



Welcome to the 53rd Annual Conference



Clinic Confidential

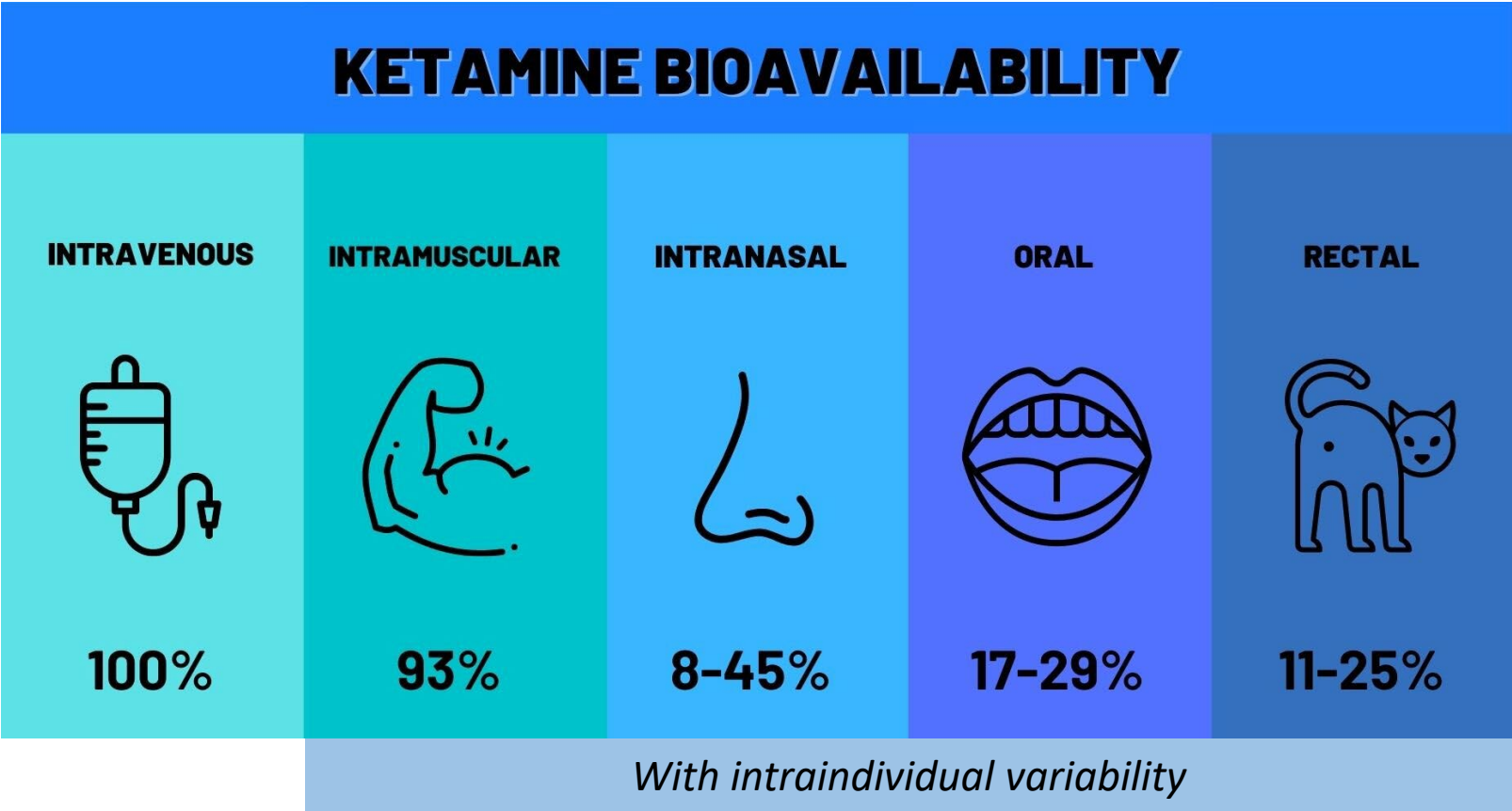
New and emerging treatments in medicine
discussed in Case Study format

