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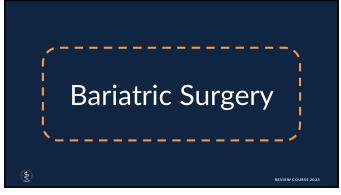


Patient 1: 64-year-old Female • Admitted to rehab for treatment of AUD following a "detox" protocol. MMTP 60mg for many years-OUD in Remission • Married: Spouse no SUD • F: +EtOH M: No EtOH 4S: No EtOH 2Children: No EtOH • HS Graduate: Employed in Sales • Social, Occasional EtOH until age 56 • ? Event → ↑↑ EtOH one year after event → AUD • PE: unremarkable • Labs: Normal CMP, CBC, Lipids • UDT: + Methadone

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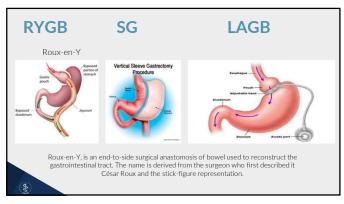


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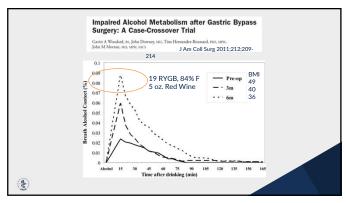


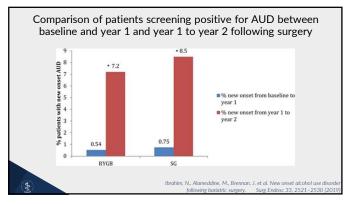
64-year-old Female with AUD Age 56: Bariatric Surgery: 5' 4" 240lbs. BMI= 41 ? Type of Bariatric Surgery? ? RYBS, SG, LAGB SG Current BMI: 24 2 liters Vodka day

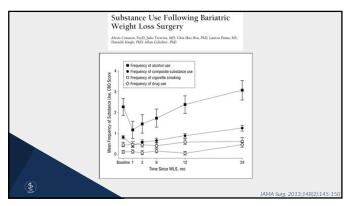
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Addiction Transfer/Substitution • Why the ~ 2-year delay? • Why procedure-dependent? • Occurs In Patients with Gastrectomy for peptic ulcer and CA with nI BMI • Rodent Model: ↑EtOH after RYGB

Pharmacokinetics/Pharmacodynamics

- Explains Difference RYGB, SG, LAGB
- ↓ Gastric ADH (Cimetidine H2 Blocker)
- \downarrow Weight $\rightarrow \uparrow$ Socialization
- ↑ Absorption, ↑ Cmax, earlier Tmax
- Feeling More Intoxicated
- AUD>> Other SUDs
- Cocaine Analogy: I.N. → Smoked (Crack Cocaine)



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Predictors of AUD Post WLS

- Type of Weight Loss Surgery
- Male: Women More WLS
- Younger Age, FH
- EtOH use Pre-Op
- Tobacco, Illicit Drug Use
- ADHE
- Lower Sense of Belonging, Depression
- More Weight Loss $\rightarrow \uparrow$ Socialization $\rightarrow \uparrow$ EtOH



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Key Takeaways

- New Onset EtOH related problems occur in ~ 10% of WLS Pts.
- $\bullet\,$ More likely with RYGB & SG than with LAGB.
- \bullet Some WLS patients \downarrow EtOH intake.
- EtOH problems increase over time. Usually begins ~2 years after WIS
- Inform and Monitor all WLS patients about the risk of AUD/SUD over time.
- Special Thanks to Allan Geliebter PhD, for alerting me to the relationship between Bariatric Surgery and Alcohol





Sudden Death IVDU

- 26 yo male
- 8 year hx of OUD
- Prescription Opioids \rightarrow IN Heroin \rightarrow IV Heroin last 12 months
- 3 non-fatal ODs last 8 months
- Non compliant with Bupe Rx and Psychosocial Tx
- Argued with his Mother: Went up to his Room: Mother heard a loud thud, found him on floor, unresponsive, with syringe and needle in his arm 5 minutes later.
- Naloxone Nasal Spray 4mg administered X2-No Response
- Patient could not be resuscitated by EMS





Sudden Death IVDU

- ? Typical Opioid Induced Respiratory Depression Fatal Overdose
- Time Frame: \geq 1 hour: Naloxone Reversal Effectiveness Evidence
- Post Mortem Toxicology: +Fentanyl, -Norfentanyl, +Heroin, -6-MAM, +Morphine
- Fentanyl Induced Chest Wall Rigidity ("Wooden Chest")
 - Fentanyl Induced Respiratory Muscle Rigidity & Laryngospasm

