p> ☐ The patient has a diagnosis of diabetes, ☐ The hypoglycemia is explained by insulin administration with inadequate oral intake, ☐ The hypoglycemia promptly responded to a single administration of Dextrose as per the Medical Directive and/or 1mg of Glucagon AND/OR 3MG IN glucagon and/or consumed oral glucose or other complex carbohydrates, ☐ This is a single isolated episode of symptomatic hypoglycemia in the past 24 hrs, □ The blood glucose is \geq 4.0 mmol/L after treatment, ☐ The patient has a return to their normal level of consciousness and is asymptomatic, □ A complete set of vital signs are within expected normal ranges, AND.... (continued on next page)

Considerations for Treat and Discharge: □ Not an intentional overdose, ☐ The hypoglycemia must not be related to alcohol / substance abuse or withdrawal. □ No seizure or reported history of seizure prior to paramedic treatment. □ Not on an oral hypoglycemic medication, ☐ Hypoglycemia is not considered to be related to an acute medical illness, ☐ The patient is not pregnant, In addition to the above criteria, if all of the following requirements have been met, the patient can be discharged by Paramedics: The patient has access to appropriate carbohydrates, A responsible adult agrees to remain with the patient for the next 4 hours. All of the patient or substitute decision makers questions were answered and a care plan was developed, The patient or substitute decision maker has been advised to follow up with their primary health care team or provider, Clear instructions to call 911 were provided should symptoms redevelop, Patient or substitute decision maker has the ability to access 911 should symptoms redevelop,

 Patient or substitute decision maker consents to the discharge.

Patch to BHP for consultation if you are unclear if the patient meets all of the discharge criteria.

Note: Patients can receive multiple forms of treatment for hypoglycemia (i.e., dextrose and glucagon before consuming carbohydrates). If the patient receives two doses of glucagon or two doses of dextrose, they should be transported to the hospital.

Opioid Toxicity

Indications

Altered LOC AND

Respiratory depression AND

Inability to adequately ventilate **OR** persistent need to ventilate **AND** Suspected opioid overdose

Clinical Parameters

- Respiratory rate < 10 breaths/min
- No allergy or sensitivity
- Age greater than or equal to 24 hours
- Patient must have an altered LOA

≥ 24 hours old				
Medication	Initial Dose	Q	Repeat	Max Doses
Naloxone IV	Up to 0.4 mg	5 min	Up to 0.4 mg	3 doses
Naloxone IM	0.4 mg	5 min	0.4 mg	3 doses
Naloxone SC	0.8 mg	5 min	0.8 mg	3 doses
Naloxone IN	2-4 mg	5 min	2-4 mg	3 doses

Midazolam

Indications

Active generalized motor seizure

Clinical Parameters

- Unresponsive
- No allergy or sensitivity

Adult Doses

Medication	Initial Dose	Q	Repeat	Max doses
Midazolam IV / IO	0.1 mg/kg	5 min	0.1 mg/kg	2 doses
inidazolarii iv / 10	Max 5 mg	0 111111	Max 5 mg	2 00000
Midazolam	0.2 mg/kg	5 min	0.2 mg/kg	2 doses
IM / IN / Buccal	Max 10 mg	3 111111	Max 10 mg	2 u0363

Pediatric Doses				
Medication	Initial Dose	Q	Repeat	Max
Midazolam IV / IO	0.1 mg/kg Max 5 mg	5 min	0.1 mg/kg Max 5 mg	2 doses
Midazolam IM / IN / Buccal	0.2 mg/kg Max 10 mg	5 min	0.2 mg/kg Max 10 mg	2 doses

Midazolam Dosing Reference (5 mg/mL)

IV/IO (0.1 mg/kg, max 5 mg = 1.0 mL)

Weight (kg)	IV/IO Dose (mg)	IV/IO Volume (mL)
12	1.2	0.24
14	1.4	0.28
16	1.6	0.32
18	1.8	0.36
20	2.0	0.4
22	2.2	0.44
24	2.4	0.48
26	2.6	0.52
28	2.8	0.56
30	3.0	0.6
32	3.2	0.64
34	3.4	0.68
36	3.6	0.72
38	3.8	0.76
40	4.0	0.8
42	4.2	0.84
44	4.4	0.88
46	4.6	0.92
48	4.8	0.96

