## Management of Medical Emergencies

## For all emergendes

- toerment letneb evolutioned d
- 2. Call for assistance/someone to bring oxygen and emergency lift
- 3. Position patients ensure open and unobstructed alivary
- 4. Monitorvitel signs
- 5. Coprepared to support respiration, support direction, provide cardiopulmonary resuscitation (GPR), and call for emergency medical services

Condition	Signs and symptoms	Treatment	Drug dosage	Drug delivery
llergic 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	
illia of aciayca)	mucosa conjuctiva	Administer diphenhydramine	Adult: 25-50 mg qid <sup>1</sup>	
	mucosa conjuctiva	2. Tallimister dipiterinydramine	Mauri. 25-50 mg qia	
llergic reaction	Urticaria-itching, flushing,	This is a true, life-threatening emergency	Epinephrine 1:1000	IM or SubQ
udden onset):	hives; rhinitis;	1. Call for emergency medical services	0.01 mg/kg every 5 min	
naphylaxis	wheezing/difficulty breathing;	2. Administer epinephrine	until recovery or until	
1 /	broncho-spasm; laryngeal	3. Administer oxygen	help arrives <sup>1,2</sup>	
	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	•	
cute asthmatic	Shortness of breath;	<ol> <li>Sit patient upright or in a</li> </ol>	<ol> <li>Albuterol (patient's or</li> </ol>	Inhale
tack	wheezing; coughing;	comfortable position	emergency kit inhaler)	
	tightness in chest;	2. Administer oxygen	2. Epinephrine 1:1000	IM or SubQ
	cyanosis; tachycardia	3. Administer bronchodilator	. 0.01 mg/kg every	
		4. If bronchodilator is ineffective, administer	15 min as needed1,2	
		epinephrine		
		5. Call for emergency medical services with	•••	
		transportation for advanced care if	•	
•		indicated	·	•
1 1	The bod days where	1 Access and commons almost becarbing	Supplemental oxygen	Mask-
ocal anesthetic	Light-headedness; changes	Assess and support airway, breathing,     and circulation (CPR if warranted)	Supplemental oxygen	IVIdSK.
xicity .	in vision and/or speech;	,		
	metallic taste; changes in	2. Administer oxygen		
	mental status-confusion;	3. Monitor vital signs		
	agitation; tinnitis; tremor;	4. Call for emergency medical services with		
	seizure; tachypnea;	transportation for advanced care if	•	
	bradycardia; unconsciousness;	indicated '		
	cardiac arrest			
ocal anesthetic	Anxiety; tachycardia/	1. Reassure patient	Supplemental oxygen	Mask
action:	palpitations; restlessness;	Assess and support airway, breathing, and		
	headache; tachypnea;	circulation (CPR if warranted)		
soconstrictor		· 1		
4	chest pain; cardiac arrest	Administer oxygen     Maniformital signs		
•		4. Monitor vital signs		
		5. Call for emergency medical services with		
	•	transportation for advanced care if		
		indicated		
verdose:	Somnolence; confusion;	1. Assess and support airway, breathing, and	Flumazenil 0.01 - 0.02 mg/kg	IV (if IV access
enzodiazepine	diminished reflexes;	circulation (CPR if warranted)	(maximum: 0.2 mg); may	is not available
	respiratory depression;	2. Administer oxygen	repeat at 1 min intervals not	may be given I
	apnea; respiratory arrest;	Monitor vital signs	to exceed a cumulative dose	, 35 8
		4. If severe respiratory depression, establish	of 0.05 mg/kg or 1 mg,	
	cardiac arrest	IV access and reverse with flumazenil	whichever is lower)1	1
•			whichever is lower)	
		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	•	

Tables continues on next page

## For all emergendes

- l. Disconlines denial treatment
- 2. Call for assistance/someone to bring oxygen and emergency lift
- 3. Position patients ensure open and unobstructed airway
- 4. Monftorvitel signs
- 5. De prepared to support respiration, support discibilion, provide cardiopulmonary resuscitation (GPR), and call for emergency medical services

Condition	Signs and symptoms	Treatment	Drug dosage	Drug delivery*
Overdose: narcotic	Decreased responsiveness; respiratory depression; respiratory arrest; cardiac arrest	<ol> <li>Assess and support airway, breathing, and circulation (CPR if warranted)</li> <li>Administer oxygen</li> <li>Monitor vital signs</li> <li>If severe respiratory depression, reverse with naxolone</li> <li>Monitor recovery (for at least 2 hours after the last dose of naxolone) and call for emergency medical services with transportation for advanced care if indicated</li> </ol>	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	<ol> <li>Recline and position to prevent injury</li> <li>Ensure open airway and adequate ventilation</li> <li>Monitor vital signs</li> <li>If status is epilepticus, give diazepam and call for emergency medical services with transportation for advanced care if indicated</li> </ol>	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 mgevery 2-5 min with maximum=10 mg <sup>1</sup>	IV
Syncope (fainting)	Feeling of warmth; skin pale and moist; pulse rapid initially then gets slow and weak; dizziness; hypotension; cold extremities; unconsciousness	<ol> <li>Recline, feet up</li> <li>Loosen clothing that may be binding</li> <li>Ammonia inhales</li> <li>Administer oxygen</li> <li>Cold towel on back of neck</li> <li>Monitor recovery</li> </ol>	Ammonia in vials	Inhale

<sup>\*</sup> Legend:

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.

IM = intramuscular

IV = intravenous

Copyright of Pediatric Dentistry is the property of American Society of Dentistry for Children and its content may not be copied or emailed to multiple sites or posted to a listserv without the copyright holder's express written permission. However, users may print, download, or email articles for individual use.