Magdalena Kluchko, MD, DBIM

Today's Topic



Ketamine



Ketamine

Sedation effect



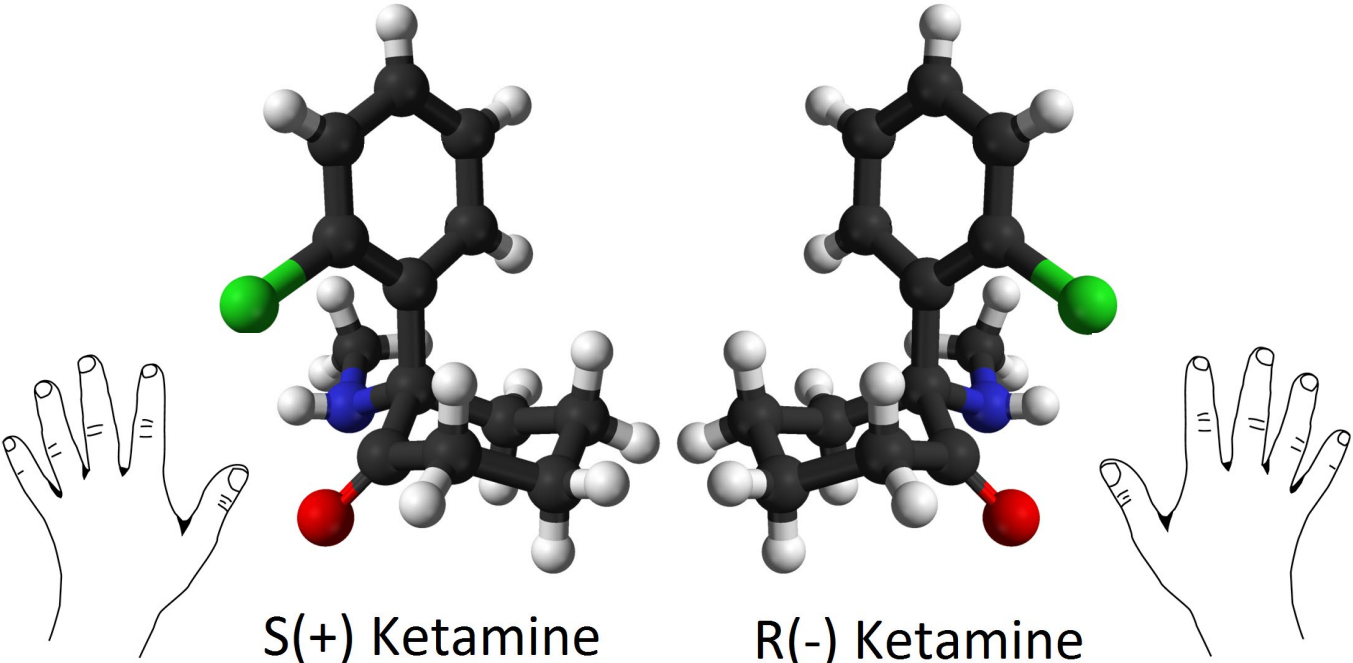
Ketamine



Ketamine

Optical Isomers of Ketamine

Spravato™
(esketamine) 
nasal spray



S(+) Ketamine
Left hand enantiomer

R(-) Ketamine
Right hand enantiomer

Ketamine

Time passed since treatment or regular, infrequent maintenance intervals

Well supervised, controlled environment, reputable source

Compliance with treatment recommendations and follow-up

Thorough documentation of symptoms and treatment

Absence of concerning physical and mental comorbidities

Recent start of treatment, recent suicidality

History of addiction or drug abuse

Concurrent use of concerning substances or medications

Temporary elevation of BP, especially with coexisting CV risk factors

Case SL

46 y/o woman for 500K Term



- 5'3" 132 lbs. – Long h/o depression, multiple failed meds, no typical psych records
- Meds: Auvelity, Celebrex, Percocet (prn)

APS PCP:

- 7/24: TRD, going to do ketamine with telehealth provider, pain better on recent adjustments
- 8/24: chronic pain due to severe fibromyalgia (wrists, back, shoulder, hands, hips, migraines), sleeping better with log acting tramadol (has pain contract)
- 10/24: finished ketamine treatment, taking Auvelity and increasing dose now ketamine is done, mood improved and hopes it lasts

Case SL

46 y/o woman for 500K Term



Publication | Article | October 6, 2022

Psychiatric Times

Vol 39, Issue 10 | Volume

The Online, At-Home Ketamine Experience: A Clinician's Dilemma

Author(s): [Michael D. Banov, MD](#) , [Rachel E. Landrum, MA](#)

Case KT

56 y/o man for 10 mil Term

- 6'0" 178 lbs. – CEO of records label, vegan, runs ironman
- HTN on med
- Remote h/o cocaine and alcohol abuse, sober for 20+ years, attending AA very regularly
- Quit smoking in 2022 (15 py), uses nicotine gum
- Admits to longstanding anxiety, therapy only
- Rx check: 2021 – bupropion and fluoxetine
2022 – fluoxetine
2023 – off all psych meds



Case KT

56 y/o man for 10 mil Term

APS PCP:

- 7/2020: long history of depression and anxiety, unsuccessful trial of Zoloft, started Cymbalta and Wellbutrin 10 years ago. Stopped Cymbalta in 1/2020 for feeling dull, had 4 weeks of euphoria, then “crashed.” Has been doing ketamine treatments in February and May (total of 6). Struggling since stopping ketamine, irritable, depressed.
- 8/2020: better on bupropion and fluoxetine, thinking of starting ketamine again
- 10/2020 through 10/2021: doing well on bupropion and fluoxetine



Case IV

40 y/o woman for 5 mil UL



- 5'2" 143 lbs. – homemaker
- No tobacco, 2-3 drinks per week
- Roux-en-Y bypass 12/2022
- Meds: clonazepam, ketamine 2x/month for depression/anxiety

APS (Ketamine provider, psychiatrist):

“Under my care since 8/5/19, initially referred for MDD, recurrent, severe, GAD & PTSD; was treated with Spravato from 10/21/19-3/2/21 and then transitioned to IV Ketamine which she now gets about every 2 weeks, her symptoms are well controlled and in remission, PHQ-9 = 6 and GAD-7 = 3. She gets 100mg of Ketamine over 1 hour.”

Case IV

40 y/o woman for 5 mil UL



APS (psychiatrist):

- 4/2019 - SI's noted; PMH: 8-9 years ago used MJ & cocaine, 16 yrs old used heroin & crack, ecstasy often at 17 yrs old
- 8/2019 – binges about 2 x per month, 1 bottle of wine; start Zoloft and esketamine
- 2022 and 2023 doing ok, ketamine every 2-3 weeks, no other meds, no issues with alcohol, GAF: 65-75
- 3/2024: anxiety really high, very unhappy, got drunk at a gala; 7/2024: big rift in marriage
- 9/2024: paranoia, flashbacks, feels lost and broken, increased alcohol use, feels worse the next day, frequency of ketamine increased to weekly - LOV

Case NP

50 y/o woman for 5 mil UL

- 5'5" 130 lbs., 108/62 – massage therapist
- Daily tobacco mints, never smoker, occasional cannabis for sleep
- Hx: colitis, Lyme, anxiety, COVID19, insomnia
- Meds: estradiol, progesterone, ketamine, testosterone, Xanax (prn)

APS (ND):

- 1/2024: chronic fatigue, leaky gut, heavy metal toxicity; started HRT and monthly IV chelation
- 2/2024: extensive lab work, all normal
- 3/2024: severe brain fog with associated depression; microdosing methylene blue did not help, but was not medical strength
- 4/2024: GI healing, restore mitochondrial health; started on multiple peptides/amino acids, larazotide for leaky gut, testosterone injections
- Monthly IV therapy with glutathione 4/24 through 6/24
- 8/2024: wants IV ozone therapy, scripts for semaglutide/tirzepatide



Case NP

50 y/o woman for 5 mil UL

APS (PCP):

- 2020: wants Diflucan for systemic candidiasis
- 2021: works with specialist for LONG COVID
- 2022: HRT discussion, requests MD to call compounding pharmacy to specify how she wants to take the medications
- 3/2024: Ketamine 200mg RDT mint sans stevia. Dissolve under tongue and hold for up to 15 minutes 4x per week as needed (filled 2/21/24)
- 4/2024: wants steroids for severe exhaustion, adrenal fatigue
- H/o Crohn's or UC in 2006 by colonoscopy, made diet changes, no follow-up, referred for c'scope 5/23 & 3/24, has too much anxiety



Case IN

57 y/o woman for 11 mil UL



- 5'11" 183 lbs. – Financial professional
- ADHD and anxiety; Rx Adderall, Lexapro, alprazolam (prn)
- 2-4 drinks per week, no tobacco, exercises
- APS (PCP): no adverse psych or alcohol criticisms
- HOS (7/24): HDL 80, LFTs nl, drug screen negative, CDT not done
- APS (cardio): referred by friends for cardiac screening; “Has seen therapist for anxiety depression. Dipsomaniac. Micro-doses psilocybin 2x/month, ketamine nasal spray weekly.” Followed by psychiatrist.

Summary

Esketamine (intranasal) has been FDA approved for TDR and MDD with suicidal ideation/behavior
Phase 3 trials confirmed safety and efficacy

IV ketamine appears to have a very similar, possibly superior risk profile to esketamine

Oral ketamine may be beneficial, but requires additional research at this time

Mortality from ketamine is largely associated with recreational use/abuse

Applicants with past or ongoing ketamine treatment can be considered for coverage

Consider severity of underlying depression, response to treatment and stability over time

Confirm appropriate use and supervision of treatment

Take comorbidities and abuse potential into account

Take Home Points

Thank you!

