

# UCLA Health

CALIFORNIA ACADEMY OF

FAMILY PHYSICIANS

STRONG MEDICINE FOR CALIFORNIA



SAFE PRACTICES AND SAVING LIVES

DEPARTMENT OF FAMILY MEDICINE

DAVID GEFFENSCHOOL OF MEDICINE AT UCLA AMERICANACADEM OF FAMILY PHYSICIANS

OPIOID PRESCRIBING:

2018 UPDATE

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# Disclosures

- American Academy of Family Physicians, Executive Committee, Commission of Education

### - California Academy of Family Physicians,

Board of Directors, District IV

#### - University of California Los Angeles

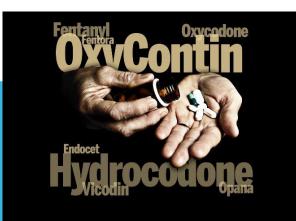
Family Medicine Department, Residency Associate Program Director Assistant Clinical Professor

#### - I have no commercial or private interests to declare

# PUBLIC HEATH CRISIS OF OPIOID OVERDOSES IN THE UNITED STATES

- Drug overdose deaths in the US have more than quadrupled since 1999
- 63,632 = total overdose deaths in 2016, a 21% increase
   from 2015
- Worst addiction epidemic in the U.S. Every day, 44 people in the U.S. die from opioid OD. Nearly 2 deaths/hr
- Prescription opioids, heroin, and synthetic opioids (fentanyl) are the major causes of the drug overdose deaths





# PUSH FOR PAIN CONTROL IN 80's and 90'S

- Under-treatment of pain
- Pain as a human rights issue
- Early data that opioid risks were low
- Pain as 5<sup>th</sup> vital sign
- Porter J., Jick H., et al, New England Journal of Medicine, Jan 1980
  - "the development of addiction is rare in medical patients with no history of addiction"
- Portenoy R., 1986

-

- "opioid maintenance therapy can be a safe, salutary and more humane alternative to surgery or to not treating a patient with chronic pain"
- The Joint Commission, 2000
  - "there is no evidence that addiction is a significant issue when persons are given opioids for pain control."





### **MARKETING FOR PAIN CONTROL IN 1990'S**

# **FREEDOM FROM PAIN!**

#### Extra strength pain relief free of extra prescribing restrictions.

Telephone prescribing in most states Up to five refills in 6 months No triplicate Rx required

Excellent patient acceptance.

In 12 years of clinical experience, nausea, sedation and constipation have rarely been reported.1

COMPARATIVE PHARMACOLOGY OF TWO ANALGESICS					
	Constipation	Perspiratory Depression	Sedation	Emesis	Physical Dependence
HYDROCODONE		x			x
OXYCODONE	XX	XX	XX	XX	XX

#### The heritage of VICODIN," over a billion doses prescribed.<sup>2</sup>

VICODIN ES provides greater central and peripheral

- action than other hydrocodone/acetaminophen combinations.
- · Four to six hours of extra strength pain relief from a single dose
- The 14th most frequently prescribed medication in America



#### Tablet for tablet, the most potent analgesic you can phone in.

Please see brief summary of prescribing information on adia

(hydrocodone bitartrate 5 mg [Warning: May be habit forming] and acetaminophen 500mg) Data on file. Knoll Pharmaceuticals
 Standard industry new prescription audit

Maintain control of your patient's therapy. Speci (hydrocodone bitartrate 7.5mg (Warni May be habit formina) and acetaminophen 750mg) It's your prescription not a suggestion.

herd ADVERSEREACTIONS Th

mes bradycardia and hypote V3057/4-92

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### **1996: THE BIRTH OF OXYCONTIN**





# PUBLIC HEATH CRISIS OF OPIOID OVERDOSES IN THE UNITED STATES





Yet there has not been an overall change in the amount of pain that Americans report.

