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TO: All EMS Ambulance Providers and Stakeholders

FROM: Alvin C. Bronstein, M.D., FACEP *ACB*  
Chief, Emergency Medical Services and Injury Prevention System Branch

SUBJECT: Hawaii Adult & Pediatric Standing Orders Update 2023

The following is a catalog of changes in and highlights from the 2023 Mobile Intensive Care Technician Adult and Pediatric Standing Orders compared to the previously released version.

Please contact your local EMS agency or County EMS Medical Director if you have questions.

**General:**

1. REPLACED: COVID-19 Pandemic Guidelines (April 2020) with Post-Pandemic Guidelines.
2. ADDED: Cefazolin to formulary list.
3. REPLACED: Congestive Heart Failure (CHF) with Heart Failure (HF).
4. ADDED: Section 1-15 "Open Fracture / Major Traumatic Wounds: Prophylactic Intravenous Cefazolin Therapy" to Part 1: Procedures and Skills
5. ADDED: requirements when considering Termination of Resuscitation (Section 1-10)

**Medications:**

1. ADDED: Increased succinylcholine dose from 1.5 mg/kg to 2 mg/kg (Section 1-5-c)
2. ADDED: Field administration of cefazolin for open fracture, amputations, and major traumatic wounds: Pediatrics (weight 0-40kg) dose is 50mg/kg IV/IO; Pediatrics/Adults (weight  $\geq$  40kg) dose is 2g IV/IO. (See Sections 2-10B & 3-10-A)
3. AMMEND: Severe Agitation/Altered/Combative (Section 2-2-B)
4. ADDED: Pediatric seizure management with weight-based benzodiazepine recommendations, removal of PR diazepam, and temperature assessment with recommended 15mg/kg PO APAP if indicated. (Section P-3-3)
5. ADDED: Increased total opioid analgesia without base station contact for severe medical/traumatic injuries and pain: Adult and (patients > 50kg) first line treatment fentanyl 50mcg IV/IM \*2 doses Or Morphine Sulfate 2mg IV/IM \*2.

Pediatric fentanyl 0.5mcg/kg IV/IM and 0.75mcg IN \*2 for pain management in medical and traumatic injuries without base station contact. (Section 1-5)

6. ADDED: Fentanyl adjunctively post-intubation 50mcg IV (Section 1-6-c)
7. ADDED: Maximum pediatric dose of diphenhydramine (50mg) for minor allergic reaction and anaphylaxis. (Section 3-4-a, b)
8. ADDED: Levalbuterol Nebulizer (0.42%) 1.25mg per 3ml as an alternate of albuterol. (Section 2-3-a, 2-8-b, 3-4-b, 3-8-a)

**Adult Procedures:**

1. MOVED: Indications for Diphenhydramine placed last in severe allergy orders. (Section 2-3A)
2. ADDED: Needle thoracostomy in traumatic cardiac arrests or tension pneumothorax. (Section 1-10 & 1-11)
  - a. REPLACED: 2<sup>nd</sup> intercostal space with 5<sup>th</sup> intercostal space. 2<sup>nd</sup> intercostal should be used if unable to access axillary site. (Section 1-11-4)
3. REPLACED: “Death Pronouncement” with “Termination of Resuscitation”. (Section 2-10F). CONSOLIDATED to section 1-10 Termination of Resuscitation.
4. CLARIFICATION: Pain Management procedures with fentanyl preferred over morphine. (Section 1-5)
5. ADDED: Fentanyl adjunctively post-intubation 50mcg IV (Section 1-6C)
6. INCREASE: dose of ASA for chest pain from 162mg to 324mg (Section 2-1B)
7. CLARIFICATION: for naloxone use, replaced the term “narcotics” with “opiates”. (Section 2-9-c-3)
8. ADDED: “amputation and Major traumatic wounds” to Antibiotic administration for open fractures (Section 2-10-b)
9. REMOVED: Weight and dosage from antibiotic administration for open fractures section. Referenced guidelines in Section 1-15. (Section 2-10-b)

**Pediatric Procedures:**

1. MOVED: Indications for Diphenhydramine placed last in severe allergy orders. (Section 3-4B)
2. ADDED P-3-3: Pediatric seizure assessment with rectal APAP 40 mg/kg if indicated. (Section 3-3)
3. REMOVED pain from 3-10: pain management from Trauma section. ADDED pediatric pain management to Section 1-5: Procedures and Skills. (Section 1-5)
4. ADDED: “and Major traumatic wounds” to Antibiotic administration for open fractures (Section 3-10-a)
5. REMOVED: Age range “9-14 y.o. (30-50kg)” from antibiotic administration of cefazolin for open fractures. Referenced guidelines in Section 1-15. (Section 3-10-a)