

Harmonized

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Authorizing Prescriber(s)

Medical Director

Authorized to Whom

All Nurses, Registered Respiratory Therapists (RRT) and Physician Assistants (PA) who are employees of Lakeridge Health. The Health Care Professional (HCP) must review any related hospital policies and demonstrate competency supported by a Clinical Practice Leader (CPL) or delegate, and successfully pass an evaluation.

The content of the educational package will be approved by the Emergency Program Quality Council. In order to initiate the orthopaedic algorithm, nurses must complete the Canadian Triage and Acuity Scale (CTAS) training and nurses/PAs must complete supplementary orthopaedic education (i.e. Ottawa ankle rules, Ottawa knee rules etc.).

Co-Implementers

Medical Radiation Technologist (Radiography)

Phlebotomist/Med Lab Assistant

Nurse

RRT

Patient Description/Population

Any patient in an LH ED who meets procedure specific indications as per the order table.

Order and/or Procedure

List is in alphabetical, not sequential, order; any one or combinations of the order/procedures below may be performed. For any tests performed under authorization of this medical directive, results <u>must</u> be reviewed by the physician. Should a patient leave prior to being assessed by a physician or results received, the patient must remain active on the ED tracker until all results are received and reviewed by the physician. Any abnormal results will be managed using the identified discrepancy/call back procedure.

Lakeridge Health

Document Sponsor/Owner Group: (Emergency Department, Date Approved 22NOV2022)

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To access order and/or procedure click on <u>link</u> below:

Abdominal Pain Management- Adults

Analgesia for (Mild to Moderate) Pain- Adults

Analgesia for Pain- Paediatrics

Asthma Management- Paediatrics

Backboard Removal

Chest Pain/Cardiovascular- Adults

Electrical Injury

Eye Injury/Discomfort

Febrile Neutropenia- Early Detection for Cancer Patients

Fever Management- Adults

Fever Management- Paediatrics

Inhalational Therapy- Adults

Obstetrical Emergency

Oral Rehydration Therapy (ORT)- Paediatrics

Orthopaedic X-Rays

Renal Colic- Adults

Seizure- Adults

Seizure- Paediatrics

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Sepsis- Adults

Serum Coagulopathy

Substance Exposure/Abuse

Sucrose for Infant Pain

Topical Anaesthetic

Urine Sampling

Urinary Catheterization- Adults

Vaginal Bleeding- Adults

Controlled Act Being Delegated	Group(s) who require a delegation to perform acts within this medical directive.	Authorizer(s)/ Delegator(s)
 Administering a substance by injection or inhalation for the following: Administering fluid through a PVAD or CVAD Administration of: Ketorolac Oxygen Salbutamol Ipratropium Ondansetron 	Physician Assistants	ED physicians
 Performing a procedure on tissue below the dermis or below the surface of a mucous membrane for the following: IV insertion Venipuncture Capillary Blood glucose test 	Physician Assistants	ED physicians



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Putting an instrument, hand or finger:	Physician Assistants	ED physicians
i. beyond the opening of the urethra,		
ii. beyond the labia majora,		
iii. beyond the anal verge		
For Urinary catheterization and		
Administration of Acetaminophen PR		

Indications to the Implementation of the Directive

Any patients with procedure specific indications as listed in the order table.

Contraindications to the Implementation of the Directive

This medical directive must not be implemented in the following circumstances:

- HCP has not completed or maintained competency for the initiation of the Medical Directive
- Patient or SDM (Substitute decision maker) refuses to consent
- Procedure specific contraindications as listed in the order table
- Known allergies or sensitivities to medication.

Consent

The HCP implementing the medical directive must obtain consent if the patient is capable of providing it. In an emergency situation, if the patient is not capable of providing consent, the HCP may administer treatment without consent if, in his or her opinion, all of the following are true:

- the patient is incapable with respect to the treatment;
- the patient is experiencing severe suffering or is at risk of suffering serious bodily harm if the treatment is not administered promptly; and
- it is not reasonably possible to obtain consent or refusal on the person's behalf or the delay required to do so will prolong the suffering that the patient is experiencing or will put the patient at risk of suffering serious bodily harm.