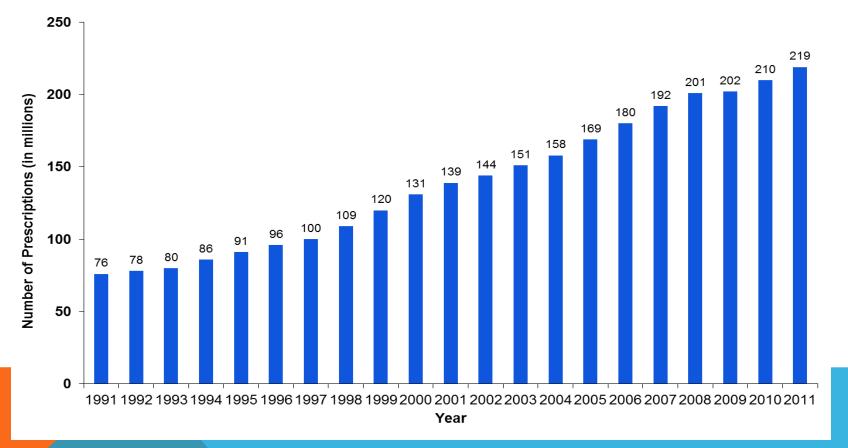
CDC.gov



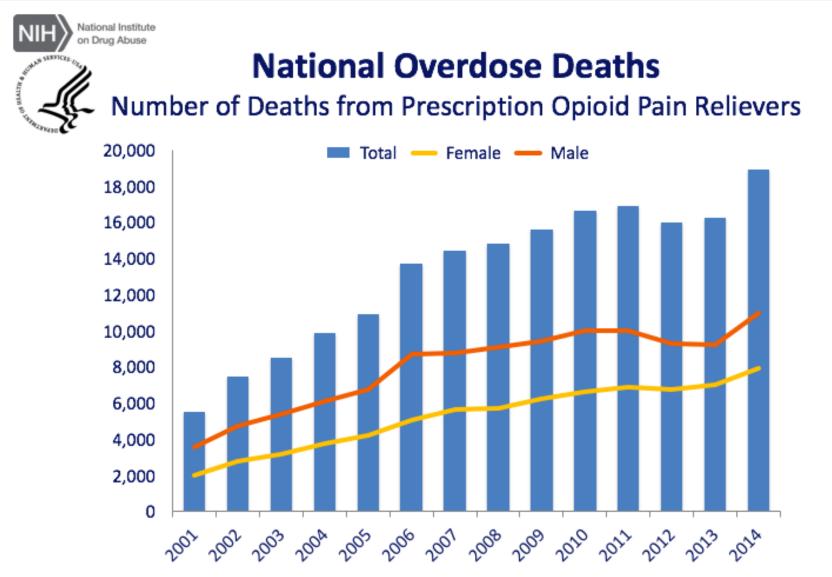
TIME Magazine, June 15, 2015



### Opioid Prescriptions Dispensed by Retail Pharmacies- United States 1991-2011

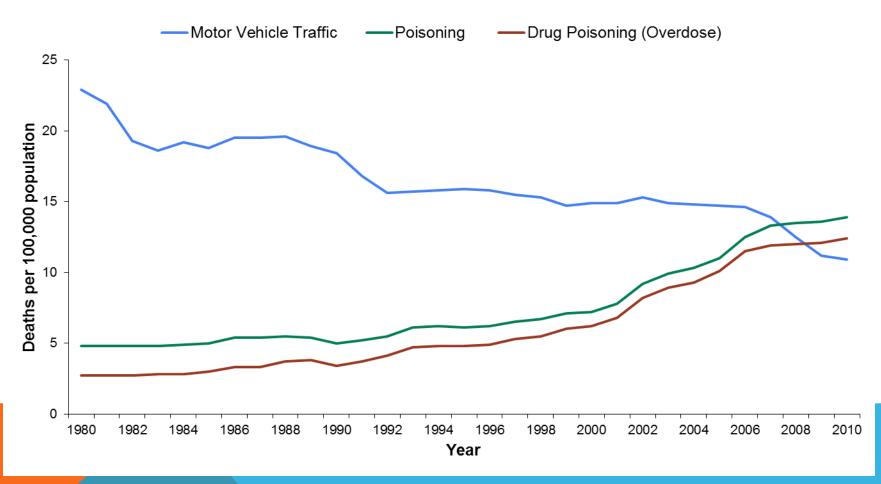


IMS Vector One. From "Prescription Drug Abuse: It's Not what the doctor ordered." Nora Volkow National Prescription Drug Abuse Summit, April 2012.



