Medical Emergencies in the Dental Office, Medical Emergencies in Life !

The New Hampshire Dental Society

Concord, NH Friday, November 9th, 2018 Mel Hawkins, DDS BScD AN Dentist/Dentist Anesthesiologist Toronto, ON Canada



DISCLOSURE

Mel Hawkins

has no relevant financial relationship with any company or organization to disclose with respect to this continuing dental education program

The New Hampshire Dental Society Friday, November 9th, 2018

Reality of Dental Emergencies

Almost Always

Almost Never





The Challenge

How can we as <u>health</u> professionals, who are supposed to have higher skills, be expected to treat an emergency situation in the office or in life when they **NEVER (well, almost never)** occur?

What today is NOT:

28 different emergency situations involving 28 different medical scenarios (15 of which you and I have *never* heard of), which drug to use, IV?, IM?, IL?, dose in mg., repeat how often?, side effects, which drug to combat the side effects? etc...etc...





Inconveniences

Syncope	15,407
Mild Allergy	2,583
Postural Hypotension	2,475
Bronchospasm (asthma)	1,392
Hyperventilation	1,326
Epinephrine Reaction	913

Urgencies

Syncope	15,407
Angina	2,552
Seizure	1,595
Bronchospasm (asthma)	1,392
Epinephrine Reaction	913
Insulin Shock (conscious)	890



Syncope	15,407
Angina	2,552
Seizure	1,595
Bronchospasm (asthma)	1,392
Myocardial Infarction	289
Local Anesthetic Overdose	204
C.V.A.	68

Rarity ("Non" Events)

Acute Pulmonary Edema	141
Diabetic Coma	105
Adrenal Insufficiency	25
Thyroid Storm	4

"What's Really Important?"

Syncope	15,407
Angina	2,552
Myocardial Infarction	289
Cardiac Arrest	???
Asthma, Severe Allergy ⇒ Bronchospasm	1,392

Everything Else Has Time!

Diabetic Coma/Insulin Shock	Sugar
Epilepsy/Seizure/Convulsions	Airway
Hyperventilation O2 Sat?	100%
Mild Allergy Itchiness/Rash	Wait
Local Anesthetic / Epinephrine	β Blockers



2

Protocols, Age/Risk Pharmacodynamics Airway + a few good adjuncts, Oxygen, Vasoconstrictors Defib, Drugs and Diagnosis

3





Protocols,

Age/Risk

Pharmacodynamics

Emergency Protocol

Is 911 a false sense of security?

IT DEPENDS on:

- What,
- When, and
- Where the problem is!



Emergency Protocols



Communication

- Front Desk
- Office Manager



"What is your Emergency?"

The 3 U's Unconscious Unresponsive Unable to find a pulse





Attending person



"I HAVE AN UNRESPONSIVE CHILD WITHOUT A PULSE".

- 123 Home Street. Hawkins residence.
- Front door.
- "I will meet you there"



RESPONSIBILITIES

Front Desk



"WE HAVE A PATIENT IN CARDIAC ARREST WITH CPR IN PROGRESS"

- 91 Rylander Blvd. Dr. Hawkins office.
- Dr. Hawkins office.
- Front parking lot.
- "I will meet you there"



All the staff must know the location of:

- Portable oxygen with masks/cannulas
- Bag-Valve-Mask with airways
- Automatic External Defibrillator
- Emergency drug kit
- Portable suction
- Emergency lighting source

Staff Training

- Current BLS training
- Task designation: 2 groups, action + support
- Mock simulations:
- → shorter time (15 min.)
- → higher frequency (2 mo.)
- → repetition, repetition, repetition

Staff Training

- **Recommendation:**
- Can you discover, privately, without embarrassment who is and who may not be prepared for an assigned duty before an event, not during.



Every 2 Months: Syncope

for **15** Minutes: **Syncope**

COZI Family Ste. Simplified.



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September

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24	30					

Syncope Algorithm

Position, ABC's Time, Time, Time

Always! O₂ by nasal cannula 4 litres/minute + Glucose





Medical Consultation



MUST HAVE A GAME PLAN!