Documentation Requirements

In addition to standard documentation practices, the HCP implementing this medical directive must document in the order section of the ED chart the following:



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- The procedure performed on the patient
- The name of the medical directive
- The name of the implementer
- Legible signature of implementer, including credentials (unless documenting electronically)
- Date and time (unless documenting electronically).

Review/Evaluation Process

Emergency Program Quality Council will review this document every 2 years.

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This table must **not** be used independently apart from the Medical Directive

Appendix A: Order Table Form

Order:	Indications:	Contraindications:	Notes:
 CBC, Na, K, Cl, CO₂, Urea, Creatinine, Random Glucose, AST, ALK, Bili, Albumin, ALT, Lipase, INR, Urinalysis NPO 	Patients with acute onset abdominal pain		
3. ECG	Pain above umbilicus		
4. Urine or Serum β HCG (depending on LH site)	Female of child bearing years		
5. Lactate	All patients 50 years of age and older		
6. Type and Screen	Suspected hemorrhage		
7. Urine C+S	Patient has signs and symptoms of a urinary tract infection		
 Initiate IV 0.9% sodium chloride at 30 mL/hr OR saline lock 	IV is required in the professional judgement of the authorized HCP		
 9. Ondansetron 8 mg PO once (PO includes ODT and soluble film) OR Ondansetron 4 mg IV once 	Nausea and vomiting		ODT- Oral disintegrating tablet

Abdominal Pain Management- Adults



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Analgesia for (Mild to Moderate) Pain- Adults

Order:	Indications:	Contraindications:	Notes:
Acetaminophen 650 mg PO	Patients with mild	Decreased level of consciousness, difficulty swallowing PO	
once with a sip of water	to moderate pain	medication	
OR	(less than 8 on	Acetaminophen:	
Ibuprofen 400 mg PO once	the 0 - 10 pain	Recent acetaminophen administration in the last 3 hours OR	
with a sip of water	scale, or as	more than 3 doses in the past 24 hours Ibuprofen OR	
OR	defined in Pain	Ketorolac:	
Ketorolac 15 mg IM once	Patient Care	Recent ibuprofen/ketorolac administration in the past 6	
	Standard)	hours OR more than 3 doses in the past 24 hours	
		Allergic manifestations precipitated by ASA or other	
	Ketorolac for	nonsteroidal anti-inflammatory agents	
	patients who	Pregnancy	
	cannot tolerate PO	History of cirrhosis, chronic liver disease, alcoholism,	
	meds	active peptic ulcer disease, gastrointestinal bleeding or	
		impaired renal function	



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Analgesia for Pain- Paediatrics

Order:	Indications:	Contraindications:	Notes:
Acetaminophen 15 mg/kg PO/PR once (maximum dose 650 mg) OR Ibuprofen 5 - 10 mg/kg PO once (maximum dose 400 mg)	Patients who are greater than 3 months old with clinical suspicion of pain or self/parent report of pain	Decreased level of consciousness Acetaminophen: Recent acetaminophen administration in the last 3 hours OR more than 5 acetaminophen doses in past 24 hour period History of cirrhosis or chronic liver disease Ibuprofen: Recent ibuprofen administration in the past 6 hours OR more than 3 doses in the past 24 hours Allergic manifestations precipitated by ASA or other nonsteroidal anti-inflammatory agents History of kidney injury or impaired renal function, any clinical bleeding or platelet disorders	Measure weight (kg) of child NOTIFY Physician STAT for child less than 3 months of age presenting with pain or temperature greater than or equal to 38°C