Source: National Center for Health Statistics, CDC Wonder

### Motor Vehicle Traffic, Poisoning, and Drug Overdose Death Rates, US 1980-2010

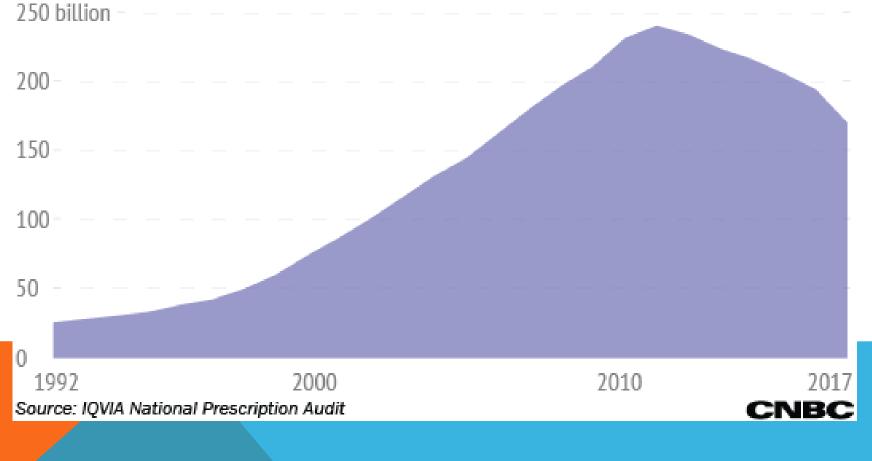


NCHS Data Brief, December, 2011. Updated with 2009 and 2010 mortality data.

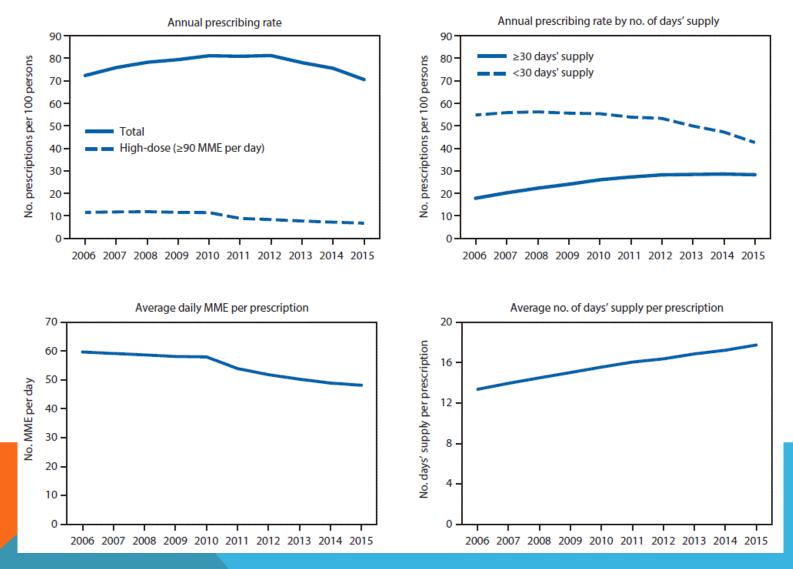
# **Providers starting to prescribe less opioids**

# **Opioids of the masses**

Narcotic analgesic dispensed volume in morphine milligram equivalents (MME)



### **Providers starting to prescribe less opioids**



CDC Vital Signs: Changes in Opioid Prescribing in the United States, 2006–2015. MMWR Morb Mortal Wkly Rep 2017;66:697–704.