Midazolam Dosing Reference (5 mg/mL)

IM/IN/Buccal (0.2 mg/kg, max 10 mg = 2.0 mL)

Weight (kg)	IM/IN/Buccal Dose (mg)	IM/IN/Buccal Volume (mL)
12	2.4	0.48
14	2.8	0.56
16	3.2	0.64
18	3.6	0.72
20	4.0	0.8
22	4.4	0.88
24	4.8	0.96
26	5.2	1.04
28	5.6	1.12
30	6.0	1.2
32	6.4	1.28
34	6.8	1.36
36	7.2	1.44
38	7.6	1.52
40	8.0	1.6
42	8.4	1.68
44	8.8	1.76
46	9.2	1.84
48	9.6	1.92

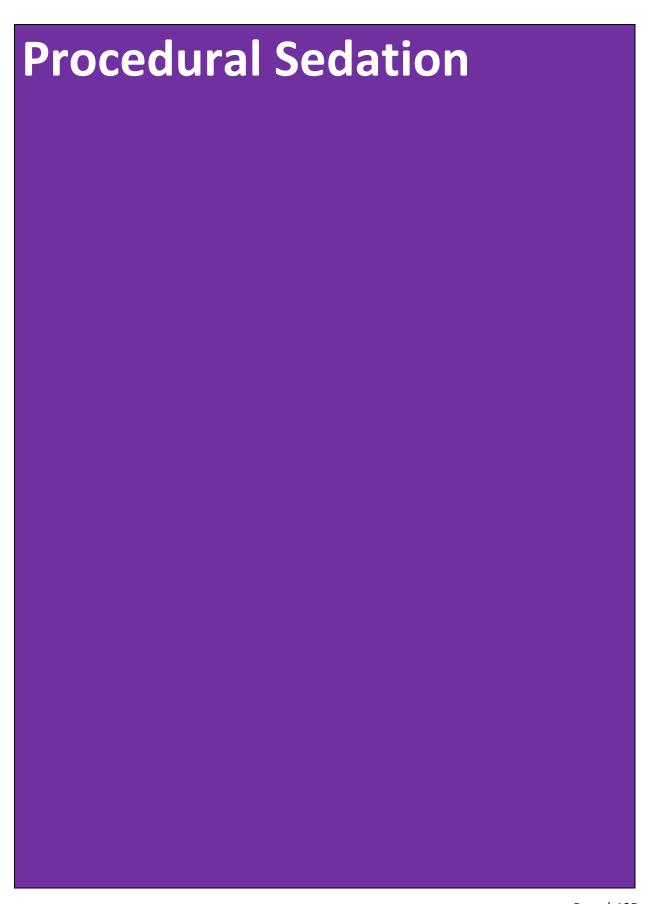
Seizure Treat and Discharge - <u>IF</u> <u>AUTHORIZED</u>

Indications

An ACP, when authorized, **may discharge** a post seizure patient, according to the following:

Considerations for Treat and Discharge
All of the following criteria must be met:
□ The patient is ≥ 18 AND < 65 years old,
□ Patient must have a history of epilepsy,
 The patient is taking their anticonvulsant medication as prescribed;
☐ The patient is taking their artifectival and in the past ☐ The patient must have only had a single seizure episode in the past
24 hours,
 The seizure pattern and duration must be similar to past seizures,
 The patient has returned to their normal level of consciousness,
☐ A complete set of vital signs including temperature are within
expected normal ranges,
expected fiorifical ranges,
AND
Considerations for Treat and Discharge
AND
☐ The seizure must not be related to hypoglycemia, alcohol or
substance abuse or withdrawal,
☐ The patient must not have received midazolam by paramedics,
☐ The patient did not injure themselves during seizure activity,
☐ The patient must not have a fever, preceding illness or recently
started a new medication,
☐ The patient is not pregnant,
In addition to the above criteria, if all of the following requirements have

been met, the patient can be discharged by Paramedics:
 A responsible adult agrees to remain with the patient for the next 4 hours,
 All of the patient or substitute decision makers questions were answered and a care plan was developed,
 The patient or substitute decision maker has been advised to follow up with their primary health care team or provider.
 Clear instructions to call 911 were provided should symptoms redevelop,
 Patient or substitute decision maker has the ability to access 911 should symptoms redevelop,
 Patient or substitute decision maker consents to the discharge.
Patch to BHP for consultation if you are unclear if the patient meets all of the discharge criteria.



