

EMS role in Injury Prevention:

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By: Jason Martin, RN CEN NREMT-P
Trauma Nurse Clinician
Injury Prevention/Outreach Coordinator
CoxHealth
Springfield, MO

WHERE ARE WE HEADING





WHAT ARE WE NOT TALKING ABOUT!

- Immunizations
- Wound Care
- Labs for drug levels
- Pt check ups
- Dialysis

Much More.....



Injury Prevention

- #1 Killer
- If trauma was a disease...
- Injuries during the lecture
 - 30 Kids on Bikes
 - 10 Kids on Skateboards/Roller-skates
 - 685 reports of child abuse



WE NEED HELP.....

HIV/Aids	16.90%
Cancer	11.10%
Drug Abuse	2.40%
Dental or Oral disease	2%
Diabetes	1.70%
STD	1.50%
TB	1.20%
Kidney Disease	1.10%
Alcohol abuse	0.60%
Parkinson disease	0.50%
MS	0.40%
Asthma	-0.50%
Dementia	-1.80%
Pneumonia	-1.20%
Migraine	-1.20%
Stroke	-1.3
Depression	-2.70%
COPD	-5.80%
Ischemic Heart Disease	-11%
Injuries	-0.12%

Case Study #1

Case #1

4 month child

“On bed happy and moving”

Vomited and stopped breathing

Upon FD arrival – limp and blue

Bagged – color improved

Case #1

Began breathing on her own/Cried

Respirations quickly slowed – became limp again

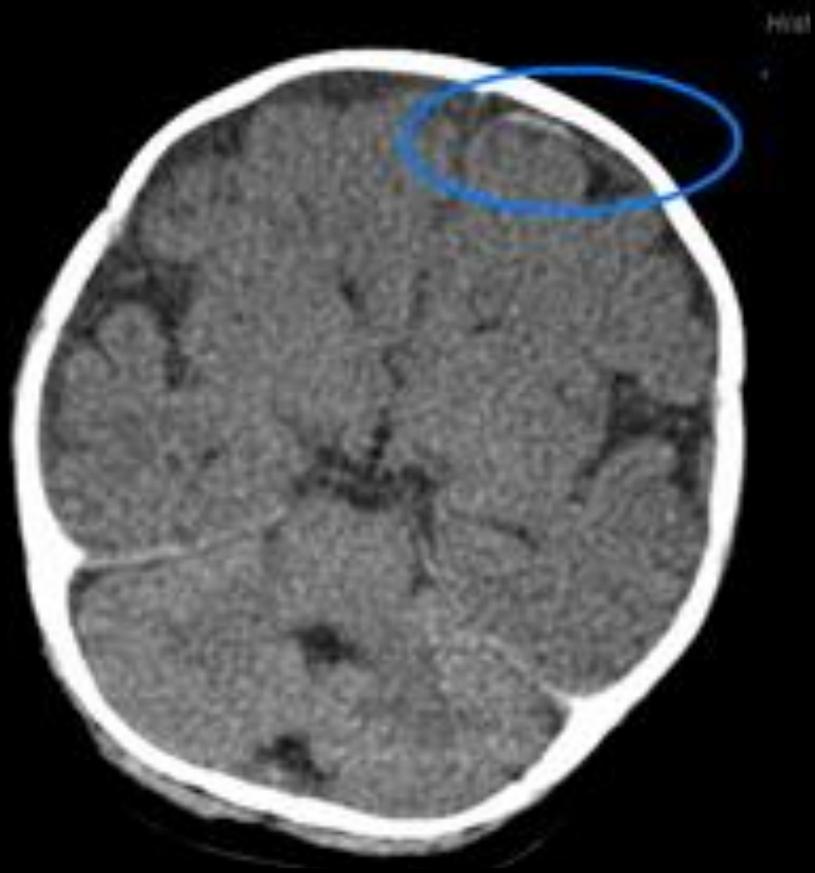
Weak brachial pulse - 120

Case #1

Work up done in ED

CT head showed small amount chronic subdural blood and left frontal – small acute hemorrhage

Retinal hemorrhages noted





WEEKEND EVENTS

- Increased ICP
 - Bulging Font
 - SZ
 - Irritable
 - Mom update on plan of care

WHAT DOES THE FUTURE HOLD?