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Asthma Management- Paediatrics						
Order:	Indications:	Contraindications:	Notes:			
 Paediatric Respiratory Assessment Measure (PRAM) Score (Appendix B) NOTIFY Physician / RRT STAT if PRAM score is 4 or greater Administer oxygen via nasal prongs or mask if SpO2 less than or equal to 94% Salbutamol (Ventolin) 100 mcg/puff by metered dose inhaler (MDI) and spacer q 20 min x 3 based on the following dosing: 1 - 3 years: 4 puffs/dose 4 - 6 years: 6 puffs/dose Ipratropium (Atrovent) 20 mcg/puff by MDI and spacer q 20 min x 3 based on the following dosing: Less than 20 kg: 3 puffs/dose Kg or greater: 6 puffs/dose 	Paediatric patient (Age 1 - 17 years) with wheeze and/or cough AND asthma diagnosis and/or past history of wheeze AND presents with symptoms of asthma as assessed by the PRAM	Patient presents with history of acute or chronic condition other than asthma, including cardiac conditions. Patient is unable to cooperate with the procedure				

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Backboard Rei	moval
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Order:	Indications:	Contraindications:	Notes:
Remove backboard	Stable trauma patients who present on a backboard with or without neck pain Conscious and alert Hemodynamically stable Injury within the past 48 hours	Patient less than 18 years of age Major trauma (i.e. chest, head, fractured/deformed femur, suspected unstable pelvis fracture, penetrating trauma) Glasgow Coma Scale less than 15 Patient transferred from another hospital Any acute paralysis, decreased motor function or altered sensation (including burning) below the neck Vertebral disease (ankylosing spondylitis, rheumatoid arthritis, spinal stenosis or previous cervical surgery)	 Procedure to remove backboard: 1. Assemble appropriate team of at least 4 people to log roll patient 2. Maintain C-spine alignment throughout procedure 3. Remove straps and taping from board leaving C-spine collar in place (if applicable) 4. Log roll patient, remove backboard and keep patient supine on stretcher until assessed by a Physician 5. Assess patient for any NEW back, neck or abdominal pain after removal of backboard, and NOTIFY Physician immediately if noted 6. Provide a call bell for patient to ring for assistance 7. Inform Physician of patient's arrival requesting expeditious assessment



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Chest Pain/Cardiovascular for Adults

Order:	Indications:	Contraindications:	Notes:
1. 12 Lead ECG STAT (to be reviewed by Physician as per ED Practice Standards)	Patients with symptoms suggestive of cardiac ischemia or cardiovascular symptoms, at presentation to ED or during ED visit, such as: • Discomfort jaw to umbilicus • Upper limb discomfort without known injury • Chest trauma • Syncope/presyncope, vertigo/dizziness • Signs/symptoms of stroke • Shortness of breath	Contraindications:	Notes:
2. Administer oxygen via nasal	 Diaphoresis Palpitations/irregular heart beat etc. SpO2 less than 92% or SpO2 less than 88% 		
prongs or mask. 3. Continuous cardiac monitoring	in COPD patients Required in the professional judgement of the authorized HCP		
4. Initiate IV 0.9% sodium chloride at 30 mL/hr OR saline lock	IV is required in the professional judgement of the authorized HCP		
5. CBC, Na, K, Cl, CO ₂ , Urea, Creatinine, Glucose, Troponin, INR, PTT	Patients with acute onset chest pain		
6. Type and Screen	ECG elevation suggestive of STEMI		
 Urine or Serum β HCG (depending on LH site) 	If female of child bearing years	Patients obviously pregnant or in confirmed third trimester	



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8. Acetylsalicylic Acid (ASA) 160 mg PO chewed once	Conscious with intact gag reflex	History of bleeding peptic ulcer, NSAID induced gastritis OR a history of ASA precipitated asthma Decreased level of consciousness Any ASA within the last 24 hrs	
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Electrical Injury

Order:	Indicatio	ons:			Contraindications:	Notes:
12 Lead ECG (to be reviewed by Physician as per ED Practice Standards)	Patients injury	presenting	with	electrical		