- **1.** Dental treatment risk/benefit
- Contemplated medications in mg. or μg.

MD scrawling "BP is 240/120 but OK for dental treatment" on Rx pad is <u>NOT</u> a mandate!

EMERGENCY KITS

Ready made?

Self assembled?

Acme[™] Dental / Medical Kit



Pharmacodynamics: Age/Risk

PEDIATRIC CONSIDERATIONS

SENIOR CITIZEN

"AVER-AGE" PATIENT

Physical Classifications - ASA

- **ASA I** normal, healthy
- ASA II mild systemic disease
- **ASA III** severe multiple systems, medication
- **ASA IV** severe disease, threat to life
- **ASA V** won't survive without operation
- **ASA VI** brain dead, alive for organ transplant
 - **E** operation modification e.g. ASA III-E

Why does Morbidity – Mortality "target" **CHILDREN?**



Although inaccurate, a "child" in our society is usually defined as up to 12 years old.

A "bad day" will usually happen because of lack of respect of their airway...



Pediatric Considerations

C.V.S / C.N.S:

THE 2 MOST IMPORTANT Physiological Considerations IN PEDIATRIC RESCUE are:

High **MYOCARDIAL** O₂ Consumption High BRAIN O₂ Consumption

Pediatric Considerations

C.N.S:

The CPR / BLS guideline of:

"3 – 6 minutes until permanent brain damage begins" is for the adult without an O₂ debt and does <u>NOT</u> apply in pediatric life."

IT'S MORE IN THE ORDER OF <u>1 MINUTE</u>!
Pediatric Considerations

Drug (local anesthetic) impact:

- Unpredictable
- Blood Brain Barrier is immature
- **V** Metabolism due to immature liver

Pediatric Considerations

COMMUNICATION DIFFICULTIES

Questions

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Airway,

A Few Good Adjuncts,

Oxygen and

Vasoconstrictors



MANAGEMENT OF AIRWAY

Actions & Armamentarium



Airway Obstructions: The Conscious Victim

Airway Considerations

- Know Each Patient's Airway
- Always Maintain Patency
- Head Position
- Clear Debris
- Use Throat Partitions
- Use Rubber Dam When
 Possible

Equipment Adjunct Management

It would be ideal to be able to use the emergency armamentaria in day-to-day dentistry, for cost efficiency, familiarity and for practice!

"Mouth Rester"... not a prop





Disposable Laryngoscope

NO. 60500 ILLUNINATOR FOR WELCH ALLYN GESPOLABLE LANTINGOROOFE

"A tongue depressor with a light on it"

Magill Forceps

Serated, circular tips, double lumen



Disposable "long saliva ejector"

...with a screen tip that doesn't come off



Airway Obstructions: The Inconscious Victim





Oral Pharyngeal Airway

Size? Angle of Mandible to Corner of Mouth

STARTING POSITION Airway is inserted backwards...

and rotated into position



CRICOTHYROTOMY Old and New Ideas

Cricothyroid Membrane Puncture for Tracheal Access

THYROID CARTILAGE

CRICOID CARTILAGE -

THYROID GLAND

CRICOTHYROID

Cricothyrotomy What you really need to know about old and new ideas of cricothyrotomy **is**...

Cricothyrotomy



MANAGEMENT OF BREATHING

Actions & Armamentarium



Oxygen Sources

- Portable tanks (Stem & Wrenches)
- Central tanks
 - Regulators and Components
 - Flow meters

Flow meter:

0-15 liters/min

Full: 2000 PSI

Nasal Cannula - Disposable

02

4 l/ min

Non-rebreathing Mask (NRB)

6-10 I/min

02

Bag-valve-mask Systems (B.V.M.)