4 E'S of IP

- EDUCATION
- ENFORCEMENT
- ENGINEERING
- ENVIRONMENTAL MODIFICATION

“The greatest obstacle to discover is not ignorance if
is the illusion of knowledge”

EDUCATION



ENFORCEMENT



ENGINEERING/TECHNOLOGY



TECHNOLOGY
IS A
GIVEN

NOT A
DEBATE

ENVIRONMENTAL MODIFICATIONS

- Eliminations of reduction of risk
- Community based changes in behaviors

ROUNDABOUTS

INFLUENCE COMMUNITY ATTITUDES

BIKE PATHS ON STREETS

CAR POOL LANES

OPPORTUNITY FOR PREVENTION

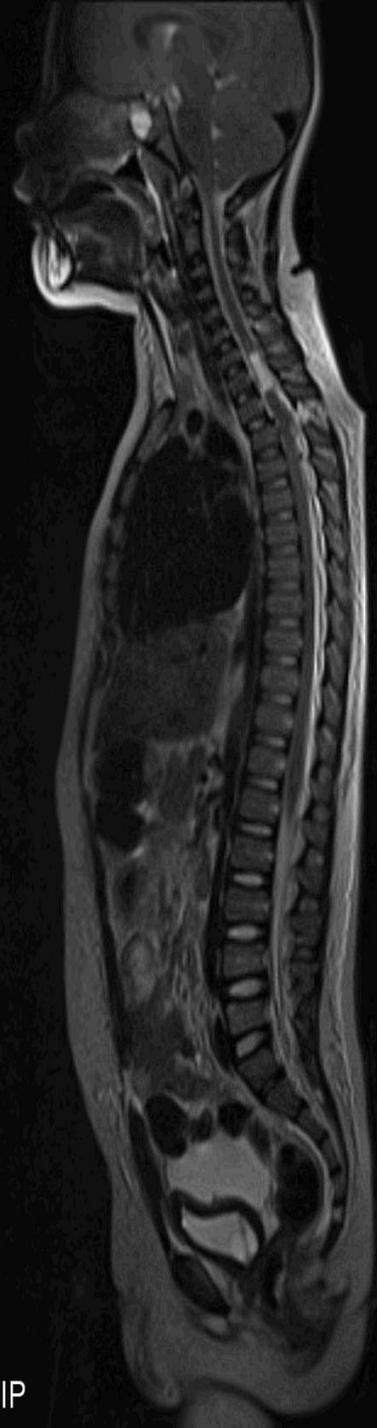
- PRIMARY PREVENTION
 - Seek to totally eliminate incident from occurring (NEVER HAPPENS)
- SECONDARY PREVENTION
 - OCCURS DURING MEDICAL CARE
 - “TEACHING MOMENTS”
- TERTIARY PREVENTION
 - DURING REHABILITATION ACTIVITIES





Case #2

Dispatched to a 2 car MVC on rural road

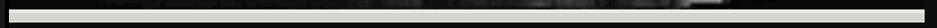




eld ,District,US,ZIP



1, Springfield ,District,US,ZIP





3.8 mm



16.0 mm

31.0 mm

Car Seats: Chad Stickers



CHAD *Children Have An iDentity*

Child's Name		Birth Date	
Address		City	State
Mother		Work Phone	
Father		Work Phone	
Child's Physician		Phone	
Name of Emergency Contact (other than parent)		Relationship	Phone

PLEASE PRINT

Help me grow

WATCH THAT CHILD!





**So what really
happened?**



Mom calls “911” for bleeding from
daughters ear

Mom decides to refuse transport and
call pediatrician

What are some potential causes for
this diagnosis?

Assessment?



Returns to ER 12 days later

C/O throwing up blood

Infant undressed and assessment revealed....

History: MULTIPLE SCRATCHES





After physical exam.....