Eye Injury/Discomfort

Order:	Indications:	Contraindications:	Notes:
1. Instill 1 drop of Proparacaine 0.5% or Tetracaine 0.5%	Eye pain caused by any of the following: foreign	Visible foreign body in eye	For chemical exposure/injury:
topical anesthetic in the affected eye(s)	body/trauma/injury, chemical splash, thermal injury, corneal	Penetrating eye injury	Consult Ontario Poison Centre and advise
Repeat q 5 - 10 min prn to a maximum of 5 doses 2. 0.9% sodium chloride flush to	abrasion Patient must be able to	Signs and symptoms of a	Physician of recommendations
irrigate eye(s) even if patient has flushed prior to arrival	cooperate in the performance of the procedure	perforation or ruptured globe	Do not initiate any orders that are contraindicated
3. Insert Morgan Lens	Required in the professional judgement of the authorized HCP		according to Poison Centre



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Febrile Neutropenia- Early Detection in Cancer Patients

Order:	Indications:	Contraindications:	Notes:
1. CBC, Na, K, Cl, CO ₂ , Urea,	Patients with a cancer diagnosis,		
Creatinine, Lactic Acid,	who have received treatment		
Phosphate, ALT, ALP, Bili, Ca,	within the last 21 days, AND		
Mg	present with a measured or self		
2. Blood C+S (2 sets) from	reported temperature above		
separate venipuncture sites if	38.3°C at any time or above		
no central venous catheter	38.0°C for more than an hour		
(CVAD) is present.			
If CVAD present, one from			
each lumen of CVAD AND			
one set from peripheral site			
3. Urinalysis and C+S			
4. CXR PA + Lateral			
Reason: Febrile Neutropenia			



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Fever Management- Adults

Order:	Indications:	Contraindications:	Notes:
Acetaminophen 650 mg PO/PR once OR Ibuprofen 400mg PO once	Patients with temperature greater than or equal to 38°C	Decreased level of consciousness, difficulty swallowing PO medication Acetaminophen: Recent acetaminophen administration in the last 3 hours OR more than 3 doses in the past 24 hours Ibuprofen: Recent ibuprofen administration in the past 6 hours OR more than 3	Repeat and document temperature one hour after administration of
		doses in the past 24 hours Allergic manifestations precipitated by ASA or other non-steroidal anti- inflammatory agents Pregnancy History of cirrhosis, chronic liver disease, alcoholism, active peptic ulcer disease, gastrointestinal bleeding or impaired renal function	medication



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Fever	Management- Paediatrics
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Order:	Indications:	Contraindications:	Notes:
Order: Acetaminophen 15 mg/kg PO/PR once (maximum dose 650mg) OR Ibuprofen 5 - 10 mg/kg PO once (maximum dose 400 mg)	Indications: Patients who are greater than or equal to 3 months old with a temperature of greater than or	Contraindications: Decreased level of consciousness Acetaminophen: Recent acetaminophen administration in the last 3 hours OR more than 5 acetaminophen doses in past 24 hour period History of cirrhosis or chronic liver disease Ibuprofen : Recent ibuprofen administration in the past 6 hours OR more than 3 doses in the past 24 hours Allergic manifestations precipitated by ASA or other nonsteroidal anti-inflammatory agents	Notes: NOTIFY Physician STAT for child less than 3 months of age presenting with temperature greater than or equal to 38°C Reassess temperature 30
ing)	equal to 38°C	History of kidney injury or impaired renal function, any clinical bleeding or platelet disorders	minutes after administration of medication



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Inhalational Therapy- Adults				
Order:	Indications:	Contraindications:	Notes:	
 Administer oxygen via nasal prongs or mask if SpO2 less than or equal to 92% OR SpO2 less than or equal to 88% in COPD patients Salbutamol (Ventolin) 100 mcg/puff by metered dose inhaler (MDI) and spacer 4 - 8 puffs q 20 min x 3 doses Ipratropium (Atrovent) 20 mcg/puff by MDI and spacer 4 - 8 puffs q 20 mins x 3 doses 	 Patients presenting with SOB <u>AND</u> a history of Asthma or Chronic Obstructive Pulmonary Disease (COPD) with one or more of the following: Cough Presence of respiratory distress, wheeze, tightness or decreased breath sounds during chest auscultation Severe respiratory distress 	No previous history of Asthma or COPD Decreased level of consciousness	Notify Physician/RRT STAT if patient has change in initial presentation such as: decreased LOC, diaphoretic, cyanotic, initial tachycardia, difficulty speaking, agitated, no relief with B-agonist, SpO2 less than or equal to 88% on supplementary oxygen	

