Common Medical emergencies in the dental practice

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Why it is important?

- 1. prevalence
 - Bystander death reports

2. substitution

■ 3. medico legal consequences

■ 4. self confidence

(90% in ten years practice)

prevalence

Syncope	15,407	
Mild allergic reaction	2583	
Angina pectoris	2552	
Postural hypotension	2475	
Seizures	1595	
Asthmatic attack (bronchospasm)	1392	
Hyperventilation	1326	
"Epinephrine reaction"	913	
Insulin shock (hypoglycemia)	890	
Cardiac arrest	331	
Anaphylactic reaction	304	
Myocardial infarction	289	
Local anesthetic overdose	204	
Acute pulmonary edema (heart failure)	141	
Diabetic coma	109	
Cerebrovascular accident	68	
Adrenal insufficiency	25	
Thyroid storm	4	

preparation

- Medical history
 - https://dental.pacific.edu/dental/dental-services/professional/documents
- Medical interview
- Emergency kit

 Medical emergencies mostly happen within <u>10 minutes</u> after dental anesthesia injection

HEALTH HISTORY

Pacific Dental School

English

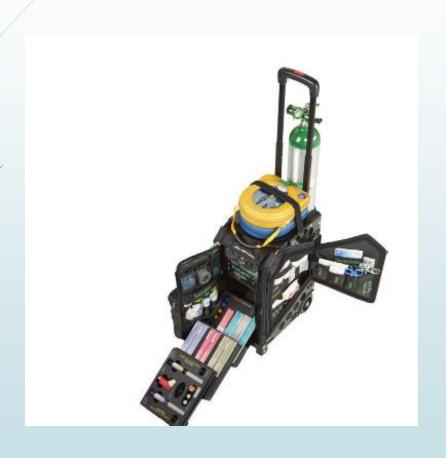
Patient Name:		Patient	Patient Identification Number:				
				Birth Date:			
			ATE ANSWER (leave Blank if you do not understand quest	ion):			
1.	Yes	No	Is your general health good?				
2.	Yes	No	Has there been a change in your health within the last y				
3.	Yes	No	Have you been hospitalized or had a serious illness in th	e last three	years?		
			If YES, why?				
4.	Yes	No	Are you being treated by a physician now? For what?				
			Date of last medical exam?Date of	f last Denta	al exam_		
5.	Yes	No	Have you had problems with prior dental treatment?				
6.	Yes	No	Are you in pain now?				
II. HA	VE YOU	EXPER	IENCED:				
7.	Yes	No	Chest pain (angina)?	18.	Yes	No	Dizziness?
8.	Yes	No	Swollen ankles?	19.	Yes	No	Ringing in ears?
9.	Yes	No	Shortness of breath?	20.	Yes	No	Headaches?
10.	Yes	No	Recent weight loss, fever, night sweats?	21.	Yes	No	Fainting spells?
11.	Yes	No	Persistent cough, coughing up blood?	22.	Yes	No	Blurred vision?
12.	Yes	No	Bleeding problems, bruising easily?	23.	Yes	No	Seizures?
13.	Yes	No	Sinus problems?	24.	Yes	No	Excessive thirst?
14.	Yes	No	Difficulty swallowing?	25.	Yes	No	Frequent urination?
15.	Yes	No	Diarrhea, constipation, blood in stools?	26.	Yes	No	Dry mouth?
16.	Yes	No	Frequent vomiting, nausea?	27.	Yes	No	Jaundice?
17.	Yes	No	Difficulty urinating, blood in urine?	28.	Yes	No	Joint pain, stiffness?
II. DO	YOU H	AVE OR	HAVE YOU HAD:				
29.	Yes	No	Heart disease?	40.	Yes	No	AIDS
30.	Yes	No	Heart attack, heart defects?	41.	Yes	No	Tumors, cancer?
31.	Yes	No	Heart murmurs?	42.	Yes	No	Arthritis, rheumatism?
32.	Yes	No	Rheumatic fever?	43.	Yes	No	Eye diseases?
33.	Yes	No	Stroke, hardening of arteries?	44.	Yes	No	Skin diseases?
34.	Yes	No	High blood pressure?	45.	Yes	No	Anemia?
35.	Yes	No	Asthma, TB, emphysema, other lung diseases?	46.	Yes	No	VD (syphilis or gonorrhea)?
36.	Yes	No	Hepatitis, other liver disease?	47.	Yes	No	Herpes?
37.	Yes	No	Stomach problems, ulcers?	48.	Yes	No	Kidney, bladder disease?
38.	Yes	No	Allergies to: drugs, foods, medications, latex?	49.	Yes	No	Thyroid, adrenal disease?
39.	Yes	No	Family history of diabetes, heart problems, tumors?	50.	Yes	No	Diabetes?