### **National Overdose Deaths** Number of Deaths Involving All Drugs

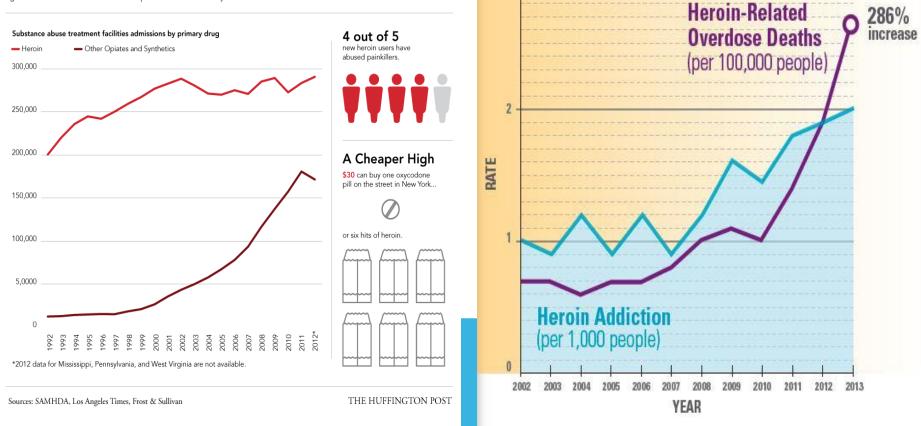
80,000 Total 72,306 Female 70,000 63,632 Male 60,000 50,000 40,000 30,000 20,000 10,000 0 Provisional 2017 2014 2002 2003 2004 2005 2006 2001 2008 2009 2010 2012 2012 2013

Source: National Center for Health Statistics, CDC Wonder

# Opioid prescribing is now decreasing, but many patients are switching to heroin

#### Painkillers And The Heroin Market

A growing number of people are using heroin in recent years, in part because it can be cheaper and easier to find than opioid painkillers purchased on the black market. Most heroin users were first hooked on prescription opioids, which generated \$11 billion in 2010 for the pharmaceutical industry.



NCHS Data Brief, December, 2011. Updated with 2009 and 2010 mortality data.

### Most recent sharp rise due to fentanyl

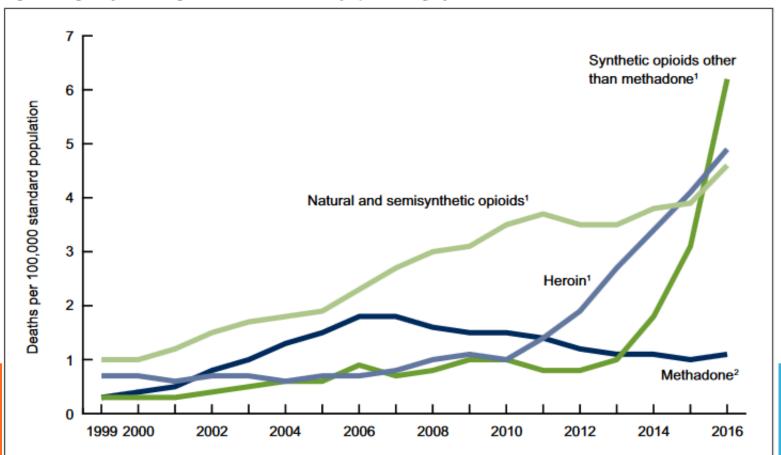


Figure 4. Age-adjusted drug overdose death rates, by opioid category: United States, 1999-2016

www.cdc.gov/drugoverdose

# UNITED STATES DEPARTMENT OF JUSTICE OFFICE OF PUBLIC AFFAIRS

#### February 21<sup>st</sup>, 2011

CDC declares a opioid addiction epidemic in US

April  $9^{th}$  , 2013

States start passing legislation allowing lay persons to administer naloxone

#### March 10th , 2014

Attorney General Holder, Calling Rise in Heroin Overdoses 'Urgent Public Health Crisis,' Vows Mix of Enforcement, Treatment

