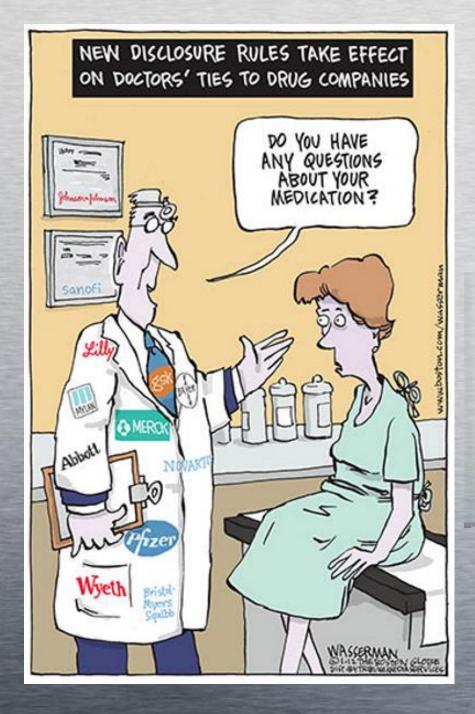


Mark Bailey, DO, PhD, FACN
Professor
Neurology and Anesthesiology



Knowledge that will change your world





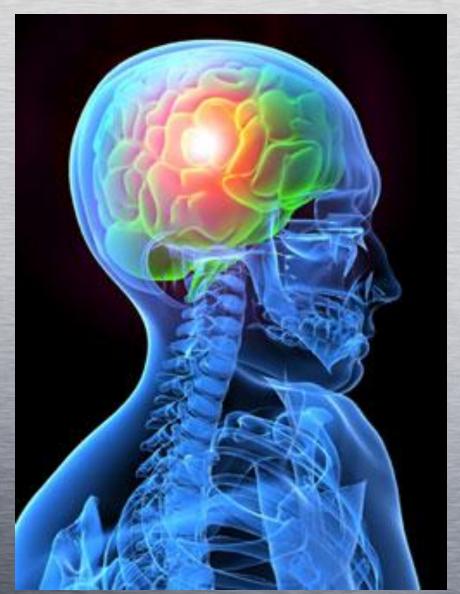
Disclosures

Dr. Bailey has no relevant financial conflicts of interest or disclosures.

Objectives

- Review current issues in pain management
- Consider how regulations impact how we practice
- Consider current pain management guidelines and how well are they achieving the goal of reducing overdose deaths
- Ponder future directions and how we need to adapt

Pain Epidemiology



Prevalence

Heart Disease 25.8 million

Stroke 16.3 million

Cancer 7 million

Diabetes 11.7 million

Total 60.8 million

Chronic Pain 116 million

Costs of Chronic Pain

The total annual cost of health care due to chronic pain ranges from \$560 billion to \$635 billion which combines the medical costs of pain care and the economic costs related to disability days and lost wages and productivity.

Institute of Medicine Report from the Committee on Advancing Pain Research, Care, and Education: Relieving Pain in America, A Blueprint for Transforming Prevention, Care, Education and Research. The National Academies Press, 2011.

Pain

- #1 reason people seek medical attention
- Is an Experience
- Multifactorial
 - Nociceptive / physical
 - Psychological / mood





Definitions

- Chronic pain lasting over one month
- Acute pain lasting less than a week
- Morphine Equivalent Dosage (MEQ) the mg of drug your patient takes / day converted to equianalgesic morphine dosage
- Opioid Risk how likely your patient is to use opioids in a non-prescribed manner or for a nonmedical purpose.

The Harsh Truth(s)

It's a bad time to be a Chronic Pain Patient

- Many physicians don't want to (or are afraid to) write pain medications.
- It's very hard to see a pain specialist.
- Pharmacies often don't want to carry opioids – especially the higher dosages
- You could be robbed for your pain meds
- Less pain medications available in 2017
- Treatment options are often not covered by insurance

It's a bad time to be a Physician with chronic pain patients

- There are many guidelines, recommendations, and laws
- Proper documentation and PDMP use is time-consuming
- You don't want to be seen as the 'candyman' in your community
- You see in the news almost daily about a physician being jailed or fined for improper prescribing
- Naloxone, abuse-deterrent opioids, and many non-opioid choices are often not covered by insurance (while most opioids are)

DEA Ratchets Down Opioid Production

he supply of almost every Schedule II opioid manufactured in the United States will be reduced 25% or more in 2017, as required by the Drug Enforcement Administration (DEA).

