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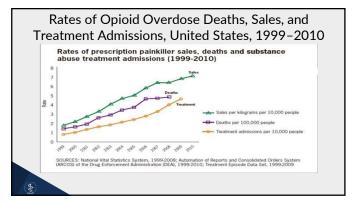
### Alleviating Suffering 101 Pain Relief in the USA

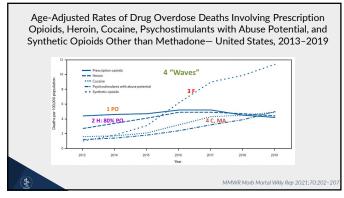
- 2011 IOM Report: 116 Million Americans have pain which persists for weeks to years
- \$560 \$635 Billion per year
- Some physicians overprescribe opioids, while others refuse to prescribe opioids
- Lack of education: Providers and Patients
- Headache, LBP, Neck Pain, Joint Pain, Fibromyalgia: CNCP

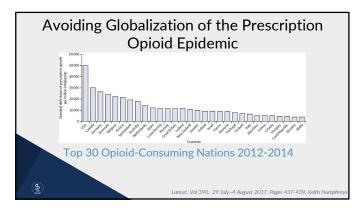
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NEJM 366:3 Jan 19.2012







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#### "Perfect Storm"

- 1995: Introduction of Oxycontin
- 1995: Pain is Fifth Vital Sign
- Publications indicating low risk of addiction
- Thought Leaders with Financial/Pharma Conflicts
- Patient Satisfaction Surveys: "...staff did everything they could to help you with your pain"
- Physicians successfully sued for not treating pain
- No Evidence for long term Effectiveness COT → CNCP
- Physical Dependence vs Addiction



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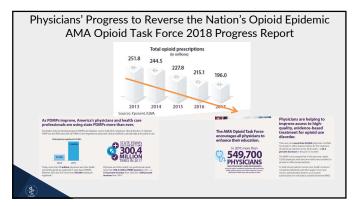
FDA Drug Safety Communication: FDA urges caution about withholding opioid addiction medications from patients taking benzodiazepines or CNS depressants: careful medications from patients taking benzodiazepines or CNS depressants: careful medication management can reduce risks and the second of t

## Intended/Unintended Consequences in Reaction to the Prescription Opioid Epidemic

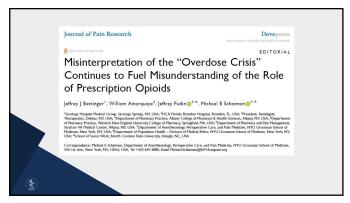
- Prescription Drug Monitoring Programs: PDMP
- · Limits on the quantity and dosage prescribed
- UDTs become standard of care
- Education of prescribers: FDA REMS course on Safe and Effective Opioid Mgt.
- CDC Guidelines
- Tamper Resistant/Abuse Deterrent Formulations
- Patients Physically Dependent on Opioids Left in the Lurch
- HEROIN: Cheaper, Readily Accessible
- FENTANYL/Fentanyl Analogues

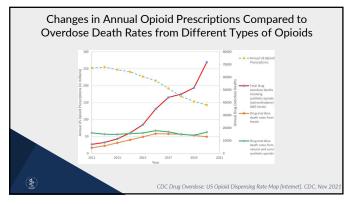


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#### CDC Guidelines: 2016 vs 2022

- Similar Recommendations on Opioids as the last option for chronic pain and in many cases of acute pain. Always start with IR opioids for the shortest duration and lowest effective dose.
- Change in Tone: These are guidelines. Use Clinical Individualized Patient-Centered Judgments as to duration, dose, risk/benefit of COT, and need for tapering
- These Guidelines are not to used by health systems, pharmacies, insurance companies, medical boards, or governments to determine standard of care

CDC Guidelines at a Gla

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#### Start With Non-Pharmacologic Therapy

- Physical Therapy, Exercise
- Cold, Heat
- CBT, MI
- Meditation, Mindfulness
- Acupuncture
- Biofeedback
- Massage
- Aquatic Therapy
- Spinal Cord Stimulation (SCS)

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#### Next Option: Non-Opioid Pharmacotherapy

- Acetaminophen (Efficacy), NSAIDS (Adverse Effects, Cardiac, Elderly)
- Anti-Depressants: TCAs, SSRIs, SNRIs
  - Neuropathic Pain, Nociplastic Pain (e.g., Fibromyalgia), Pain + Depression
- Anti-Convulsants: Gabapentanoids, Topiramate, Carbamazepine
- · Neuropathic Pain, Nociplastic Pain, Migraine Prophylaxis
- Topicals: Lidocaine Patch, NSAIDS, Capsaicin
- "Muscle Relaxants:" Baclofen, Cyclobenzadrine, Methocarbamol, Tizanidine
  - · Avoid Benzodiazepines, Carisoprodol (Schedule IV)
- Ketamine: Acute Pain (e.g., ED)
  - Interventional Procedures: Epidurals, Nerve Blocks, Neurodulation