#### August 8<sup>th</sup> , 2016

Surgeon General, Dr. Vivek Murthy, asks all health care provider to take "The Pledge", launches Turnthetiderx.org, releases CDC Opioid Prescribing Guideline

#### October 26th , 2017

Trump declares opioid crisis a "public health emergency", but does not declare it a "national emergency" => thus no new funds are requested or allocated

### Turnthetiderx.org

#### -Pocket Guide -MME Calculator -PDMP's



#### PRESCRIBING OPIOIDS FOR CHRONIC PAIN

#### ADAPTED FROM CDC GUIDELINE

Opioids can provide short-term benefits for moderate to severe pain. Scientific evidence is lacking for the benefits to treat chronic pain.

IN GENERAL, DO NOT PRESCRIBE OPIOIDS AS THE FIRST-LINE TREATMENT FOR CHRONIC PAIN (for adults 18+ with chronic pain > 3 months excluding active cancer, paliative, or end-of-life care).

#### **BEFORE PRESCRIBING**

#### ASSESS PAIN & FUNCTION

Use a validated pain scale. Example: PEG scale where the score = average 3 individual question scores (30% improvement from baseline is clinically meaningful).

- Q1: What number from 0 10 best describes your PAIN in the past week? (0 = "no pain", 10 = "worst you can imagine")
- Q2: What number from 0 10 describes how, during the past week, pain has interfered with your ENJOYMENT OF LIFE? (0 = "not at all", 10 = "complete interference")
- Q3: What number from 0 10 describes how, during the past week, pain has interfered with your GENERAL ACTIVITY? (0 = "not at all", 10 = "complete interference")

#### CONSIDER IF NON-OPIOID THERAPIES ARE APPROPRIATE

Such as: NSAIDs, TCAs, SNRIs, anti-convulsants, exercise or physical therapy, cognitive behavioral therapy.

#### TALK TO PATIENTS ABOUT TREATMENT PLAN

- Set realistic goals for pain and function based on diagnosis.
   Set criteria for stopping or continuing opioid. Set criteria for regular progress
- Discuss benefits, side effects, and risks (e.g., addiction, overdose).
- Set citeria for stopping of continuing opioid. Set criteria for regular progress assessment.
   Check patient understanding about treatment plan.

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Calculating Total Daily Dose & MME Conversions (2 pages)



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SOURCE: Centers for Disease Control and Prevention, 2016



Prescription Drug Monitoring Programs (PDMPs) (2 pages)



SOURCE: Centers for Disease Control and Prevention, 2016

#### Checklist for prescribing opioids for chronic pain

For primary care providers treating adults (18+) with chronic pain ≥3 months, excluding cancer, palliative, and end-of-life care

#### CHECKLIST

#### When CONSIDERING long-term opioid therapy

- Set realistic goals for pain and function based on diagnosis (eg, walk around the block).
- Check that non-opioid therapies tried and optimized.
- Discuss benefits and risks (eg, addiction, overdose) with patient.
- Evaluate risk of harm or misuse.
  - Discuss risk factors with patient.
  - Check prescription drug monitoring program (PDMP) data.
    Check urine drug screen.
- Set criteria for stopping or continuing opioids.
- □ Assess baseline pain and function (eg, PEG scale).
- □ Schedule initial reassessment within 1-4 weeks.
- Prescribe short-acting opioids using lowest dosage on product labeling; match duration to scheduled reassessment.

#### REFERENCE

#### EVIDENCE ABOUT OPIOID THERAPY

- Benefits of long-term opioid therapy for chronic pain not well supported by evidence.
- Short-term benefits small to moderate for pain; inconsistent for function.
- Insufficient evidence for long-term benefits in low back pain, headache, and fibromyalgia.

