**Pediatric Drowning:**

Make a difference

150,000 – 500,000 die from drowning annually in the United States

2 Million Survivors of drowning currently living!

No one is “drown proof”; Even advanced swimmers can and do drown.

Out of 2,244 Drownings 0.5% had spinal cord injuries, therefore Routine spinal immobilization is not required unless trauma is suspected

S.A.L.A.D. Suction Assisted Laryngoscope Airway Decontamination: can be done in the field

Train with Broselow Tape: must practice periodically to retain ability to use well.

Some things in life cannot be fixed, they can only be carried

**Dementia:**

Consciousness is not affected

Decrease outside stimulation, radio etc.

1. Never Argue
2. Divert -Never reason
3. Distract – never shame
4. Reassure -never lecture
5. Never say “remember”
6. Ask, what were you doing today?
7. Never say – “I told you”
8. They do what they can
9. Ask, Never demand
10. Encourage
11. Reinforce – never force
12. Be understanding – they are a different person

U.P. S.I.D.E of Dementia

U. Understanding

P. Patients be patient

S. Supportive

I. Insight

D. Detail -Explain as if they are a child

E. Empathy

They can have lucid intervals

**Fentanyl:**

Nocebo effect – causes harm because you believe it is harmful

Myth 1: Fentanyl can be absorbed through the skin – Yes if its Transdermal patch, street drugs no.

Myth 2: Fentanyl powder can be absorbed through the air – not unless it is weaponized Fentanyl

Other drugs of abuse – Imodium AD – pinpoint pupils, respiratory depression, taking to get off drugs up to 1 gram.

Wellbutrin – Anti-depression, names in prison – Debs, Jailhouse coke, Wellies

**Stop the Bleed:**

A million trained on Stop the bleed

45 % would have survived Las Vegas if people were trained in stop the bleed.

Up to 40% Blood Loss before we see a decrease in Blood Pressure.

**Posterior Strokes Improved:**

EMS Recognition: presents differently than the “usual” stroke

500,000 will get diagnosed

1/5 will die within 30 days

30% Lifestyle, can’t help genetics

Ischemic most common, Hemorrhagic 15%

Brain is 2% of bodyweight uses 20% of oxygen and 25% of Glucose

Posterior strokes are 20% of all strokes

5- D’s of Posterior Strokes

Dizziness – sudden

Dysphagia -Trouble swallowing

Double Vision

Droopy eyelids

Do eyes Bounce (Vertical Nystagmus)

**Geriatrics and Frailty Syndrome:**

You biologically peak at age 30 and lose 1% per year after that

40% of ambulance calls involve elderly

In year 1900 average life expectancy was 47

In 2019 average life expectancy is 79

**Capnography:**

Ph 7.35-7.45

With a nebulizer treatment – oxygen level goes down

If you have a ETCO2 of 20-30 on CO2 that is good for CPR

Failure to achieve CO2 of >10 after 20 min can be used to terminate CPR

Bronchospasm – produce shark fin wave form

Glucose > 550 -ETCO2 <21 = DKA

Trauma - a drop in ETCO2 will usually precede a drop-in blood pressure

Sepsis – a lactic acid level of 4 correlates to a ETCO2 level of 25

A ETCO2<25 as a sepsis screening criteria.