The new quota will be sufficient to meet the estimated medical, scientific, research, industrial and export needs for the year, and for the maintenance of reserve stocks, said Demetra Ashley, associate deputy administrator of the DEA Diversion Control Division. Affected drugs include oxycodone, hydrocodone (reduced to 66% of this year's quota), fentanyl, hydromorphone, morphine and other similar opioids.

"DEA must balance the production of controlled substances needed for legitimate use

Pain Medicine News

December 2016 Volume 14, Number 10

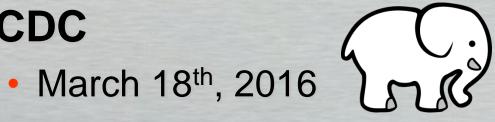
On the front page...

More Harsh Truths

- We have an opioid overdose epidemic in the USA with a 33% overall increase in the last 5 years (per CDC)
- Deaths from synthetic opioids like illicit fentanyl are up 73% while oxycodone and hydrocodone are up 4%.
- Heroin related deaths are up 50%
- US citizens are about 5% of the worlds population, yet use 80% of the global supply of opioids
- Our patients want a pill for everything and seem minimally willing to participate in their own health care – other than take pills

Guidelines

- CDC



- Excludes Palliative / End-of-Life / CA pts
- Federation of State Medical Boards
 - Revised Spring 2017
- State level recommendations and laws
- Most professional pain organizations
- "Standards of Care"

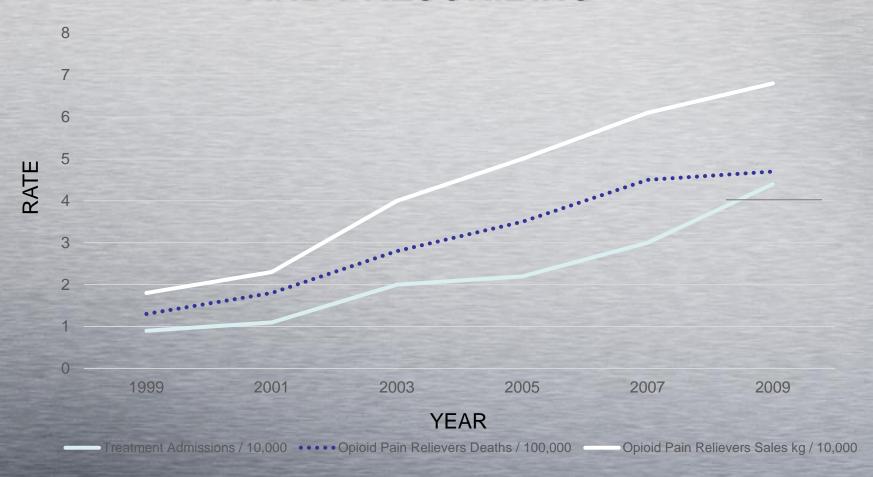
Changes in Rates of Opioid Prescribing

On July 6, 2017, the US Centers for Disease Control and Prevention reported that between 2006 and 2015 the amount of opioids prescribed in the United States peaked in 2010 at 782 morphine milligram equivalents (MME) per capita and then decreased each year through 2015 to 640 MME per capita. Prescribing rates increased from 72.4 to 81.2 prescriptions per 100 persons between 2006 and 2010, were constant between 2010 and 2012, and then declined to 70.6 per 100 persons from 2012 to 2015, a 13.1% decline. Yet the amount of opioids prescribed in 2015 remains more than 3 times higher than in 1999, when the amount prescribed was 180 MME per capita

