

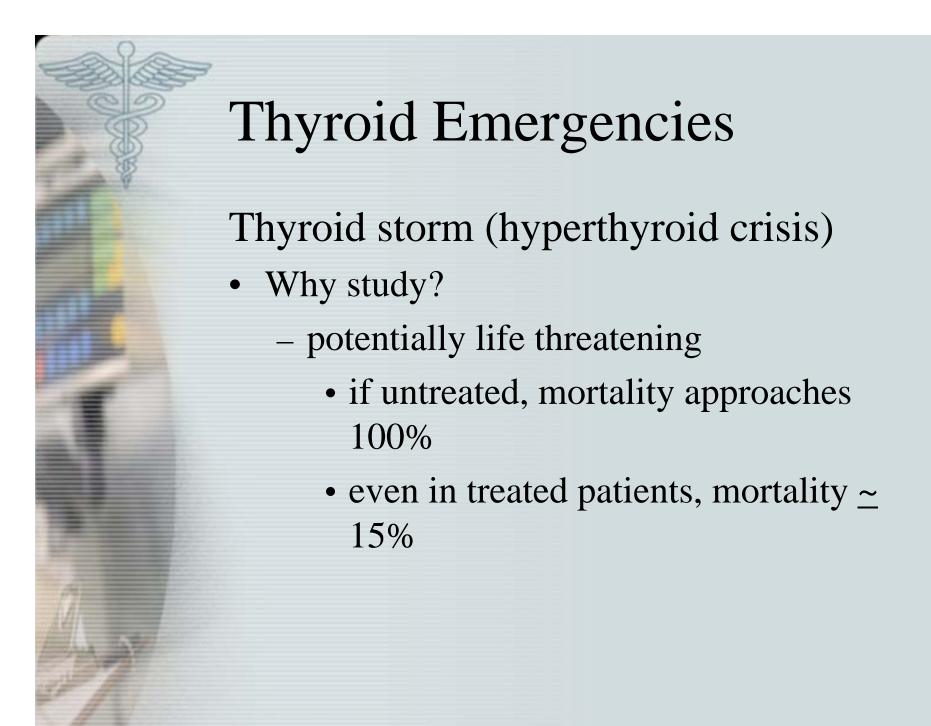


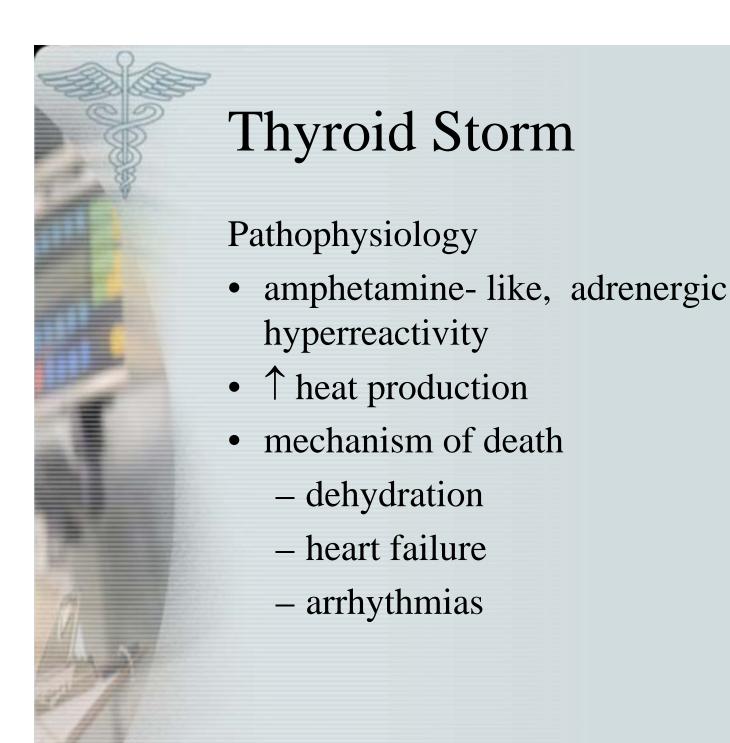


Alcoholic Ketoacidosis

AKA Treatment

- A / B
- C
 - $-M_3$
 - large bore IV
 - blood draw ; D-stik
 - Thiamine \geq 100 mg IV
 - D₅ W NS * (or D₅₀ W, push, if indicated)
 - * add 50cc of D_{50} to 1000 cc of NS

