



MAP = (SBP + 2xDBP)/3

-Fluids, vasopressors as needed

-Most ICH pts are hypertensive, find source if hypotension <u>Hypertensive:</u>

-Increases perfusion pressure, can worsen ICH

-Nicardipine gtt and arterial line to keep SBP < 180

# Foundations Frameworks Management of Traumatic Intracranial Hemorrhage

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# 2. Subsequent Management

# **Reverse Anticoagulation**

-Warfarin: Vitamin K, FFP, Prothrombin Complex Concentrate (PCC)
-Aspirin/Antiplatelets: consider desmopressin; platelets controversial
-Other potential options: PCC, idarucizumab (dabigatran), dialysis (dabigatran)

#### **Increased ICP**

#### Signs/Symptoms:

Cushing's Triad (irregular respirations, HTN, bradycardia), "blown" dilated pupil, AMS -CT showing midline shift, blood, loss of sulci, signs of herniation

## Treatment Options:

-The most important intervention is RAPID early surgical evacuation of space occupying lesions Avoid delays, plan early

-Elevate head of bed to 30°, control pain/sedation

-Hyperventilation to PCO2 30-35 is only an anecdotal temporizing measure, do not use routinely

-Hypertonic Saline

-250 mL 3% over 10 minutes, re-dose as needed

-30 mL 23% "bullet" IV push

-Mannitol: 1 g/kg, potent diuretic, avoid if patient hypotensive

## Seizures

- -Treat all clinical seizures emergently with benzodiazepines
- -Consider EEG monitoring
- -Discuss anticonvulsants with Neurosurgery
- -levetiracetam (Keppra) or phenytoin (Dilantin)