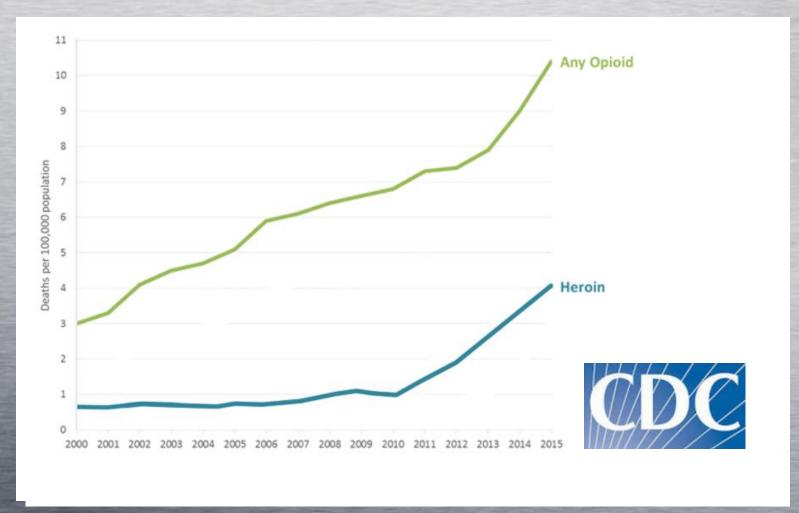
Additional data from the report include that high-dose opioid prescribing, defined as a daily dose of 90 MME or higher, was stable between 2006 and 2010, and then declined from 11.4 per 100 persons in 2010 to 6.7 in 2015. Also reported was substantial variation in 2015 at the county level from an average of 203 MME per capita in the lowest quartile of counties to 1319 MME per capita in the highest quartile.

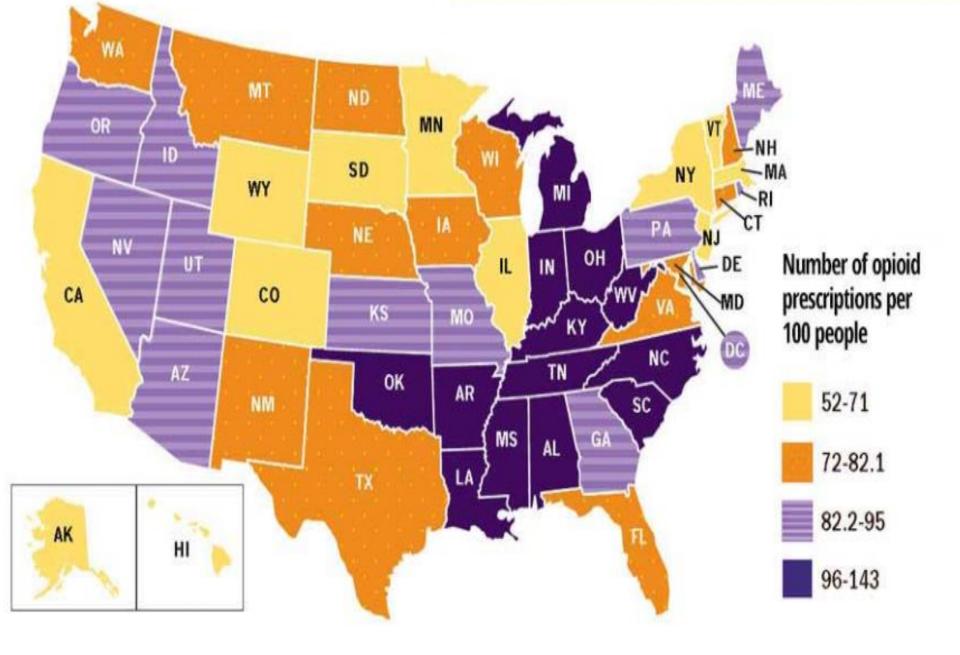
Schuchat A, Houry D, Guy GP. New Data on Opioid Use and Prescribing in the United States. *JAMA*.2017;318(5):425-426. doi:10.1001/jama.2017.8913