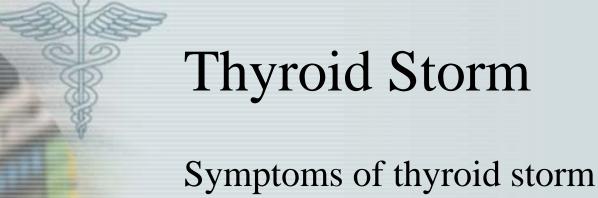






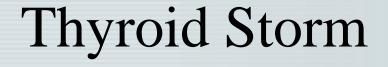
Thyroid Storm

- Epidemiology
 - Ratio of female: male is 9:1
- Causes
 - drug related(insulin / cocaine / PPA / iodide / "x-ray dye")
 - emotional stress
 - new stress in a patient who already has Graves
 - CVA, MI
 - pulmonary embolism
 - infection
 - the most common cause of storm
 - pneumonia is the most common infection



- often unobtainable from patient
 - family states:
 - "her nerves," ... "she's crazy"
- Fever
- Tremor
- Weakness
- "can't sit still"





Signs of thyroid storm

- VS/M_3
 - $-\uparrow T^0 (100-106^0)$
 - THR (120-300) (often irregularly irregular)
- GEN
 - agitated
 - sweaty



Tx of thyroid storm

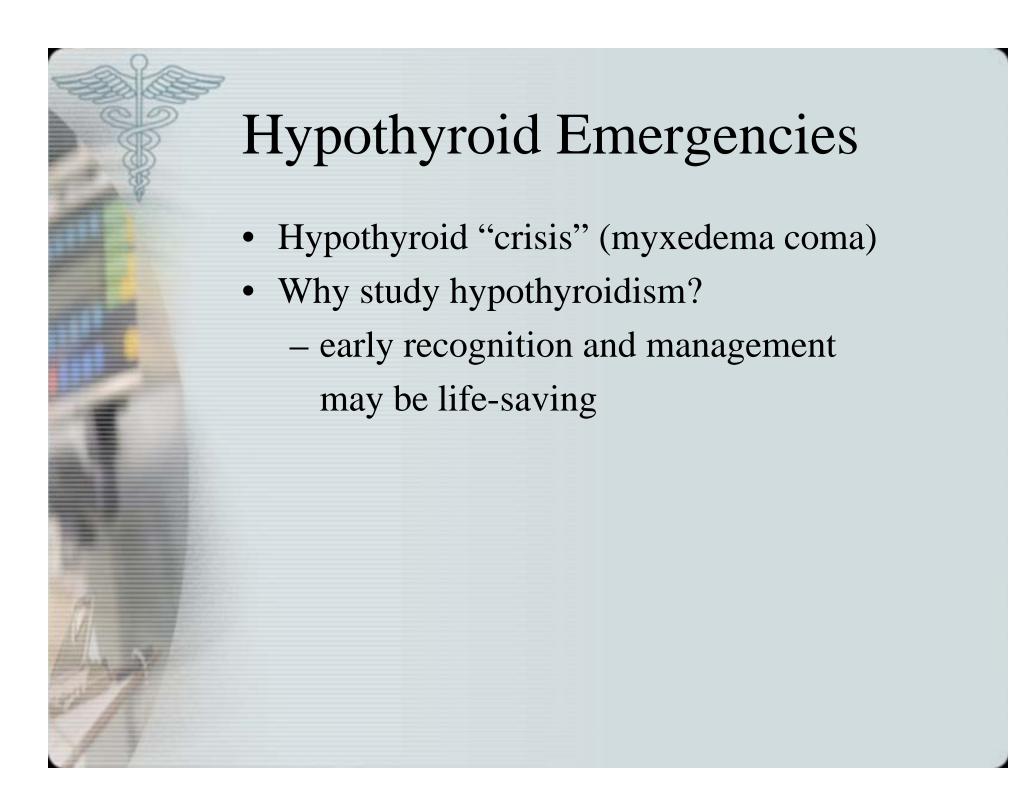
- A / B- high flow O2
- C # 16 IV, NS, rapid drip (if + postural signs are present)
 - monitor
- D
 - Dexamethasone¹ 4mg IV
 - Propranolol 1mg/min IV ^{1,2,3,4} (and 1 mg q
 15min, up to 10mg)
- Avoid
 - ASA
 - Atropine
 - Altering LOC "sedatives" (Antihistamines)