IV. DO YOU HAVE OR HAVE YOU HAD:							
51.	Yes	No	Psychiatric care?	56.	Yes	No	Hospitalization?
52.	Yes	No	Radiation treatments?	57.	Yes	No	Blood transfusions?
53.	Yes	No	Chemotherapy?	58.	Yes	No	Surgeries?
54.	Yes	No	Prosthetic heart valve?	59.	Yes	No	Pacemaker?
55.	Yes	No	Artificial joint?	60.	Yes	No	Contact lenses?
V. ARE	YOUT	AKING:					
61.	Yes	No	Recreational drugs?	63.	Yes	No	Tobacco in any form?
62.	Yes	No	Drugs, medications, over-the-counter medicines	64.	Yes	No	Alcohol?
			(including Aspirin), natural remedies?				
Pleas	e list:						
VI. WO	OMEN C	NLY:					
65.	Yes	No	Are you or could you be pregnant or nursing?	66.	Yes	No	Taking birth control pills?
VII. AI	L PAT	ENTS:					
67.						nis form?	
If so,	please e	xplain:					
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nedical		y knowiea <u>g</u>	ge, I have answered every question completely and accurate	uy. 1 wuu unj	orm my a	ientist of d	any cnange in my neaith ana/or
Patie	Patient's signature:Date:						
RECAL	LL REV	IEW:					
	, .					D 4	
1. Patient's signature							
2. Patient's signatureDate:							
3. Patient's signature				Date:_			
	The He	alth Histon	y is created and maintained by the University of the Pacific, A Support for the translation and dissemination of the Heal				

Necessary dental office equipment

Alternative light source for use during power failure	Acetylsalicylic acid (readily absorbable form)
Automated external defibrillator (AED)	Ammonia inhalants
Disposable CPR masks (pediatric and adult)	Antihistamine
Disposable syringes, assorted sizes	Antihypoglycemic agent
Disposable pediatric and adult face masks or positive pressure ventilation with supplemental oxygen	Bronchodilator
Oxygen (portable Cylinder E tank) pediatric and adult masks capable of giving positive pressure ventilation (including bag-valve-mask system)	Epinephrine preloaded syringes (pediatric and adult)
Sphygmomanometer and stethoscope for pediatric and adult patients	Two epinephrine ampules
Suction	Oxygen
Any other equipment as may be required by the Board	Vasodilator
	Any other drugs or categories of drugs as may be required by the Board.

Emergency kit



لیست داروهای بسته اورژانس (Emergency Box) مطب پزشکان و دندانپزشکان

تعداد	دارو	ردیف
5 عدد	آمپول اپی نفرین	1
5 عدد	آمپول آتروپین	2
5 عدد	آمپول ليدوكائين 2٪	3
5 عدد	آمپول دياز پام	4
2 عدد	آمپول هيدروكور تيزون 100 ميلى گرم	5
3 عدد	آمپول دگزامتازون	6
2 عدد	آمپول متوكلوپراميد	7
5 عدد	آمپول آنتی هیستامین (کلروفنیرامین یا کلماستین)	8
حداکثر 2 عدد	محلولهای وریدی قابل تزریق 1000 سی سی یا 500 سی سی نرمال سالین یا رینگر	9
5 عدد -1 عدد	پرل TNG یا اسپری TNG	10
5عدد-2 عدد	ويال گلوكز 20٪ يا ويال گلوكز 50٪	11
5 عدد	آب مقطر	12