Obstetrical Emergency

Order:	Indications:	Contraindications:	Notes:
Re-direct to: New Life Centre (LHPP) Birthing Suite (LHO) Labour and Delivery (LHAP)	Pregnant patient over 20 weeks gestation presenting with a pregnancy related concern (abdominal cramping, abdominal pain,	Respiratory distress, hemodynamically unstable, imminent delivery, gestation less than 20 weeks, non- pregnancy related concerns	
****Does not apply at LHB****	backache, vaginal leaking of fluid, decreased fetal movement, vaginal bleeding, headache, etc.)	(trauma, laceration, injury, etc.)	



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Oral Rehydration Therapy (ORT) - Paediatrics

Order:	Indications:	Contraindications:	Notes:
1. 50 mL to 100 mL oral rehydration fluid no	Paediatric patient who presents with c/o vomiting	Patient appears lethargic, signs of altered perfusion,	Measure weight (kg) of child
more than 5 mL every 1	and/or diarrhea (obtain	bilious or bloody	NOTIFY Physician if ORT is
- 2 minutes once	history of oral intake and stools) AND have signs of	vomiting, and/or child has vomiting alone (no	started but patient is unable to tolerate and/or increase
Use small sips of Pedialyte,	mild or moderate	diarrhea) with signs	their oral intake
Enfalyte, Gastrolyte, frozen	dehydration	associated with	
Pediapops or other sodium		neurologic or	NOTIFY Physician STAT if
based oral rehydration fluid by age appropriate method		toxicological etiology	deterioration in condition is observed
(feeding cup, medication cup,		Abdominal pain	
syringe or regular cup)			
2. Ondansetron 4 mg PO once	For paediatric patients 4	Presenting or history of	
(PO includes ODT and soluble film)	years and older with nausea and/or vomiting	arrhythmia, cardiac defect	
		Ondansetron dose given in	
		past 8 hours	



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Order:	Indications:	Contraindications:	Notes:
ALL orthopaedic X-rays	Patients 6 years and older with a history of	Under 6 years of age	Check colour
listed below	significant injury or trauma		sensation and
		Open fracture	movement
1. NPO	Patients must be conscious and alert	(compromised skin integrity)	(CSM)
2. Apply ice			and distal pulses
3. Immobilize		Neurovascular	on assessment
		compromise (CSM deficit)	and after
		or diminished sensation	application of
		due to a neurological	any splints/
		deficit (e.g. CVA, altered level of	immobilization
		consciousness, etc.)	
		Major trauma	
		Pregnant or suspected	
		pregnant patient	
		Suspected intoxication or	
		has distracting injuries and	
		is unable to follow direction,	
		maintain motor control, or is	
		un-cooperative	
		Head injuries or multiple	
		painful injuries	

Orthopaedic X-ray(s)



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Contraindications: Notes: Order: Indications: Any of the above Ankle and/or foot X-Pain suggestive of fractured ankle or foot which may include Patient ray as indicated by deformity, and/or swelling in affected area, impaired range of listed should not examination according motion and bony tenderness contraindications ambulate on to the Ottawa Ankle affected Bony tenderness or inability to weight bear must be limb Rules established according to Ottawa Ankle Rules (Appendix C) Clavicle X-ray Pain suggestive of a fractured clavicle which may include Any of the above deformity, and/or swelling in affected area, impaired range listed of motion and bony tenderness contraindications Forearm (radius/ulna) X-Pain present in the forearm (radius and ulna) suggestive of Any of the above a fractured forearm which may include deformity, and/or listed ray swelling in affected area, impaired range of motion and bony contraindications tenderness Hand and/or Finger Pain suggestive of a fractured hand or finger which may Any of the above X-rav include obvious displacement/deformity of metacarpal listed bones, metacarpophalangeal (MCP) joints and contraindications phalanges Pain suggestive of a fractured hip which may include Hip and Pelvis X-ray Any of the above Patient the inability to weight bear, the affected leg shortened or should be listed externally rotated contraindications placed on DO NOT apply internal/external rotation, flexion and a stretcher adduction of affected limb during examination Humerus X-ray Pain suggestive of a fractured humerus which may include Any of the above

deformity, and/or swelling in affected area, impaired range of

motion and bony tenderness

Orthopaedic X-ray(s) (Continued)

listed

contraindications



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Orthopaedic X-ray(s) (Continued)