Indications

Post-intubation **OR**

Transcutaneous pacing.

Clinical Parameters

- No allergies or sensitivity to any considered medication
- SBP ≥ 100 mmHg
- Respiratory rate ≥ 10 breaths/min (unless intubated)

Adult Doses (≥ 18 years of age)

Medication	Dose	Max Single Dose	Q	Max Cumulative Dose
FentaNYL IV / IO / CVAD / IN	25-75 mcg	75 mcg	5 min	150 mcg
Midazolam IV / IO / CVAD / IN	up to 0.1 mg/kg	5 mg	5 min	10 mg



Indications

Nausea and/or Vomiting

Clinical Parameters

Ondansetron

- No allergy or sensitivity to ondansetron
- No prolonged QT syndrome known to the patient
- No Apomorphine (Apokyn) use
- Unaltered

DimenhyDRINATE

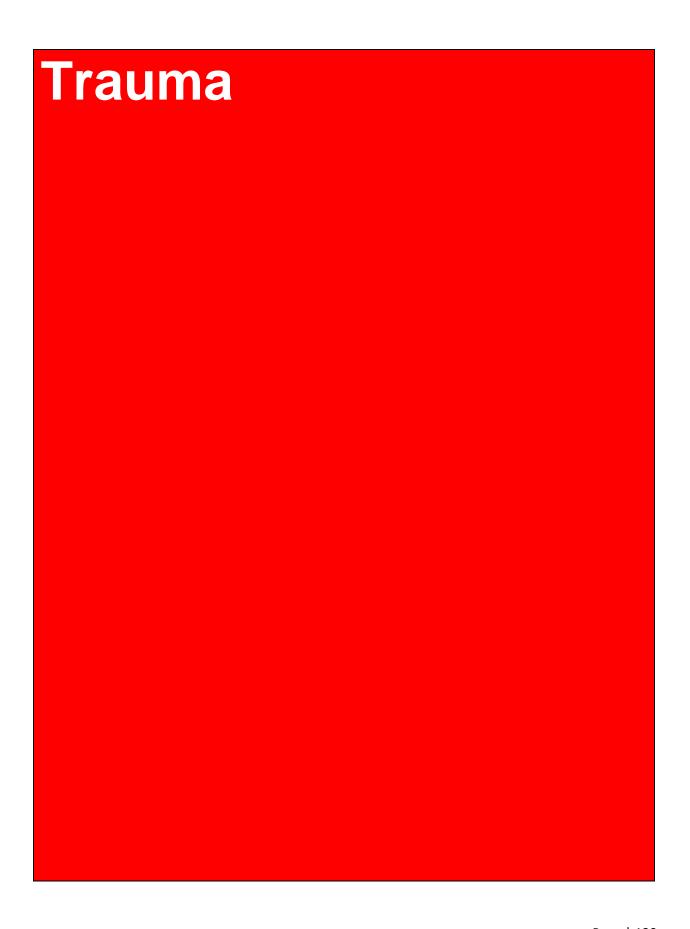
- No allergy of sensitivity to DimenhyDRINATE or other antihistamines
- No overdose on antihistamines, anticholinergics, or tricyclic antidepressants
- Cannot be co-administered with DiphenhydrAMINE
- Unaltered

**If ondansetron is unavailable, assess the risks and benefits to pts. ≥ 65 years old for dimenhyDRINATE administration. This may include an initial reduced dose of 25 mg

The max cumulative dose of DimenHYDRINATE is 50mg.

Prior to IV administration, dilute dimenhyDRINATE (concentration of 50 mg/1 ml) 1:9 with Normal Saline or D5W. If administered IM do not dilute. If a patient has received an antiemetic and has no relief of their nausea & vomiting symptoms after 30 minutes, the alternative antiemetic may be considered.

All doses				
Medication	Weight	Dose	Q	Max doses
DimenhyDRINATE IV/IM	≥ 50 kg	25 or 50 mg	N/A	2 doses
DimenhyDRINATE IV/IM	25 to 49 kg	25 mg	N/A	1 dose
Ondansetron PO/IV/IM	≥ 25 kg	4 mg	N/A	1 dose



Lateral Patellar Dislocation Medical Directive-Auxiliary

Indications

Indications

Patient with suspected lateral patellar dislocation.