Thyroid Storm

1,2,3,4 hormone blockade treatment

- block formation of new hormone
- block hormone's adrenergic hyperreactivity
- may be helpful in slowing uncontrolled ventricular rate in AF
- Beta blockers
 - often considered contraindicated in CHF,
 but here may be used cautiously





Pathophysiology of hypothyroidism

- retarded metabolism
 - respiratory failure
 - $-\downarrow T^0$
 - ↓ glucose
 - − ↓ mental status

Clinical setting

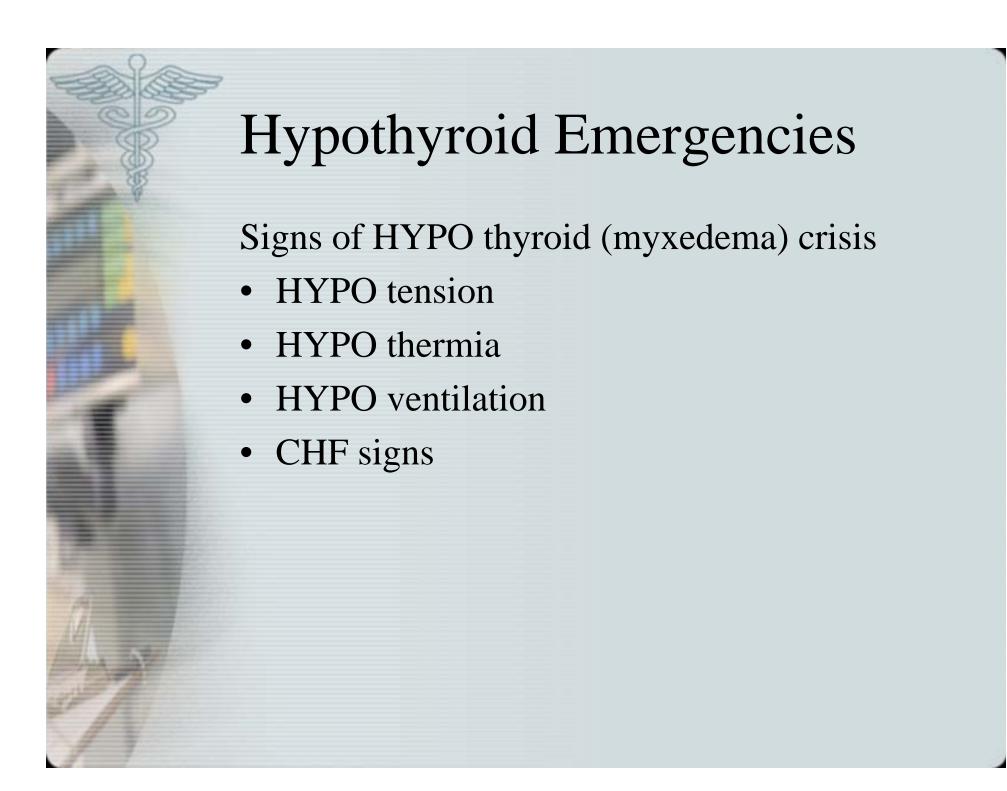
- elderly
- infection

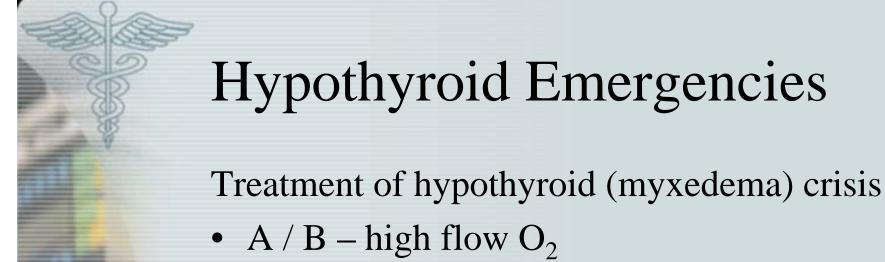


Hypothyroid Emergencies

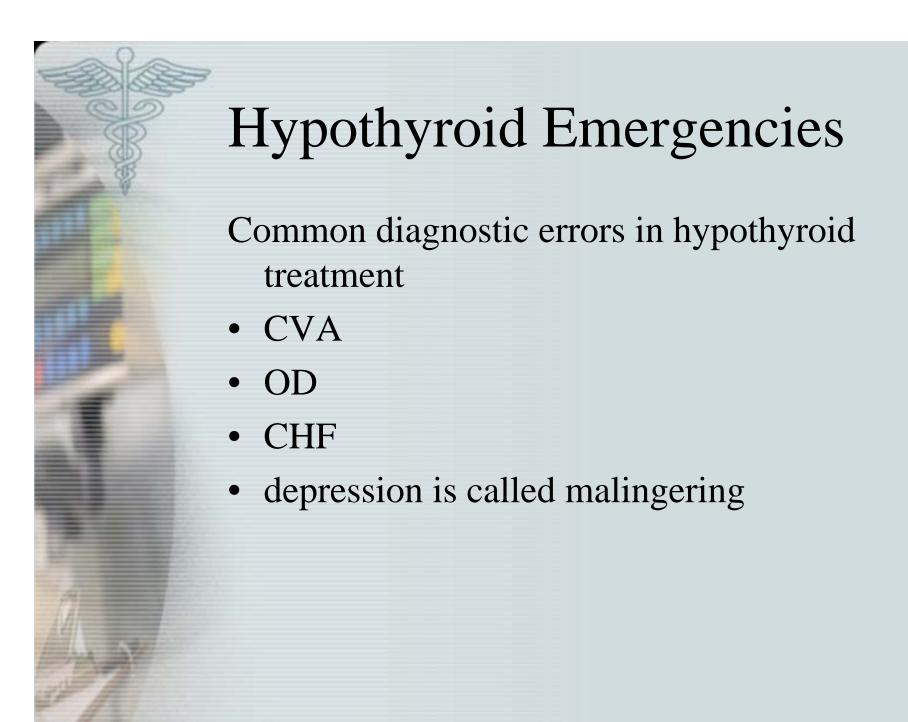
Symptoms of hypothyroid (myxedema) crisis