Bag Valve Mask (BVM)

Inflatable Mask (use 10 cc. syringe – air) Can be used IF breathing

One way valve- once sealed no need to lift edge of mask for exhalation

2-3 I. bag

Transparent mask – can see regurgitation

Supplemental O₂ with reservoir at 10-15 liters/minute



Demand Valve

NOT Recommended

OXYGEN

Questions

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MANAGEMENT OF CIRCULATION

Actions & Armamentarium



Vasoconstrictor Considerations

VASOCONSTRICTOR "ISSUES"

or

Truths, Lies and Consequences

Vasoconstrictor Considerations

A. Use is based on vasoconstrictive alpha receptor agonists

- 1. Delays absorption, reducing toxicity and prolonging duration No Advantage With
 - Concentrations > 1:200,000
- 2. Reduces hemorrhage at surgical site (CONCENTRATION IS ADVANTAGEOUS IN THIS CASE)

Vasoconstrictor Considerations

Adrenergic alpha receptor functions and vascular distribution



β₂ → Vasodilation + Bronchial dilation






True or False

With most heart conditions, the most serious medical-dental risk for dental treatment is the **Vasoconstrictor**.



A. Epinephrine is <u>not</u> safe for the hypertensive patient

True or False?

Cardiovascular Influences Prototypic Catecholamines





EPINEPHRINE

он

Goodman & Gilman's 1996

Selecting a Vasopressor

- Epinephrine for Hypertensive Patients
- Levonordefrin if Tachycardia is Concern
- Both Increase Myocardial Oxygen Demand

Epinephrine Heart Rate Levonordefrin Blood Pressure

Vasoconstrictors

B. When anesthetizing children – do not use epinephrine. Use a plain non-epi containing solution

True or **False**?

Dentists are responsible for safety!

Parents are responsible for lip / tongue biting

Vasoconstrictors

Why? **Epinephrine delays** absorption, reduces toxicity and safely allows for $1 \frac{1}{2} X$ maximum dose!

"MRD" or Maximum Recommended Doses

DRUG	Vasoconstrictor	No Vasoconstrictor
Articaine 4%	500 mg	300 mg
Lidocaine 2%	500 mg	300 mg
Mepiva 3%	500 mg	300 mg
Prilocaine 4%	600 mg	400 mg
Bupiva 0.5	150mg	75 mg

* For healthy 70 Kg adult –must adjust for age and weight

Hawkins, M - various sources, 2017

How many 'carps' ?

Maximum Doses

Drug	Maximum Dose	# "Carps"
Articaine 4%	7 mg/kg (up to 500 mg)	7
Bupiva .5%	2 mg/kg (up to 200 mg)	10
Lidocaine 2%	7 mg/kg (up to 500 mg)	13?10?
Mepivac 3%	7 mg/kg (up to 400 mg)	9 *
Prilocaine 4%	8 mg/kg (up to 500 mg)	7

Hawkins, M - various sources, 2017

Vasoconstrictors

C. Epinephrine and antidepressants do <u>not</u> interact (except *POSSIBLY* with tricyclics?)

True or False?

CLASS: MONOAMINE OXIDASE INHIBITOR

GENERIC NAME	TRADE NAME
Phenelzine sulfate	Nardil®
Tranyleypromine sulfate	Parnate®
Isocarboxazid	Marplan (U.S. only)®

Local Anesthetic/Vasoconstrictor Precautions: None, since both epinephrine and neocobefrin are metabolized by COMT, not MAO

CLASS: TRICYCLICS

GENERIC NAME	TRADE NAME
Maprotiline hydrochloride	Ludiomil [®] Novo-Maprotilinel [®]
Trimipramine maleate	Apo-Trimip [®] NovoTripramine [®] NuTrimipramine [®] Rhotrimine [®] , Surmontil [®]

Local Anesthetic/Vasoconstrictor Precautions:

Use with caution; epinephrine and levonordefin have been shown to have an increased pressor response in combination with tricyclics. Clinically may only be seen in higher doses.

CLASS: SELECTIVE SEROTONIN REUPTAKE INHIBITORS

GENERIC NAME	TRADE NAME
Fluoxetine hydrochloride	Prozac®
Fluvoxamine maleate	Luvox®
Paroxentine hydrochloride	Paxil®
Sertratine	Zoloft®

Local Anesthetic/Vasoconstrictor Precautions: No interactions have been reported with vasoconstrictors

CLASS: MISCELLANEOUS

GENERIC NAME	TRADE NAME
Nefazadone hydrochloride	Serzone®
Venlafaxine hydrochloride	Effexor®
Buspirone hydrochloride	BuSpar®

Local Anesthetic/Vasoconstrictor Precautions: No precautions appear necessary

Vasoconstrictors

D. Non-selective β-blocked patients are a relative precaution only. All other β-blocker categories are fine **True** or **False**?

