2020 COG Summary of Updates

All

- PL1 < Reformatting and general edits that did not change content. Specific content changes are listed below.
 - Removed "if available" when referring to ETCO2 and 12-lead ECG equipment.

Universal Patient Care

Added 10 Cardinal Questions of HPI to S/S. Added CRM to all providers.

Modified O2 admin to SpO2 reading & as indicated

PL1 < Refusal, Lift Assist, and Capacity Checklist is removed and will be a standalone checklist document, which is then referenced in this COG.

Transport Decision Process updated to include PL6 in addition to PL5, and moved to Clinical Standard.

... "and monitor" EtCO2 ...

PL2 ≤ Exception to Transport Decision Process regarding single dose of IN narcotic for pain control for injuries not to the head/chest/abdomen, clarified to ... "non-IV narcotic"...

Airway Management & Ventilation

Relocated from Pearls to Clinical Procedures: Gastric Tube Insertion, Needle Cricothyrotomy, Surgical Cricothyrotomy, Tracheostomy Tube

- PL1 ≤ Change/Replacement. Relocated from Pearls to Checklist, Airway Management for RSI.
- PL6 < Added Use Airway Management Checklist for All RSI

Allergic Reaction

PL2 < Added monitor ETCO₂

Altered Mental Status

- PL1 ≤ Added under if BGL < 50 ... Consider turning off insulin pump if present using Insulin Pump Clinical Procedure Added monitor ETCO₂
- PL2 < Moved Cincinnati Pre-hospital Stroke Screen from Pearls to Checklist Deleted insulin pump.

Behavioral & Violent Excited Delirium

Added to use Restraint Checklist when using restraints

- PL1
 Moved Domestic Violence or Abuse from Pearls to Differential

 Moved Restraints to Clinical Procedure & Restraint Checklist to Checklists
- PL3 < Added, "preferred cold if excited delirium" to fluid therapy
- Clarified indications for midazolam (uncontrolled anxiety), haloperidol
- PL5 ≤ (antipsychotic), and ketamine (excited delirium, violent, or combative)

Burns

- PL1 < Added stridor to respiratory signs and symptoms
- PL2 < Added nebulized epinephrine if airway burn
- PL3 \leq Replaced Parkland Formula with Rules of 10 to calculate 1st hour mL for Adult with table.

Added weight and age based pediatric criteria for fluid administration with tables.

Carbon Monoxide

PL2 < Added to monitor ETCO2

Cardiac related COGs

Split bundled COGs into specific Cardiac: abc COGs
Added SBP and MAP qualifications for Isotonic solutions
Added EtCO2 application

- PL1 ≤ STEMI Alert Criteria moved to Clinical Standard Rapid 12-lead Criteria moved to Check Lists Moved 12-lead ECG Placement to Clinical Procedure Pediatric and Infant Pit Crew CPR moved to Clinical Procedure LVAD Moved to Clinical Standard
- PL5 \leq Added Ketamine, in addition to Midazolam, to Rx for sedation for related procedures.
- PL6 < Added Simple Thoracostomy to Treatable Causes with Pulse

Cardiac Arrest COGs

- Separated each specific type of cardiac arrest into a standalone COG
 - 1. Pulseless Vtach & Vfib
 - 2. Asystole & PEA
 - 3. ROSC and Induced Hypothermia
- Created separate COG for Cardiac Arrest: Treatable Causes
- Created Clinical Standard for Cardiac Arrest Documentation

Moved Pit Crew CPR to Clinical Procedure

Moved Cardiac Arrest Checklist to Checklists

PL1 ≤ Move Post Resuscitation Checklist to Checklists Moved Medical & Trauma Arrest Termination of Resuscitation Checklist to Checklists Moved Double Sequential to Clinical Procedure Moved Criteria for Death or Withhold Resuscitation to Clinical Standards Moved DNR/Advance Directives to Clinical Standard

> Moved Discontinuation of Prehospital Resuscitation to Clinical Standard Moved Crime Scene to Clinical Standard

Removed LUCAS Device

- PL 4 ≤ ROSC & Induced Hypothermia: Added total mL reference table for cold isotonic crystalloid
- PL5 < Asystole & PEA added Perform Simple Thoracostomy for the asthmatic patient in arrest

Crush Injury

Moved from Pearls to Clinical Management Options:

- PL2 ≤ "Nebulized albuterol or saline PRN for patients with dust concentrations in airway."
- $PL5 \leq$ Added Ketamine for pain in addition to Fentanyl.

Cyanide

PL2 < Added monitor EtCO2 as soon as it is practical

Eye Injury/Complaint

Added to complete initial and repeat respiratory assessment for chemical/burn

PL1 < injuries

PL 3 < Moved Eye Irrigation to Clinical Procedures

Fever and Infection Control

Hypertension

 $PL1 \leq COG REMOVED$

IV Access

 $PL 1 \leq$ Moved to Clinical Procedure

Obstetrical Emergencies

Separated into three COGs:

1. Obstetrical Emergency

- 2. Obstetrical Labor and Childbirth
- 3. Obstetrical Newborn Care
- Moved Delivery and Complications to Clinical Procedures Moved APGAR to Checklist Removed Umbilical Vein Catherization

Overdose

PL1 <

PL2 < Added, EtCO₂ application and monitoring

Pain Management

- PL 1 < Moved Pain Assessment and Documentation to CP
- PL2 < Added Acetaminophen and Ibuprofen for Adult PO

Patient Referrals

PL1 < Moved to Clinical Standards

Pulmonary Edema

PL6 < Added RSI

Respiratory Distress

Added Advance airway management as needed;

Added Severe bronchospasm refractory to other medications, Ketamine;

PL5 ≤ Moved from pearls to management: Ultrasound pleural cavity if pneumo/hemothorax is suspected.