Clinical Parameters

Conditions

Age: ≥10 years to ≤50 years

LOA: Unaltered

• **HR**: N/A

• RR: N/A

• **SBP**: N/A

Other: N/A

Contraindications

- High-velocity trauma
- Direct knee trauma

A Spot for your Notes:		

Tension Pneumothorax

Indications

Pre-arrest or VSA AND

Absent or severely diminished breath sounds on the affected side(s)

Clinical Parameters	Vital Sign Parameters
N/A	Hypotensive OR VSA

Notes:

Equipment Selection by Age and Size Patient Recommended Needle Size Group **Typical** 12 or 14 gauge, minimum 2.5 adult **inch** (6.4 cm) (≥13 years) MCL Child 14 or 16 gauge, AAL (<13 **1.5 inch** (3.8 years) cm) needle 2nd ICS **Neonate: Second** intercostal space midclavicular line and/or 4th intercostal anterior axillary 5th ICS site can be used with a 18g or 20g

Traumatic Hemorrhage Medical Directive-Auxiliary

Indications

Suspected hemorrhage (external or internal) due to trauma

AND

Hemodynamic instability

Clinical Parameters

TXA Indications:

- AGE ≥ 16 years
- LOA N/A
- HR N/A
- RR N/A
- SBP N/A
- Other HR ≥ 110 BPM or Hypotensive

TXA Contraindications:

- Known hypersensitivity to TXA
- Greater than 3 hours from the time of injury to drug administration
 OR unknown time of injury
- Isolated head injury

Adult Doses (≥ 16 years)				
Initial Dose	Max. Single Dose	Repeat	Max # of dose	
IV/IM 1000mg	1000mg IV route should be administered over 5 minutes to mitigate transient hypotension	N/A	1 dose	



Adult Nerve Agent- AUXILIARY CHEMICAL EXPOSURE

Indications

Exposure to a known or suspected nerve agent; AND

Signs and symptoms of a cholinergic crisis.

Clinical Parameters

Atropine, diazePAM, midazolam, and Pralidoxime

- AGE ≥ 18 years
- LOA N/A
- HR N/A
- RR N/A
- SBP N/A
- Other Suspected cholinergic crisis

Moderate Exposure

 Any one of the following: vomiting, diarrhea, bronchospasm or bronchial secretions, shortness of breath or any known liquid exposure

Severe Exposure

• Signs and Symptoms of a moderate exposure and any one of the following: decreased LOA, paralysis, seizure or apnea

Contraindications:

Atropine: Allergy or sensitivity to atropine

Pralidoxime: Allergy or sensitivity to Pralidoxime DiazePAM: Allergy or sensitivity to DiazePAM: Midazolam: Allergy or sensitivity to midazolam

Adult Dose (≥ 18 years of a	ge)			
Medication	Initial Dose	Q	Repeat	Max doses
Atropine IM Moderate Exposure	<mark>2mg</mark>	N/A	5 min.	n/a

Adult Dose (≥ 18 years of age)				
Medication	Initial Dose	Q	Repeat	Max doses
Atropine	6ma	N/A	5 min.	n/a
IM Severe Exposure	onig	IN/A	5 111111.	11/a

Adult Dose (≥ 18 years of a	ge)			
Medication	Initial Dose	Q	Repeat	Max doses
Pralidoxime IM Moderate Exposure	600mg	3	15 min.	3

Adult Dose (≥ 18 years of age)				
Medication	Initial Dose	Q	Repeat	Max doses
Pralidoxime	1800mg	2	60 min.	2
IM Severe Exposure				

Adult Dose (≥ 18 years of age)						
Medication	Initial Dose	Q	Repeat	Max doses		
diazePAM	10ma	N/A	NO	1		
IM Moderate Exposure	romg	14//1	, , ,	·		

Adult Dose (≥ 18 years of age)MedicationInitial DoseQRepeat dosesMidazolam
IM Moderate Exposure10mg25
minutes

Pediatric Nerve Agent- AUXILIARY CHEMICAL EXPOSURE

Indications

Exposure to a known or suspected nerve agent;

AND

Signs and symptoms of a cholinergic crisis.