Vasoconstrictor Considerations

Adrenergic alpha receptor functions and non-selective β blockade (e.g. Inderal[®])



BETA-ADRENERGIC BLOCKERS

Sympathomimetics epinephrine

(a) Cardioselective	"alright" β 1 blocked only	
Atenolol	Tenormin®	
Metoprolol	Betaloc [®] Lopressor [®]	
(b) Noncardioselective	"beware" β 1,2 both blocked	
Nandolol	Corgard®	
Propranolol	Inderal®	
Sotalol	Sotacor®	
(c) Noncardioselective and alpha blocker		
Labetalol	Trandate®	
	"cool"all blocked	

Non-Beta Blocked Patients (15 ug Epinephrine I.V.)



Mulroy MF, Regional Anesthesia 1989

Beta Blocked Patients (15 ug Epinephrine I.V.)



Mulroy MF, Regional Anesthesia 1989



Case Report #1









Managing Beta Blocked Patients

No issue with cardioselective agents, (a) category BUT Propranolol and others in the nonselective, (b) category

WHAT TO DEFINITELY DO!

- 1. Look it up on line
- 2. Wait 5 minutes after each cartridge and reassess vitals

Managing Beta Blocked Patients

WHAT TO POSSIBLY DO?

- 3. Avoid using a vasopressor if (b) category
- 4. Consult physician regarding discontinuing (b) beta blocker or changing it to a cardioselective (a) beta blocker

Hypertension Algorithm



EMS transport if symptomatic

Vasoconstrictor Summary:

- A. Epinephrine is <u>safe</u> for the hypertensive patient
- B. When anesthetizing children use epinephrine. It delays absorption, reducing toxicity
- **C. Non-selective** β-blocked patients are a *relative* precaution only
- D. Epinephrine and antidepressants do <u>not</u> interact (tricyclics?)

Questions

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Looking at the "Drug"



Local Anesthetic DOSAGES



POSOLOGY

Any "%" solution needs to be expressed as:

mg/cc (ml)



POSOLOGY

In 2 % lidocaine, for example:

2%, add 0 = 20 mg/cca cartridge of 1.8 cc = 36 mg

Maximum Doses

Drug	Maximum Dose	# "Carps"
Articaine 4%	7 mg/kg (up to 500 mg)	7
Bupiva .5%	2 mg/kg (up to 200 mg)	10
Lidocaine 2%	7 mg/kg (up to 500 mg)	13?10?
Mepivac 3%	7 mg/kg (up to 400 mg)	9 *
Prilocaine 4%	8 mg/kg (up to 500 mg)	7

Hawkins, JM: various sources compiled 2017

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Prilocaine 4%	600 mg	400 mg
Bupiva 0.5	150mg	75 mg

* For healthy 70 Kg adult – must adjust for age and weight



Factors:

3% mepivacaine PLAIN

Adult: 7 mg./kg = 490 mg. = 9 cartridges

Age 12-18 yrs: 6 mg./kg = 330 mg. = 6

Age 6-12 yrs: 5 mg./kg = 200 mg = 3.5

Age < 6 yrs: 4 mg./kg = 100 mg = < 2

Hawkins, JM: various sources compiled 2017



Factors:

2% lidocaine 1:100,000 epi Adult: 7 mg./kg = 490 mg. = 13 cartridges Age 12-18 yrs: 6 mg./kg = 330 mg. = 8.5 Age 6-12 yrs: 5 mg./kg = 200 mg = 5.5

Age < 6 yrs: 4 mg./kg = 100 mg = 3

Hawkins, JM: various sources compiled 2017



Scenario:

1. Good child © 2. Financial 3. L.A. is just "water"

4. Bell curve

Dr. Norman Treiger, DDS, MD Montefiore Hospital, the Bronx, NY



Case: @ 55 lb 7 y.o. O (25 k.g.) Administered: 11 CART 2% LIDO 1:100,000 EPI



Dr. Norman Treiger, DDS, MD Montefiore Hospital, the Bronx, NY




Size: 1/3 of adult Physiology of a child vs. adult M.R.Dose = 133 mg. or no more than ~ 3.5 cartridges!