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#### Gabapentanoids: Conclusions

- Significant Misuse Among Patients with SUDs, Primarily OUD Receiving Methadone or Buprenorphine Maintenance.
- Significant Adverse Effects With Therapeutic Doses, and Increased Adverse Effects With Supra-Therapeutic Doses
- Must Adjust for Renal Function
- Full Recovery From Adverse Effects Is The Rule
- Death Is Uncommon, But Increased In Combination With Opioids
- Gabapentin Bioavailability  $oldsymbol{\psi}$  With Increasing Dose
- · Weak Evidence For Off Label Pain Treatment
- Should Gabapentin Be Listed On PDMPs (e.g., Ohio, NJ)
- Pregabalin Schedule 5 listed
- Add Gabapentanoids To UDT Screens

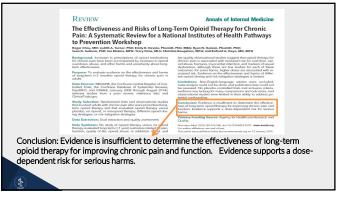


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#### **Opioid Pharmacotherapy**

- Acute Pain: e.g., Post-Operative, Burn, Severe Trauma
- Limit Duration: NYS-7days
- Sickle Cell Disease 2022 Guidelines
- Cancer Pain
- Palliative Care, Hospice
- End of Life Care
- Chronic Opioid Therapy (COT) for
- Chronic Non-Cancer Pain (CNCP)
   Effectiveness, Safety, Adverse Effects,





#### Initiating Opioid Treatment: CNCP

- Prescribers should regard initial treatment as a therapeutic trial
- May last from several weeks to several months; start with IR Opioid
- Decision to proceed w/ long-term treatment should be intentional and based on careful consideration of outcomes during the trial
- Progress toward meeting therapeutic goals
- Functional Improvement
- Presence of opioid-related adverse effects
- Changes in underlying pain condition
- Changes in psychiatric or medical comorbidities
- Identification of problematic drug-related behavior, addiction, or diversion



Chou R, et al. J Pain. 2009;10:113-30

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#### Opioid Tapering/Deprescribing Strategies

- Patient Requests/Agrees vs Patient Resists
- Alternative Treatment if Pain Still Present
- Clonidine/Lofexidine Tablets and Patches
- alpha 2 centrally acting adrenergic agonists → ↓LC → ↓NE
- · Switch to Methadone
- Switch to Buprenorphine
- Symptomatic Meds: NSAIDS, Loperamide, Benzos(short course), non-benzo sleep meds
- Patients report favorable outcomes after tapering

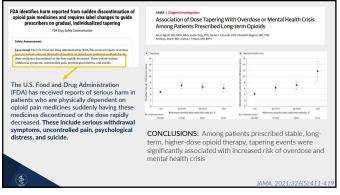
Opioid Induced Hyperalgesia

JAMA Internal Medicine May 2018 Volume 178, Number

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HHS Guide for Clinicians on the Appropriate Dosage Reduction or Discontinuation of Long-Term Opioid Analgesics

Oct. 2019

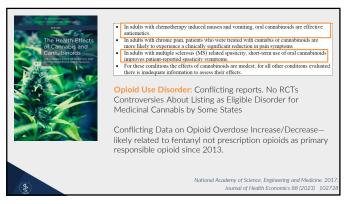
The CDC Guideline for Prescribing Opioids for Chronic Pain does not recommend opioid discontinuation when benefits of opioids outweigh risks.

Avoid misinterpreting cautionary dosage thresholds. Guideline recommends avoiding or carefully justifying increasing dosages above 90 MME/day, it does not recommend abruptly reducing opioids from higher dosages.

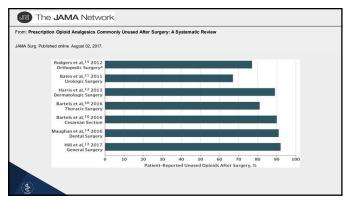
Avoid dismissing patients from care.

