

Student Version:

EPINEPHRINE

DEH 2300
Valencia Community College
July, 2005-2014
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EPINEPHRINE

• ACTIONS

- Cardiac stimulation
- Increased blood flow to skeletal muscles
- Peripheral vasoconstriction
- Bronchodilation
- Dilation of pupils (mydriatic action)

EPINEPHRINE

• INDICATIONS

- Cardiac arrest
- Elevating blood pressure in shock
- Constricting capillaries
 - Applied topically to relieve nosebleed or nasal congestion
 - Combined with local anesthetics for minor surgery
- Dilating bronchioles in acute asthmatic attacks, bronchospasm or anaphylactic reaction
- Ophthalmic procedures (mydriatic agent)
- **Dental procedures**

EPINEPHRINE

• Adverse reactions / Side effects

- Palpitations
- Nervousness / tremor
- Tachycardia
- Cardiac dysrhythmias
- Anginal pain
- Hypertension
- Tissue necrosis
- Hyperglycemia
- Headache
- Insomnia

EPINEPHRINE

• CONTRAINDICATIONS (or extreme caution)

- Angina
- Coronary insufficiency
- Hypertension
- Cardiac dysrhythmias
- Closed-angle glaucoma
- Organic brain damage
- Hyperthyroidism

EPINEPHRINE

• INTERACTIONS (numerous)

- CNS meds
 - Alcohol
 - MAOI's
 - Antidepressants
- Beta-blockers
- Caffeine

EPINEPHRINE

- **ROUTES OF ADMINISTRATION**
 - **SC(subcutaneously)**
 - IV (intravenously)
 - **Inhalation**
 - Intracardiac
 - Endotracheal
 - **Topical**
 - Intraspinal
 - **With local anesthetics**

EPINEPHRINE

- **BRAND NAMES**
 - Adrenalin®
 - Ana-Guard®
 - EpiPen®
 - Primatene®
 - Sus-Phrine®
 - Numerous others
- **Examples . . .**

REVIEW:

– Pages 1558-1561, *Drug Information Handbook for Dentistry* by Wynn, et.al. in the 19th Edition.

- **ORAL PAIN PREVENTION, LOCAL ANESTHETICS and PAIN MANAGEMENT**