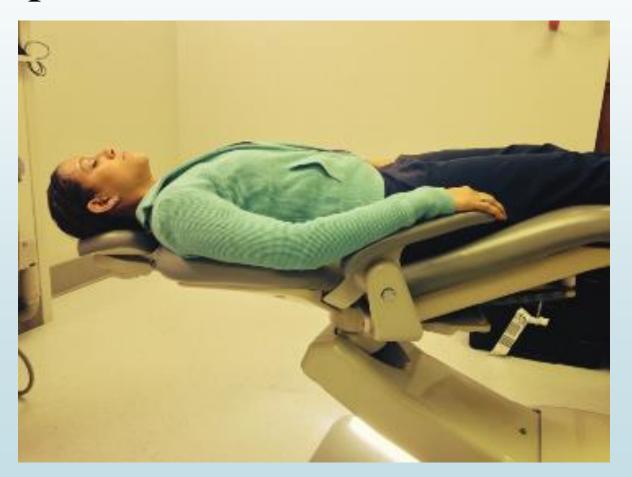
مطب پزشكان اطفال	مطب پزشکان و دندانپزشکان	دارو	ردیف
میلر سایز 1 و خمیده سایز 1، هر کدام 1 عدد	یک سایز اطفال (میلر) دو سایز بزرگ (خمیده)	لارنگوسكوپ همراه تيغه	1
1 عدد با ماسک اطفال	1 عدد	یک تهویه با فشار مثبت و ماسک	2
2 سایز 3 و 5 هر کدام 1 عدد	3 سايز (سايز اطفال 3/5 بزرگسال 7 و 7/5)	لوله تراشه	3
2 اندازه، هر کدام 1 عدد	2 سايز 8 و 10	Air Way دهانی-حلقی	4
اندازه اطفال ، 2 عدد	سايز 16 و 18، هر كدام 1 عدد	سوند نلاتون	5
2 عدد صورتی، 2 عدد آبی	2 عدد صورتی، 2 عدد آبی	آنژیوکت	6
دستی یا برقی	دستی یا برقی	دستگاه ساکشن	7
همراه با رابط ماسک مناسب با مانومتر	همراه با رابط اکسیژن ماسک صورت با مانومتر	كپسول اكسيژن	8
10 عدد، سرسوزن 5 عدد	10 عدد، سرسوزن 5 عدد	سرنگ 2 و 5 سی سی	9
چسب لکوپلاست یا CM، قیچی، ست سرم، باند نخی هر کدام یک عدد، پنبه الکل، دستکش لاتکس دو عدد			

BLS steps (all emergency situation)

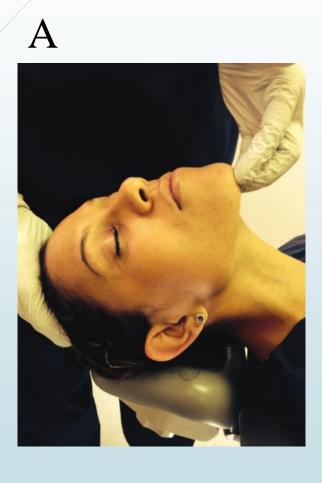
- Positioning
- Airway
- Breathing
- Circulation
- Definitive care
- PCABD vs. PABCD

Management

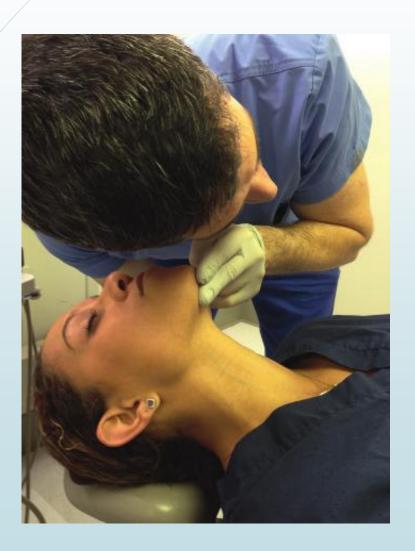
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Management

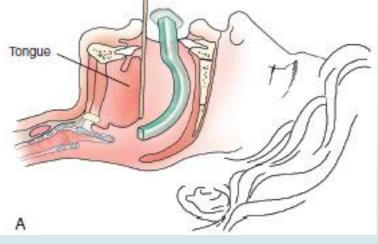


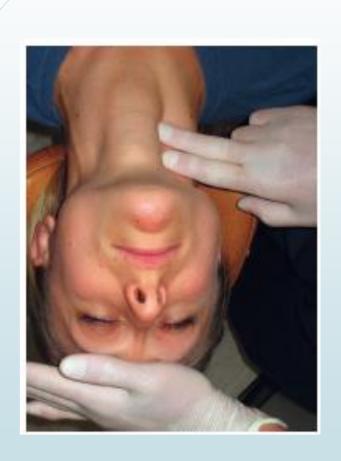
B











C



Vasodepressor syncope

- Pathophysiology
 - Cerebral oxygen consumption not fulfilled
- Predisposing factor
 - Psychogenic factors (pain ,fear,...)
 - Positioning, hunger, exhaustion, humid hot environment