Order:	Indications:	Contraindications:	Notes:
Knee X-ray as indicated by examination according to the Ottawa Knee Rules (Appendix D)	Pain suggestive of fractured knee which may include deformity, and/or swelling in affected area, impaired range of motion and bony tenderness	Any of the above listed contraindications	Patient should not ambulate on affected limb
Tibia/fibula_X-ray	Pain suggestive of a fractured tibia/fibula which may include deformity, and/or swelling in affected area, impaired range of motion and bony tenderness	Any of the above listed contraindications	Patient should not ambulate on affected limb
<u>Wrist</u> X-ray	Pain present over the distal radius and ulna and/or carpal bones suggestive of a fractured wrist which may include deformity, and/or swelling in affected area, impaired range of motion and bony tenderness	Any of the above listed contraindications	
ADD <u>scaphoid views to</u> wrist x-ray	If tenderness is elicited over the anatomical "snuff box" or over the scaphoid tubercle	Any of the above listed contraindications	



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Order:	Indications:	Contraindications:	Notes:
1. NPO	Adult patients who present	Pregnant patient	
2. Urinalysis	with symptoms indicative		
 Ketorolac 10 mg PO once OR Ketorolac 15 mg IM once 	of renal colic and who are exhibiting significant	Decreased level of consciousness	
OR	distress	Ketorolac:	
Ketorolac 15 mg IV once		Recent ketorolac administration in the past 6	
6	Intact gag reflex for PO	hours OR more than 3 doses in the past 24	
	medications	hours	
4. Ondansetron 8 mg PO once (PO	Nausea and/or vomiting	Allergic manifestations precipitated by ASA or	
includes ODT and soluble film)		other non-steroidal anti-inflammatory agents	
OR		listen of Ol distance/black mantie when	
Ondansetron 4 mg IV once		History of GI distress/bleed, peptic ulcer	
5. Initiate IV 0.9% sodium chloride	IV is required in the	disease, a history of renal disease other than	
at 30 mL/hr OR saline lock	professional judgement of the authorized HCP	renal colic, liver disease or congestive heart failure	

Renal Colic- Adults

Seizure- Adults

Order:	Indications:	Contraindications:	Notes:
1. Capillary Blood Glucose	Patients with an active tonic-clonic seizure		Ensure patient has a patent airway, adequate respirations
2. Administer oxygen via nasal prongs or mask.	SpO2 less than or equal to 92%		and monitor for aspiration
3. Continuous cardiac and SpO2 monitoring	Required in the professional judgement of the authorized HCP]	Notify RRT if airway support required



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Seizure- Paediatric

Order:	Indications:	Contraindications:	Notes:
 Capillary Blood Glucose Continuous cardiac and SpO2 monitoring 	Paediatric patients with an active tonic-clonic seizure		Actual weight OR Estimate patient's weight
 Administer oxygen via nasal prongs or mask 	SpO2 less than or equal to 94%		based on Broselow tape measurement
4. Initiate saline lock	IV is required in the professional judgement of the authorized HCP		Ensure patient has a patent airway, adequate respirations and monitor for aspiration
			Notify RRT if airway support required