Clinical Parameters

Atropine, diazePAM, midazolam, and Pralidoxime

- AGE < 18 years
- LOA N/A
- HR N/A
- RR N/A
- SBP N/A
- Other Suspected cholinergic crisis

Moderate Exposure

 Any one of the following: vomiting, diarrhea, bronchospasm or bronchial secretions, shortness of breath or any known liquid exposure

Severe Exposure

• Signs and Symptoms of a moderate exposure and any one of the following: decreased LOA, paralysis, seizure or apnea

Contraindications:

Atropine: Allergy or sensitivity to atropine

Pralidoxime: Allergy or sensitivity to Pralidoxime DiazePAM: Allergy or sensitivity to DiazePAM: Midazolam: Allergy or sensitivity to midazolam

Atropine

Weight Category	Exposure Severity	Route	Initial Dose	Max. Single Dose	Repeat	Max # of Dose
< 10 kg	Moderate/ Severe	IM	0.5 mg	0.5 mg	q5 min	Not specifie d
10 kg to < 40 kg	Moderate/ Severe	IM	1 mg	1 mg	q5 min	Not specifie d
≥ 40 kg	Moderate	IM	2 mg	2 mg	q5 min	Not specifie d
≥ 40 kg	Severe	IM	6 mg	6 mg	q5 min	Not specifie d

Pralidoxime

Weight Category	Exposure Severity	Route	Dose	Max. Single Dose	Dosing Interval	Max. # of Doses
< 40 kg	Moderate	IM	15 mg/kg	600 mg	15 min.	3
< 40 kg	Severe	IM	45 mg/kg	600 mg	60 min.	2
≥ 40 kg	Moderate	IM	600 mg	600 mg	15 min.	3
≥ 40 kg	Severe	IM	1800 mg	1800 mg	60 min.	2

Medication	Weight Category	Route	Dose	Max. Single Dose	Dosing Interval	Max. # of Doses
diazePAM	< 50 kg	IM	0.2 mg/kg	10 mg	N/A	1
diazePAM	≥ 50 kg	IM	10 mg	10 mg	N/A	1
midazolam (if not using diazePAM)	< 50 kg	IM	0.2 mg/kg	10 mg	5 min.	2
midazolam (if not using diazePAM)	≥ 50 kg	IM	10 mg	10 mg	5 min.	2

Cyanide Exposure- AUXILIARY CHEMICAL EXPOSURE

Indications

Suspected exposure to cyanide with signs and symptoms of poisoning

AND

Cardiac arrest; or

Altered level of awareness; OR

Hypotension

Clinical Parameters

No allergies or sensitivity to any medication considered

Adult Dose (≥ 18 years of age)

Medication	Initial Dose	Q	Repeat	Max doses
Hydroxocobalamin	5g over 15 –	N/A	N/A	1
IV/IO/CVAD	30 min	IN/A	IN/A	dose

Pediatric Doses

Medication	Initial Dose	Q	Repeat	Max doses
Hydroxocobalamin IV/IO/CVAD	70 mg/kg over 30 min Max single dose of 5 g	N/A	N/A	1 dose

Hydroxocobalamin Dosing Chart – Pediatric

Weight (kg)	Dose	Concentration	Volume
5	350mg/kg	25 mg/ml	14 ml
10	700mg	25 mg/ml	28 ml
15	1050mg	25 mg/ml	42 ml
20	1400mg	25 mg/ml	56 ml
25	1750mg	25 mg/ml	70 ml
30	2100mg	25 mg/ml	84 ml
35	2450mg	25 mg/ml	98 ml
40	2800	25 mg/ml	112 ml
≥41	5g	25 mg/ml	200ml

Notes:

Patch to BHP for authorization to proceed with the administration of hydroxocobalamin in cases of "suspected' cyanide toxicity.