Skeletal Series

Skull series

Chest xray

CBC/Chemistry/UDS

CT head, Chest Abdomen

Optho exam



Test Results

Multiple bilateral rib fractures

Varies stages of healing

Pancreas laceration

Spleen laceration

Liver laceration

Otitis media with possible mastoiditis

Retinal exam: Negative

GETTING STARTED

- UNDERSTANDING YOUR COMMUNITY
- WHAT PROBLEMS ARE YOU SEEING
- MY PROBLEMS MAY DIFFER FROM YOURS

EXAMPLE

- THE PROBLEM: PHARM PARTIES/SKITTLING....
- WHY IS IT A PROBLEM:
- WHO CARES?:
- MOST BANG FOR MY BUCK:
- SHORT VS LONG TERM:

PLANNING

- Gather people with interest, community leaders
 - People who can get things done
- Meeting on neutral grounds
- Short/long term goal with timelines
 - Plan and create early success
- Media, Media, Media
- Is this problem unique to us?

SHORT TERM

- Started a coalition in a local county
- Got the right people
- Partner with Safety Counsel of Ozarks
 - Grants
- Local businesses
- Community awareness
- Other problems associated

LONGER TERM

- EDUCATION
 - Risky Behavior Program
- LEGISLATION

PRESENTATIONS

- KNOW YOUR AUDIENCE
- AGE APPROPRIATE
- LENGTH FIT THE AUDIENCE
- LEARN IN DIFFERENT WAYS
- PLAN AROUND THE AUDIENCE ABILITY TO UNDERSTAND
- VISUAL AIDS



HELMET PROGRAM

PREVENTION ACROSS THE LIFESPAN

- #1 TRAUMA?
 - FALLS
 - PRESCRIPTION DRUG ABUSE
 - DECREASE IN SENSES
 - OTHER HEALTH CONDITIONS

FALL PREVENTION PROGRAM

ADOPT A NURSING HOME



10 y/o male

Riding ATV, no helmet, lost control striking head
on rock

Awake and Alert, following commands initially
per family and first responders

Upon EMS arrival, decreased LOC

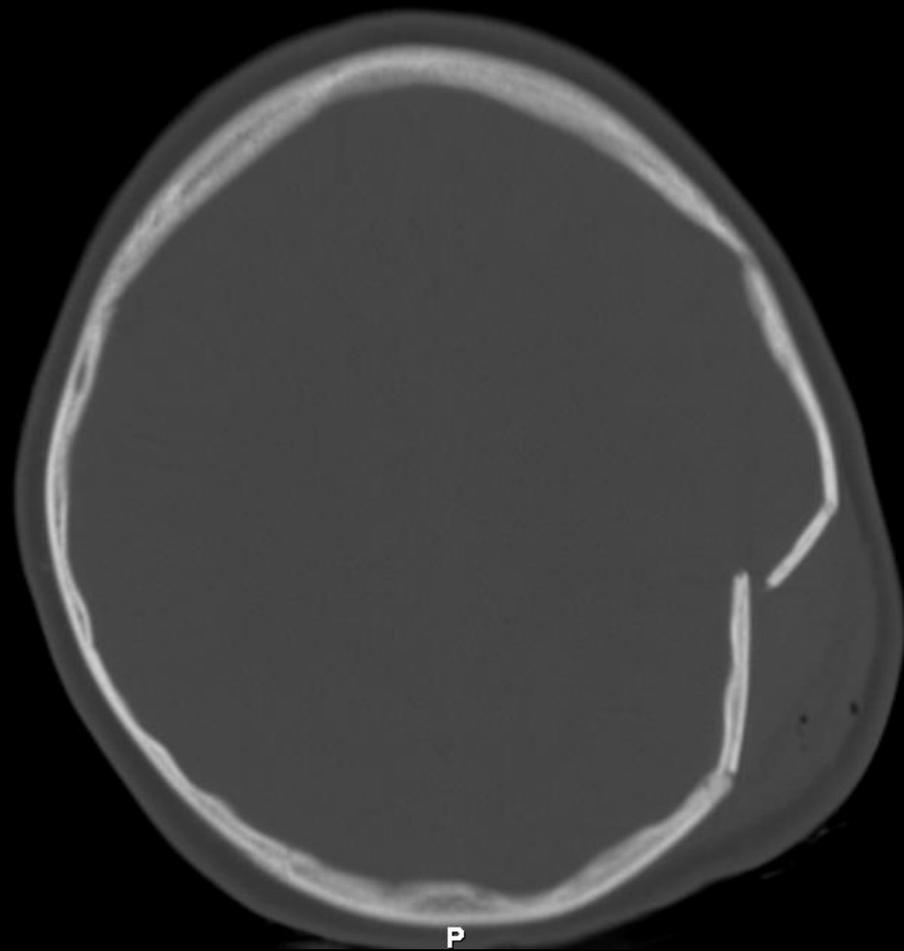
EMS Treatment:

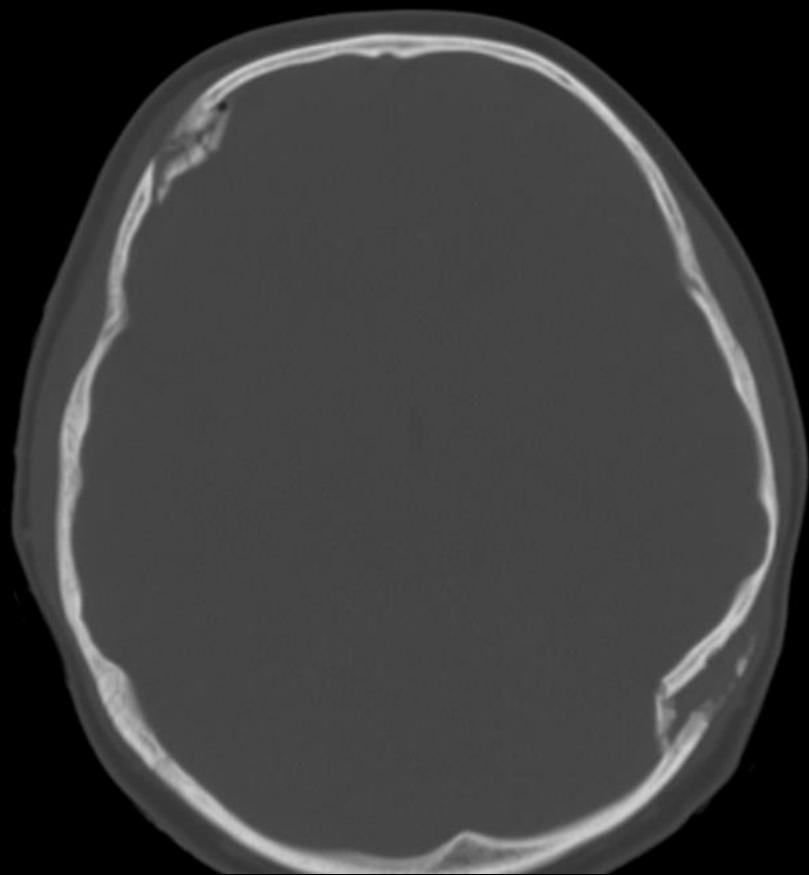
- SMR
- O2
- 18g BAC (BS 135)
- Swelling to right eye, right sided gaze, moans to painful stimuli
- Scene time:
 - 9 minutes

