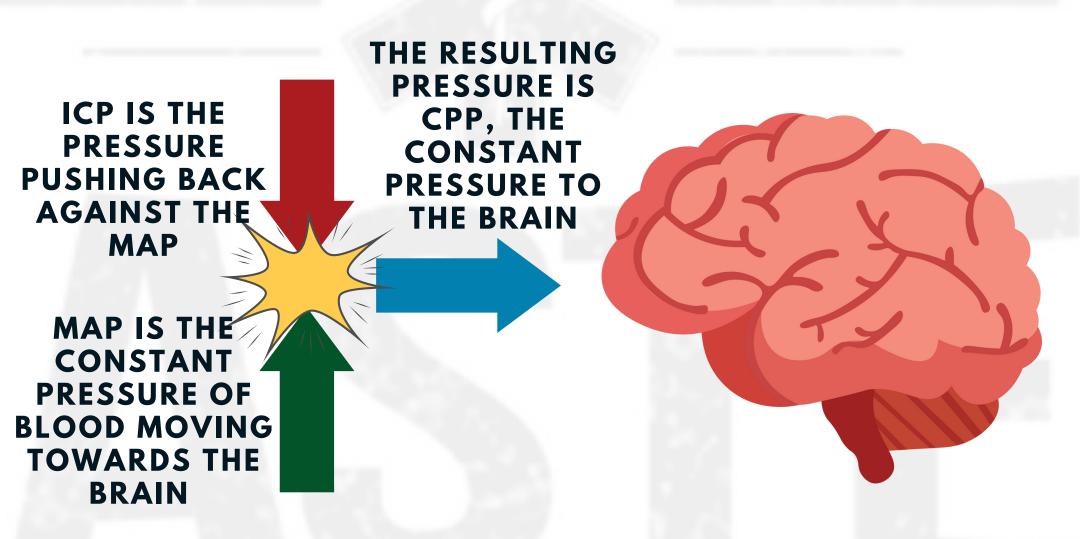


#### HYPERTENSION IN TRAUMATIC BRAIN INJURIES

MEAN ARTERIAL PRESSURE (MAP) - INTRACRANIAL PRESSURE (ICP) = CEREBRAL PERFUSION PRESSURE (CPP)



