

What The Hell Has BROWN Been Reading JOURNAL ARTICLES 2/2025

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Ten Commandments Of Emergency Medicine

- ► Secure the ABCs, but carefully
- Remember Naloxone, Glucose, and Thiamine
- Administer a Pregnancy Test and sometimes a Bedside US
- Assume the Worst
- Do Not Send Unstable Patients to Radiology and Never Alone
- Seek Out the Red Flags
- Trust No One, Believe Nothing including yourself
- Learn From Your Mistakes
- Do Unto Others As You Would Your Family
- ▶ When in Doubt, Always ERR on the Side of the Patient

Emerging Tick Bite-Associated Meat Allergy Potentially Affects Thousands

- Alpha-gal syndrome = red-meat allergy = tick bite allergy
- 2010-2022 >110,000 suspected cases of alpha-gal syndrome
- ▶ Estimated 450,000 affected
- Alpha-gal is a sugar found in mammal meats and products
- <1/2 of physicians have heard of AGS</p>
- ► Lone Star Tick- southern, midwestern and mid Atlantic US
- Usually within 2-6 hours-Hives, rash, N/V/D, heartburn, SOB, hypotension, swelling of lips and throat, etc.
- Dx blood test for antibodies specific to alpha gal
- **In general, infected ticks must be attached for more than 24 hours to transmit infection; prompt tick removal can prevent transmission. CDC website

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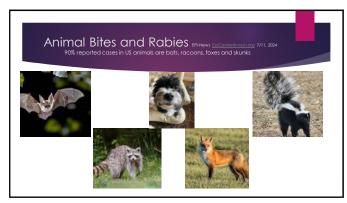


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Evidence Mounting for the Green Whistle Emergency Medicine News vol 46 8/24

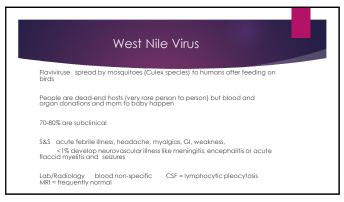
- ▶ Inhaled Pain Management in ED and EMS
- Penthrox-inhaled methoxyflurane a volatile anesthetic agent
- Not in US but +Canada, Asia, New Zealand, Europe
- Benefits: Rapid onset-3 minutes, Ease of administration, versatility, patient satisfaction, minimal impact on respiratory and cardiovascular system
- Adverse Effects: increased dizziness and headaches. Less effective than IV morphine and fentanyl. At higher than whistle doses can cause kidney damage or toxicity.
- ▶ Cost- UK \$23

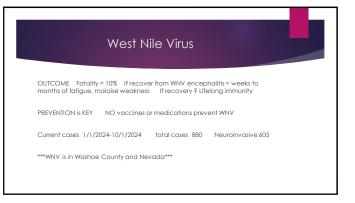




Rabies

- Encephalitic disease caused by Lyssaviruses and untreated is always FATAL
- Broken skin and the saliva, mucus, or brain matter usually from bite or open wound or scratch
- Symptoms occur days, weeks, months or even years after exposure
- ~55,000 deaths/year worldwide US 10 deaths/year
 Increase risk with travel outside US and outdoor activities
- S&S if present: mirror flu-weakness, fever, headache, confusion, fear of water, seizures, partial paralysis, coma → → DEATH 100%
- Treatment- 10 day observation or euthanize animal OR HRIG + 4 more doses





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Nirmatrelvir-Ritonavir as Postexposure Prophylaxis for Covid-19 NEUM 7/1624

- ▶ N 2736 ½ received drug tx either 5 or 10 days ½ received placebo
- End point 14 days after randomization
- 90% of participants were seropositive at baseline
- NO statistical difference between groups
- ▶ Transmission 5 day rx = 2.5% 10 day rx = 2.4% Placebo = 3.9%
- Adverse drug events 6% with Dysgeusia (altered sense of taste) common
- Conclusion: incidence of household transmission is low postexposure prophylaxis did NOT lower risk



Increased risk of major adverse cardiac and cerebral vascular events in elderly non-smokers who use cannabis.

