Management of Medical Emergencies

For all emergencies

- Discontinue dental treatment
- 4. Monitor vital signs
- Call for assistance / someone to bring oxygen and emergency kit
- Position patient: ensure open and unobstructed airway
- Be prepared to support respiration, support circulation, provide cardiopulmonary resuscitation (CPR), and call for emergency medical services
- Drug dosage Condition Treatment Drug delivery* Signs and symptoms Allergic reaction Hives; itching; edema; 1. Discontinue all sources of allergy-causing Diphenhydramine 1 mg/kg Oral (mild or delayed) erythema-skin, substances Child: 10-25 mg qid mucosa conjuctiva 2. Administer diphenhydramine Adult: 25-50 mg qid1 Allergic reaction Urticaria-itching, flushing, This is a true, life-threatening emergency Epinephrine 1:1000 IM or SubQ (sudden onset): hives; rhinitis; 1. Call for emergency medical services 0.01 mg/kg every 5 min wheezing/difficulty breathing; Administer epinephrine until recovery or until anaphylaxis 2. help arrives1,2 broncho-spasm; laryngeal 3. Administer oxygen edema; weak pulse; marked 4. Monitor vital signs fall in blood pressure; loss of 5. Transport to emergency medical facility consciousness by advanced medical responders Acute asthmatic Shortness of breath; 1. Sit patient upright or in a 1. Albuterol (patient's or Inhale comfortable position emergency kit inhaler) attack wheezing; coughing; tightness in chest; Administer oxygen 2. Epinephrine 1:1000 IM or SubQ 2 Administer bronchodilator 0.01 mg/kg every cyanosis; tachycardia 3. 15 min as needed^{1,2} If bronchodilator is ineffective, administer 4. epinephrine 5. Call for emergency medical services with transportation for advanced care if indicated Local anesthetic Light-headedness; changes 1. Assess and support airway, breathing, Supplemental oxygen Mask toxicity in vision and/or speech; and circulation (CPR if warranted) metallic taste; changes in 2. Administer oxygen mental status-confusion; 3. Monitor vital signs agitation; tinnitis; tremor; Call for emergency medical services with seizure; tachypnea; transportation for advanced care if bradycardia; unconsciousness; indicated cardiac arrest Local anesthetic Anxiety; tachycardia/ Mask 1. Reassure patient Supplemental oxygen palpitations; restlessness; Assess and support airway, breathing, and reaction: circulation (CPR if warranted) vasoconstrictor headache; tachypnea; chest pain; cardiac arrest 3. Administer oxygen 4. Monitor vital signs 5. Call for emergency medical services with transportation for advanced care if indicated Overdose: Somnolence; confusion; 1. Assess and support airway, breathing, and Flumazenil 0.01-0.02 mg/kg IV (if IV access is not available, benzodiazepine diminished reflexes; circulation (CPR if warranted) (maximum: 0.2 mg); may respiratory depression; 2. Administer oxygen repeat at 1 min intervals not may be given IM) apnea; respiratory arrest; 3. Monitor vital signs to exceed a cumulative dose cardiac arrest 4. If severe respiratory depression, establish of 0.05 mg/kg or 1 mg, IV access and reverse with flumazenil whichever is lower)1 5. Monitor recovery (for at least 2 hours after the last dose of flumazenil) and call

for emergency medical services with transportation for advanced care if indicated

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Condition	Signs and symptoms	Treatment	Drug dosage	Drug delivery*
Overdose: narcotic	Decreased responsiveness; respiratory depression; respiratory arrest; cardiac arrest	 Assess and support airway, breathing, and circulation (CPR if warranted) Administer oxygen Monitor vital signs If severe respiratory depression, reverse with naxolone Monitor recovery (for at least 2 hours after the last dose of naxolone) and call for emergency medical services with transpor- tation for advanced care if indicated 	Naxolone 0.1 mg/kg up to 2 mg. ^{1,2} May be repeated to maintain reversal.	IV, IM, or SubQ
Seizure	Warning aura–disorientation, blinking, or blank stare; uncontrolled muscle movements; muscle rigidity; unconsciousness; postictal phase–sleepiness, confusion, amnesia, slow recovery	 Recline and position to prevent injury Ensure open airway and adequate ventilation Monitor vital signs If status is epilepticus, give diazepam and call for emergency medical services with transportation for advanced care if indicated 	Diazepam Child up to 5 yrs: 0.2-0.5 mg slowly every 2-5 min with maximum=5 mg Child 5 yrs and up: 1 mg every 2-5 min with maximum=10 mg ¹	IV
Syncope (fainting)	Feeling of warmth; skin pale and moist; pulse rapid initially then gets slow and weak; dizziness; hypotension; cold extremities; unconsciousness	 Recline, feet up Loosen clothing that may be binding Ammonia inhales Administer oxygen Cold towel on back of neck Monitor recovery 	Ammonia in vials	Inhale

* Legend: IM = intramuscular

uscular IV = intravenous

SubQ = subcutaneous

References:

- 1. Hegenbarth MA, Committee on Drugs. Preparing for Pediatric Emergencies: Drugs to Consider, American Academy of Pediatrics. Pediatrics 2008;121(2):433-43.
- 2. Pediatric Advanced Life Support: 2010 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. Circulation 2010;122:S876-S908.

DISCLAIMER: This information is not intended to be a comprehensive list of all medications that may be used in all emergencies. Drug information is constantly changing and is often subject to interpretation. While care has been taken to ensure the accuracy of the information presented, the AAPD is not responsible for the continued currency of the information, errors, omissions, or the resulting consequences. Decisions about drug therapy must be based upon the independent judgment of the clinician, changing drug information, and evolving healthcare practices.