OPIOID DEATHS, TREATMENT ADMISSIONS AND PRESCRIBING

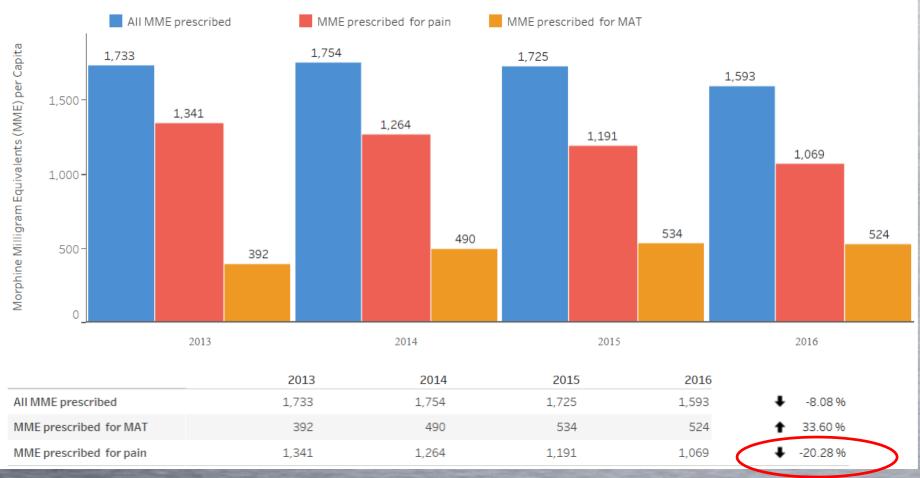


OVERDOSE DEATHS INVOLVING OPIOIDS, U.S, 2000-2015



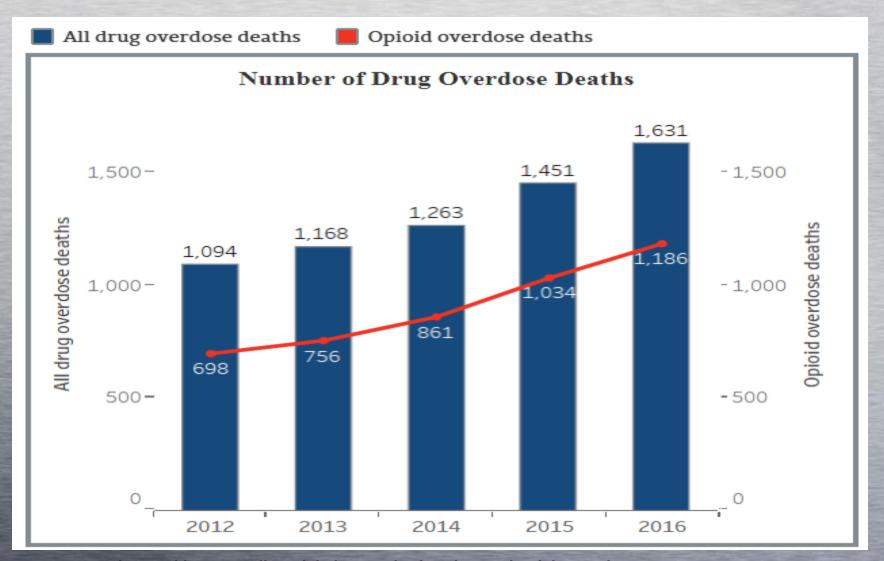


Painkiller Prescriptions: Tennessee





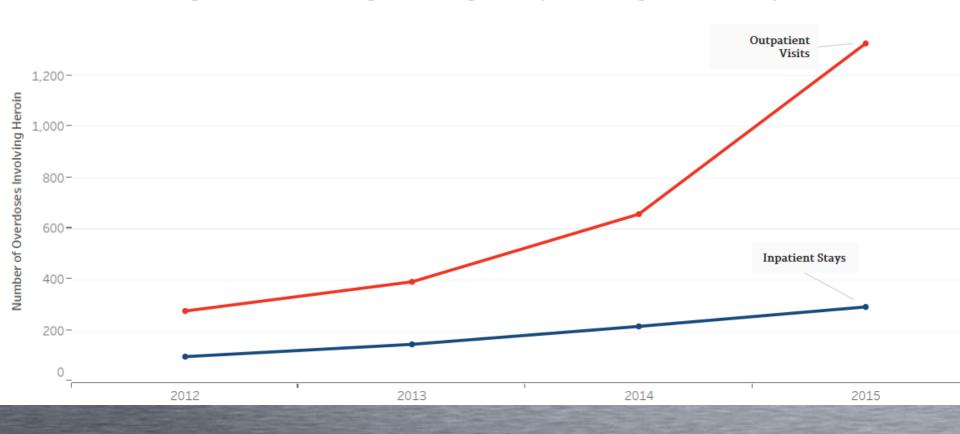
TN Overdose Deaths



http://tn.gov/health/topic/pdo-data-dashboard

Heroin in TN

Number of Outpatient Visits and Inpatient Hospital Stays Involving Heroin, TN, by Year 2012-2015