Pre syncope

EARLY

Feeling of warmth

Loss of color; pale or ashen-gray skin tone

Heavy perspiration (diaphoresis)

Reports of "feeling bad" or "feeling faint"

Nausea

Blood pressure at baseline level or slightly lower

Tachycardia

LATE

Pupillary dilation

Yawning

Hyperpnea

Cold hands and feet

Hypotension

Bradycardia

Visual disturbances

Dizziness

Loss of consciousness

management

- Positioning
- CAB
- Definitive care (O2 therapy and **postpone further treatment**)
- ► Activate EMS (<u>delay response</u>)

Prodrome:

- 1. Terminate all dental treatment.
- 2. Position patient in supine posture with legs raised above level of head.
- 3. Attempt to calm patient.
- 4. Place cool towel on patient's forehead.
- 5. Monitor vital signs.

Syncopal episode:

- 1. Terminate all dental treatment.
- 2. Position patient in supine posture with legs raised.
- 3. Check for breathing.

If absent:

- 4. Start basic life support.
- 5. Have someone summon medical assistance.
- Consider other causes of syncope, including hypoglycemia, cerebral vascular accident, or cardiac dysrhythmia.

If present:

- 4. Crush ammonia ampule under nose, administer O2.
- 5. Monitor vital signs.
- 6. Have patient escorted home.
- 7. Plan anxiety control measures during future dental care.

Hypersensitivity and anaphylactic shock



Angio edema





Swelling of the conjunctiva-

Runny nose-

Swelling of lips, tongue and/orthroat-

Heart and vasculature

- fast or slow heart rate
- low blood pressure

Skin -

- hives
- itchiness
- flushing

Pel vic pain-

Central nervous system

- lightheadedness
- loss of consciousness
- confusion
- headache
- anxiety

Respiratory

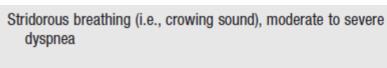
- shortness of breath
- wheezes or stridor
- hoarseness
- pain with swallowing
- cough

- Gastrointe stinal

- crampy abdominal pain
- diarrhea
- vomiting

-Loss of bladder control

Manifestations	Management
Skin Signs	
	 Stop administration of all drugs presently in use. Administer IV or IM Benadryl^a 50 mg or Chlor-Trimeton^b 10 mg. Refer to physician. Prescribe oral antihistamine such as Benadryl 50 mg q6h or Chlor-Trimeto 10 mg q6h. Can prescribe tapering dose of an oral corticosteroid (prednisone or methylprednisolone dose pack).
	 Stop administration of all drugs presently in use. Administer antihistamine IM or IV Benadryl 50 mg or Chlor-Trimeton 10 mg. Consider administering 100 mg of hydrocortisone, 8 mg of dexamethasone or 125 mg of methylprednisolone. Monitor vital signs. Consult patient's physician. Observe in office for 1 hour. Prescribe Benadryl 50 mg q6h or Chlor-Trimeton 10 mg q6h. Prescribe tapering dose of an oral corticosteroid.
Respiratory Tract Signs With or Without Cardiovascular or Skin Si	ans
Wheezing, mild dyspnea	 Stop administration of all drugs presently in use. Place patient in sitting position. Administer 2 puffs of inhaled β-agonist, repeat up to 3 doses if no cardiovascular compromise is present. Consider administering 100 mg of hydrocortisone, 8 mg of dexamethasone or 125 mg of methylprednisolone. Administer epinephrine if signs of cardiovascular compromise or airway obstruction are present.^c Provide IV access. Consult patient's physician or emergency department physician. Observe in office for at least 1 hour. Prescribe antihistamine.



Anaphylaxis (with or without skin signs): malaise, wheezing, stridor, cyanosis, total airway obstruction, nausea and vomiting, abdominal cramps, urinary incontinence, tachycardia, hypotension, cardiac dysrhythmias, cardiac arrest

- ^aBrand of diphenhydramine.
- ^bBrand of chlorpheniramine.
- ^cAs described in "Immediate Onset" section.