#### NON-OPIOID THERAPIES

- Use alone or combined with opioids, as indicated:
- Non-opioid medications (eg, NSAIDs, TCAs, SNRIs, anti-convulsants).
- Physical treatments (eg, exercise therapy, weight loss).
- Behavioral treatment (eg, CBT).
- Procedures (eg, intra-articular corticosteroids).

EVALUATING RISK OF HARM OR MISUSE Known risk factors include: • Illegal drug use: prescription drug use for

# SO WHEN DO YOU PRESCRIBE OPIOIDS?

# **CDC Opioid Prescribing Guidelines**

### Acute pain

- $\Rightarrow$  lowest effective dose of immediate-release opioids
- $\Rightarrow$  => 3 days or less, rarely more than 7 days



### Chronic pain

- $\Rightarrow$  No restrictions for active cancer, palliative, and end-of-life
- ⇒ Line between acute pain and initial chronic pain not always clear
- ⇒ Pain lasting longer than 3 months or past the time of normal tissue healing is generally no longer considered

acute

# LONG-TERM OPIOID TREATMENT

- $\Rightarrow$  Set realistic goals regarding pain and function based on dx
- ⇒ Check that non-opioid therapies tried and optimized
- $\Rightarrow$  Discuss benefits and risks
- $\Rightarrow$  Set criteria for stopping or continuing opioids
- ⇒ Assess baseline pain or function (PEG scale)
- $\Rightarrow$  Schedule initial reassessment in 1-4 weeks
- ⇒ Evaluate risk of harm or misuse
  - $\Rightarrow$  Check prescription drug monitoring program (PDMP) data
    - $\Rightarrow$  In California CURES 2.0
    - ⇒ Check urine drug screen

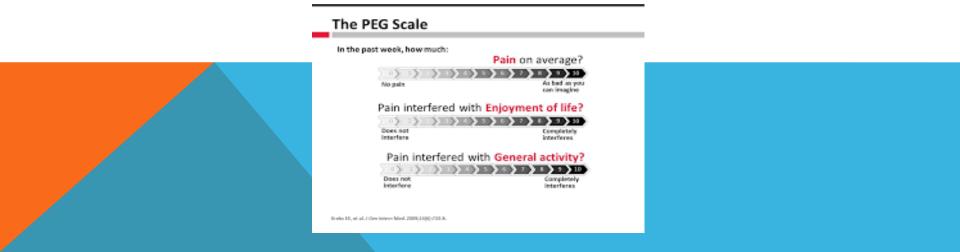




### Assessing Pain & Function Using PEG Scale

#### **PEG Score = average 3 individual question scores**

- => 30% improvement from baseline is clinically meaningful
- Q1: What number from 0-10 best describes your pain in the past week?
- **Q2:** What number from 0-10 best describes how during the past week, pain has **interfered with your enjoyment of life**?
- Q3: What number from 0-10 best describes how during the past week, pain has interfered with your general activity?



# WHEN REASSESSING AT RETURN VISIT

- ⇒ Assess baseline pain or function (PEG scale), and compare to baseline
- $\Rightarrow$  Observe patient for signs of over-sedation/overdose risk
- $\Rightarrow$  Check PDMP
- $\Rightarrow$  Determine with to continue, adjust, taper, or stop opioids
- Calculate opioid dosage morphine milligram equivalent (MME)
  - ⇒ If ≥50 MME/day total (≥50mg hydrocodone; ≥33mg oxycodone)
    - $\Rightarrow$  Increase freq of f/u; consider offering naloxone
- $\Rightarrow$  If  $\geq$ 90 MME/day ( $\geq$ 90mg hydrocodone;  $\geq$ 60mg oxycodone)
  - ⇒ Carefully document justification; consider specialist referral

Schedule reassessment at regular intervals (<3months)

# **Calculating MME**

#### 50 MME/day:

- 50 mg of hydrocodone (10 tablets of hydrocodone/ acetaminophen 5/300)
- 33 mg of oxycodone (~2 tablets of oxycodone sustained-release 15 mg)
- 12 mg of methadone ( <3 tablets of methadone 5 mg)