Reinforced in the 2022 Guidelines

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#### Opioid Rx Disposal

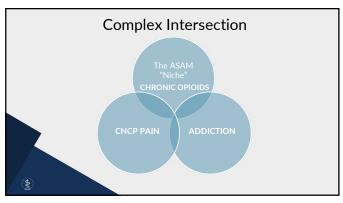
- DEA Take Back Programs
- Some Pharmacies, Some Police Stations
- Mix with cat litter/coffee grounds, then seal in plastic bag and throw out in trash
- Flush down toilet: environmental issues
  - Fentanyl Patch: Flush only
- DO NOT throw out in trash in Rx bottle



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#### Pain and Addiction: Definitions

- "Pain is viewed as a biopsychosocial phenomenon that includes sensory, emotional, cognitive, developmental, behavioral, spiritual and cultural components." (IASP website)
- Addiction is a treatable, chronic medical disease involving complex interactions among brain circuits, genetics, the environment, and an individual's life experiences.

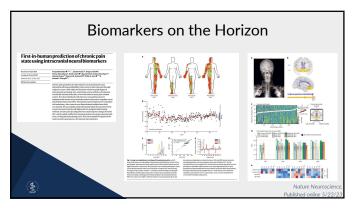
  People with addiction use substances or engage in behaviors that become compulsive and often continue despite harmful consequences.

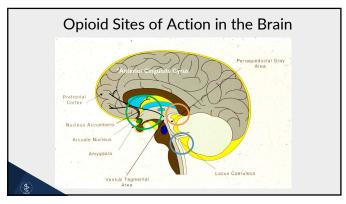
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## "Exaggerated Response" What Did It Feel Like The First Few Times?

- "All my problems disappeared."
- "Felt like I was under a warm blanket."
- "Thought this is how normal people feel."
- "Forgot about all the abuse."
- "Felt like the world was at peace."
- "Totally relaxed." "Not shy."
- "Looking at a beautiful sunset."
- "I was energized!"
- Liking opioids: this is a vulnerability.

#### Treating Pain in the Addicted Patient

- "Pain patients with a coexisting SUD are among the most challenging patients in medicine."
- Universal Precautions
- "Real Pain" may make opioids less rewarding/euphorogenic Addicted Patients Have Pain: Trauma, Lower Thresholds, Medical
- Screening Tests: ORT, SOAPP, others

- Psychiatric Co-morbidity
- Active Addiction recovery program
- UDS, pill counts, agreements, etc.
- Multidisciplinary Pain Program

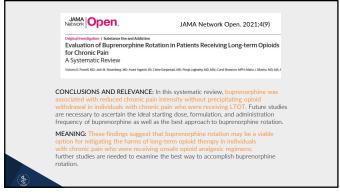


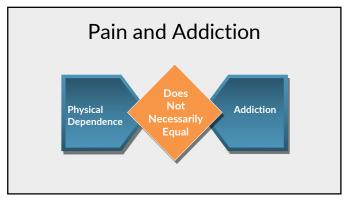
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#### **Buprenorphine Formulations:** FDA Approved for Pain not OUD

- Buprenex® Parenteral (IV, IM)
- Butrans® Transdermal (7 Day)
- Buccal Film (75-900mcg q12h) • Belbuca®
- Approved for pain but **NOT** OUDs
- Can NOT be used OFF LABEL for OUDs: Violates DATA 2000

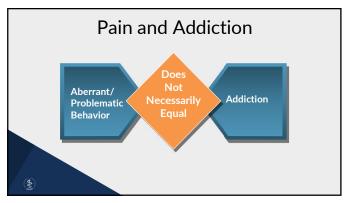
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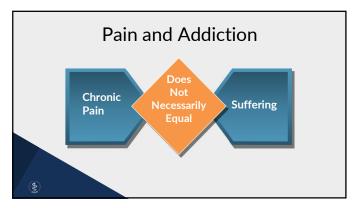


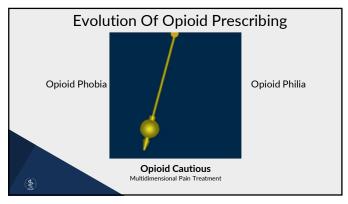


# Definitions: Complex Physical Dependence "Dependence on opioid pain treatment is not, as we once believed, easily reversible; it is a complex physical and psychological state that may require therapy similar to addiction treatment, consisting of structure, monitoring, and counseling, and possibly continued prescription of opioid agonists. Whether or not it is called addiction, complex persistent prescription opioid dependence is a serious consequence of long-term pain treatment that requires consideration when deciding whether to embark on long term opioid pain therapy as well as during the course of such therapy." Opioid Dependence vs Addiction: A Distinction Without a Difference? Ballantyne J, Sullivan M, Kolodny A, Arch Intern Med, 2012

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## Pain Quotes • "To have great pain is to have certainty. To hear that another person has pain is to have doubt." "Seeing Pain," Nicola Twilley (2018) • "Physical Pain does not simply resist language, but actively destroys it." -"The Body in Pain" by Elaine Scarry (1985) • "Morphine is God's own medicine" Sir William Osler • We can't live without opioids; we have to learn to live with them.