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Order:	Indications:	Contraindications:	Notes:
 CBC, Na, K, Cl, CO₂, Urea, Creatinine, Random Glucose, Ca, Mg, AST, ALT, ALP, Bili, Lactic Acid, Blood C+S (2 sets), Phosphate, Albumin, Lipase, Troponin, INR/PTT, Venous Blood Gas Urine or Serum β HCG if female of child bearing years (depending on LH site) Urine C+S and Urinalysis 12 Lead ECG (to be reviewed by Physician as per ED Practice Standards) 	 Documented, or strong clinical suspicion for sepsis Symptoms including but not limited to two or more of the following: Temperature of greater than 38°C or less than 36°C HR of greater than 90 beats/min RR of greater than 20/min SBP of less than or equal to 90 mmHg or a mean of less than 65 mmHg Chills/rigors or headache with neck stiffness Alterations in patient behaviour (especially in elderly) 		NOTIFY Physician STAT if systolic BP less than 90 mmHg
 5. Administer oxygen via nasal prongs or mask. 6. Initiate IV Ringer's Lactate at 30 mL/hr OR saline lock 7. Ringer's Lactate 500 mL fluid bolus over 15 minutes 	SpO2 less than or equal to 92% or SpO2 less than or equal to 88% in COPD patients IV is required in the professional judgement of the authorized HCP Patient is hypotensive with systolic BP less than 90 mmHg	If patient has history of congestive heart failure, or has signs and symptoms of congestive heart failure	

Sepsis- Adults



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Serum Coagulopathy

Order:	Indications:	Contraindications:	Notes:
INR/PTT	If on anticoagulant, symptoms of stroke/TIA		
	and/or potential hemodynamic instability		

Order:	Indications:	Contraindications:	Notes:
 Consult Ontario Poison Centre CBC, Na, K, Cl, CO₂, Urea, Creatinine, Glucose, AST, ALP, Bili, Albumin, ALT, Lipase, INR/PTT, Venous Blood Gas, Osmolality, Drug Screen (ASA, Blood Alcohol Level (ETOH), Acetaminophen) Continuous cardiac monitoring 12 Lead ECG (to be reviewed by Physician as per ED Practice Standards) Capillary Blood Glucose 	 Patient with actual or suspected drug overdose/ingestion with one or more of the following: Reported ingestion Alterations in mood, behaviour and/or motor function suggestive of intoxication Alteration in level of consciousness (LOC) 		NOTIFY Physician STAT if patient has: decreased LOC, diaphoretic, cyanotic, initial tachycardia, difficulty
 Administer oxygen via nasal prongs or mask 	SpO2 less than or equal to 92% or SpO2 less than or equal to 88% in COPD patients		speaking, agitated
7. Initiate IV 0.9% sodium chloride at 30 mL/hr OR saline lock	IV is required in the professional judgement of the authorized RHCP/PA		

Cubatanaa Eynaaura/Abuaa



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Sucrose for Infant Pain

Order:	Indications:	Contraindications:	Notes:
2 mL 24% oral sucrose	For infants 37 weeks	Decreased level of consciousness	
solution once placed on the	gestational age up to 3	Critically ill	
tongue or buccal surface or	months of life; 2 minutes prior		
dip pacifier in sucrose	to painful procedure (e.g.	NPO	
solution and allow infant to	blood sampling, IV,		
suck	immunization, etc.)	Brovious hypoglygomia or reasiving insulin	
		Previous hypoglycemia or receiving insulin infusions	
		History of:	
		 asphyxia or difficulty swallowing 	
		necrotizing enterocolitis (NEC)	

Topical Anesthetic

Order:	Indications:	Contraindications:	Notes:
Apply 3 - 10 mL of LET (lidocaine/ epinephrine/ tetracaine) solution on a cotton ball and apply to non- intact skin for 25 - 30 minutes	For use on simple lacerations requiring suturing	Lacerations to mucous membranes or peripheral extremities (i.e. digits, nose, ears, penis) or sign of injury to underlying structures Hypersensitivity to lidocaine, epinephrine, tetracaine or metabisulfite	



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Order:	Indications:	Contraindications:	Notes:
Urinalysis	Specific complaints of flank pain, abdominal pain, pelvic pain or discomfort, genitourinary symptoms and vaginal bleeding		
Urine C+S	Paediatric patients 0-17 with symptoms of urinary tract infection (UTI)		
Urine β HCG (depending on LH site)	Female of child bearing years (9 – 55 years)	Patients obviously pregnant or in confirmed third trimester	
		Previous hysterectomy	