Added Rapid sequence induction as needed to secure patent airway for

- PL6 <u><</u> oxygenation and ventilation.
 - Created RSI Clinical Procedure.

Seizure

Moved from Pearls to Management Options:

- For any seizure in a pregnant or recently post-partum patient, consider eclampsia and consult the OB Emergencies COGs
- PL1 ≤
 Examine mental status, HEENT, heart, lungs, extremities, and neuro

Moved Vagus Nerve Stimulator to Clinical Procedure

Sepsis and Septic Shock

- PL1 < Moved from Pearls to management options, "Treat wheezing, hypoxia,
- dyspnea, and pain as appropriate per COGs"
- PL2 < Moved acetaminophen from > PL3
- SMR
- PL1 < Moved to Clinical Procedures & Created Checklist

Stroke

- Moved Stroke Criterion to Clinical Standard
- PL1 ≤ Moved Cincinnati Pre-hospital Stroke Screen to Clinical Procedure Moved Stroke Checklist to Checklists

Trauma General

PL1 <u><</u>	Created CP for Caring for Amputated Part
	Moved Triage to Clinical Procedure and Checklist
PL2 <u><</u>	Added - Acetaminophen or Ibuprofen for musculoskeletal and/or joint pain/injury Created SMR Checklist and added to SMR Clinical Procedure.
PL3 <u><</u>	Removed Ketorolac
PL5 <u><</u>	Moved Ultrasound from Pearls to Management Options
	Created clinical procedure and checklist for simple thoracostomies
PL6 <u><</u>	Created clinical procedures for joint dislocation & escharotomies
Trauma A	rrest Renamed Cardiac Arrest: Trauma
PL1 <u><</u>	Moved Traumatic Cardiac Arrest Procedure & Post ROSC Checklists to Checklists
	Moved Ultrasound from Pearls to Management Options
	Emphasized lifesaving interventions prior to or concurrent with CPR.

PL5 ≤ Moved Simple Thoracostomy to Clinical Procedures Moved Simple Thoracostomy Checklist to Checklists

Clinical Standards

All – General edits and document formatting.

Minimum Equipment to Patient's Side – All PL levels, added Clinical Operating Guidelines Refusal of Treatment or Transport – Clarified content to document in ePCR.

OMD Reference Documents

All – General edits and documenting formatting.

Authorized Skills per Credential Level – PL2, added Adult PO Acetaminophen, Ibuprofen, & Diphenhydramine; clarified PL2s can at the discretion of \geq PL4 prepare/draw up non-narcotic, non-sedative, or non-paralytic medications.

Checklists

All – created to compliment certain clinical procedures, standards, and clinical guidelines Lift Assist – Removed 65 years of age or older as High Risk Refusal criteria to call OLMC, added Yes/No questions to inform when to request EMS or OLMC

Summary of Changes to COG Formulary

Formulary	Summary of Changes	
All	1. General edits and formatting	
	2. Addition of Onset of Action, Peak Effect, Duration of Action	
	3. Ensured each indication was associated with a dose/rate/route	
	4. mL for Adult IVP doses or number of tablets added based on medicati	on
	concentration.	
Acetaminophen	1. Adult PO dose changed to 650mg based on EMS sourcing of 325mg x2	
	tabs	
Albuterol	2. Added hyperkalemia	
Amiodarone	1. Added Symptomatic A-Fib as an indication as an alternative to diltiaze	m
	when there is a clinical concern.	
Atropine	2. Added organophosphate poisoning to pediatric dosing	
Calcium chloride	1. Added blood product administration for adult and pediatric dosing	
	2. Added adult dose for Hydrofluoric acid burn	
	3. Made all slow IVP over 3 minutes	
Crystalloid Fluids	1. Created new formulary document.	
Diltiazem	 Added adult weight/dose chart. 	
Diphenhydramine	2. Added dose for persistent nausea/vomiting for adult and pediatric do	sing
Epinephrine	1. Added hypotension indication and dosing for pediatrics	
	2. Added OLMC requirements for some pediatric repeat dosing	
	3. Increased adult epi drip from 10 mcg/min to 20 mcg/min	
Fentanyl	1. Added range for initial dosing and repeat dosing for adults	
	2. Removed Adult SBP, made requirement to MAP > 65 instead	
	3. Added procedural sedation as an indication	
Haloperidol	1. Added Severe nausea/vomiting indication/dose	
Ketamine	1. Added pediatric doses, which require OLMC	
	2. Added adult indication for bronchospasm	
	3. Removed weight based adult dosing, gave standard doses	
	4. Added specifications/requirements regarding pain management	
Ketorolac	1. Removed from formulary	
Lidocaine	2. Added IO Flush for pediatrics	
	3. Added Eye Flush for pediatrics	
	4. Removed weight based adult dosing, gave standard doses	
Midazolam	1. Added adult dosing for uncontrolled anxiety / panic attack.	
	2. Added adult dosing for Acute psychiatric or toxicologic behavioral	
	emergency.	
	3. Added induction dosing for RSI	
	4. Removed Adult SBP, made requirement to MAP > 65 instead	
	5. Added procedural sedation	
Nitroglycerin	1. Removed hypertension as an indication	
Oxygen	1. Created new formulary document	
Rocuronium	1. Added Rapid Sequence Induction	
Tranexamic Acid	1. Added topical, nebulizer, IN, routes / indications for wounds	
	2. Added pediatric dosing	
Vecuronium	1. Removed from formulary	