4. <u>BUT</u> adjust for physiology to 4 mg./kg. So...M.R.D. = 100 mg. or < 3 cartridges

Dr. Norman Treiger, DDS, MD Montefiore Hospital, the Bronx, NY

RESULTS:

Dr. Norman Treiger, DDS, MD Montefiore Hospital, the Bronx, NY

QUESTIONS?







Defibrillation,

Drugs and

Diagnosis



Racketball... Readiness?.. and Rescue Attempt...

THE VITA SIGNS Pulse Pupils Breathing



CONSTRICTED



DILATED



Victim Must Be **On "Firm"** Surface ???





Resusitation: Floor Resusci-Anne (n = 50)



Hawkins, M JODA. Jul/Aug Vol 6:28

Dental Chair Resusitation Resusci-Anne (n = 50)



Hawkins, M JODA. Jul/Aug Vol 6:28



One-Touch

\$1245.00 CPR Savers and First Aid Supply[®]





AED Philosophy

AED + ECG

Simple but Sophisticated

\$1999.00 CPR Savers and First Aid Supply®





Let's Do Drugs



Guidelines

What do you need?

DO NOT even THINK of using a drug you know nothing about!



Emergency Medications Responsible Auxiliary:

 Check kit every two months (on mock simulation day) to assure drugs are not expired or broken. Replace as needed.

 Review correct method for preparation in emergency periodically.





OXYGEN





Epinephrine

Various injectors available for anaphylaxis (severe allergy; bee stings, peanuts) and bronchospasm

CHILD / ADULT:

Packs of 1 or 2 vary in price

child: 0.15 mg.

adult: 0.3 mg.

*until you can draw up from an amp.



Epinephrine

Equi-potent doses: (1ml 1:1000 amps) by route of administration:

- SC 0.5 mg
- IM 0.3 mg.
- IL 0.2 mg.
- IV 0.1 mg. must dilute 1:10,000

If patient has air exchange: B-2 inhaler: albuterol







EPIPEN^{®*} for anaphylaxis (severe allergy; bee stings, peanuts) and bronchospasm

CHILD / ADULT: EpiPen 2-Pak[®]: child: 0.15 mg..... \$279.06 adult: 0.3 mg.... \$ 279.06

*until you can draw up from an amp.



Nitroglycerin

Action is unclear: SL administration \Rightarrow vasodilation result in a reduced venous return, or preload reduction, lowering myocardial O₂ consumption.

Indications: Ischemic chest pain - 1 tab Q5M x 3 Symptomatic hypertensive episodes Dose: 0.3-0.6 SL mg. tabs / 0.4-0.8 SL spray

Warning: do not give another "nitro" if SBP < 90

\$9.00 / 100

Expiration date must be "Sharpied" to 8-10 weeks from "today's seal breaking"



\$32.00

Nitrolingual® Pumpspray but

... expiry date S the expiry date







Giving the maximum as a 325 mg. tablet is OK but...

ASA (for MI)

325 mg. = peak effect

It's best via 4X baby ASA (81 mg.) chewed, aside from, and over and above prophylactic use

ASA (for MI)

325 mg. = peak effect

Action: Keeps # of platelets from increasing, which could lead to further coronary artery blockage or if cerebral blockage, **STROKE!**



Albuterol - β2 agonist Inhaler: Inhale 1 to 2 puffs of albuterol up to 4 times daily.

More than 8 inhalations per day is not recommended.