#### 90 MME/day:

- 90 mg of hydrocodone (9 tablets of hydrocodone/ acetaminophen 10/325)
- 60 mg of oxycodone (~2 tablets of oxycodone sustained-release 30 mg)
- ~20 mg of methadone (4 tablets of methadone 5 mg)

#### Calculating morphine milligram equivalents (MME)

OPIOID (doses in mg/day except where noted)	CONVERSION FACTOR	
Codeine	0.15	
Fentanyl transdermal (in mcg/hr)	2.4	
Hydrocodone	1	
Hydromorphone	4	
Methadone		
1-20 mg/day	4	
21-40 mg/day	8	
41-60 mg/day	10	
≥ 61-80 mg/day	12	
Morphine	1	
Oxycodone	1.5	
Oxymorphone	3	







www.silkroad-pharmacy.com

# NALOXONE (NARCAN)

- reverses the effects of opioids including respiratory depression, sedation and hypotension
- pure opioid antagonist
- antagonizes opioid effects by competing for the  $\mu$ ,  $\kappa$  and  $\delta$  opiate receptor sites in the CNS
- does not possess the "agonistic" or morphine-like properties characteristic of other opioid antagonists
- in the absence of other opioids it exhibits essentially no pharmacologic activity



# **LEGISLATIVE CHANGES IN CALIFORNIA**

#### AB 635, Ammiano. Drug overdose treatment: liability.

legislation that supports and provides legal protections for health care providers to prescribe naloxone to be administered by non-medical personnel in cases of suspected life threatening opioid overdose

#### AB 1535, Bloom. Pharmacists, Naloxone Hydrochloride:

legislation that supports and provides legal protections for pharmacists to prescribe naloxone to patients in accordance with standardized procedures and protocols developed and approved by the Medical Board of California and California State Board of Pharmacy



### **New Regulations form CA Medical Board**

- Starting October 2<sup>nd</sup>, 2018, all California providers who prescribe controlled substance (Class II to IV) are required to check the state's Controlled Substance Utilization Review and Evaluation System (CURES) website.
- Rule applies to ALL schedule II to IV substances: includes opioids, benzodiazepines, and stimulants
- Prescriber only one should check the CURES report by logging into website.
- Prescriber is not allowed to share password to CURES website with anyone

\*Prescriber may designate a delegate to search for a patient in the CURES database but cannot review the search result, can only forward the search result to the prescribing provider\*

### https://oag.ca.gov/cures/faqs

California Health and Safety Code section 11165.4(a)

### New regulations from CA Medical Board

#### Acute Rx:

unless

- mandatory to check CURES before 1<sup>st</sup> presciption, less than 5 day supply

- CURES can not be check no earlier than 24hrs (or previous business day) before prescribing

#### **Chronic Rx:**

every patient needs a face-to-face visit AT LEAST
 every 3 months
 check CURES at least every 4 months – now MANDATORY
 Urine Tox screen AT LEAST annually

https://oag.ca.gov/cures/faqs

California Health and Safety Code section 11165.4(a)

# **New Regulations**

#### CA Assembly Bill 2760 (Wood):

- Signed by Gov. Brown just 2 weeks ago
- Requires all providers to offer a prescription of Naloxone with any opioid Rx if:
  - 90MME / day or above
  - opioid is prescribed concurrently with a benzodiazepine
  - Patient has increased risk for opioid overdose
- Requires provider to provide education and caution regarding overdose symptoms and reversal agents

f prescriber fails to offer naloxone Rx or provide use information => shall be referred to the licensing organization for administrative action

#### History:

31 y/o M presents to urgent care for acute knee pain. Pt reports falling off ladder and hitting his knee while working in his garage last night. He reports being in 9/10 pain and is having difficulty ambulating and bending his knee. He has a history of peptic ulcer disease and reports being intolerant to NSAID's. He also has a history of anxiety that is currently well controlled with Sertraline 100mg Qday and Lorazepam 1mg BID. "I need something strong to ease the pain doc."