http://tn.gov/health/topic/pdo-data-dashboard

PDMP: Prescription Drug Monitoring Program

TN Controlled Substances Monitoring Database Program www.tncsmd.com Administered by Department of Health General Schedule II-V are monitored **Dispensers and Prescribers are required** to register and input data • Before prescribing, there is **an obligation** to review under certain circumstances Prescribers, dispensers; county medical examiner; law enforcement/judicial; licensing boards; inspector general, the Medicaid fraud control unit, and the bureau of TennCare related to participants in TennCare; chief pharmacist, the state opioid treatment authority, and the medical director of the department Access of mental health and substance abuse services; quality improvement committee of hospital; patient; third party with signed consent form Prescribers can authorize a registered delegate Must be entered into PDMP 24 hours after dispensing Unsolicited reports/alerts are sent to prescribers, dispensers, licensing boards, law enforcement Reporting Tennessee **does share** data with other states' PDMP Out-of-state pharmacies are required to report to the patient's home state

Patient will not be notified if their record has been accessed.

Medical and Recreational Marijuana Status

- It is not legal to prescribe
- It is not legal for recreational use

http://lawatlas.org/query?dataset=medical-marijuana-patient-related-laws http://www.namsdl.org/controlled-substances-and-prescription-drugs-maps.cfm Jan. 2017

Patient Prescriber Agreement and Treatment Programs

- A Patient Prescriber Agreement (PPA) is recommended or required http://www.namsdl.org/library/7440DB2D-FE8C-5D71-83963097CEEE4A1F/ Jan. 2016
- For a list of treatment programs in this state: https://findtreatment.samhsa.gov/locator/home

Success with Regulations



2012 Action:

New York required prescribers to check the state's prescription drug monitoring program before prescribing painkillers.

2013 Result:

Saw a 75% drop in patients who were seeing multiple prescribers to obtain the same drugs, which would put them at higher risk of overdose.



2010 Action:

Florida regulated pain clinics and stopped health care providers from dispensing prescription painkillers from their offices.

2012 Result:

Saw more than 50% decrease in overdose deaths from oxycodone.



2012 Action:

Tennessee required prescribers to check the state's prescription drug monitoring program before prescribing painkillers.

2013 Result:

Saw a 36% drop in patients who were seeing multiple prescribers to obtain the same drugs, which would put them at higher risk of overdose.

Less Doctor Shopping

Less Oxycodone Overdose Deaths

Less Doctor Shopping

Opioid Risk Tool (ORT)

Mark each box that applies 1. Family history of substance abuse	Female	Male	 Exhibits high degree of sensitivity and specificity 		
• Alcohol	1	3	• 94% of low-risk patients did		
Illegal drugsPrescription drugs	□ 2 □ 4	□ 3 □ 4	not display an aberrant		
2. Personal history of substance			behavior		
abuse	□ 3	□ 3			
• Alcohol	4	4	•91% of high-risk patients did		
Illegal drugs	5	5	display an aberrant behavior		
Prescription drugs					
3. Age (mark box if 16-45 years)	1	1	[]		
4. History of preadolescent sexual abuse	3	0	Risk Level Scoring 0 - 3 Low		
5. Psychological disease			4 - 7 Moderate		
ADD, OCD, bipolar, schizophrenia	2	2	> 8 High		
• Depression	1	1			

Risk Assessment, Office visits, and Drug Screens – per Bailey

- Risk Assessment ORT for baseline risk
- Adjusted upwards by one risk factor category for each of the following:
 - Concurrent benzodiazepine use
 - MME > 90
 - Respiratory compromise (OSA / COPD)
 - Concurrent use of hypnotics
 - Concurrent use of carisoprodol
 - Methadone as analgesic
 - History of aberrant behaviors
 - Drug screens positive for marijuana or alcohol in the past
 - Physician Discretion