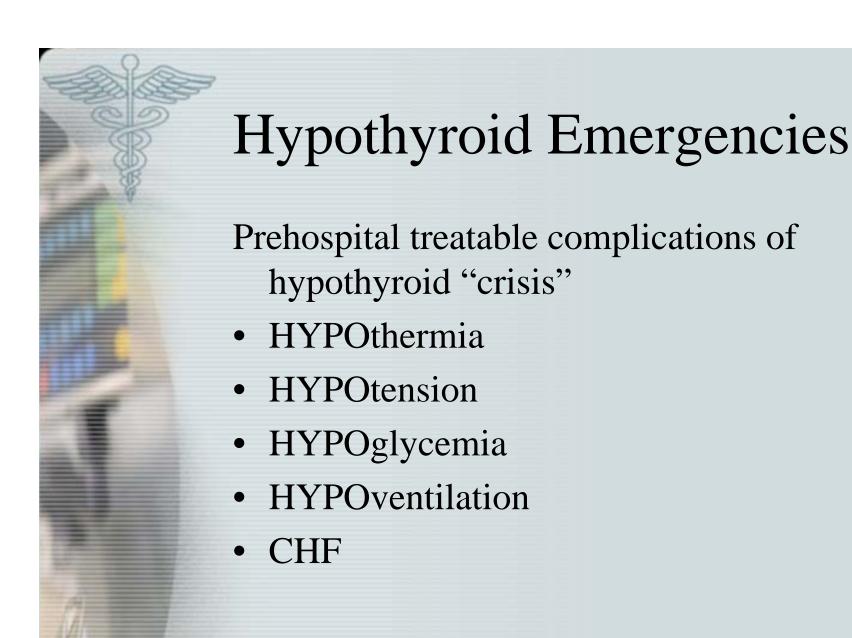
- Early: non-specific
- Late:
 - CNS Sx
 - disorientation ↔ coma
 - seizures
 - lethargy
 - CHF Sx





- C
 - Monitor₃
 - #16 IV, NS
- $D D_{50}W$ 50 cc IV (if indicated)

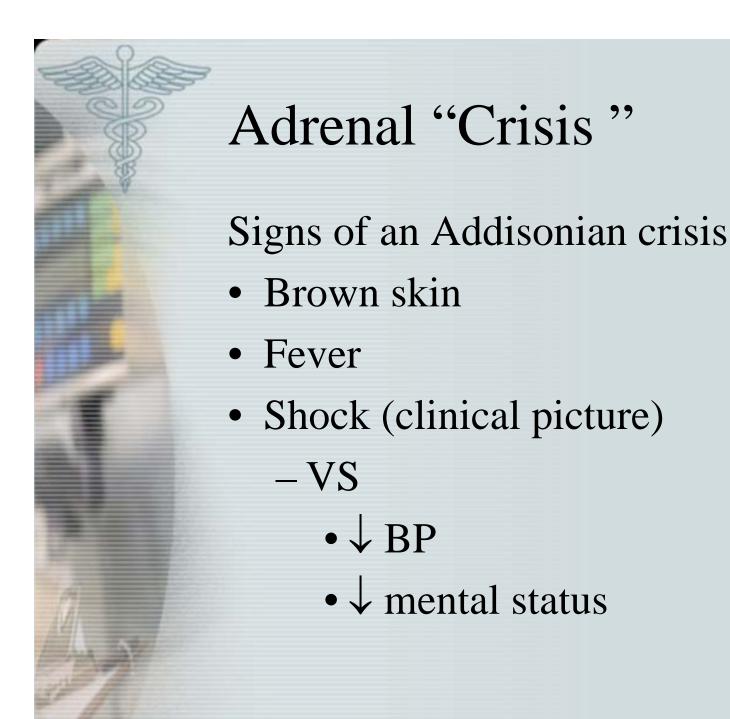






Adrenal "crisis" (adrenal insufficiency), also called "Addisonian crisis"

- Symptoms of adrenal crisis
 - History of Addison's
 - Anorexia, wt. loss
 - Nausea, Vomiting
 - Salt-craving
 - Weakness
 - Infectious sx (usually the precipitating factor)





Treatment of an Addisonian crisis

- A/B high flow 0_2
- C
 - monitor
 - IV, #16, NS 1000 mL
- D
 - D₅₀W 50cc IV if indicated
 - Dexamethasone 4 mg IV