IM, Intramuscular; IV, intravenous; SC, subcutaneous.

- 1. Stop administration of all drugs presently in use.
- 2. Sit the patient upright, and have someone summon medical assistance.
- 3. Administer epinephrine.a
- 4. Give oxygen (6 L/min) by facemask or nasally.
- 5. Monitor vital signs frequently.
- 6. Administer antihistamine and corticosteroid.
- 7. Provide IV access; if signs worsen, treat as for anaphylaxis.
- 8. Consult patient's physician or emergency room physician; prepare for transport to emergency department if signs do not improve rapidly.
- 1. Stop administration of all drugs.
- Position patient supine on back board or on floor and have someone summon assistance.
- Administer epinephrine.^a
- 4. Initiate basic life support and monitor vital signs.
- Consider cricothyrotomy if trained to perform and if laryngospasm is not quickly relieved with epinephrine.
- 6. Provide IV access.
- 7. Give oxygen at 6 L/min.
- 8. Administer antihistamine IV or IM.
- Prepare for transport.



Postural Hypotension

- Predisposing factor
- Administration and ingestion of drugs_{7,8}
- Prolonged period of recumbency or convalescences
- Inadequate postural reflex
- Late-stage pregnancy₁₀
- Advanced age₁₁
- Venous defects in the legs (e.g., varicose veins)
- Recovery from sympathectomy for "essential"
- Hypertension drugs (common mistake Dentanest)
- Addison's disease
- Physical exhaustion and starvation

Postural Hypotension

- Vasodilators
- a-adrenergic receptor antagonists
- β-adrenergic receptor antagonists
- Central a-adrenergic receptor agonists:
- Clonidine, guanabenz, guanfacine
- Cyclic antidepressants
- Phenothiazines

management

PCABD

- Terminate all dental treatment.
- Place the patient in the supine position with legs raised above the level of the head.
- Monitor the vital signs.
- Once blood pressure improves, slowly return the patient to the sitting position.
- 5. Discharge the patient home once the vital signs are normal and stable.
- 6. Obtain medical consultation before any further dental care.

Angina pectoralis and cardiac arrest

- stable angina Vs. unstable angina
 - Prinzmetal's angina (rest)
- Pre stroke
- Cut of point (2-3 per week)
 - Premedication NG 5 min before treatment
- Medical consultation
 - Gingival hyperplasia (calcium channel blockers ex. mlodipine, verapamil, nicardipine, nitrendipine, oxodipine, felodipine and diltiazem))
- Base line Vital sign

Differential diagnosis of chest pain

Noncardiac chest pain	Cardiac chest pain
Sharp, knifelike	Dull
Stabbing sensation	Aching
Aggravated by movement	Heaviness, oppressive feeling
Present only with breathing	Present at all times
Localized (patient able to point to one spot)	Generalized (occurs over a wider area)

BOX 29-1 Causes of chest pain

CARDIAC RELATED

Angina pectoris Myocardial infarction

NOT CARDIAC RELATED

Muscle strain (musculoskeletal)