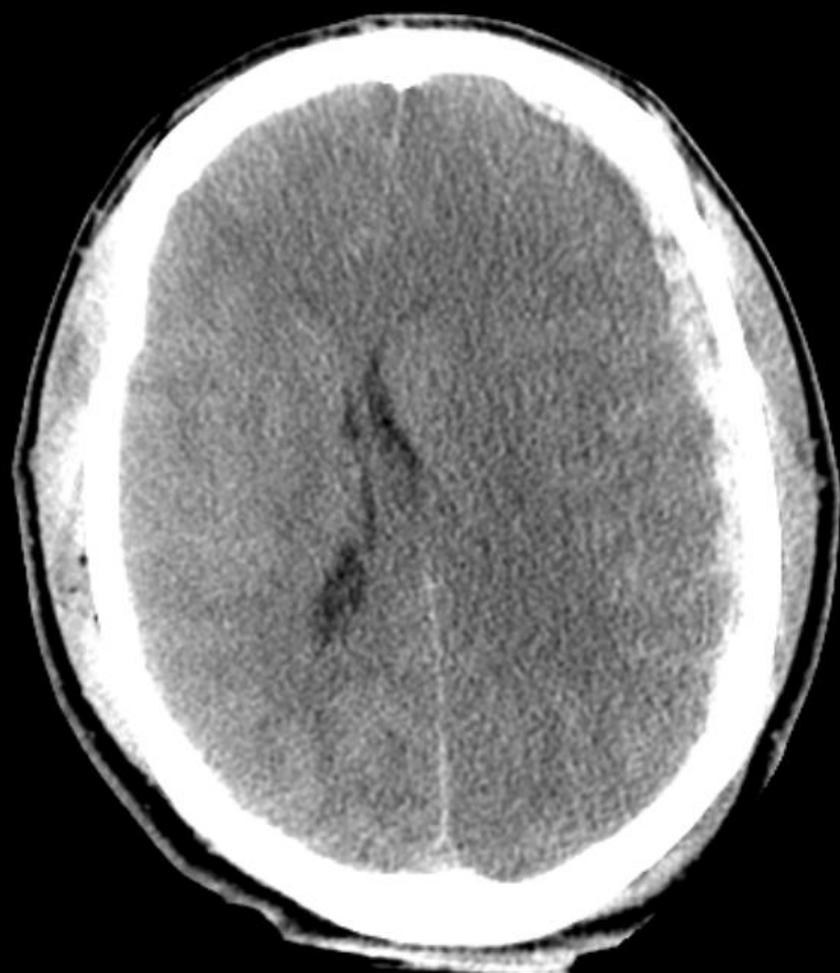
ER Treatment:

- Cont decreased Level of consciousness
- 98/53 110
- RSI then CT
- CT to OR









M

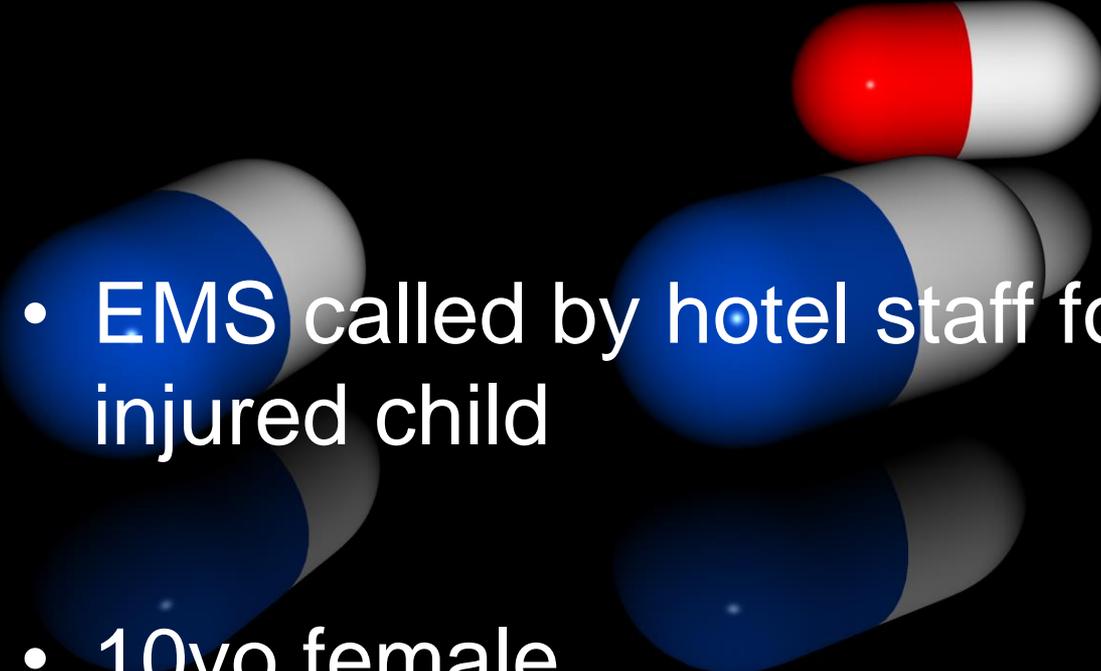
- Craniotomy with elevation of complex open depressed skull fracture
- Right frontal ventriculostomy (on day 2 due to hydrocephalus secondary to compression on 4th ventricle
- Right frontal ventriculostomy
- Placement of Ventricular monitor
- JP drain placed

Outcome:

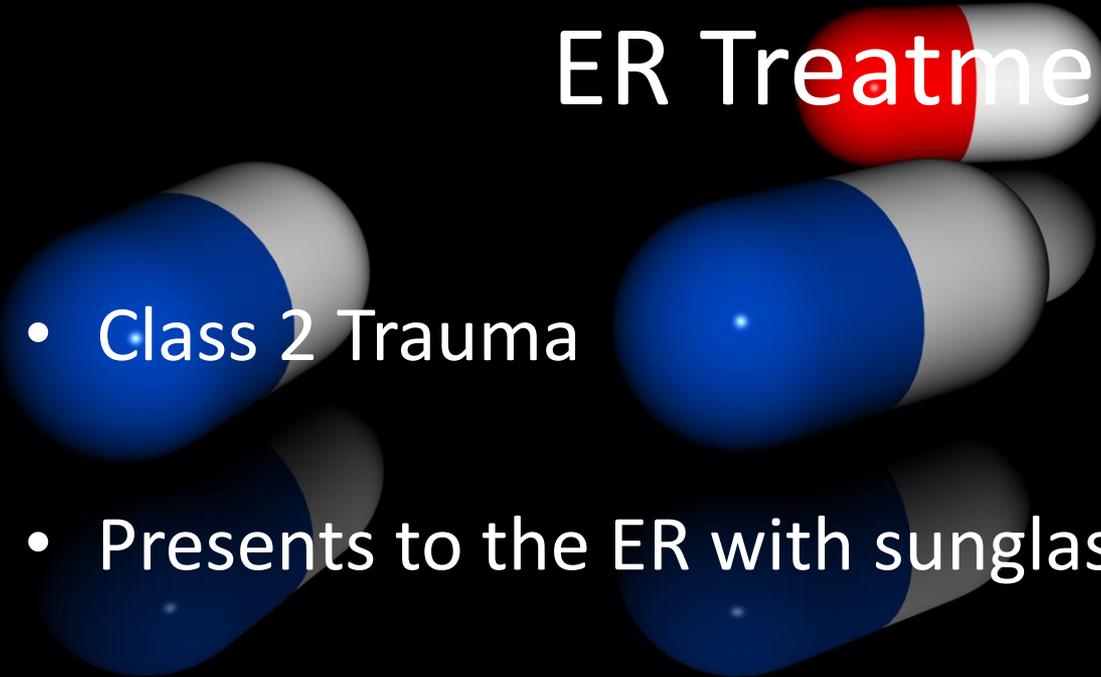
- 17 days in the hospital
- Complications?
- Update
- **ATV HELMET**

Case #1 (4/13)



- 
- The image features three 3D-rendered capsules against a black background. One capsule is red and white, positioned at the top center. Below it are two blue and white capsules, one on the left and one on the right. Each capsule has a small white dot on its colored half. The capsules are slightly tilted and have soft shadows beneath them.
- EMS called by hotel staff for possible injured child
 - 10yo female
 - Box fell on her head 4 days prior

ER Treatment



- Class 2 Trauma
- Presents to the ER with sunglasses on
- Walked in from ambulance
- 135/93 103 20 98.8 100% 47.1kg 5/10
pain

History and Physical



- Reported history of ADD, ODD, PTSD, Depression
- Patient interviewed without adult present
 - States staying in Branson on their way to Mexico
 - From a town in KS
 - Didn't know if school was out or not for her
 - Says her dad died 3 weeks prior
 - States a box fell on her head while cleaning out a storage unit

History and Physical

- Multiple bruising noted on head/face/arms/legs/posterior
- Detailed physical exam complete and patient stated she was not aware of how other noted bruises came about
- Undressed her and found bruises on posterior which child was not aware of





ER Treatment Cont.

- CXR
- CT Head, facial bones and neck
- CBC/Coagulation Studies/CMP

Disposition

A decorative graphic featuring several pills. At the top is a red and white capsule. Below it are two blue and white capsules, and at the bottom are two more blue and white capsules. The pills are arranged in a slightly overlapping, horizontal line across the top half of the slide.

- Admitted for social concerns
- 4yr old sibling also admitted
- Discharged to new foster mom on hospital day 2

COX

A Better
Happier
Life



Health
THANK



You!

Cox

Health



From
5/1/15