How often RTC? (per Bailey)

High Risk

- Drug screen Q3 months
- Office visit Q month
- Must have Rx for Narcan Nose Spray and Instructions documented

Moderate Risk

- Drug screen Q 6 months
- Office visit Q 3 months (if stable)

Low Risk

- Drug screen Q 12 months
- Office visit Q 3 months (if stable)

ALL patients:

- Drug screened on their initial visit and after change in analgesic
- Sign all consents / medication management agreements
- Have current ORT in chart
- PDMP checked on each office visit
- Must have current / working contact information in chart

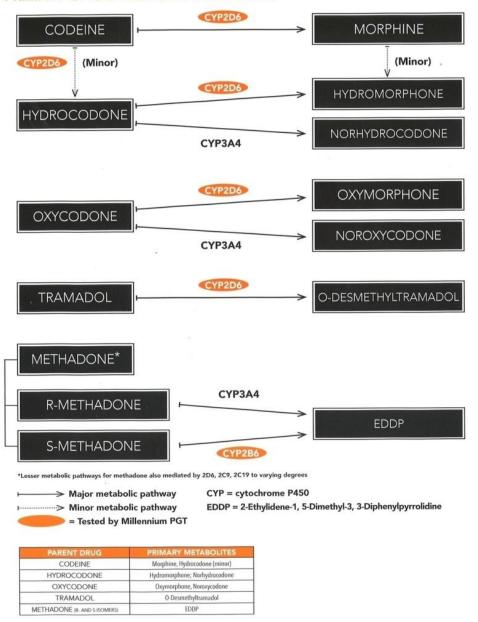
Drug Screen Detection Times

Amphetamines	• 48 hours		
Barbiturates	Short-acting (eg, secobarbital), 24 hours		
Darbiturates	● Long-acting (eg, phenobarbital), 2–3 weeks		
Benzodiazepines	3 days if therapeutic dose is ingested		
	■ Up to 4–6 weeks after extended dosage (≥ 1 year)		
Cannabinoids	Moderate smoker (4 times/week), 5 days		
	Heavy smoker (daily), 10 days		
	● Retention time for chronic smokers may be 20–28		
	days		
Cocaine	2-4 days, metabolized		
Ethanol	• 2–4 hours		
Methadone	Approximately 30 days		
Opiates	2 days		
Phencyclidine	Approximately 8 days		
	● Up to 30 days in chronic users (mean value = 14 days)		
Propoxyphene	● 6–48 hours		

Gourlay DL, Heit HA. Pain Med. 2009;10 Suppl 2:S115-123.

Opioid Metabolism

PRIMARY OPIOID METABOLIC PATHWAYS^{2,3}



SUBSTANCE FALSELY IDENTIFIED ON TEST	ACTUAL SUBSTANCE	TYPE OF STUDY	NOTES	
Amphetamine and methamphetamine	Selegiline	Single case report ^{1,2}	L-stereoisomer only detected (D-stereoisomer present in illicit drugs)	
Amphetamine and methamphetamine	Vicks Inhaler	Several case reports, controlled-exposure studies 1-3	L-stereoisomer only detected; most positives noted with twice recommended dosage	
Barbiturate	NSAIDs (ibuprofen, naproxen)	Controlled-exposure study of 60 subjects (510 specimens) ⁴	0.4% false-positive rate	
Benzodiazepine	Oxaprozin	Controlled-exposure study of 12 patients (36 specimens) ⁵	100% false-positive rate, some cases lack controls	
Cannabinoid	NSAIDs (ibuprofen, naproxen)	Controlled-exposure study of 60 subjects (510 specimens) ⁴	0.4% false-positive rate	
Opiate	Fluoroquinolone*	Controlled-exposure studies (8 subjects) and case series (9 subjects) ⁶	Most levels detected were below new 1998 threshold (2000 ng/mL)	
Opiate	Rifampin	3 case reports ⁷		
Phencyclidine	Venlafaxine	1case report ⁸	Confirmed by GC-MS (7200 mg intentionally ingested)	
Phencyclidine	Dextromethorphan	1case report ⁹	(500 mg ingested)	
*Ofloxacin and levofloxacin mo	st likely to cause false positive.			