Pericarditis

Esophagitis

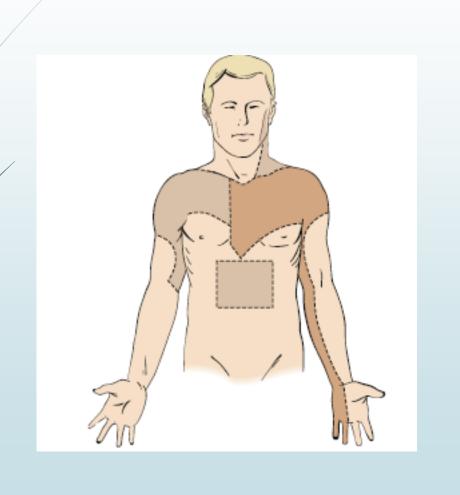
Hiatal hernia

Pulmonary embolism

Dissecting aortic aneurysm

Acute indigestion

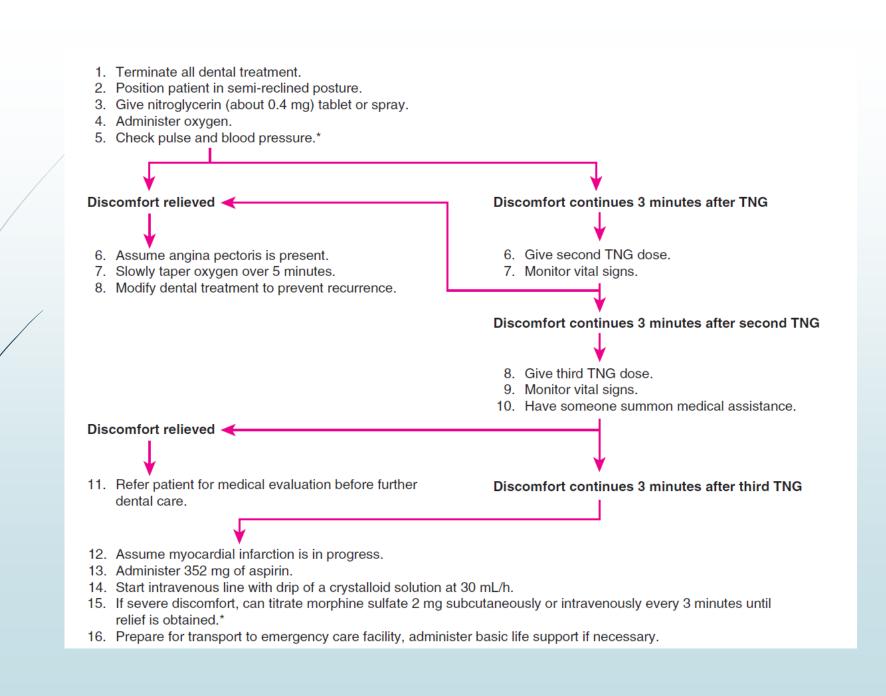
Intestinal "gas"



management

■ PCAB

 Up to 3 dose of NG pearl (note severe induced hypotension can amplify hearth ischemia leading to cardiac arrest)



seizure

Childhood and adolescence	Early adult life	Late adult life
No known cause	Trauma	Vascular disease
Infection	Tumor	Trauma
Trauma	No known cause	Tumor
Cerebral degenerative disease	Birth injury Infection Cerebral degenerative disease	Cerebral degenerative disease

prevention

- Anxiety control / drug
- Fatigue hypoglycemia

Risk: status epilepticus

■ <u>IV line</u>





Isolated, brief seizure

Tonic-clonic movements of trunk and extremities, loss of consciousness, vomiting, airway obstruction, loss of urinary and anal sphincter control

Acute management

- 1. Terminate all dental treatment.
- 2. Place in supine position.
- 3. Protect from nearby objects.

After seizure

Patient is unconscious

- 4. Have someone summon medical assistance.
- 5. Place patient on side and suction airway.
- 6. Monitor vital signs.
- 7. Initiate basic life support (BLS), if necessary.
- 8. Administer oxygen.
- 9. Transport to emergency care facility.

Patient is conscious

- 4. Suction airway, if necessary.
- 5. Monitor vital signs.
- 6. Administer oxygen.
- 7. Consult physician.
- 8. Observe patient in office for 1 hour.
- 9. Have patient escorted home.

Repeated or sustained seizure (status epilepticus)

(as above)

- Administer diazepam 5 mg/min intravenously (IV) up to 10 mg or midazolam 3 mg/min IV or intramuscularly up to 6 mg* titrated until seizures stop.
- 2. Have someone summon medical assistance.
- 3. Protect patient from nearby objects.

Once seizure ceases

- 4. Place patient on side and suction airway.
- 5. Monitor vital signs.
- 6. Initiate BLS, if necessary.
- 7. Administer oxygen.
- 8. Transport to emergency care facility.

Hyper ventilation

• BOX 2.7 Manifestations of Hyperventilation Syndrome

Neurologic

- Dizziness
- Syncope
- . Tingling or numbness of fingers, toes, or lips

Respiratory

- Chest pain
- · Feeling of shortness of breath
- · Increased rate and depth of breaths
- Xerostomia