#### Pexam:

large ecchymosis over R patella, +TTP over patella, ROM with flexion and extension limited by pain to 110 degrees, no ligamentous laxity noted, minimal joint line tenderness

#### Imaging:

R knee Xray -neg for acute fracture, minimal degenerative changes

 $\Rightarrow$ Would you prescribe opioids for this patient?

 $\Rightarrow$  If yes what type? How many days supply?

⇒What else are you required to do for regulatory compliance?



⇒Rx Hydrocodone/APAP 5mg/325mg 1 tab PO Q8H prn severe pain

- ⇒ 3 tabs x 5mg =15mg hydrocodone/day = 15MME/day
- $\Rightarrow$ #12 (3 day supply)
- $\Rightarrow$ 1<sup>st</sup> time you are prescribing opioid to this patient need to check CURES Patient Activity Report
- ⇒Pt is on both opioids and benzodiazepines required to offer Rx for naloxone

Calculating morphine milligram equivalents (MME)

CONVERSION FACTOR	
0.15	
2.4	
1	
4	
4	
8	
10	
12	
1	
1.5	
3	

#### History:

55 y/o F presents to your primary care office for acute on chronic back pain. Pt is well known to you. She a h/o of severe spinal stenosis, s/p multiple ESI. She goes to acupuncture and does home physical therapy. Is currently taking Naproxen 500mg bid, Gabapentin 800mg tid, Dialudid 4mg po q4h.

#### Pexam:

patient in significant discomfort, standing in room because sitting exacerbates her pain, significant pain with flexion and extension of low back, 5/5 motor strength in b/I LE, sensation intact, normal rectal tone

MRI L-spine: significant spinal stenosis L1-L4

 $\Rightarrow$ Is the opioid regimen appropriate for this patient?

 $\Rightarrow$  If not, how would you change it?

⇒What else are you required to do for regulatory compliance?



- ⇒ convert short acting opioid to long-acting opioid for better pain control, and less risk of abuse
- Dilaudid (Hydromorphone) 4mg q4h = 24mg Dilaudid/day
  - $\Rightarrow$ 24mg x 4 = 96MME/day
- $\Rightarrow$ MS Contin 30mg q8h (90MME)
- $\Rightarrow$ #90 (30 day supply)
- $\Rightarrow$ Document PEG scale score
- ⇒Utox now
- $\Rightarrow$ need to check CURES Patient Activity Report
- ⇒Provide naloxone prescription, review overdose risks, refer to pain management specialist to co-mange patient

#### Calculating morphine milligram equivalents (MME)

OPIOID (doses in mg/day except where noted)	CONVERSION FACTOR	
Codeine	0.15	
Fentanyl transdermal (in mcg/hr)	2.4	
Hydrocodone	1	
Hydromorphone	4	
Methadone		
1-20 mg/day	4	
21-40 mg/day	8	
41-60 mg/day	10	
≥ 61-80 mg/day	12	
Morphine	1	
Oxycodone	1.5	
Oxymorphone	3	

# **Take Home Points**

- Opioid overdose death rates have dramatically risen and the opioid epidemic in the US is worsening
- Maximize non-opioid therapies for pain management first, make opioids your last option
- CDC guidelines for opioid treatment
  - Treat acute pain for 3 days, rarely more than 7 day
  - If treating pain longer than 3 months then likely chronic pain
  - When treating chronic pain the hallmarks for dosing are ≥50MME/day and ≥90MME/day
- CURES 2.0 database checks are required for controlled substance prescribing starting October 2<sup>nd</sup>, 2018
  - CA Prescribers are required to offer naloxone Rx and counseling for high risk patients starting January 1<sup>st</sup>, 2019
- Use CDC resources: Turningthetiderx.org

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# **QUESTIONS? AT THE END**