TIRF Products

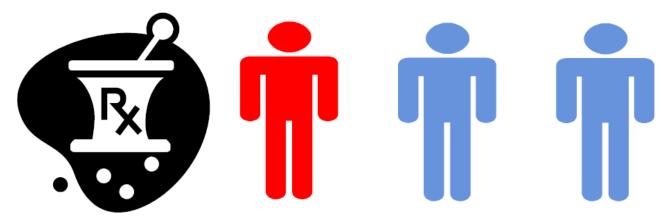
(Transmucosal Immediate Release Fentanyl)

- Only approved for use for breakthrough pain in cancer patients who are opioidtolerant.
- Must be registered with TIRF Program
 - www.tirfremsaccess.com
- Doctor / Patient / Pharmacist must all document its use
- Recent crackdown on 'off-label' use

Methadone-Associated Deaths



- 5,000 people die every year of overdose related to methadone
- Methadone contributed to nearly 1 in 3 prescription opioid deaths in 2009



 Only 2% of opioid analgesic prescriptions were for methadone



Oxymorphone (Opana) ER

Today, the U.S. Food and Drug Administration requested that Endo Pharmaceuticals remove its opioid pain medication, reformulated Opana ER (oxymorphone hydrochloride), from the market. After careful consideration, the agency is seeking removal based on its concern that the benefits of the drug may no longer outweigh its risks. This is the first time the agency has taken steps to remove a currently marketed opioid pain medication from sale due to the public health consequences of abuse. - June 8, 2017

The opioid medication Opana ER is being voluntarily withdrawn from the market, its manufacturer Endo Pharmceuticals said in a statement Thursday. The decision comes less than a month after the U.S. Food and Drug Administration (FDA) requested that drug sales be halted, due to concerns over its potential for misuse and abuse. - Jul 07, 2017

There are generic versions of oxymorphone ER available but are sometimes difficult to find / get.

OPIOID TOLERANT / NAIVE

Tolerance to sedating & respiratory-depressant effects is critical to safe use of certain ER/LA opioid products, dosage unit strengths, or doses

Patients must be opioid tolerant before using:

- Any strength of transdermal fentanyl or hydromorphone ER
- Certain strengths or daily doses of other ER products

Opioid-tolerant patients are those taking at least

- 60 mg oral morphine/day
- 25 mcg transdermal fentanyl/hr
- 30 mg oral oxycodone/day
- 8 mg oral hydromorphone/day
- 25 mg oral oxymorphone/day
- An equianalgesic dose of another opioid



Prognostications



In My Opinion

- Pain management is hard now and is going to get harder.
- Non-opioid treatment is going to have to assume a much more prominent role in chronic pain management – and our patients are going to have to buy into this.
- Both patients and physicians are going to have to get past the 'pill for every symptom' mentality
- Patients are going to have to become more active participants in their own health care
- Naloxone rescue is standard of care
- Methadone use in the treatment of chronic pain will diminish markedly

My Advice

- Apply the concept of risk assessment to your pain patients
- Avoid use of high-dose opioids (whatever that is) and document an effort to decrease dosage whenever possible
- Extreme caution with:
 - Prescribing opioids and benzos
 - Prescribing opioids to anyone who is compromised from a respiratory standpoint (COPD...)
- Encourage the use of Narcan Nasal Spray and abusedeterrent formulations of opioids
- See your pain patients at no less than 90 day intervals
- Refer for addiction evaluation at the first concern
- Pressure carriers to pay for the non-opioid treatments that our guidelines advise (but presently don't cover)
- Know at least the basics of your own state's laws concerning pain management
- Be willing to work with your pharmacist colleagues

Contact Information

UAB Highlands Suite 3800 1201 11th Avenue South Birmingham, AL 35205

(205) 930-8400 office (205) 930-8900 fax

markbailey@uabmc.edu www.uab.edu/neuropain





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