#### WHAT HAPPENS IN TRAUMA?

TO COMPENSATE THE MAP RISES SO THE CPP DOESN'T CONTINUE TO DECLINE

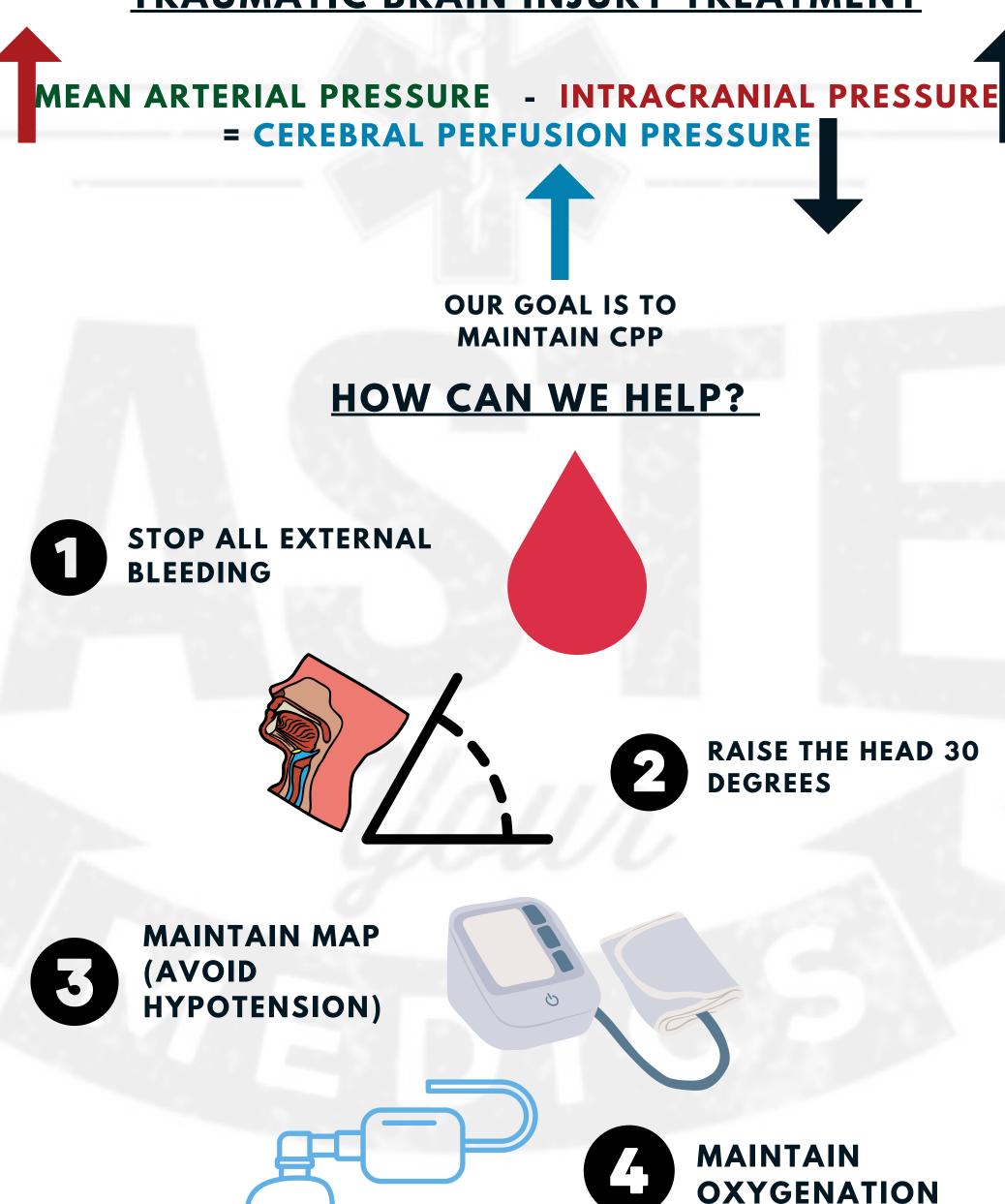


RISES DUE TO
SWELLING AND
ESCAPING BLOOD

MEAN ARTERIAL PRESSURE - INTRACRANIAL PRESSURE = CEREBRAL PERFUSION PRESSURE

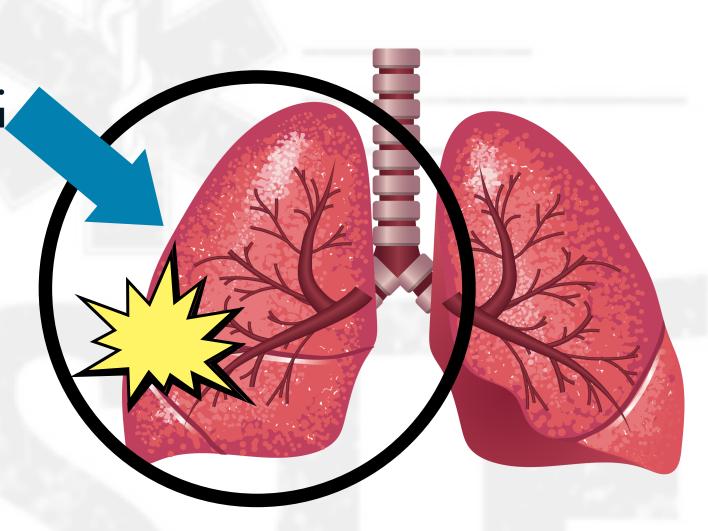
THIS RISE IN ICP
CAUSES A DECLINE IN
CPP

### TRAUMATIC BRAIN INJURY TREATMENT



#### **TENSION PNEUMOTHORAX**

BLUNT OR PENETRATING
CHEST INJURIES CAN
INTERRUPT VENTILATION.
IF THERE IS DESTRUCTION
OF INTERNAL LUNG
STRUCTURE, AIR CAN
ESCAPE INTO THE
PLEURAL SPACE AND
CAUSE A TENSION
PNEUMOTHORAX