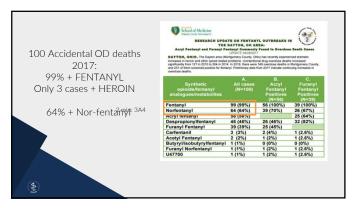


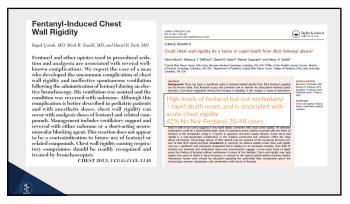
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Fentanyl Chest Wall Rigidity

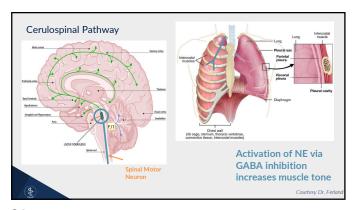
- First Reported in 1953 in anesthesia literature
- Skeletal Muscle Rigidity: Chest Wall Most Common
- Most common with fentanyl and its congeners (lipid solubility)
- Most common with rapid IV administration
- ? Activation of the coerulospinal noradrenergic pathway, following mu receptor activation in LC
- ? dose related
- +/- Reversal with naloxone (IV route in literature): succinylcholine in OR
- · Ventilatory Support
- Low or Absent Nor-fentanyl (appears in 2 minutes: CYP3A4)

Burns, G et al. Clinical Toxicology, Vol. 54, No. 5, 420-23, 20

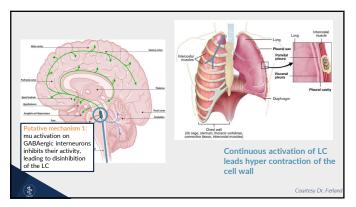


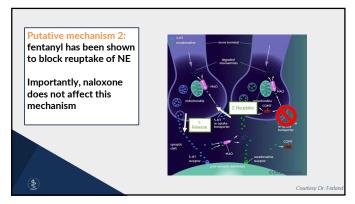


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FJ1 Ferland, Jacqueline-marie, 3/16/2021





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False Positive Fentanyl Immunoassay Trazodone Risperidone, Paliperodone, Iloperidone Some of the Fentanyl Analogues Not Norfentanyl Diphenhydramine, Sertraline, Labetalol, Fluoxetine, MDMA, Methamphetamine, Amitriptyline Trazodone Alkylated Piperidine in common Alkylated Piperidine in common Alkylated Piperidine in common Judicular Medicular Service Service



38 yo Female with AUD

- Admitted to inpatient rehab following alcohol "detox" with chlordiazepoxide Sept 2016
- Never felt happy—anxious, low self esteem
- Father physically abused patient: mother ignored
- Raped on street by stranger while intoxicated with EtOH: age 20
- EtOH, THC in H.S.: IN cocaine D/C'd 10 yrs ago: heroin IN X4 did not like: never IV. EtOH preferred: Benzos last few years

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38 yo Female with AUD

- Rehab is a locked unit, with visitors 1xweek--Sunday. Pt. had visitor on $3^{\rm rd}\,{\rm day}$ of rehab
- Started on Gabapentin 300mg tid on admission for MAT for AUD
 On 4th day of rehab, 9AM, patient had altered mental status, and rapid response called. Patient was somnolent: O2 Sat=91%, Glu=64, BP=125/70, P=60, Pupils=nl. After DW50 and IV hydration MS improves. Remains on Rehab unit.
- UDT: Negative -opiate, cocaine, THC, benzo, PCP, MTD, Bupe
- Blood Alcohol Level: 312mg/dl
- What Happened??
- Where did the Alcohol come from?







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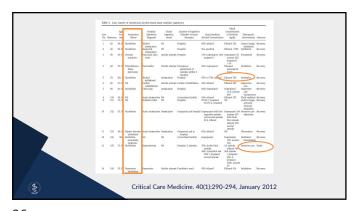


38 yo female with AUD

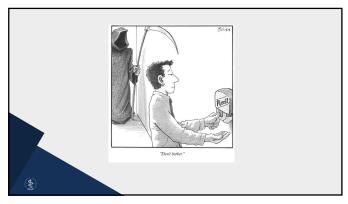
- 5 year hx of drinking hand sanitizer in health care facilities; like Vodka—but stronger
- Would drink Sanitizer to alleviate withdrawal
- No hangovers
- Also drank Listerine
- Required ICU and intubation in the past

W)

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