Cardiac

- Palpitations
- Tachycardia

Musculoskeletal

- Muscle spasm
- Myalgia
- Tetany
- Tremor

Psychological

Extreme anxiety

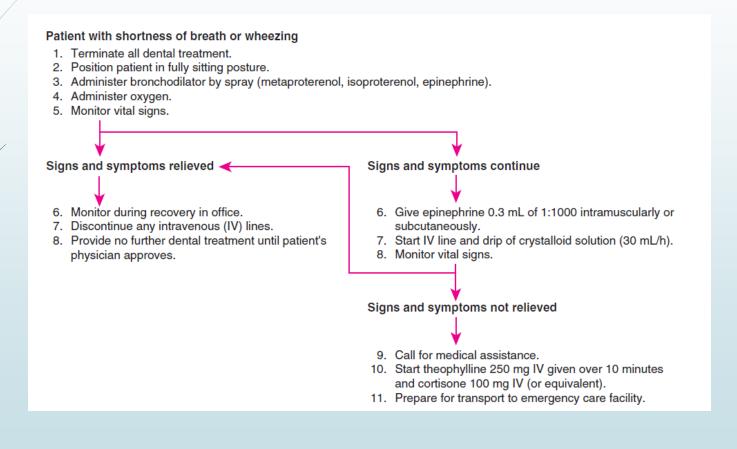
• BOX 2.8 Management of Hyperventilation Syndrome

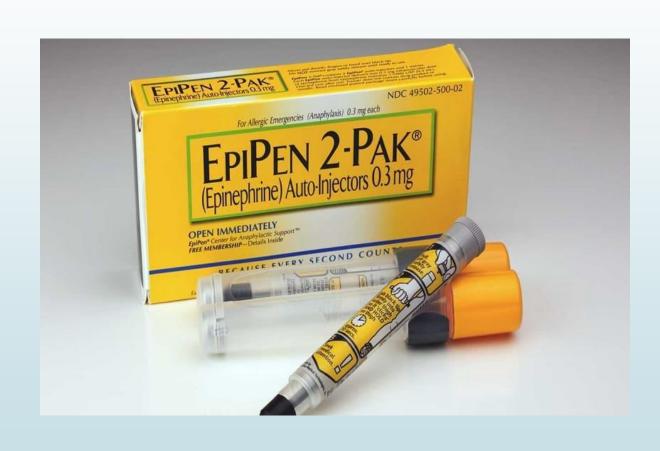
- Terminate all dental treatment, and remove foreign bodies from mouth.
- Position patient in chair in almost fully upright position.
- Attempt to calm patient verbally.
- Have patient breathe carbon dioxide—enriched air, such as in and out of a small bag or cupped hands.
- If symptoms persist or worsen, administer diazepam 10 mg intramuscularly or titrate slowly intravenously until anxiety is relieved, or administer midazolam 5 mg intramuscularly or titrate slowly intravenously until anxiety is relieved.
- Monitor the vital signs.
- Perform all further dental surgery using anxiety-reducing measures.

asthma

- Defer dental treatment until the asthma is well controlled and the patient has no signs of a respiratory tract infection.
- Listen to the chest with a stethoscope to detect any wheezing before major oral surgical procedures or sedation.
- Use an anxiety-reduction protocol, including nitrous oxide, but avoid the use of respiratory depressants.
- Consult the patient's physician about possible preoperative use of cromolyn sodium.
- If the patient is or has been chronically taking corticosteroids, provide prophylaxis for adrenal insufficiency.
- 6. Keep a bronchodilator-containing inhaler easily accessible.
- Avoid the use of nonsteroidal antiinflammatory drugs in susceptible patients.

asthma





Adrenal insufficiency

- Corticosteroid induced
 - 20 mgr. prednisolone 6-12 mounts
- Adisson's disease

- Extreme fatigue
- Weight loss and decreased appetite
- Darkening of your skin (hyperpigmentation)
- Low blood pressure, even fainting
- Salt craving
- Low blood sugar (hypoglycemia)
- Nausea, diarrhea or vomiting (gastrointestinal symptoms)
- Abdominal pain
- Muscle or joint pains
- Irritability
- Depression or other behavioral symptoms
- Body hair loss or sexual dysfunction in women

If the patient is currently taking corticosteroids:

- Use an anxiety-reduction protocol.
- Monitor pulse and blood pressure before, during, and after surgery.
- Instruct the patient to double the usual daily dose on the day before, day of, and day after surgery.
- On the second postsurgical day, advise the patient to return to a usual steroid dose

If the patient is not currently taking steroids but has received at least 20 mg of hydrocortisone (cortisol or equivalent) for more than 2 weeks within the past year:

- Use an anxiety-reduction protocol.
- Monitor pulse and blood pressure before, during, and after surgery.
- Instruct the patient to take 60 mg of hydrocortisone (or equivalent) the day before and the morning of surgery (or the dentist should administer 60 mg of hydrocortisone or equivalent intramuscularly or intravenously before complex surgery).
- On the first 2 postsurgical days, the dose should be dropped to 40 mg and dropped to 20 mg for 3 days thereafter. The clinician can cease administration of supplemental steroids 6 days after surgery.