- ▶ N 28,535 Cannabis users with cardiovascular risk factors; HTN, Type 2 DM or High Cholesterol. Hospitalized patients age 65+.
- Comparison group 10,680,000 same risk factors NO Cannabis.
- ▶ 13.9% increase of major adverse heart or brain events in hospital.
- Higher rate 7.6% vs 6% heart attacks
- ▶ Higher rate 28.9% vs 19% of being transferred to other facilities.
- Cannabis appears to increase cardiovascular risk in older adults.

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Blood pressure lowering reduces dementia risk

- ▶ Global Dementia: 2019=57.4 million Projected to be 152 million by 2050.
- N 33,995 325 villages in China Age 40+ with untreated HTN
- ▶ Group A SBP 157->127 Group B SBP 155->147
- 48 month follow up average age 63yrs
- Significant differences of <u>15%</u> in outcome of all cause dementia A>>B.

Rethinking Limb Tourniquet Conversion in the Prehospital Environment.

- Review of current recommendations.
- ▶ TQ < 2 hours safe
- ► TQ > 2 hours risk of ischemic injury
- TQ < 6 hours attempt TC or TR</p>
- ► TQ > 6 hours leave in place increase risk of amputation
- TC= tourniquet conversion-replacement with hemostatic pressure
- ► TR = tourniquet replacement-exchange "high and tight" ~ 2-3 inches above bleeding site

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Reasons	to Convert or	Replace Tourn	iquets	
	Limb preservation	Prolonged tourniquet use can lead to schemia and fissue damage, increasing the risk of limb lass.		
	Prevention of compartment syndrome	Protonged tourniquet application can lead to the development of compartment syndiame, a condition characterised by increased pressure within a muscle compartment, resulting in tissue damage and potential loss of limb function.		
	Prevention of repertusion injury	When a tourniquet is released after prolonged use, repertusion of the limb can lead to systemic complications such as acidosis, coogulopathy, hypotension, renal failure, and death.		
	Avoidance of prolonged pain and discontort	Protonged tourniquet application can cause significant pain and discontrot to the casually and can increase the need for analgeis medications in a limited resource environment.		





Coming in Hot: Police transport and prehospital time after firearm injury. Jatinumend acute Care surgery 11/2002 Val 93 5

- Retrospective Study: Open data Philly shooting Victims Adults 2015-2018
- Police Transported N 977 EMS Transported 320
- Prehospital times: Police-mean 9 minutes << EMS-mean 21 minutes</p>
- Police transported pts often more severely injured. Trauma score 60% vs 50%
 Unexpected Survivors at 6 hours Police 6% > EMS 2%
- Unexpected Survivors at 24 hours
 Police 3% > EMS 1%
- Conclusion: Ongoing opportunity to optimize in hospital care.

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Physician-staffed ambulance and increased in-hospital mortality of hypotensive trauma patients following prolonged prehospital stay: A nationwide study. Jal Taumaand Acute Care 8(2): Vol.9)

- Retrospective cohart study Japan Trauma Data Bank 2004-2019
- Hypotensive trauma Pts SBP<90 Transported by ambulance
- Physician staffed (resuscitative procedures) VS ALS
 N 12,652 738 physician staffed transports
- In hospital mortality and prehospital time to hospital arrival were studied







Attempted suicide in the elderly with existing DNRs: an emerging geriatric ethical dilemma ceessenine (2021 13(1)

- 93 yrs male with advanced dementia and 92 yrs female
- Suicide Pact and attempt death by overdose and cutting wrists
- Both surviveBoth have DNRs
- Your Thoughts

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Complicating Circumstances

Both Stabilized

- Male had DNR from prior SA and NO current terminal illness.
- He did NOT meet Hospice criteria for illness.
- She did NOT want to die but went along with his request.