#### WHAT TO LOOK FOR

**EARLY SIGNS** 

LATE SIGNS

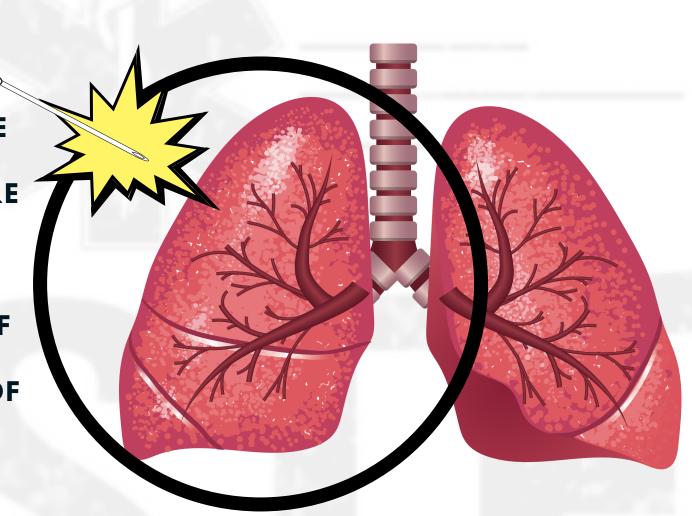
SHORTNESS OF BREATH ALTERED LOC POOR SPO2 TACHYCARDIA HYPOTENSION

JUGULAR VIEN DISTENSION
TRACHEA DEVIATION
PEA ARREST

#### **TENSION PNEUMOTHORAX TREATMENT**

BY DECOMPRESSING WE ARE EVACUATING AIR THAT IS UNDER PRESSURE TO DECREASE TENSION.