N

Albuterol -Ventolin[®] -

β2 agonist

AUTOR

IAXA



Diphenhydramine

- Action and effect based on blocking histamine release
- Indications / Dose: (50mg/ml amp or SDV)
 - pruritus / urticaria / nausea
 - 50mg IM followed by 50mg TID P.O.
 - medical follow up to anaphylaxis
- THINK FIRST! Can they get a ride?





ALL dental offices have a massive sugar availability in house!



Questions

-2

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Diagnosis Dependent Treatments



- Sudden, transient loss of consciousness
- Common immediately pre- or post injection
- Most common procedure extraction
- Often recovery before advanced treatment can be implemented

Syncope Profile of Prevalence

- Male » Female
- Never in children
- Average age? 35 years old
- Scenario: Male, 35 y.o., anxious, "macho" guy,

"needlephobic"

Syncope Signs/Symptoms

- Pallor
- Nausea
- Disorientation
- Loss of Consciousness
- Blood pressure
- Pulse thready, may arrest 30-45 sec.
- Low blood sugar

Syncope Causes

- Anxiety, Pain
- Sit up too fast
- Inject too fast
- Intraosseous injections
- Hypoglycemia (prolonged NPO)



Position, ABC's Time, Time, Time

Always! O₂ by nasal cannula 4 litres/minute + Glucose





Nausea / Vomiting

...associated with syncope



Signs / Symptoms:

- Rapid, shallow breaths, "air hunger"
- Impaired inspiration / expiration
- Sense of panic
- Disorientation
- O_2 saturation = 100%



It's Showtime!

Hyperventilation Treatment

- Rebreathe from paper bag?
- Do nothing and leave room?

*Nobody has ever died from a 100% oxygen saturation!



- Pallor, chest pain in "waves"
- "Indigestion?"
- Denial
- Midsternal pain, left arm, left mandible
- Nausea, diaphoresis
- Rapid, shallow breathing,
- R_x 1 nitroglycerine tablet or 2 sprays



- Female: "weight on chest" / indigestion?
- mild shortness of breath (SOB), nausea
- Male: chest pain, sharp, severe, left arm
- **↑** SOB, **↑** BP (pain)
- Panic, fear, but denial
- Rapid, shallow breathing



Angina / MI Algorithm

Syncope Protocol Nitroglycerin q. 5 min x 3 Assume MI / Call EMS

Cardiac Arrest

- Marked hypotension
- Rapid, shallow breathing

 LOC
- Apnea
 cyanosis = respiratory arrest
- Fibrillation = no pulse
- AED gives diagnosis and action



Syncope Protocol

100% Oxygen → 1 - 2 mg epinephrine





Asthma and Severe Allergy

Signs/Symptoms



Bronchospasm Algorithm

ABC's & Position Oxygen **B-2** inhaler **BUT if not exchanging air:** epinephrine 0.3 mg



DEFINITIONS:

• Seizure: "Fibrillation of the CNS"

 Convulsion: "Fibrillation of the CNS" with Motor Nerve activity added



Protect Patient, Protect Yourselves!

If status seizure: EMS/PPV







Flumazenil



NDC 0004-6911-06 **Romazicon®** (flumazenil) Injection

0.5 mg/5 mL

10 Vials (5 mL Size)

5 mL Multiple-Use Vials (0.1 mg/mL) For I.V. Use Sterile Ronly

Genentech

Romazicon®



In The <u>Dental Office</u> or <u>Witnessed</u> at home



- Primary assessment is in front of you or in the history
- Activate EMS, 911
- Assign, Designate

<u>Unexplained, Unwitnessed,</u> <u>Unconscious</u>



Primary assessment

 Call for HELP, get to a phone even if it's you that has to leave

 No medical history, no relatives, no knowledgeable friends



- Look for MEDIC ALERT bracelet or necklace
- Read allergies, medical conditions
- Phone emergency hot line # on MEDICAL ALERT tag, quote victim's ID #
- Medical history will be given 24 / 7 by phone

Questions

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Medical Emergencies in the Dental Office, Medical Emergencies in Life !

The New Hampshire Dental Society

Concord, NH Friday, November 9th, 2018 Mel Hawkins, DDS BScD AN Dentist/Dentist Anesthesiologist Toronto, ON Canada