Urinary Catheterization- Adults

Urine Sampling

Order:	Indications:	Contraindications:	Notes:
1. Insert a 14 - 18 French (Fr) Urinary Catheter (or consider a 20 - 22 Fr	Suspected urinary retention	Resistance if encountered	
three way Urinary Catheter for suspected blood clot retention) 2. Use Lidocaine 2% (200 mg/10 mL)	Bladder scan indicates greater than 400 mL post void residual urine	Urethral trauma or known structural abnormality	
jelly for male patients approximately 5 minutes prior to insertion	Unconscious or multiple trauma (but no blood in urethral meatus or signs of GU trauma)		
Monitor output q4h and PRN			



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Order:	Indications:	Contraindications:	Notes:
 CBC, Na, K, Cl, CO₂, Urea, Creatinine, Random Glucose, Type and Screen, INR, PTT, Urine or Serum β HCG (depending on LH site) Urinalysis 	Adults with vaginal bleeding		
 Administer oxygen via nasal prongs or mask 	SpO2 less than or equal to 92% or SpO2 less than or equal to 88% in COPD patients		
4. Initiate IV 0.9% sodium chloride at 30 mL/hr OR saline lock	IV is required in the professional judgement of the authorized HCP		

Vaginal Bleeding- Adults

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Appendix B: PRAM Scoring Table

Criterions	Description	1	Score
	≥ 95%		0
O ₂ saturation	92-94%		1
	< 92%		2
Construction March	Absent		0
Suprasternal retraction	Present		2
	Absent		0
Scalene muscle contraction	Present		2
	Normal		0
61	↓ at the base		1
Air entry *	\downarrow at the apex and the base		2
	Minimal or	3	
	Absent		0
	Expiratory only		1
Wheezing §	Inspiratory (± expiratory)		2
	Audible without stethoscope or silent chest (minimal or no air entry)		3
		PRAM score : (max. 12)	
Score	0-3 4-7 8-1		
Severity	Mild	Moderate	Severe

PRAM scoring table

* In case of asymmetry, the most severely affected (apex-base) lung field (right or left, anterior or posterior) will determine the rating of the criterion.

§ In case of asymmetry, the two most severely affected auscultation zones, irrespectively of their location (RUL, RML, RLL, LUL, LLL), will determine the rating of the criterion.

This tool is available on the following website : www.childasthmatools.umontreal.ca

Related references:

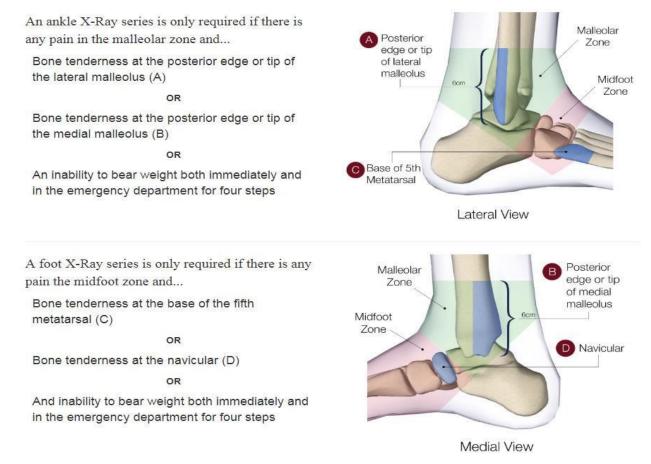
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Appendix C: Ottawa Ankle Rule



http://www.theottawarules.ca/ankle_rules



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Appendix D: Ottawa Knee Rule

A knee X-Ray series is only required for knee injury patients with any of these findings:

Age 55 or older

OR

Isolated tenderness of the patella No bone tenderness of knee other than patella

OR

Tenderness of the head of the fibula

OR

Cannot flex to 90 degrees

OR

Unable to bear weight both immediately and in the emergency room department for 4 steps Unable to transfer weight twice onto each lower limb regardless of limping

http://www.theottawarules.ca/knee_rules