YOU SHOULD SEE A **QUICK RESTORATION OF VITALS AND ETCO2** WATCH FOR A RETURN OF **POOR VITALS!** 



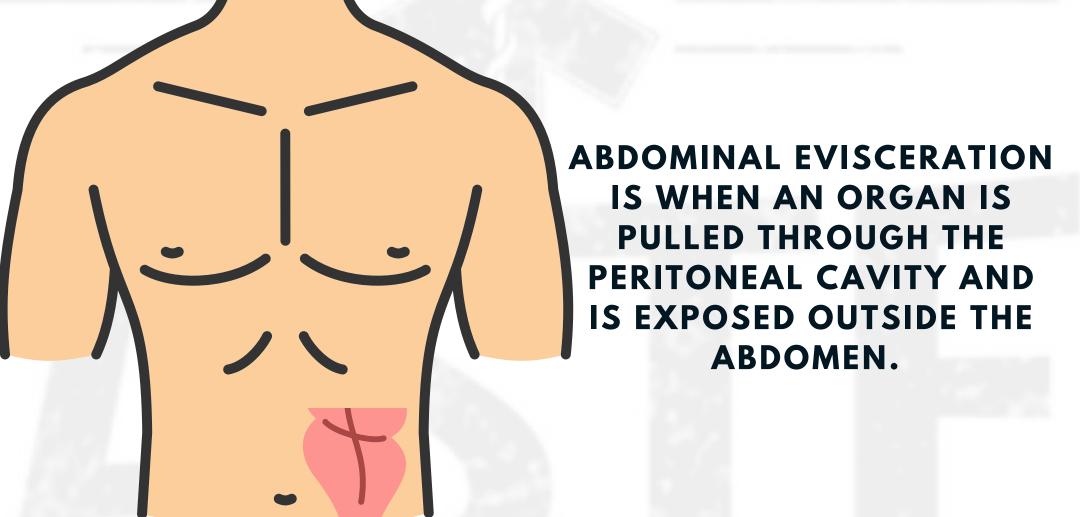
#### **DECOMPRESSION LOCATIONS**



MID **AXILLARY** LINE **BETWEEN 4TH AND 5TH RIB** 

**AXILLARY LINE BETWEEN 4TH AND 5TH RIB** 

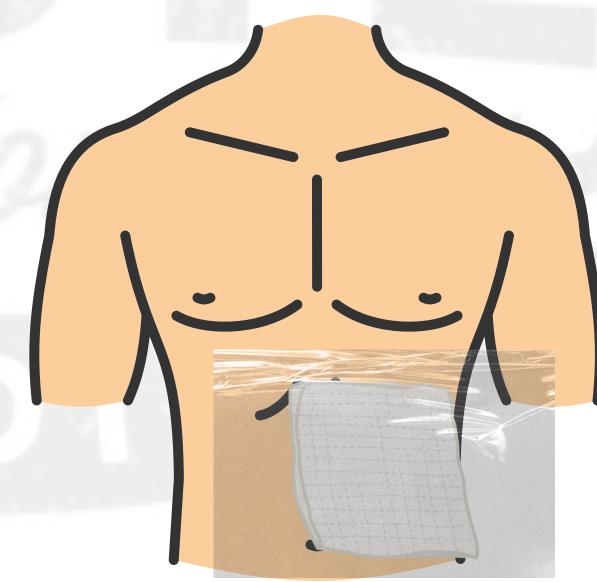
#### **ABDOMINAL EVISCERATION**



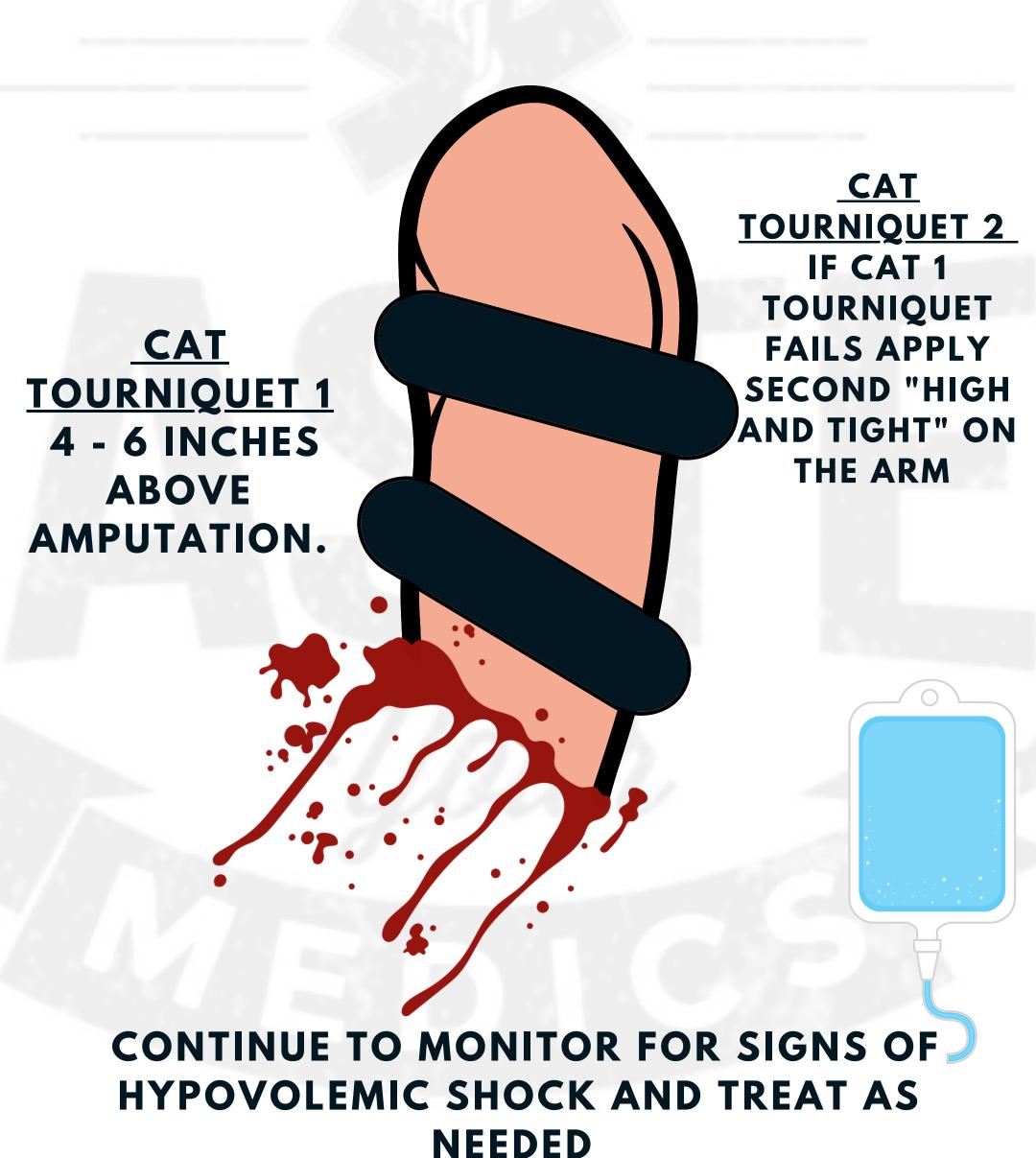
REMEMBER COLD DRY BOWEL!