A Spot for your Notes:	

Hydrofluoric (HF) Acid Exposure-AUXILIARY CHEMICAL EXPOSURE

Indications

Exposure to vapour and/or liquid Hydrofluoric acid (HF) **AND** Exhibits signs and symptoms of HF poisoning

Clinical Parameters

No allergy or sensitivity to any medication considered

All doses Initial Max Repeat Medication Q Dose doses **Calcium Gluconate** (10% solution) Inhalation exposure 100 mg N/A N/A 1 dose **NEB** Calcium Gluconate (2.5% gel) Skin exposure N/A N/A PRN N/A TOP **Anaesthetic** Eye Drops 2 10 min N/A gtts/eye gtts/eye TOP

Symptomatic Riot Agent Exposure Medical Directive – AUXILIARY CHEMICAL EXPOSURE

Indications

Known or suspected exposure to a riot agent with signs and symptoms of a riot agent exposure

Clinical Parameters

Topical Anaesthetic eye drops

Contraindications:

Allergy or sensitivity to local anaesthetics

All doses				
Medication	Initial Dose	Q	Repeat	Max doses
Anaesthetic Eye Drops TOP	2 gtts/eye	10 min	2 gtts/eye	N/A

A Spot for your Notes:	



Indications Headache (Special Events Only)

Uncomplicated headache conforming to the patient's usual pattern **AND** A mass gathering that could potentially strain the resources of the host community **AND** The special event directive has been authorized for use by the Medical Director for a specific mass gathering.

Clinical Parameters

- ≥ 18 years old
- Unaltered LOA
- No allergy or sensitivity to Acetaminophen
- No Acetaminophen in the last 4 hours
- No signs or symptoms of intoxication

Adult Doses (≥ 18 years of age)

Medication	Initial Dose	Q	Repeat	Max doses
Acetaminophen PO	960- 1000mg	N/A	N/A	1 dose

Minor Abrasion (Special Events Only)

Indications

Minor abrasions **AND** A mass gathering that could potentially strain the resources of the host community **AND** The special event directive has been authorized for use by the Medical Director for a specific mass gathering.

Clinical Parameters

- ≥ 18 years old
- Unaltered LOA
- No allergy or sensitivity to topical antibiotics

Adult Doses (≥ 18 years of age)

Medication	Initial Dose	Q	Repeat	Max doses
Topical Antibiotic	N/A	N/A	N/A	1 dose

Minor Allergic Reaction (Special Events Only)

Indications

Signs consistent with minor allergic reaction **AND** A mass gathering that could potentially strain the resources of the host community **AND** The special event directive has been authorized for use by the Medical Director for a specific mass gathering.

Clinical Parameters

- ≥ 18 years old
- Unaltered LOA
- SBP ≥ 100 mmHg (and other vital signs within normal limits)
- No allergy or sensitivity to DiphenhydrAMINE
- No antihistamine or sedative use in the previous 4 hours
- No signs or symptoms of a moderate to severe allergic reaction
- No signs or symptoms of intoxication
- No wheezing

Adult Doses (≥ 18 years of age)							
MedicationInitial DoseQRepeatMax doses							
DiphenhydrAMINE PO	50 mg	N/A	N/A	1 dose			

Musculoskeletal Pain (Special Events Only)

Indications

Signs consistent with minor allergic reaction **AND** A mass gathering that could potentially strain the resources of the host community **AND** The special event directive has been authorized for use by the Medical Director for a specific mass gathering.

Adult Doses (≥ 18 years of age)

Medication	Initial Dose	Q	Repeat	Max doses
Acetaminophen PO	960-1000mg mg	N/A	N/A	1 dose

Clinical Parameters

- ≥ 18 years old
- Unaltered LOA
- No allergy or sensitivity to Acetaminophen
- No Acetaminophen use in the previous 4 hours
- No signs or symptoms of intoxication

Notes:

The Special Event Medical Directives are in force when they have been preauthorized for use by the Medical Director.

Special Event: a preplanned gathering with potentially large numbers of people.

Consider release from care.

Advise patient that if the problem persists or worsens that they should seek further medical attention.

Palliative Care Medical **Directives**

Palliative Care - PAIN OR DYSPNEA

Indications

Patient registered in palliative care program, AND

Uncontrolled pain or dyspnea, **OR** Uncontrolled dyspnea with suspected bronchoconstriction

Clinical Parameters

Morphine:

- No Allergy
- ≥ 18 years old

Hydromorphone:

- No Allergy
- ≥ 18 years old

Salbutamol:

- No Allergy
- ≥ 18 years old
- Only for dyspnea with suspected bronchoconstriction

Medication	Dose	Max single dose	Q	Repeat	Max doses
Morphine SC / IV / CVAD	2-10 mg	10 mg	15 min	Same as initial	4 doses
Hydromorphone SC / IV / CVAD	0.5-2 mg	2 mg	15 min	Same as initial	4 doses
Salbutamol MDI	800 mcg (8 puffs)	800 mcg (8 puffs)	5-15 min	Same as initial	3 doses
Salbutamol NEB	5 mg	5 mg	5-15 min	Same as initial	3 doses

Notes:

If orders are available for the patient, either Morphine or Hydromorphone may be administered within the range specified above per the emergency orders. Any dose outside the range specified must be confirmed by a Base Hospital Physician prior to administration.