- Terminate all dental treatment.
- Place the patient in the supine position with legs raised above head level.
- 3. Have someone summon medical assistance.
- Administer corticosteroid (100 mg hydrocortisone intramuscular or intravenous or its equivalent).
- Administer oxygen.
- Monitor all vital signs.
- 7. Start an intravenous line and a drip of crystalloid solution.
- Start basic life support, if necessary.
- Transport the patient to an emergency care facility.

Diabetes mellitus

BOX 17-7 Clinical manifestations of hypoglycemia

EARLY STAGE—MILD REACTION

Diminished cerebral function

Changes in mood

Decreased spontaneity

Hunger

Nausea

MORE SEVERE STAGE

Sweating

Tachycardia

Piloerection

Increased anxiety

Bizarre behavioral patterns

Belligerence

Poor judgment

Uncooperativeness

LATER SEVERE STAGE

Unconsciousness

Seizure activity

Hypotension

Hypothermia

Diabetes mellitus

Insulin-Dependent (Type 1) Diabetes

- Defer surgery until the diabetes is well controlled; consult the patient's physician.
- 2. Schedule an early-morning appointment; avoid lengthy appointments.
- Use an anxiety-reduction protocol, but avoid deep sedation techniques in outpatients.
- Monitor pulse, respiration, and blood pressure before, during, and after surgery.
- 5. Maintain verbal contact with the patient during surgery.
- If the patient must not eat or drink before oral surgery and will have difficulty eating after surgery, instruct him or her not to take the usual dose of regular or NPH insulin; start intravenous administration of a 5% dextrose in water drip at 150 mL/h.
- 7. If allowed, have the patient eat a normal breakfast before surgery and take the usual dose of regular insulin but only half the dose of NPH insulin.
- 8. Advise patients not to resume normal insulin doses until they are able to return to usual level of caloric intake and activity level.
- Consult the physician if any questions concerning modification of the insulin regimen arise.
- Watch for signs of hypoglycemia.
- 11. Treat infections aggressively.

Non-Insulin-Dependent (Type 2) Diabetes

- 1. Defer surgery until the diabetes is well controlled.
- 2. Schedule an early-morning appointment; avoid lengthy appointments.
- 3. Use an anxiety-reduction protocol.
- 4. Monitor pulse, respiration, and blood pressure before, during, and after surgery.
- Maintain verbal contact with the patient during surgery.
- If the patient must not eat or drink before oral surgery and will have difficulty eating after surgery, instruct him or her to skip any oral hypoglycemic medications that day.
- If the patient can eat before and after surgery, instruct him or her to eat a normal breakfast and to take the usual dose of hypoglycemic agent.
- 8. Watch for signs of hypoglycemia.
- 9. Treat infections aggressively.

management

BOX 17-10 Management of hypoglycemia—unconscious patient

RECOGNIZE PROBLEM

(lack of response to sensory stimulation)

 \downarrow

Discontinue dental treatment

1

Activate office emergency team

 \downarrow

P—Position patient in supine position with feet elevated

 \downarrow

 \downarrow

D—Definitive management:

Summon emergency medical service,

Administer carbohydrates:

IV 50% dextrose solution

1 mg glucagon via IV or IM route

Transmucosal sugar, or rectal honey or syrup

Monitor vital signs every 5 minutes

Administer 0,

|

Allow patient to recover and discharge per medical recommendations

management

BOX 17-8 Management of hyperglycemia—unconscious patient

Recognize problem

(lack of response to sensory stimulation)

Discontinue dental treatment

Activate office emergency team

 $C \rightarrow A \rightarrow B$ —Assess and perform basic life support as needed

D—Provide definitive management as needed
 Summon emergency medical service,
 Establish intravenous infusion, if possible,
 Administer 0₂,

Transport to hospital for definitive management

Tank You For Your Attention To This Matter