COVER EXPOSED TISSUE WITH WET GAUZE THEN COVER WITH SOMETHING OCCLUSIVE TO PREVENT DRY OUT.

COVER WITH BLANKET TO KEEP WARM



#### **ARM AMPUTATION**





#### TRIAD OF DEATH

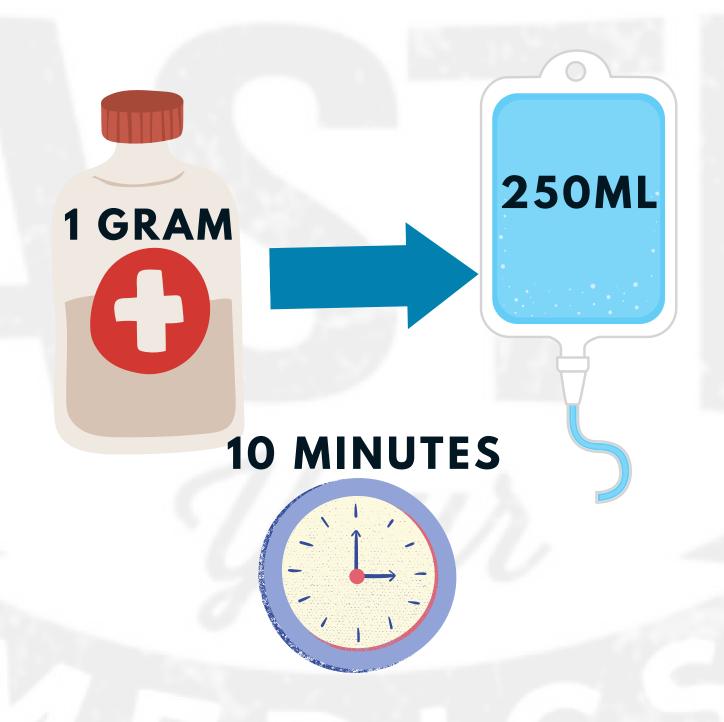
SIC.

## **HYPOPERFUSION**

METABOLIC ACIDOSIS

### TRANEXAMIC ACID (TXA)

CRASH 2 STUDY - WHEN TXA WAS GIVEN WITHIN THE FIRST HOUR FROM TIME OF INJURY, DEATH FROM HEMORRHAGE DECLINED BY 1/3



CRASH 3 STUDY - WHEN TXA WAS GIVEN WITHIN THE FIRST HOUR THERE WAS A STATISTICALLY SIGNIFICANT DECREASE IN INTRACRANIAL HEMORRHAGE BUT DID NOT LEAD TO IMPROVED SURVIVAL OR NEURO OUTCOME

# PATIENT INFO CARD DOWNLOAD