If there are no orders available or patients are opioid naive, the lower range should be used.

If the patient is already on a regular opiate, the same opiate should be used. If the patient is on a regular opioid regimen that does not include either morphine or Hydromorphone and does not have emergency orders available, paramedics should confirm with a base hospital physician prior to administering morphine or Hydromorphone.

Salbutamol should only be used in patients whose dyspnea is accompanied by wheezing or a history to bronchoconstriction.

Palliative Care - HALLUCINATIONS OR AGITATION

Indications

Patient registered in palliative care program

AND

Increasing agitation or suspected new or increased hallucinations

Clinical Parameters

Haloperidol:

- ≥ 18
- No allergy to haloperidol
- Does not have Parkinson's or Lewy Body Dementia
- Does not have Neuroleptic Malignant Syndrome

Midazolam

- ≥ 18
- No allergy to Midazolam

Adult doses

Medication	Dose	Max single dose	Q	Repeat	Max doses
Haloperidol SC / IV / CVAD	0.5-1 mg	1 mg	30 min	Same as initial	2 doses

Medication	Dose	Max single dose	Q	Repeat	Max doses
Midazolam SC / IV / CVAD	0.5-2 mg	2 mg	30 min	Same as initial	2 doses

Palliative Care - NAUSEA OR VOMITING

Indications

Patient registered in palliative care program

AND

Nausea and/or vomiting

Clinical Parameters

Haloperidol:

- ≥ 18 years old
- No allergy or sensitivity
- Does not have Parkinson's or Lewy Body Dementia
- Does not have Neuroleptic Malignant Syndrome

Ondansetron:

- ≥ 18 years old
- No allergy or sensitivity
- Haloperidol contraindicated

DimenhyDRINATE:

- ≥ 18 years old
- No allergy or sensitivity
- Haloperidol contraindicated
- No overdose on antihistamines, anticholinergics or tricyclic antidepressants

Medication	Dose	Max single dose	Q	Repeat	Max doses
Haloperidol SC / IV / CVAD	0.5-1 mg	1 mg	30 min	Same as initial	2 doses
Ondansetron PO / SC / IV / CVAD	4 mg	4 mg	N/A	N/A	1 dose
DimenhyDRINATE SC / IV / CVAD	25-50 mg	50 mg	N/A	N/A	1 dose

Palliative Care - TERMINAL CONGESTED BREATHING

Indications

Patient registered in palliative care program

AND

Congested / loud / rattling breathing in patients near the end of life

Clinical Parameters

Glycopyrrolate:

- ≥ 18 years old
- No allergy or sensitivity

Atropine

- ≥ 18 years old
- No allergy or sensitivity

Adult doses

Medication	Dose	Max single dose	Q	Repeat	Max
Glycopyrrolate SC / IV / CVAD	0.4 mg	0.4 mg	N/A	N/A	1 dose

Medication	Dose	Max single dose	Q	Repeat	Max
Atropine	0.4 mg	0.4 mg	N/A	N/A	1 dose
SC/IV/CVAD	J	3 <u>.</u>	. 47 .	,, .	. 4555

Palliative Care - TREAT AND REFER

Indications

Patient registered in palliative care program, **AND**Symptoms improved to patients/SDM satisfaction, **AND**After informed discussion patient/SDM preference to remain home

Clinical Parameters

- ≥ 18
- Valid DNR: registered in Paramedic Palliative Care Program
- No concerns of patient abuse or neglect
- Patient and SDM demonstrate decision making capacity based on the Aid to Capacity Evaluation Tool
- No uncontrolled or new seizures

Treat and Refer

Paramedics may treat patients according to this medical directive and, in collaboration with the patient / SDM, honour wishes to remain at home (treat and refer). Paramedics will notify the patients palliative care team.

ADDITIONAL NOTES:

ADDITIONAL NOTES:

ADDITIONAL NOTES: