

Community Forum on Opioid Use and Addiction

October 21, 2016

David Tauben, MD | Chief, Division of Pain Medicine, University of Washington

Todd Korthuis, MD | Associate Professor of Medicine, Program Director of Addiction
Medicine, Oregon Health Sciences University

Frances Gough, MD | CMO, Molina Healthcare of WA



Your Extended Family.

Agenda:

Session A

7:30am - Welcome & Introductions

7:35am - David Tauben, MD Chief, University of Washington Division of Pain Medicine
*Assessment, Treatment, and the Challenge of Opioids:
Overcoming Barriers to **SAFE & EFFECTIVE** Pain Care Delivery*

8:15am - Todd Korthuis, MD, MPH, Associate Professor of Medicine, Program Director of Addiction Medicine, Oregon Health Sciences University
Recognition and Treatment of Opioid Use Disorder in Patients with Chronic Pain

9:00am - Panel Q&A: Audience Case Discussion

Session B

12:00pm - Welcome & Introductions

12:05pm - David Tauben, MD, FAPC, Chief, University of Washington Division of Pain Medicine
*Assessment, Treatment, and the Challenge of Opioids:
Overcoming Barriers to **SAFE & EFFECTIVE** Pain Care Delivery*

12:50pm - Todd Korthuis, MD, MPH, Associate Professor of Medicine, Program Director of Addiction Medicine, Oregon Health Sciences University
Recognition and Treatment of Opioid Use Disorder in Patients with Chronic Pain

1:30pm - Panel Q&A: Audience Case Discussion



Clinical Presentation

- RJ*
- Lives in Western Washington
- Diagnoses: *complex medical and behavioral health conditions including chronic pain due to traumatic brain injury, PTSD and depression*

Areas of Concern

- RJ needed help getting procedures and medications approved, specifically for pain management
- In-home assistance was needed and connections to community resources

Molina Intervention

- Located a provider willing to prescribe pain medication
- Facilitated further medical assessments to update her diagnosis
- Identified resources for caregiving assistance
- Helped RJ better understand her condition and direct her to community resources

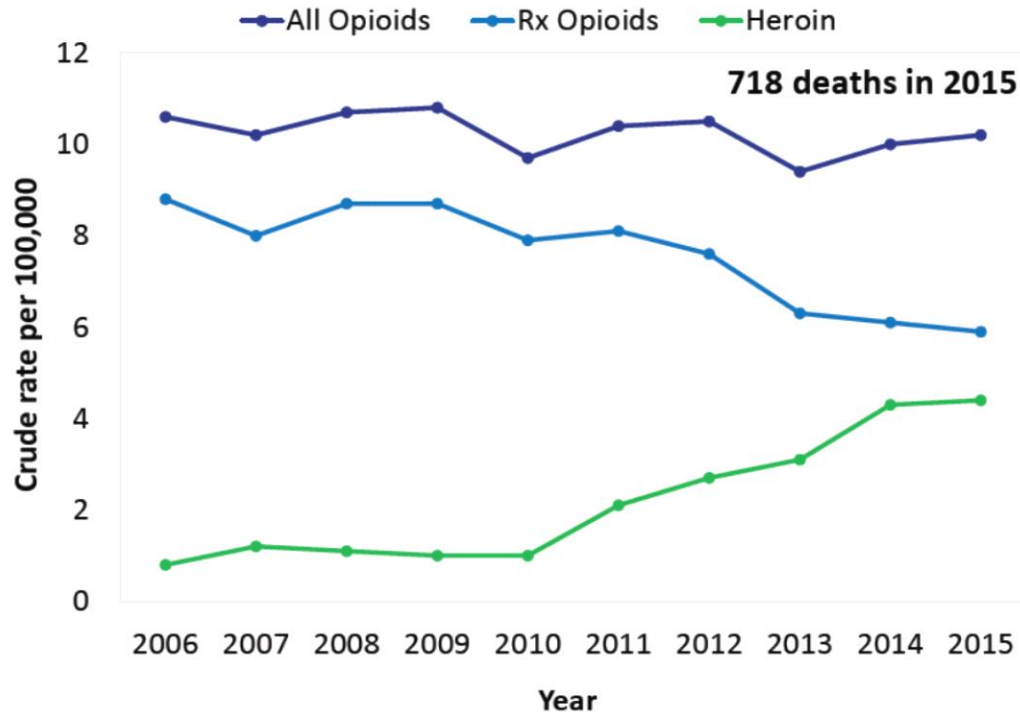


Outcomes

- RJ has a PCP willing to help manage her pain
- She has received updated diagnosis
- In-home care assistance has been secured
- She is attending a support group

Rx opioid deaths are decreasing while heroin overdoses have risen sharply

Trends in WA state 2006-15, excluding falls



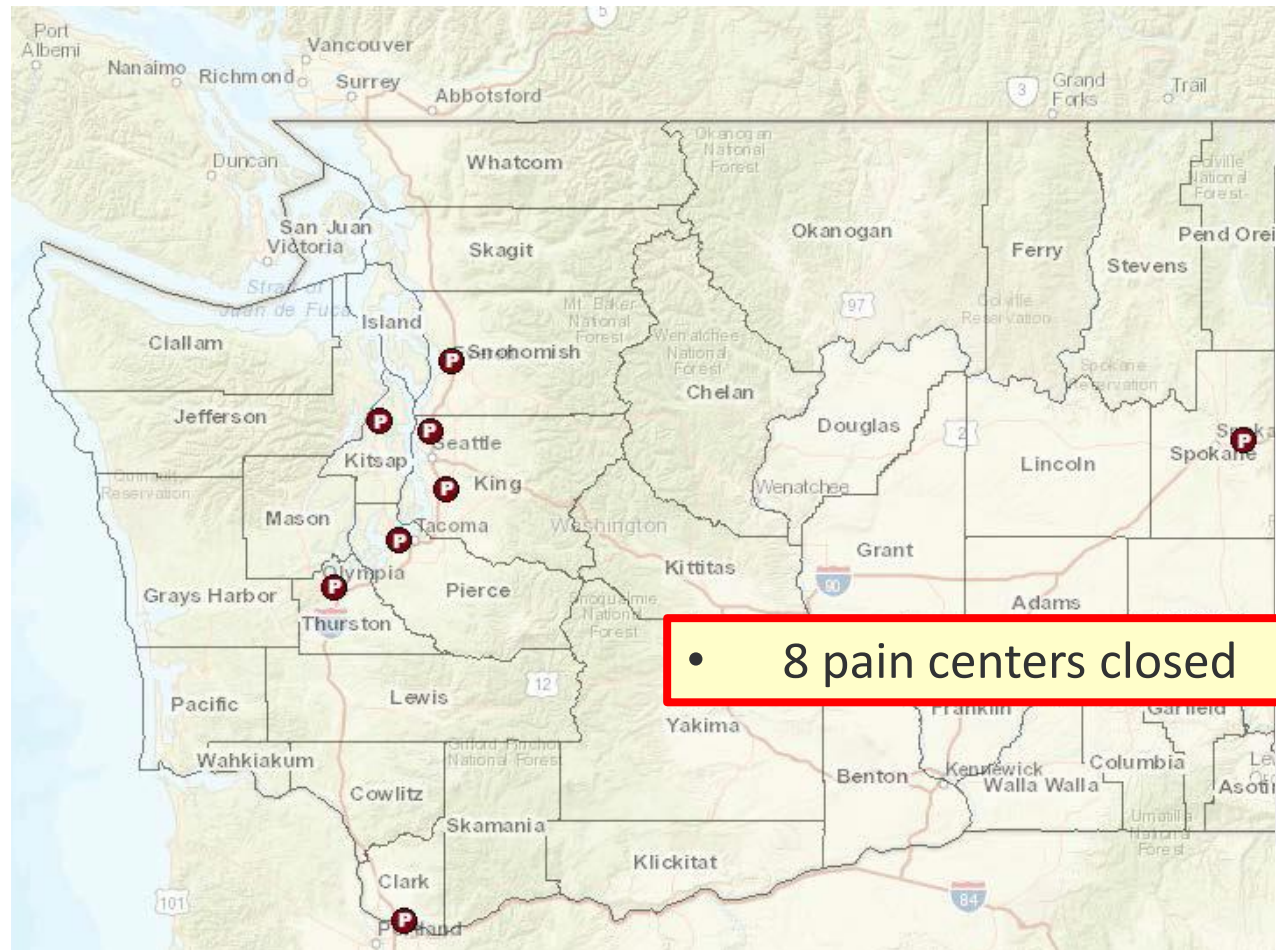
Source: Department of Health death certificates

Overall WA Mortality Rates*:

- 164 firearm homicides
- 633 motor vehicle deaths

*Source: Washington State Department of Health 2014 Mortality Tables

Seattle Pain Center (SPC)





FUNDAMENTALS AND CORE COMPETENCIES OF PAIN MANAGEMENT

Pain: Assessment, Treatment, and the Challenge of Opioids

*Overcoming Barriers to
SAFE & EFFECTIVE Pain Care Delivery*

David J. Tauben, MD, FACP

Chief, UW Division of Pain Medicine
Hughes M & Katherine G Blake Endowed Professor
Clinical Associate Professor
Depts of Medicine and Anesthesia & Pain Medicine
University of Washington, Seattle WA

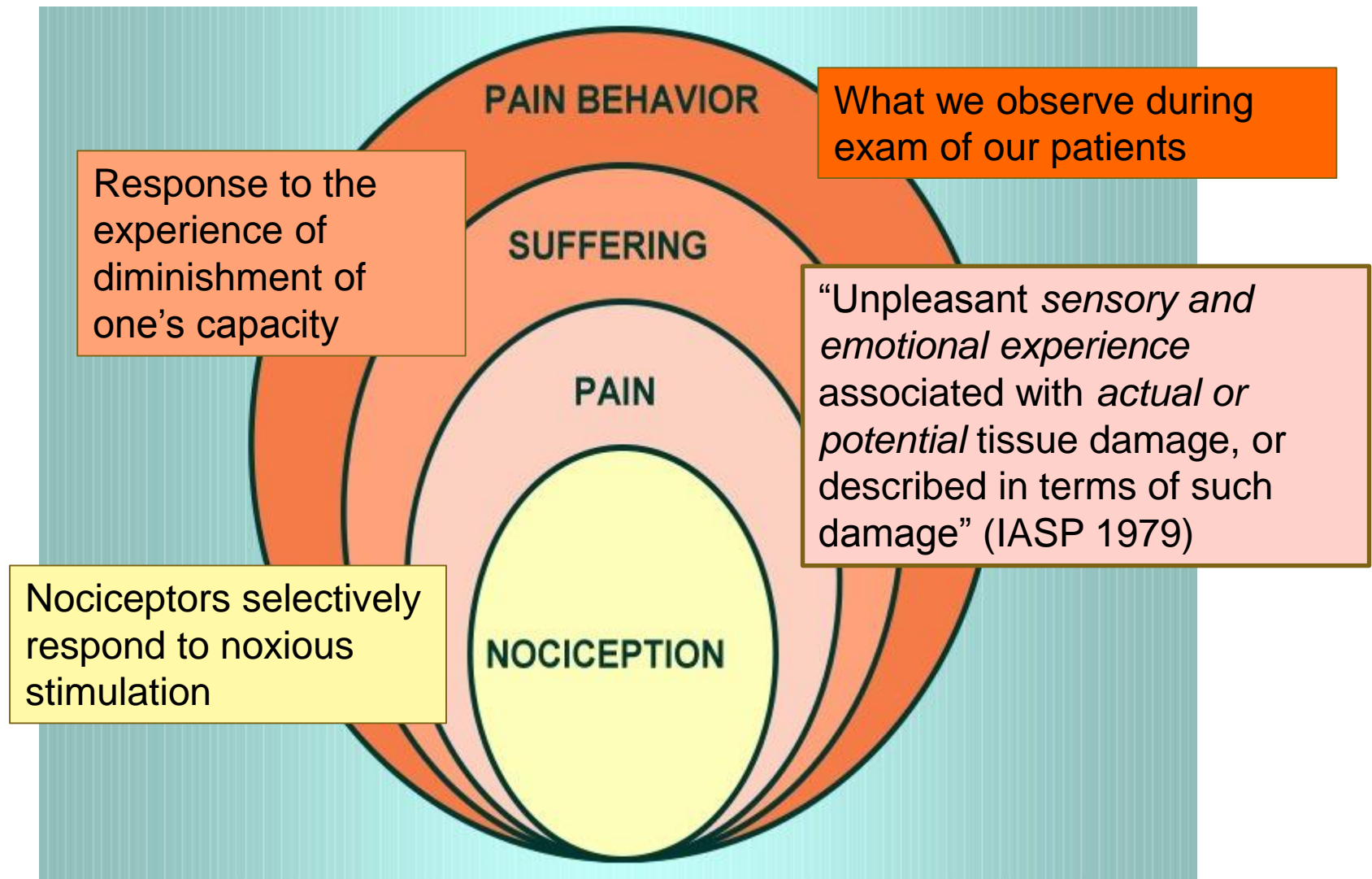
DISCLOSURES

Drs. Korthuis & Tauben report:
No financial conflicts of interest.

Course Learning Objectives

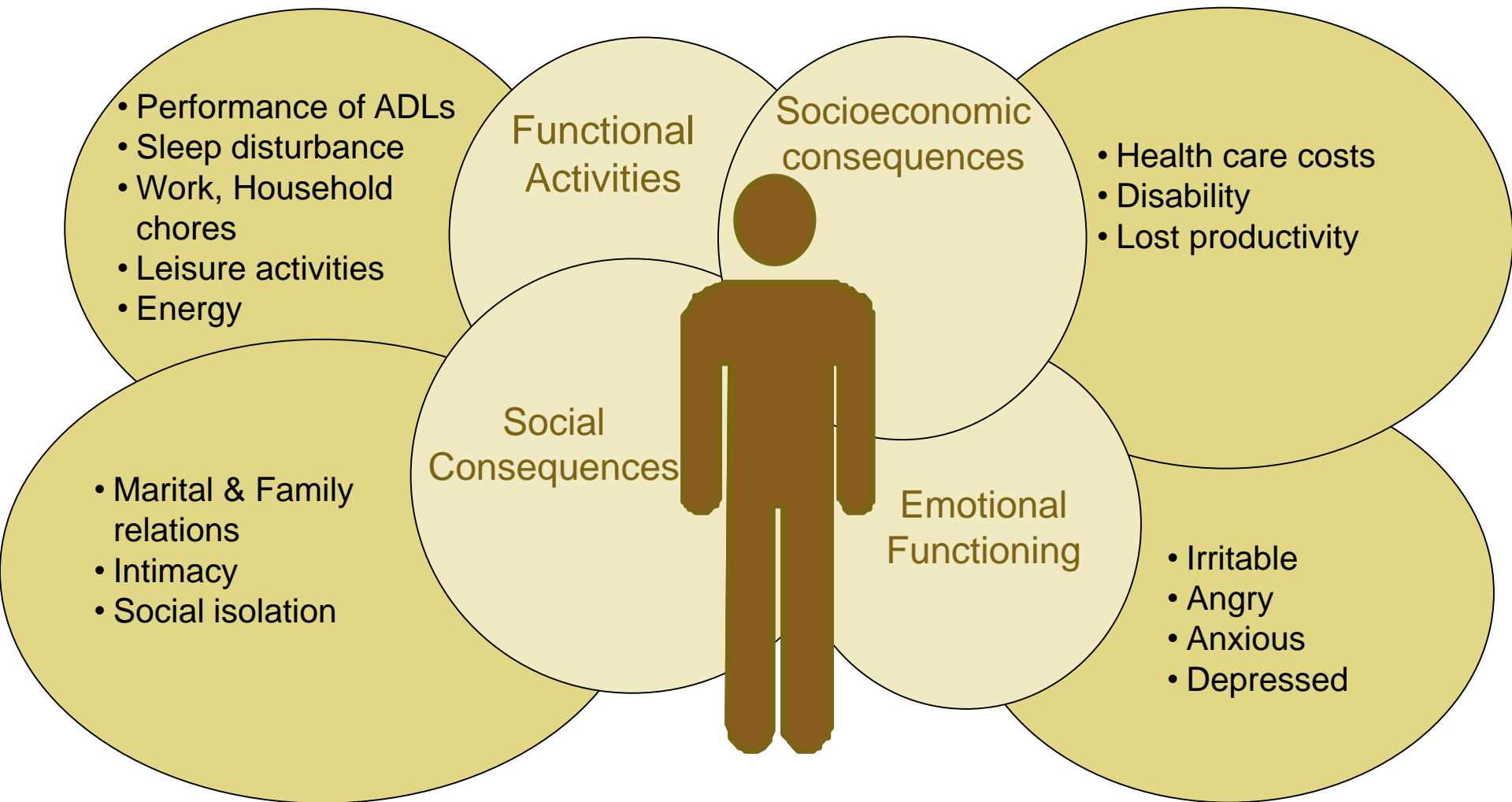
1. Understand challenges of opioid-centric treatment paradigm & limits to effectiveness for chronic pain
2. Understand & implement evidence-based, guideline compliant care (including guidelines for opioid prescribing in the setting of acute pain management)
3. Access expert resources and education to support practice-based chronic pain management
4. Diagnosis, treatment, and referral of opioid use disorder in a patient with chronic pain

Pain is *NOT* Nociception



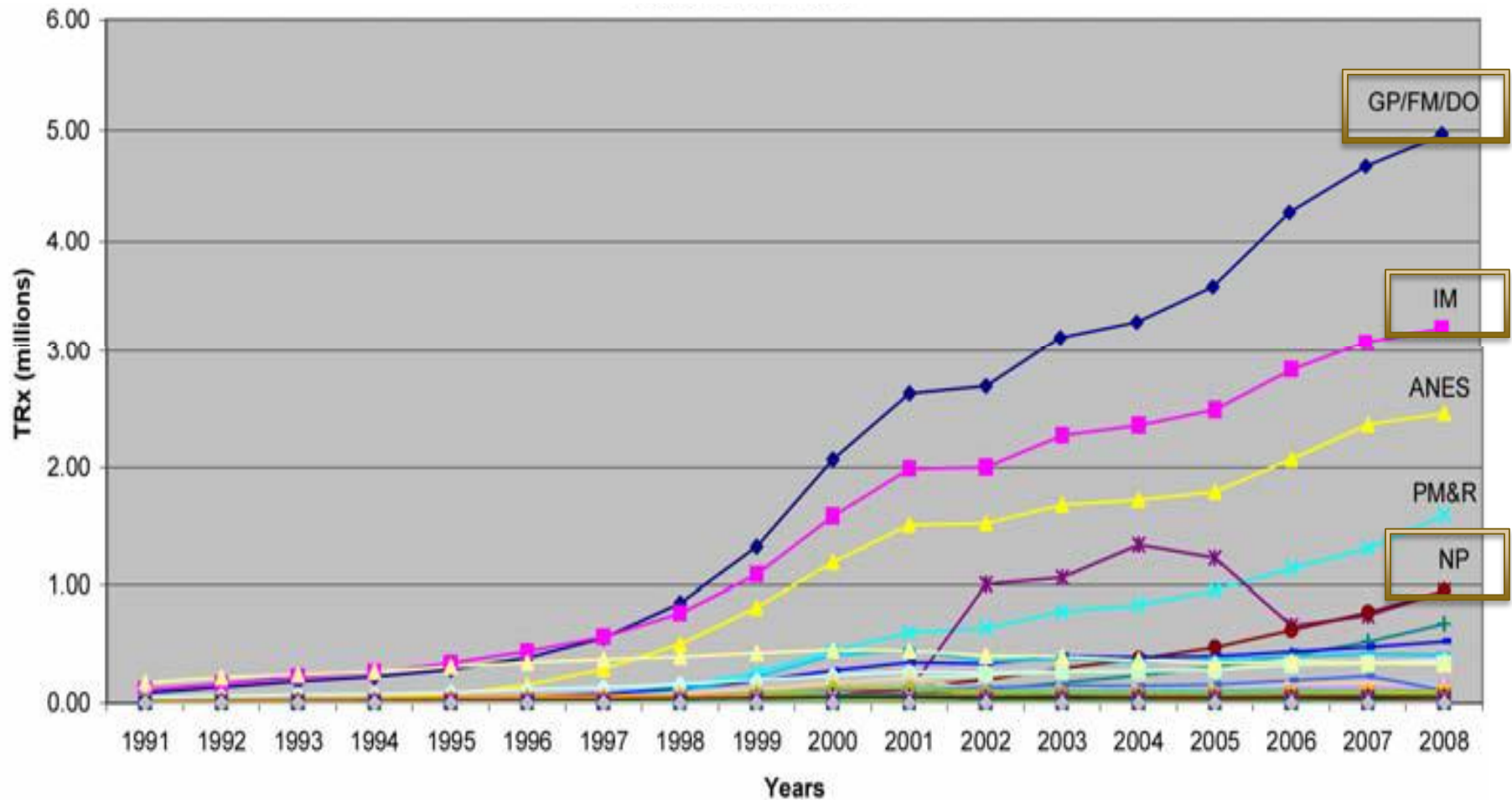
The “Loeser Onion”

Multidimensional Burden of Chronic Pain

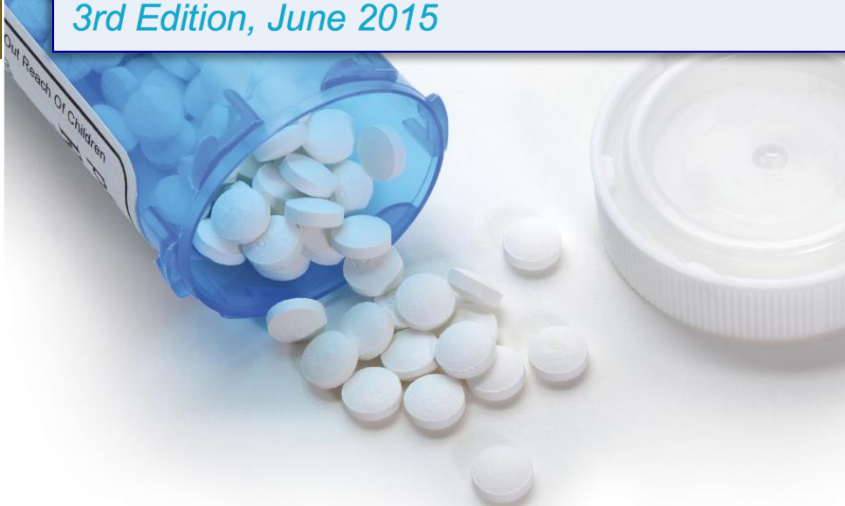


Total Outpatient Prescriptions of ER Opioids, (by Medical Specialty)

SDI, Vector One: Nationale. Extracted 12/2009



Written for Clinicians who Care for People with Pain
3rd Edition, June 2015



Interagency Guideline on Prescribing Opioids for Pain

Developed by the Washington State Agency Medical Directors' Group (AMDG) in collaboration with an Expert Advisory Panel, Actively Practicing Providers, Public Stakeholders, and Senior State Officials.

www.agencymeddirectors.wa.gov



AMDG agency medical directors' group

A collaboration of state agencies, working together to improve health care quality for Washington State citizens.

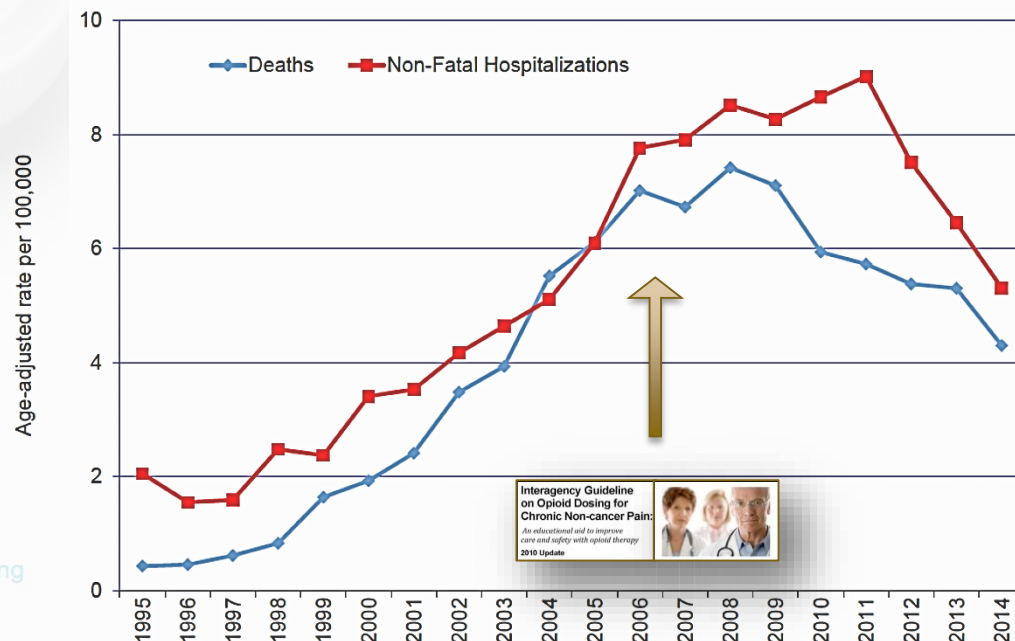
Written for Clinicians who Care for People with Pain
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NIH Pain Consortium
Centers of Excellence in Pain Education



Guidelines Work! Bending the Curve"

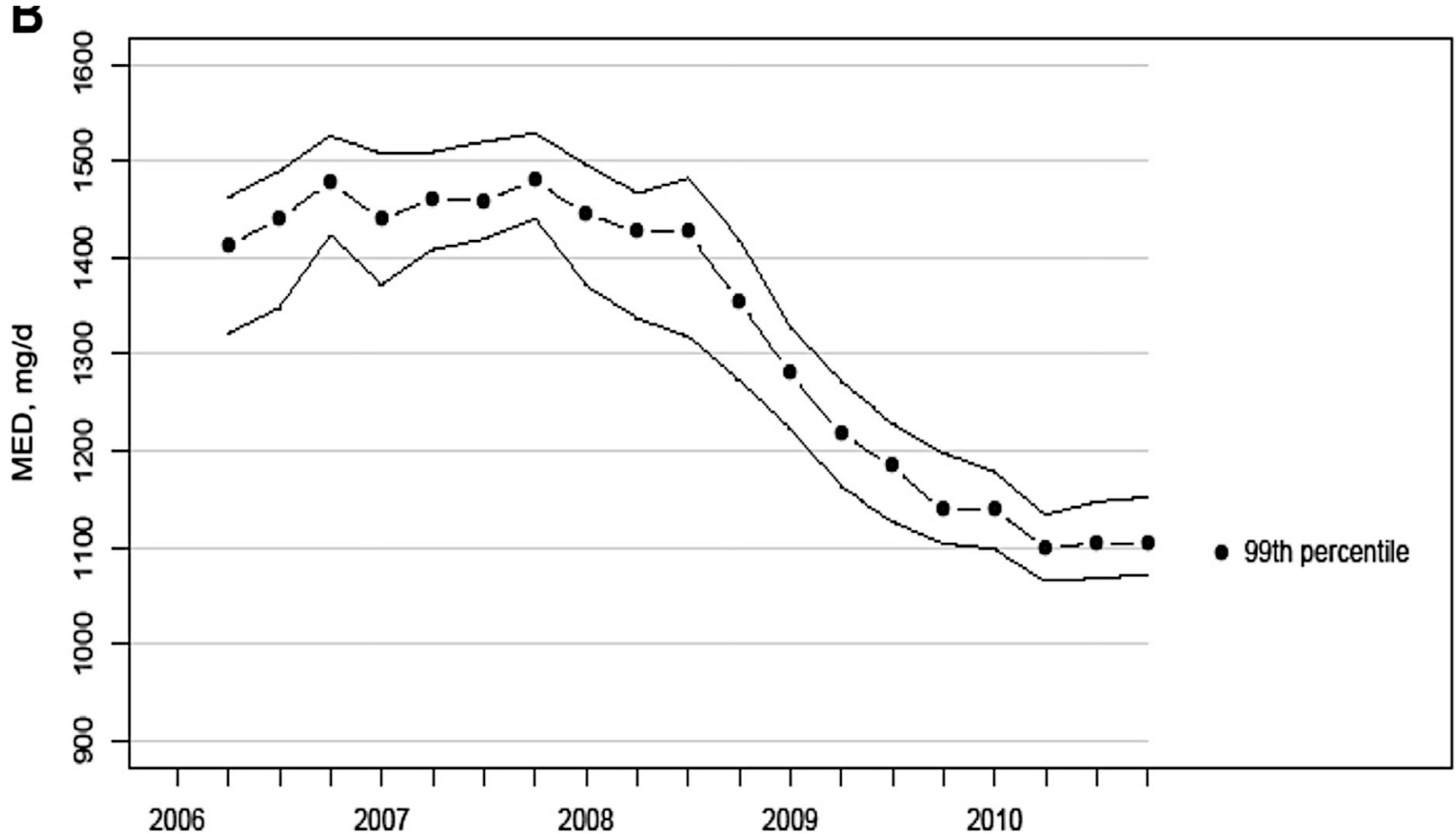
Unintentional Prescription Opioid Involved Overdoses
Washington State



Achieving Guideline Compliant Care

UW Medicine
PAIN MEDICINE

Reduced High Dose Prescribing in WA Medicaid Post-dosing Guideline



Sullivan et al, J Pain 2016;17:561-8

Summary of 2015 Interagency Guideline on Prescribing Opioids for Pain



All pain phases

- Use non-opioid therapies, such as behavioral intervention, physical activity and non-opioid analgesics.
- Avoid opioids if the patient has significant respiratory depression, current substance use disorder, history of prior opioid overdose or a pattern of aberrant behaviors.
- Assess and document function and pain using a validated tool at each visit where opioids are prescribed.
- Don't prescribe opioids with benzodiazepines, carisoprodol, or sedative-hypnotics.

Acute phase (0–6 weeks)

- Check the state's Prescription Monitoring Program (PMP) before prescribing.
- Don't prescribe opioids for non-specific back pain, headaches, or fibromyalgia.
- Prescribe the lowest necessary dose for the shortest duration.
- Opioid use beyond the acute phase is rarely indicated.

Perioperative pain

- Evaluate thoroughly preoperatively: check the PMP and assess risk for over-sedation and difficult-to-control pain.
- Discharge with acetaminophen, NSAIDs, or very limited supply (2–3 days) of short-acting opioids for some minor surgeries.
- For patients on chronic opioids, taper to preoperative doses or lower within 6 weeks following major surgery.

Subacute phase (6–12 weeks)

- Don't continue opioids without clinically meaningful improvement in function (CMIF) and pain.
- Screen for comorbid mental health conditions and risk for opioid misuse using validated tools.
- Recheck the PMP and administer a baseline urine drug test (UDT) if you plan to prescribe opioids beyond 6 weeks.

Chronic phase (>12 weeks)

- Continue to prescribe opioids only if there is sustained CMIF and no serious adverse events, risk factors, or contraindications.
- Repeat PMP check and UDT at frequency determined by the patient's risk category.
- Prescribe in 7-day multiples to avoid ending supply on a weekend.
- Don't exceed 120 mg/day MED without a pain management consultation.

over

When to discontinue

- At the patient's request
- No CMIF
- Risks outweigh benefits
- Severe adverse outcome or overdose event
- Substance use disorder identified (except tobacco)
- Aberrant behaviors exhibited
- To maintain compliance with DOH rules or consistency with AMDG guideline

Considerations prior to taper

- Help the patient understand that chronic pain is complex and opioids cannot eliminate pain.
- Consider an outpatient taper if the patient isn't on high-dose opioids or doesn't have comorbid substance use disorder or other active mental health disorder.
- Seek consultation if the patient failed previous taper or is at greater risk for failure due to high-dose opioids, concurrent benzodiazepine use, comorbid substance use disorder or other active mental health disorder.

How to discontinue

- Taper opioids first if patients are also on benzodiazepines.
- Unless safety considerations require a more rapid taper, start with 10% per week and adjust based on the patient's response.
- Don't reverse the taper; it can be slowed or paused while managing withdrawal symptoms.
- Watch for unmasked mental health disorders, especially in patients on prolonged or high-dose opioids.

Recognizing and treating opioid use disorder

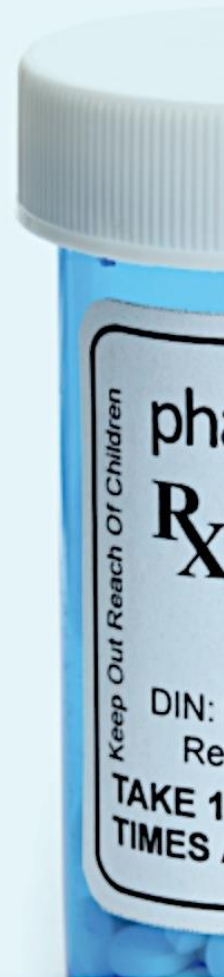
- Assess for opioid use disorder and/or refer for a consultation if the patient exhibits aberrant behaviors.
- Help patients get medication-assisted treatment along with behavioral therapies.
- Prescribe naloxone (especially if you suspect heroin use) and educate patient's contacts on how to use it.

Special populations

- Counsel women before and during pregnancy about maternal, fetal, and neonatal risks.
- For children and adolescents, avoid prescribing opioids for most chronic pain problems.
- In older adults, initiate opioids at 25–50% lower dose than for younger adults.
- For cancer survivors, rule out recurrence or secondary malignancy for any new or worsening pain.

Check out the resources at www.AgencyMedDirectors.wa.gov

- Free online CME
- Opioid Dose Calculator
- Videos from Primary Pain Care Conference



Opioid R_x After Surgery Can Lead to Long-term Use (1)

Retrospective studies 1-year post surgery¹:

- Approximately one-third of all patients were still using opioids
- 18% of patients who did not use opioids before surgery were still using opioids
- older patients (>65 years of age) undergoing low-risk surgery and receiving an opioid prescription²:
 - 10.3% were still taking opioids a year later
 - There was a 44% increase in likelihood that they would become long-term opioid users, compared to patients not receiving a prescription

“...initiation of short-term opioid therapy may lead to their longer-term use”³

1. Wang M et al. *Spine J.* 2013;13:S6-S7. 2. Alam A et al. *Arch Intern Med.* 2012;172:425-430. 3. Katz MH. *Arch Intern Med.* 2012;172:430.

Courtesy Ivan Lesnik, MD

Pain: Acute Phase:

- **≤ 6 weeks post episode of pain or surgery**
- For severe injuries or medical conditions, surgical procedures, or **when alternative non-opioid options are ineffective or contraindicated.**
- If opioids are prescribed, should be for the ***shortest duration and at the lowest necessary dose*** (usually less than 14 days).



NOTE per CDC Guideline for Prescribing Opioids for Chronic Pain :
“3 days or less will often be sufficient; > than 7 days will rarely be needed.”

Use of opioids for non-specific low back pain, headaches, and fibromyalgia is not supported by evidence.

WA State AMDG Guidelines

Opioids in the Acute Pain Phase

- **Explore non-opioid alternatives**
- Set **reasonable expectations**; educate **risks & side effects**.
- Provide patient education on **safekeeping of opioids**.
- Expect improvement in days to weeks:

RE-EVALUATION FOR THOSE WHO DO NOT FOLLOW THE NORMAL COURSE OF RECOVERY.

- Check the **Prescription Monitoring Program (PMP)**
- Assess **FUNCTION & PAIN AT BASELINE AND WITH EACH FOLLOW-UP** visit when opioids are prescribed.
- Document **clinically meaningful improvement** in function and pain **using validated tools** for every opioid refill visit.
 - Taper patient by 6 weeks if clinically meaningful improvement in function and pain has not occurred.

Treatment Adherence Monitoring Prescription Drug Monitoring Program

- 49 of 50 States capture all scheduled medication *dispensed*, even mail order or cash purchased
- Requires prescriber registration; can delegate proxy access to any number of licensed health care assistants
- Can seek registration from neighboring states
- Possible error with name entered by pharmacists:
 - call to verify when unexpected result
- VA/DoD and methadone programs don't report

<https://wapmp-provreg.hidinc.com>

WA State AMDG Guidelines

Opioids in the Peri-Operative Phase

Preoperative Period

Thorough pre-op, risk screening, develop/inform patient of treatment plan (incl. who will prescribe at discharge), no new sedating Rx, avoid dose escalation

Intraoperative Period: **Multimodal analgesia**

Immediate Postoperative Period

Multimodal analgesia, monitor sedation/respiratory suppression, PCA early then PO Rx immediate release opioids

Don't add or raise dose of ER/LA opioids

At the Time of Hospital Discharge

No new benzos/sedatives; avoid alcohol

Introduce taper timeline: plan/schedule

Sub-Acute Phase

(6 -12 Weeks Post Episode Of Pain Or Surgery)

- Discontinuation of opioids unless:
 - **Clinically meaningfully improvement in function**,
(pain interference with **function level of $\leq 4/10$**)
- Discontinuation of opioids if:
 - has led to a **severe adverse outcome**.
- Screen for **depression, anxiety, (possibly PTSD), opioid misuse risk** using validated tools before embarking onto COAT*.
- **Avoid new prescriptions of benzodiazepines/sedative-hypnotics.**

*COAT = Chronic Opioid Analgesic Therapy

Opioids In Chronic Non-cancer Pain

>12 Weeks After an Episode of Pain or Surgery

Needs sustained **clinically meaningful improvement in function *AND* no serious adverse outcomes or contraindications.**

- Extreme caution/consider consultation with **comorbid mental health disorder, family/personal history of substance use disorder, medical condition ... , or concurrent use of benzodiazepines.**
- Routinely assess and document **FUNCTION, MOOD, PAIN, RISK.**

Seek pain expertise if dose ESCALATES ≥ 120 MED and/or RISKS

- Know special **METHADONE** precautions

- Strong evidence that a combination of NSAIDs and acetaminophen is as effective as opioids
 - At least two state dental bodies (Pennsylvania and New Hampshire) recommend using these drugs as first line therapy.
- Avoid opioids in persons ≤ 20 years undergoing dental extractions.
- If opioids are indicated, prescription should be limited to 3 days or 10 tabs of 5 mg hydrocodone.

Moore PA, Hersh EV. Combining ibuprofen and acetaminophen for acute pain management after third-molar extractions. Translating clinical research to dental practice. JADA 2013; 144: 898-908.

Prevention of prescription opioid abuse

JADA 2011

142(7)

The role of the dentist

Richard C. Denisco, MD, MPH; George A. Kenna, PhD, RPh; Michael G. O'Neil, PharmD; Ronald J. Kulich, PhD; Paul A. Moore, DMD, PhD, MPH; William T. Kane, DDS, MBA; Noshir R. Mehta, DMD, MDS, MS; Elliot V. Hersh, DMD, MS, PhD; Nathaniel P. Katz, MD, MS

Dentists prescribe 12% of IR opioids in the U.S.

2nd only to family physicians, who prescribe 15 percent of IR opioids

~3.5 million young people (avg age 20 y.o.)
exposed to opioids for 3rd molar extractions

Ibuprofen is the preferred postoperative analgesic (74%) for oral/maxillofacial surgeons

YET, 85% still prescribed opioids!

= 56 million tabs hydrocodone/year

72% patient prescribed an opioid had leftover medication, and 71% of those with leftover medication kept it

Impact of Mandatory Prescription Drug Monitoring Program on Opioid Prescription By Dentists

- Total numbers of prescribed opioid pills in a 3-month period decreased 78% in absolute quantity.
- Prescriptions for non-opioid analgesics acetaminophen increased during the same periods.

Conclusion

Mandatory PDMP significantly affected the prescription pattern for pain medications by dentists.

Such change in prescription pattern represents a shift towards the evidence-based prescription practices for acute postoperative pain.

Storage and Disposal:

“the danger is in your home”

She gets her hair
from her mom.
Her eyes from her dad.
And her drugs
from her grandma's
medicine cabinet.

70% of children who abuse prescription drugs get them from family or friends. Prevent your children from abusing your own medication by securing your meds in places your child cannot access.

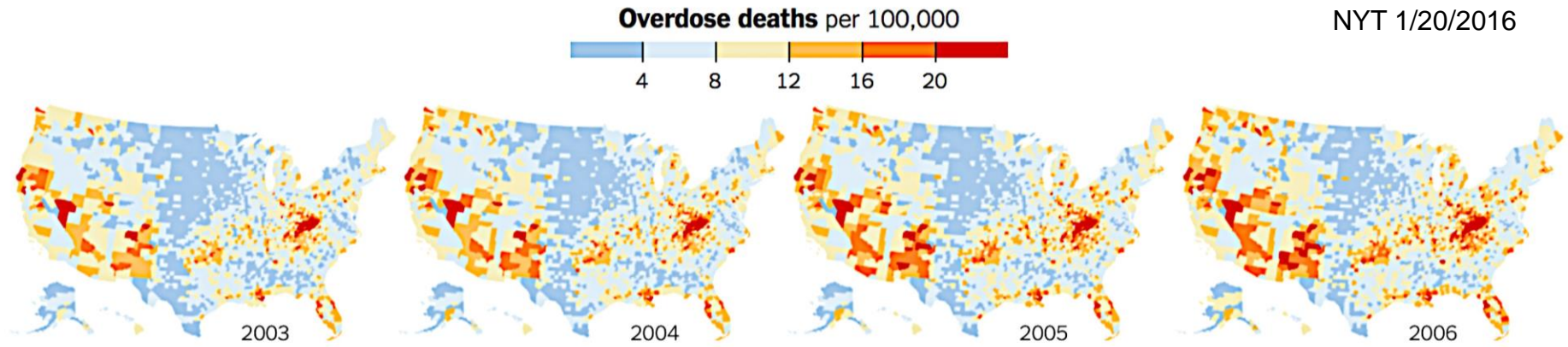
BE AWARE. DON'T SHARE.

For more information, go to www.lockyourmeds.org.

Opioids may fatal with just one dose, and so must be disposed of quickly through a medicine take-back program or by transferring them to a DEA-authorized collector.

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OD DEATHS Ripple Across America



Chronic Pain Treatment

“Comparing” Effectiveness

Extrapolated averages of reduction in *Pain Intensity*

Opioids:	$\leq 30\%$
Tricyclics/SNRIs:	30%
Anticonvulsants:	30%
Acupuncture:	$\geq 10^{+}\%$
Cannabis:	?10-30%
<i>CBT/Mindfulness:</i>	$\geq 30-50\%$
<i>Graded Exercise Therapy:</i>	<i>variable</i>
<i>Sleep restoration:</i>	$\geq 40\%$
<i>Hypnosis, Manipulations, Yoga:</i>	<i>“+ effect”</i>

Turk, D. et al. Lancet 2011; Davies KA, et al. Rheum. 2008; Kroenke K. et al. Gen Hosp Psych. 2009; Morley S Pain 2011; Moore R, et al. Cochrane 2012; Elkins G, et al. Int J Clin Exp Hypnosis 2007.

Are CPPs Treatment Cost-effective?

EVIDENCE OVERWHELMINGLY YES!

Evidence-Based Scientific Data Documenting the Treatment and Cost-Effectiveness of Comprehensive Pain Programs for Chronic Pain and Malignant Pain

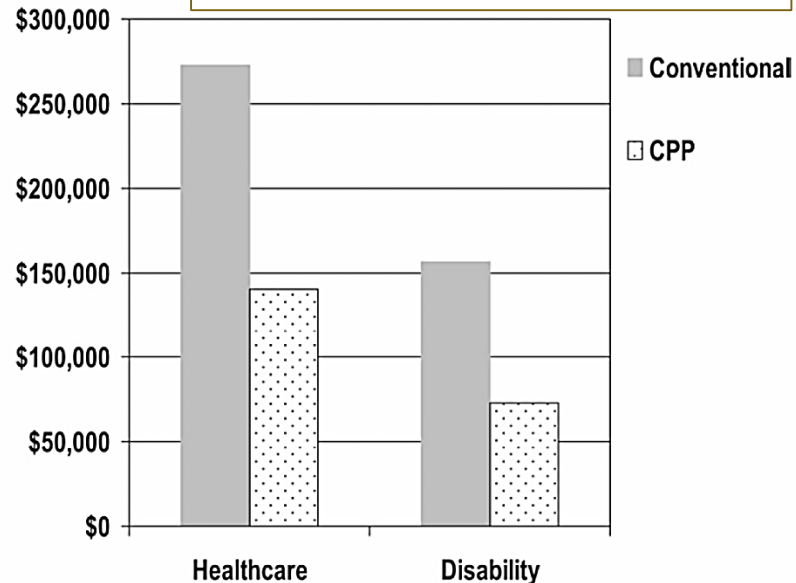
Robert J. Gatchel* and Akiko Okifuji†

J Pain 2006

“This review clearly demonstrates that CPPs offer the most efficacious and cost effective, evidence-based treatment for persons with chronic pain.”

“Unfortunately, such programs are not being taken advantage of because of short-sighted cost-containment policies of third-party payers.”

70% reduced direct costs,
40% reduced disability costs.



AND:

Deschner & Polatin (2000);
Feuerstein & Zostowny (1996);
Gatchel & Turk (1999); Okifuji et al (1999); Turk & Burwinkle (2005); Turk & Gatchel (1999); Wright & Gatchel (2002); Sanders et al (2005).

Non-drug Pain Treatment Approaches

Physical and Occupational Therapies

- Functional activation
- Assistive devices
- Massage/Manipulation

Psychological: Cognitive Behavioral Therapy

- Cognitive reframing
- Behavior change
- Relaxation; MBSR
- Biofeedback techniques

Integrative Medicine (“CAM”)

- Dietary hygiene
- Acupuncture, Acupressure, Massage, Biofeedback...

Spiritual Counseling

- Finding meaning and purpose

“Multimodal Analgesia”

Summary of Major Pain R_x Indications

NSAIDs

- Acute nociceptive pain (inflammation, trauma, perioperative)

Antidepressants (TCA/SNRIs)

- Neuropathic pain
- “Pain Hypersensitivity”
- Also helps sleep & mood

Anticonvulsants

- Neuropathic pain
- “Pain Hypersensitivity”
- Also helps sleep & mood

Opioids

- Acute moderate or severe pain
- For carefully selected chronic pain conditions
- And only after other chronic pain treatments fail

Local anesthetics

- Acute pain in a regional distribution
- Transient relief for some chronic pain related to local nerve injury

98% Of Pain Care by Non-specialists

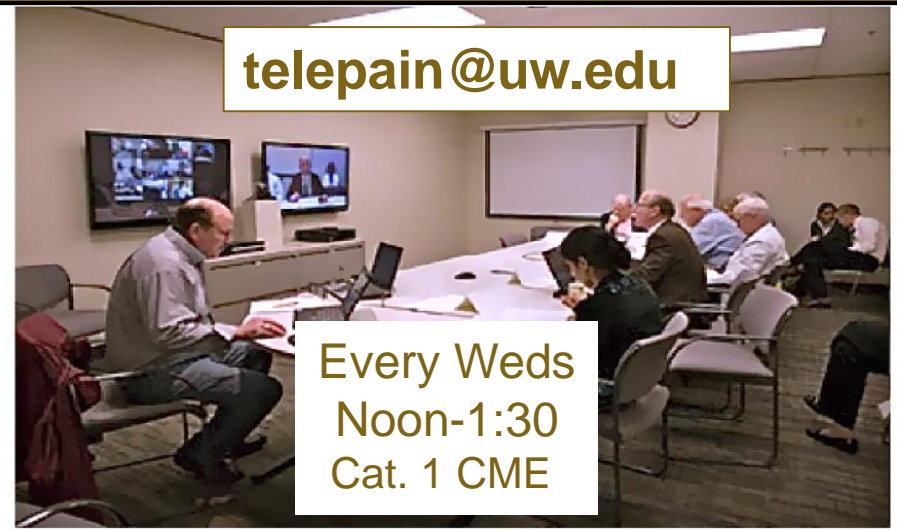
Chronic pain is mostly cared for and best managed in the primary care “medical home” setting, but when PCP’s need help:

Access to multidisciplinary pain consultation is both scarce and difficult to access, especially so for non-metropolitan, rural, and remote communities; and very often for minorities and those reliant upon government sponsored health care.

Daubresse Med Care 2013; Bodenheimer JAMA 2002; Tait Am Psychologist 2014

UW TelePain Multidisciplinary Team

1. Primary care internal medicine or family medicine
2. Anesthesiologist
3. Physical Medicine & Rehabilitation/Psychology
4. Psychiatry
5. Addiction Medicine



Tele-mentoring primary care providers has been demonstrated to improve approach and treatment of chronic pain and so is expected to rapidly reduce costs in outpatient and/or post-acute settings.

- UW's TelePain service offers self-directed training link available on UW TelePain's main site to video series describing the why and how to connect and present cases.

http://depts.washington.edu/anesth/education/pain/telepain_videos.shtml

Eaton LH, Gordon DB, Wyant S, Theodore BR, Meins AR, Rue T, Towle, Tauben D,. Doorenbos A. Development and implementation of a telehealth-enhanced intervention for pain and symptom management. *Contemp Clinic Trials*. 2014;38:213-220.

“Clinically Meaningful Improvement in Function”

“Continuing to prescribe opioids in the absence of **clinically meaningful improvement in function and pain**, or after the development of a severe adverse outcome is not considered appropriate care.”

Pain intensity

Pain interference
with:
Enjoyment of life

General activity

1. What number best describes your <u>pain on average</u> in the past week:											
0	1	2	3	4	5	6	7	8	9	10	
No pain						Pain as bad as you can imagine					
2. What number best describes how, during the past week, pain has interfered with your <u>enjoyment of life</u> ?											
0	1	2	3	4	5	6	7	8	9	10	
Does not interfere						Completely interferes					
3. What number best describes how, during the past week, pain has interfered with your <u>general activity</u> ?											
0	1	2	3	4	5	6	7	8	9	10	
Does not interfere						Completely interferes					

PEG Tool

Identifying Co-occurring Mood Diagnoses

PHQ-9 Scoring Tally Sheet

Not at all	Several days	More than half the days	Nearly every day
------------	--------------	-------------------------	------------------

GAD-7

1

2

3

Little interest or pleasure in doing things
Over the last 2 weeks, how often have you

More than Nearly

PHQ-4

Not at all

Several days

More days than not

Nearly every day

✓ **Anxiety**

GAD-7 (or PHQ-4)

✓ **Depression**

PHQ-9 (or PHQ-4)

✓ **PTSD**

PC-PTSD Screen

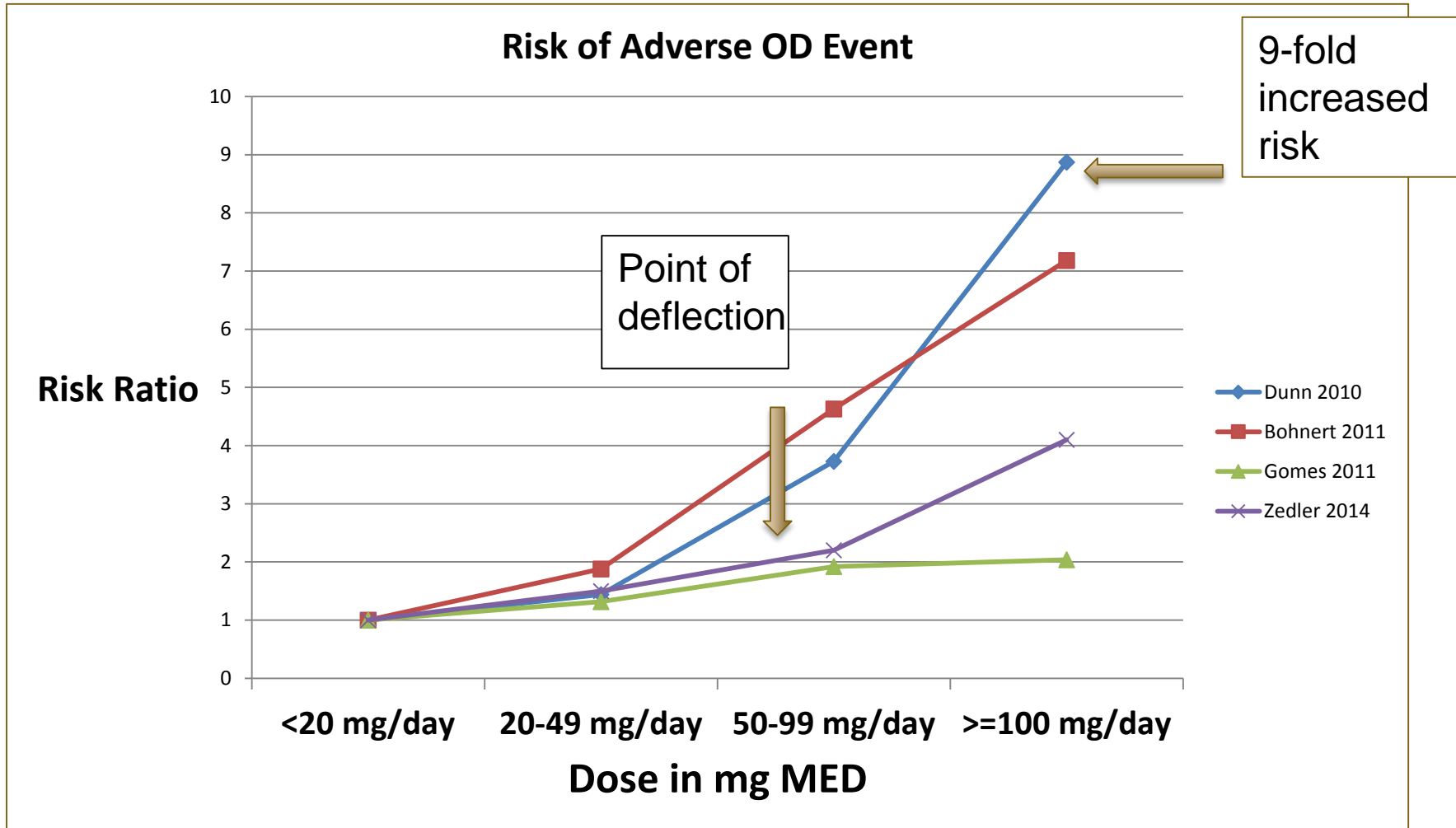
In your life, have you ever had any experience that was so frightening, horrible, or upsetting, that in the past month you:

1. Have had **nightmares** or thought about it when you did not want to?
2. Tried hard ***not to think*** about it or went out of your way to **avoid situations** that reminded you of it?
3. Were constantly **on guard, watchful, or easily startled**?
4. Felt **numb or detached** from others, activities, or your surroundings?

The Allure of Opioids

- ✓ They make patients happy (at least initially).
- ✓ They are very portable and available in the most remote sites.
- ✓ Insurance covers them better than any other pain treatment.
- ✓ The signed prescription closes the visit.

Opioid Overdose Risk by MED



“MED”: Morphine Equivalent Dose

Calculate the MED

Opioid Dose Calculator

Patient's Name:

Today's Date: July 31, 2013

Instructions: Fill in the mg per day* for whichever opioids your patient is taking. The web page will automatically calculate the total morphine equivalents per day. Learn how to add this calculator to your smart phone or tablet home screen here: [Android](#) or [iPhone/iPad](#).

Opioid (oral or transdermal):	mg per day: *	Morphine equivalents:
Codeine	<input type="text"/> 0	
Fentanyl transdermal (in mcg/hr)	<input type="text"/> 0	
Hydrocodone	<input type="text"/> 0	
Hydromorphone	<input type="text"/> 0	
Methadone	<input type="text"/> 0	
Morphine	<input type="text"/> 0	
Oxycodone	<input type="text"/> 0	
Oxymorphone	<input type="text"/> 0	
Tapentadol	<input type="text"/> 0	
Tramadol	<input type="text"/> 0	
TOTAL daily morphine equivalent dose (MED) = 0		

AMDG on-line calculator
www.agencymeddirectors.wa.gov

Methadone

<20 mg 4x

>20-40 mg 8x

>60-80 mg 10x

>80 mg 12x

*NOTE: All doses expressed in mg per day with exception of fentanyl transdermal, which is expressed in mcg per hour

Calculate

Print

Reset

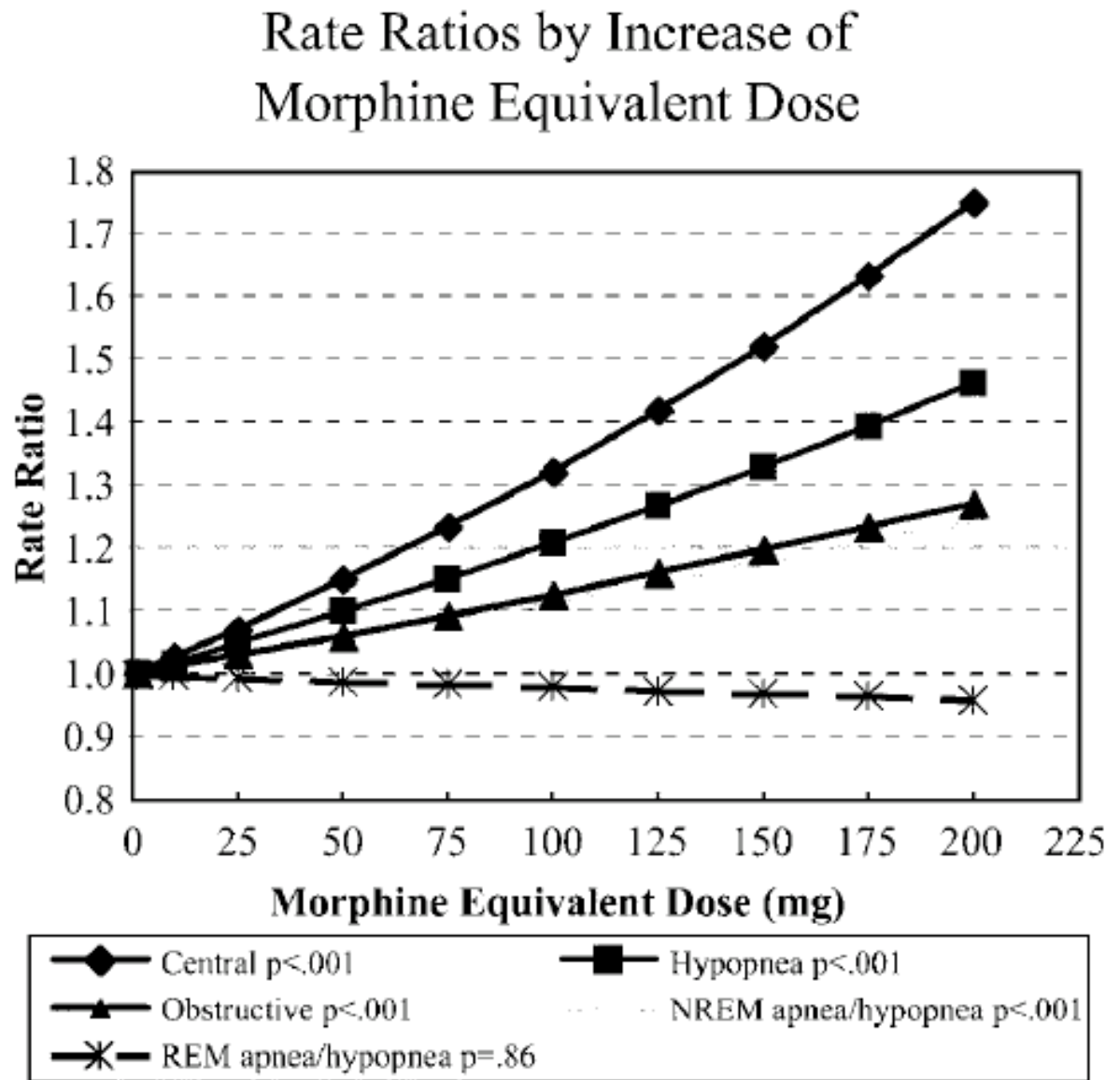
CAUTION: This calculator should **NOT** be used to determine doses when converting a patient from one opioid to another. This is especially important for fentanyl and methadone conversions. Equianalgesic dose ratios are only approximations and do not account for genetic factors, incomplete cross-tolerance, and pharmacokinetics.

Sleep Disorders Risk

EXTREME CAUTION:

- ✓ High dose Opioids
- ✓ Opioids *plus* Sedatives

Walker JM., et al. *J Clin Sleep Med* 2007



Role of Opioids for Chronic Pain?

REVIEW

Annals of Internal Medicine

The Effectiveness and Risks of Long-Term Opioid Therapy for Chronic Pain: A Systematic Review for a National Institutes of Health Pathways to Prevention Workshop

Roger Chou, MD; Judith A. Turner, PhD; Emily B. Devine, PharmD, PhD, MBA; Ryan N. Hansen, PharmD, PhD; Sean D. Sullivan, PhD; Ian Blazina, MPH; Tracy Dana, MLS; Christina Bougatsos, MPH; and Richard A. Deyo, MD, MPH

Conclusion: Evidence is insufficient to determine the effectiveness of long-term opioid therapy for improving chronic pain and function. Evidence supports a dose-dependent risk for serious harms.

Annals of Internal Medicine • Vol. 162 No. 4 • 17 February 2015

CDC Guideline for Prescribing Opioids for Chronic Pain — United States, 2016



12 Recommendations 3 Topic Areas

1. When to initiate or continue
2. Selection, dosage, duration, follow-up, and discontinuation
3. Assessing risk and addressing harms

CDC Recommendations: 4-7(1)

“Opioid selection, dosage, duration, follow-up, and discontinuation”

4. When starting... ***prescribe immediate-release opioids instead of extended-release/long-acting (ER/LA) opioids.***

4. When opioids are started... lowest effective dosage. Clinicians should use ***caution when prescribing opioids at any dosage***, ... *carefully reassess evidence of individual benefits and risks when increasing dosage to...*

≥50 morphine milligram equivalents (MME)/day, and should avoid increasing dosage to ≥90 MME/day or carefully justify decision to titrate dosage to ≥90 MME/day.

“Established patients already taking high dosages of opioids, as well as patients transferring from other clinicians...”

Centers for Disease Control and Prevention MMWR March 15, 2016; 65:p23

- “...tapering opioids can be **especially challenging** after years on high dosages because of physical and psychological dependence.”
- **Offer in a “nonjudgmental manner”**... **“the opportunity** to re-evaluate their continued use of opioids at high dosages in light of recent evidence regarding the association of opioid dosage and overdose risk.”
- **“empathically review benefits and risks** of continued high-dosage opioid therapy” and “offer to **work with the patient to taper** opioids to safer dosages”
- **“very slow opioid tapers as well as pauses** in the taper to allow gradual accommodation to lower opioid dosages.”
- Be aware that **anxiety, depression, and opioid use disorder “might be unmasked by an opioid taper”**

CDC Recommendations: 4-7⁽²⁾

“Opioid selection, dosage, duration, follow-up, and discontinuation”

6. ...for acute pain, ...prescribe the ***lowest effective dose of immediate-release opioids*** ... **no greater quantity than needed** for the expected duration of pain severe enough to require opioids.

3 days or less will often be sufficient; > than 7 days will rarely be needed.

6. ***...evaluate benefits and harms ...within 1 to 4 weeks of starting ...evaluate benefits and harms of continued therapy with patients every 3 months or more frequently.***

...If benefits do not outweigh harms ...optimize other therapies

...and work with patients to taper opioids to lower dosages or to taper and discontinue opioids.

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.

If RENEWING without patient visit

- Check that return visit is scheduled ≤ 3 months from last visit.

When REASSESSING at return visit

Continue opioids only after confirming clinically meaningful improvements in pain and function without significant risks or harm.

- Assess pain and function (eg, PEG); compare results to baseline.
- Evaluate risk of harm or misuse:
 - Observe patient for signs of over-sedation or overdose risk.
 - If yes: Taper dose.
 - Check PDMP.
 - Check for opioid use disorder if indicated (eg, difficulty controlling use).
 - If yes: Refer for treatment.
- Check that non-opioid therapies optimized.
- Determine whether to continue, adjust, taper, or stop opioids.
- Calculate opioid dosage morphine milligram equivalent (MME).
 - If ≥ 50 MME/day total (≥ 50 mg hydrocodone; ≥ 33 mg oxycodone), increase frequency of follow-up; consider offering naloxone.
 - Avoid ≥ 90 MME/day total (≥ 90 mg hydrocodone; ≥ 60 mg oxycodone), or carefully justify; consider specialist referral.
- Schedule reassessment at regular intervals (≤ 3 months).

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 nonmedical reasons.
- History of substance use disorder or overdose.
- Mental health conditions (eg, depression, anxiety).
- Sleep-disordered breathing.
- Concurrent benzodiazepine use.

Urine drug testing: Check to confirm presence of prescribed substances and for undisclosed prescription drug or illicit substance use.

Prescription drug monitoring program (PDMP): Check for opioids or benzodiazepines from other sources.

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?

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”

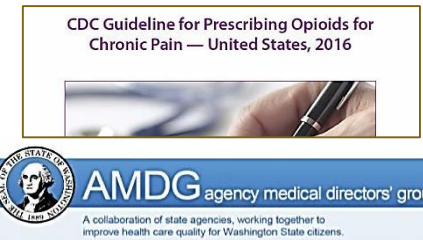
Q3: What number from 0–10 describes how, during the past week, pain has interfered with your general activity?

0 = “not at all”, 10 = “complete interference”

Understand Safe & Effective Chronic Pain Treatments

1. For Clinicians

- CDC Guidelines, & *your* state's guidelines
- UW's "COPE REMS" www.coperems.org

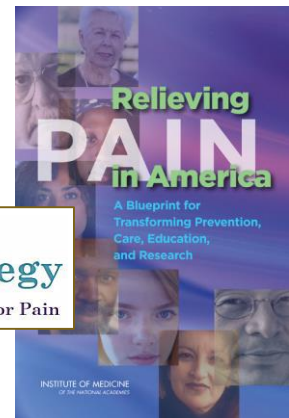


2. For Patients and Families

- YouTube: *"Understand Pain", "Brainman Stops His Opioids"*
- Stanford's: *Chronic Pain Self Management Program*
- U. Michigan's: fibroguide.com
- American Chronic Pain Association

3. For Policymakers and Payers

- National Pain Strategy
- IOM 2011 Report: Relieving Pain in America



Step 2: Assess Your Practice:

✓ ***Do you have (or do you do?)***

- ☐ Registries and regular review based on dose (MME)
- ☐ Measure and track function (e.g. PEG) and mood (e.g. PHQ's, GAD, PC-PTSD) when prescribing chronic opioids
- ☐ Misuse/Abuse Risk screening: ORT, COMM, SOAP, DIRE, etc.
- ☐ Adherence monitoring policies and procedures: PMP, UDT
- ☐ Care agreements & Informed Consent re benefits & harms
- ☐ Medical Risk screening: e.g. sleep apnea
- ☐ Protocols for OD high risk/naloxone prescribing
- ☐ Buprenorphine licensees? And actually prescribe?
- ☐ Process for interprofessional referrals? (CBT, PT/OT, Rehab, Addiction)

“Pain Medicine Provider Toolkit”



Guidelines

Tools

- ▶ [AMDG Opioid Dose Calculator](#) *Excel*
- ▶ [Opioid Risk Tool](#) *PDF*
- ▶ [PHQ-9](#) *PDF*
- ▶ [GAD-7](#) *PDF*
- ▶ [PHQ-4](#) *PDF*
- ▶ [PTSD Checklist Civilian \(PCL-C\)](#) *PDF*
- ▶ [Four question PTSD screening tool](#) *PDF*
- ▶ [Roland-Morris](#) *PDF*
- ▶ [WSDOH Prescription Monitoring Program](#)
- ▶ [Emergency Department Information Exchange](#) *PDF*
- ▶ [UDT interpretation algorithm](#) *PDF*
- ▶ [Pain Tracker](#) *PDF*
- ▶ [Stop Bang screening tool for sleep apnea](#) *PDF*
- ▶ [UW Medicine Controlled Substances Treatment Agreement](#) *PDF*
- ▶ [Principles for more selective and cautious opioid prescribing](#) *PDF*

**Access to
Evidence-based
Pain Care**

Access to Specialists

- ▶ [UW Pain 2876 Provider FAQ](#)
- ▶ [UW Pain 2876 Patient FAQs](#)
- ▶ [WSMA on 2876](#)
- ▶ [WA DOH Medical Quality Assurance Letter to Licensees Regarding](#)
- ▶ [Washington State Medical Association Question and Answer Summary](#)
- ▶ [Pain Management Washington](#)
- ▶ [Legislating Pain Care: How Washington State Bill](#)

Recognition and Treatment of Opioid Use Disorder in Patients with Chronic Pain

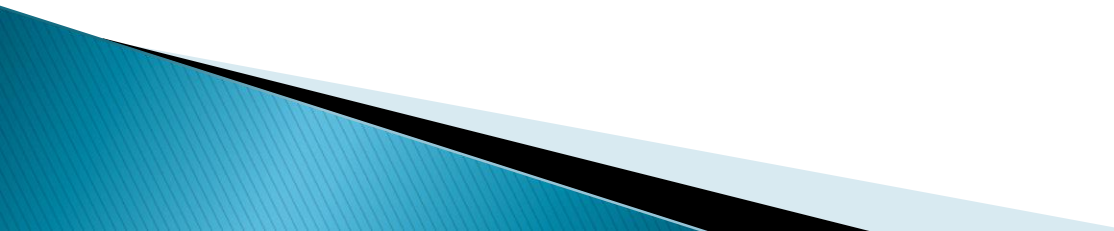
MOLINA Pain Management Provider Forum
October 21, 2016

P. Todd Korthuis, MD, MPH
Oregon Health & Science University

What Could Possibly Go Wrong?



Case

- ▶ 45 y.o. gentleman with chronic lower back and bilateral shoulder DJD pain transfers to your practice for pain management requesting narcotic refills. Transferring due to disagreements about medicine refills with prior doctor (frequent early refills)
 - ▶ Currently taking:
 - 135mg MED oxycontin,
 - 32mg MED hydromorphone daily (breakthrough)
 - Zolpidem 10mg as needed for sleep
 - Sertraline+ clonazepam as needed
 - ▶ PMHx
 - Depression/anxiety, Hepatitis C
 - DUI with outpatient rehab in 20's (no longer drinks)
 - ▶ Strong family h/o alcohol use disorder
 - ▶ PDMP and UDS: as expected
- 

Risk Factors for Opioid Use Disorder Development

- Published rates of abuse and/or addiction in chronic pain populations are 4-26%
- Suggests that known risk factors for opioid use disorder in the general population would be good predictors for problematic prescription opioid use
 - Lifetime history of substance use disorder²
 - Past alcohol, tobacco⁴, cocaine, or cannabis use¹
 - Family history of substance use disorder, a history of legal problems³
 - Heavy tobacco use⁴
 - History of severe depression, anxiety, or PTSD⁴

1. Ives T et al. BMC Health Services Research 2006

2. Reid MC et al JGIM 2002

3. Michna E et al. J Pain and Symptom Management 2004

4. Akbik H et al. J Pain and Symptom Management 2006

Principle Risk Factors for Opioid Use Disorder Development





- Younger age, 13-45 years of age
- Previous substance use disorder
- Back pain, headache
- High dose chronic opioid dose
> 90 mg morphine equivalents/day

Recognizing Opioid Use Disorder

Before prescribing

- ▶ Screening Instruments
 - Opioid Risk Tool (ORT)
 - Provider administered
 - 5 items
 - Screen and Opioid Assessment for Patients with Pain–Revised (SOAPP–R)
 - Patient administered
 - 24 items
- ▶ Point of care urine toxicology screens
- ▶ PDMP

OPIOID RISK TOOL

		Mark each box that applies	Item Score If Female	Item Score If Male
1. Family History of Substance Abuse	Alcohol		1	<u>3</u>
	Illegal Drugs	[]	2	3
	Prescription Drugs	[]	4	4
2. Personal History of Substance Abuse	Alcohol		3	<u>3</u>
	Illegal Drugs	[]	4	4
	Prescription Drugs	[]	5	5
3. Age (Mark box if 16 – 45)			1	<u>1</u>
4. History of Preadolescent Sexual Abuse		[]	3	0
5. Psychological Disease	Attention Deficit Disorder, Obsessive Compulsive Disorder, Bipolar, Schizophrenia	[]	2	2
	Depression		1	<u>1</u>

TOTAL _____ _____

8

Total Score Risk Category

Low Risk 0 – 3

Moderate Risk 4 – 7

High Risk ≥ 8

When to say 'no' to a request for long-term opioid therapy

▶ Definite No

- Untreated, current substance use or serious mental health disorders
- Benzodiazepine use, alcohol use disorder, opioid use disorder, other substance use disorder

▶ Proceed with caution

- Cannabis, tobacco, alcohol use
- Strong family or personal history of substance use disorder
- Mental illness, history of trauma, young age

Saying 'no' to a request for opioids

- ▶ Offer alternative evaluation, therapies
- ▶ Continue regular patient visits to re-evaluate goals of care and treatment

Use a Risk–Benefit Framework

NOT...

- Is the patient good or bad?
- Does the patient deserve opioids?
- Should this patient be punished or rewarded?
- Should I trust the patient?



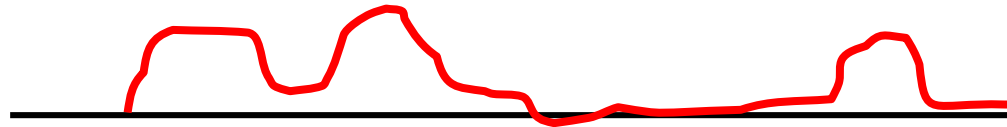
RATHER...

Do the benefits of opioid treatment outweigh the untoward effects and risks for this patient (or society)?

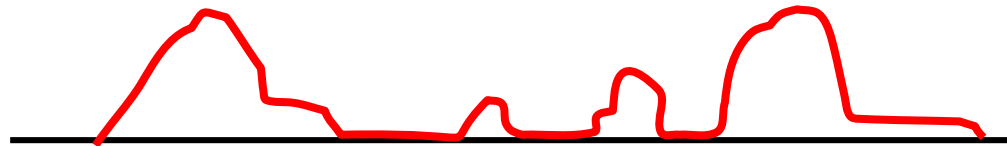
Judge the opioid *treatment*
—
not the patient

Substance Use Disorder: A Chronic Illness

Asthma, Diabetes, HIV, etc.

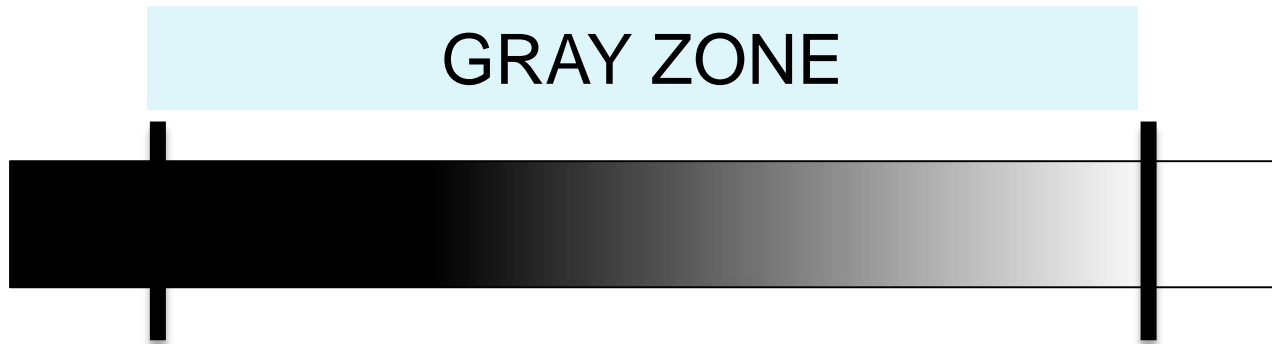


Substance Use Disorder



Disease Activity

Time



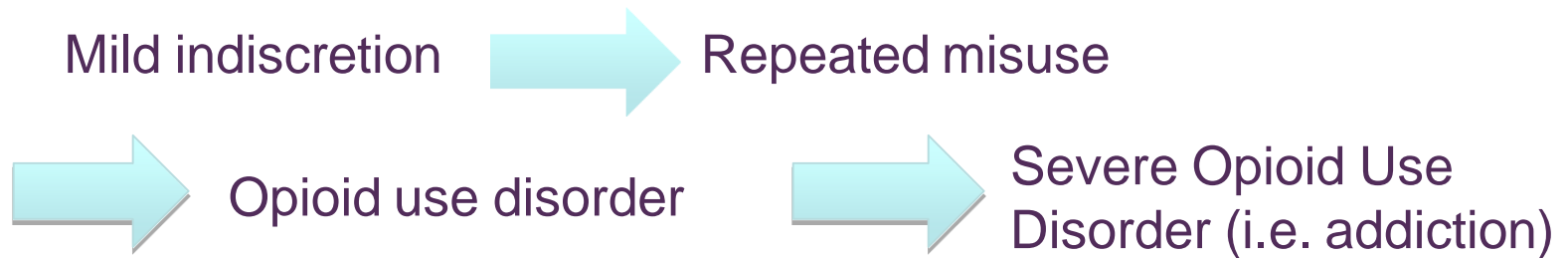
ADDICTED

Meets DSM criteria
for opioid use
disorder

NOT ADDICTED

- No lost prescriptions
- No ER visits
- No early prescriptions
- No requests for dose escalation
- No UDT aberrancies
- No doctor shopping (PMP)

Continuum of Problematic Opioid Use



Weimer, PCSS-O

Recognizing Opioid Use Disorder

In Someone Already Prescribed Opioids

▶ Screening Tools

- Current Opioid Misuse Measure (COMM™)
 - Self-report
 - Identifies high risk for current aberrant medication-taking behavior, but *not* diagnostic
- Screening Tool for Addiction Risk (STAR)
 - Self-report
 - Corresponds to DSM-IV criteria
- Random Urine Drug Testing
 - Consider alcohol use (ethyl glucuronide)
- Random Pill Counts
- Prescription Drug Monitoring Data (PDMP)
- Review of medical records for new patients
- Discussions with other prescribers, family members

Concerning Behaviors for Opioid Use Disorder

Spectrum: Yellow to Red Flags

- Requests for increase opioid dose
- Requests for specific opioid by name, “brand name only”
- Non-adherence w/other recommended therapies (e.g., PT)
- Running out early (i.e., unsanctioned dose escalation)
- Resistance to change therapy despite AE (e.g. over-sedation)
- Deterioration in function at home and work
- Non-adherence with monitoring (e.g. pill counts, UDT)
- Multiple “lost” or “stolen” opioid prescriptions
- Illegal activities – forging scripts, selling opioid prescription

Opioid Use Disorder in Clinical Practice

▶ The 4 C's

- Control, loss of
- Compulsive use
- Continued use despite harms
- Craving

From: DSM-5 Criteria for Substance Use Disorders (SUD): Recommendations and Rationale

Am J Psychiatry. 2013;170(8):834-851. doi:10.1176/appi.ajp.2013.12060782

	DSM-IV Abuse ^a		DSM-IV Dependence ^b		DSM-5 Substance Use Disorders ^c	
Hazardous use	X	} ≥ 1 criterion	–	} ≥ 3 criteria	X	} ≥ 2 criteria
Social/interpersonal problems related to use	X		–		X	
Neglected major roles to use	X		–		X	
Legal problems	X		–		–	
Withdrawal ^d	–		X		X	
Tolerance	–		X		X	
Used larger amounts/longer	–		X		X	
Repeated attempts to quit/control use	–		X		X	
Much time spent using	–		X		X	
Physical/psychological problems related to use	–		X		X	
Activities given up to use	–		X		X	
Craving	–		–		X	

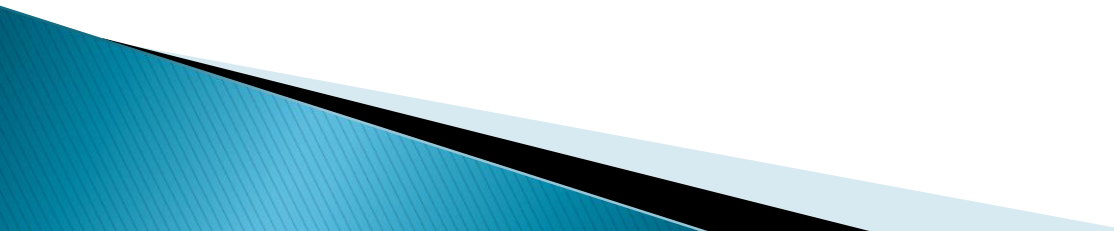
DSM-5 Criteria: 2-3 = mild SUD, 4-5 = moderate SUD, >6 severe SUD

Diagnosis of Prescription Drug Use Disorder

- No *one* test or questionnaire that can confirm prescription opioid use disorder
- PCP must determine risk/benefit
- Consider referral for diagnosis of an OUD if you do not feel comfortable making it
- DSM-5 criteria defines OUD
 - Tolerance and withdrawal criteria don't count
 - Sometimes becomes apparent over time

Pain Treatment in Opioid Use Disorder

General Principles

- ▶ Engage patient
 - ▶ Treat pain safely and effectively
 - ▶ Address opioid use disorder
 - Treatment including medication (methadone or buprenorphine) and counseling is needed
 - ▶ Address pain facilitators including substance withdrawal
- 

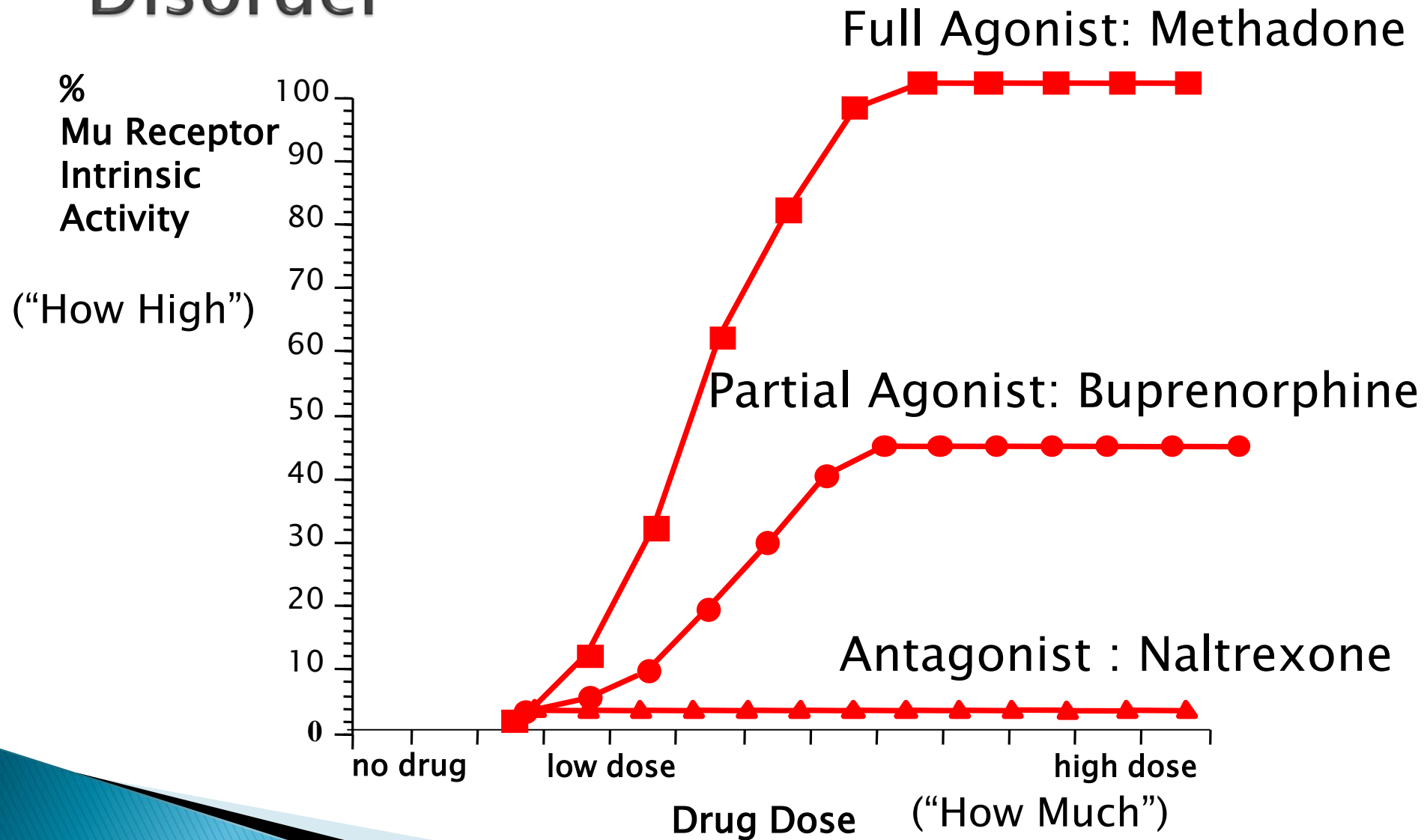
Pharmacotherapy for Opioid Use Disorder

- ▶ Methadone
 - OTP Referral
- ▶ Buprenorphine
 - Office-based
- ▶ Naltrexone
 - Office-based



Also potent analgesics!

Pharmacotherapy for Opioid Use Disorder



Referral for Methadone

- ▶ Full opioid agonist
- ▶ > 40 years data support^{1,2}
 - Safety
 - Sustained abstinence
 - Reduced criminal behavior³
- ▶ But...
 - Requires careful monitoring in OTP
 - Prolongs QTc
 - 23% of patients by 16 weeks⁴
 - Many drug–drug interactions⁵



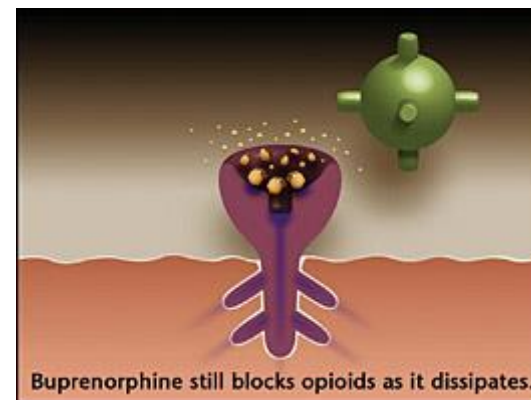
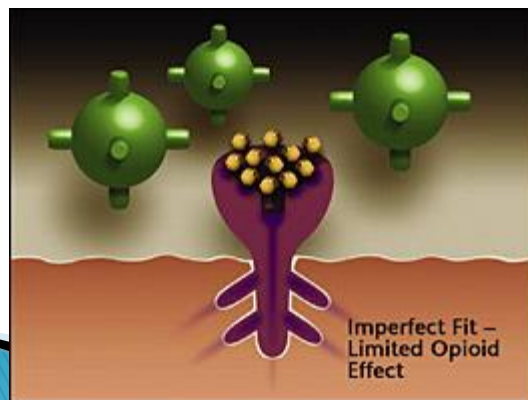
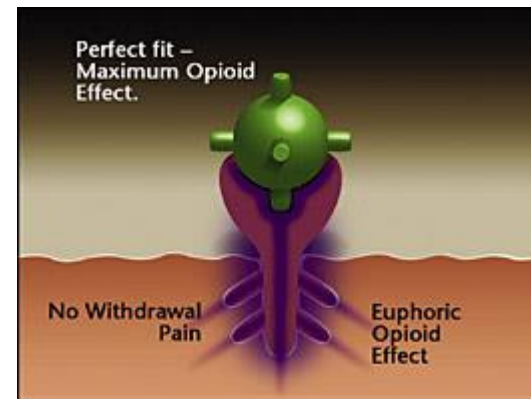
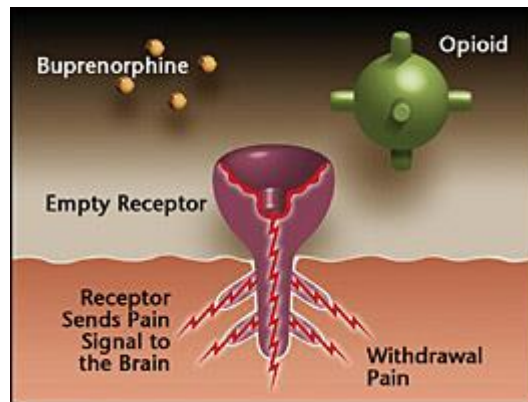
¹ Kreek Addict Dis 2010
² Mattick Cochrane Rev 2008
³ Marsh Addiction 1998
⁴ Wedam Arch Intern Med 2007
⁵ McCance–Katz Am J Addict 2009

Buprenorphine/naloxone (4:1 combination)

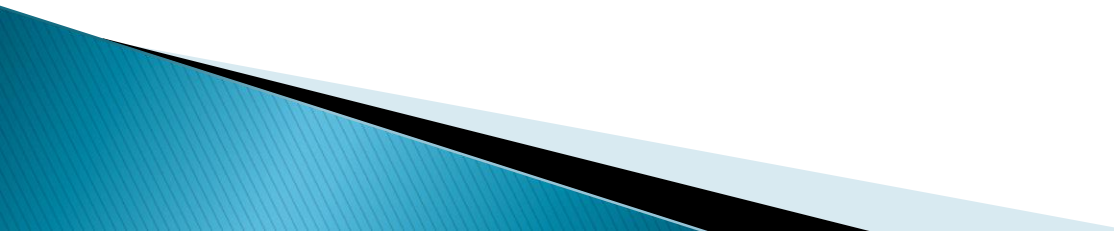
- ▶ Partial opioid agonist
 - Decreased overdose risk
- ▶ Naloxone inactive unless injected –then precipitates withdrawal
 - Decreased abuse risk
- ▶ Sublingual, once daily
 - Safe for flexible dosing



How Does Buprenorphine Work?



Buprenorphine for Treatment of Chronic Pain

- ▶ Ceiling effect for respiratory suppression
 - ▶ Less of a ceiling for analgesia
 - ▶ Analgesic effect 6–8 hours, so BID or TID dosing often helpful
 - ▶ Partially blocks effect of other opioids
 - ▶ DATA–2000 Waiver recommended
- 

Starting Buprenorphine/Naloxone

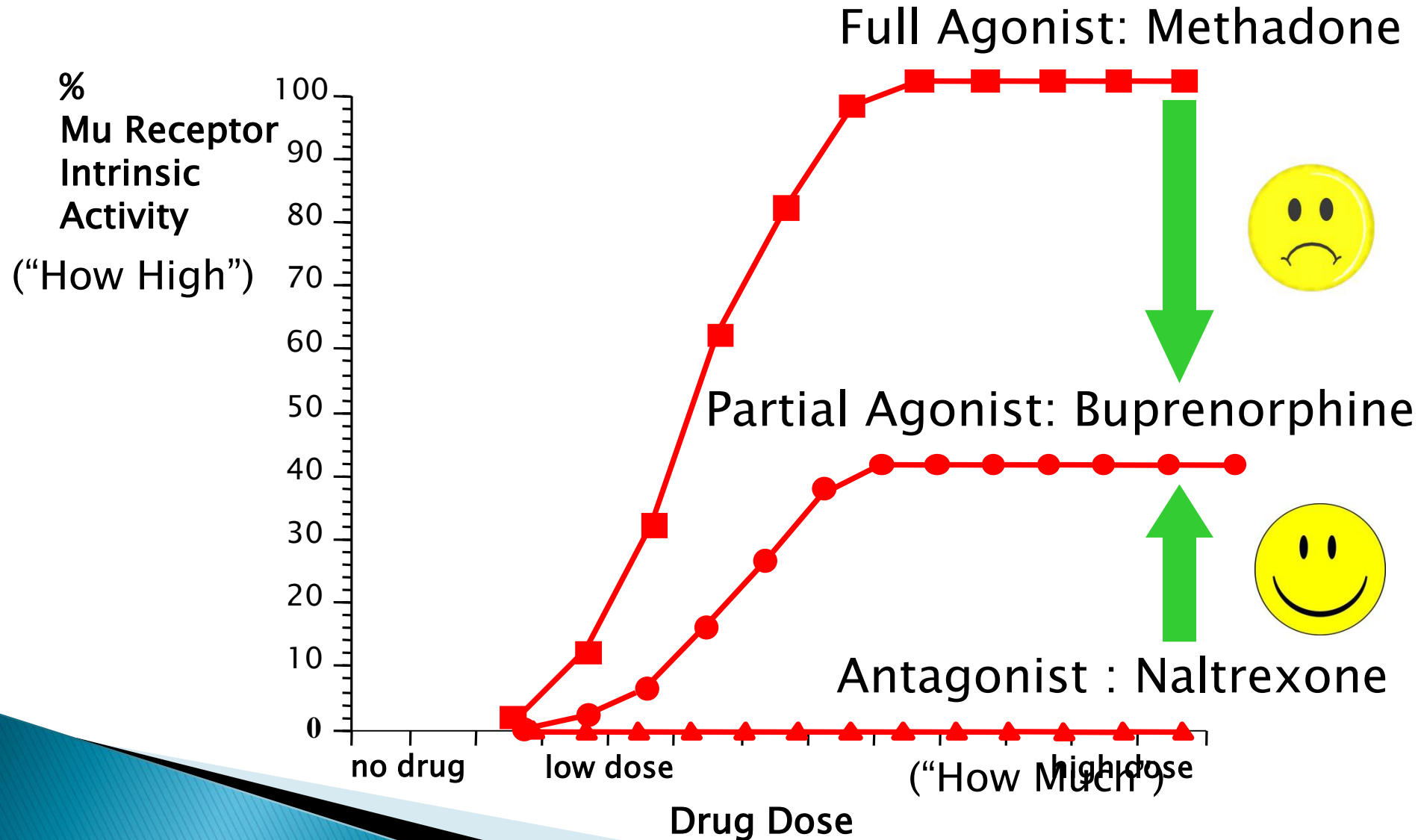
▶ Induction (1–2 days)

- Must be in moderate withdrawal
- Clinical Opiate Withdrawal Scale (COWS)
- Heroin/Hydromorphone: 12 hours
- Methadone: 72+ hours
- Start with 2mg and gradually increase
- Titrate to effect (average dose 16mg)

▶ Stabilization/Maintenance

- Combine with UDS & Counseling

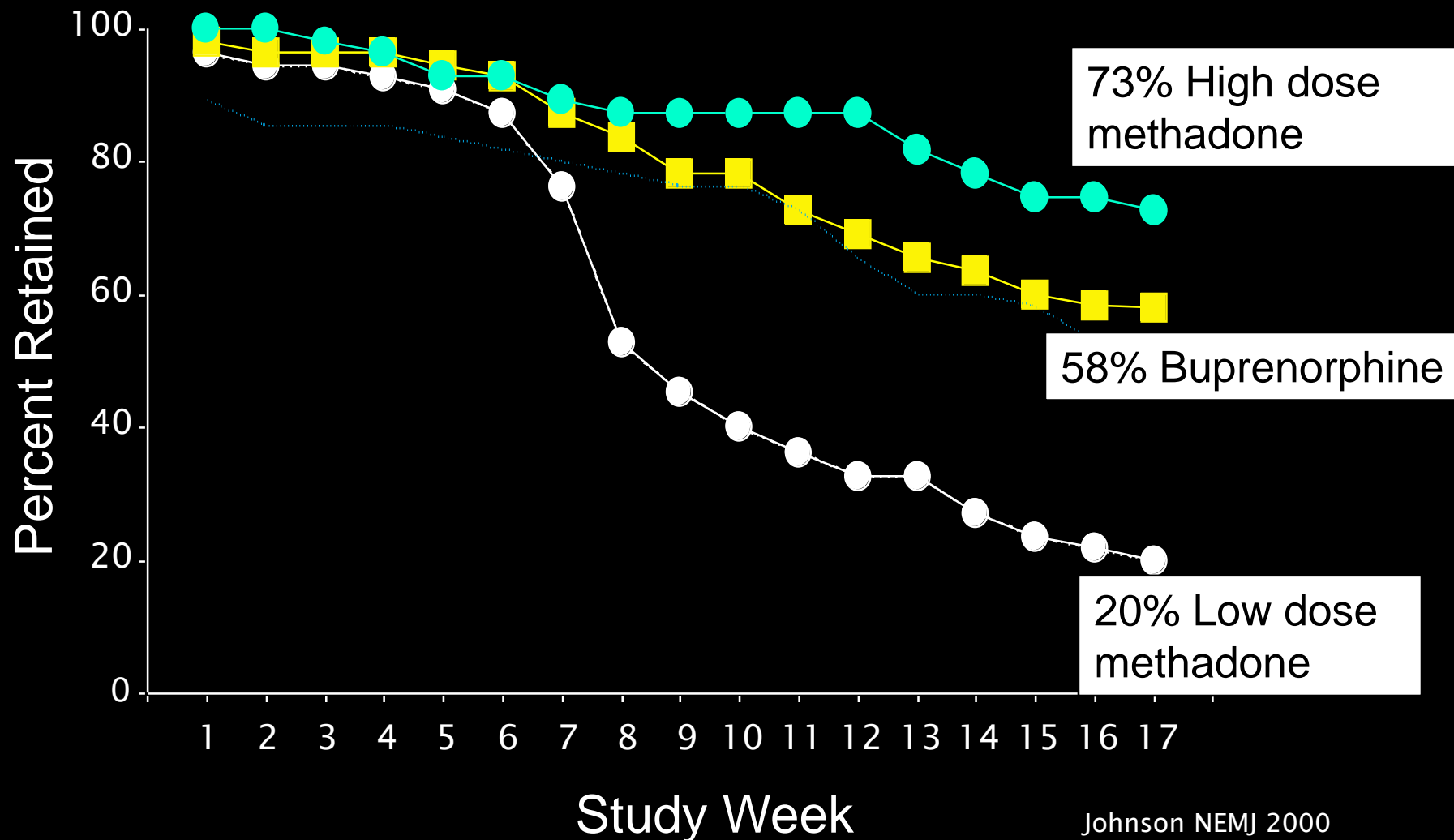
Why Is Withdrawal Required for Induction?



Buprenorphine vs. Methadone

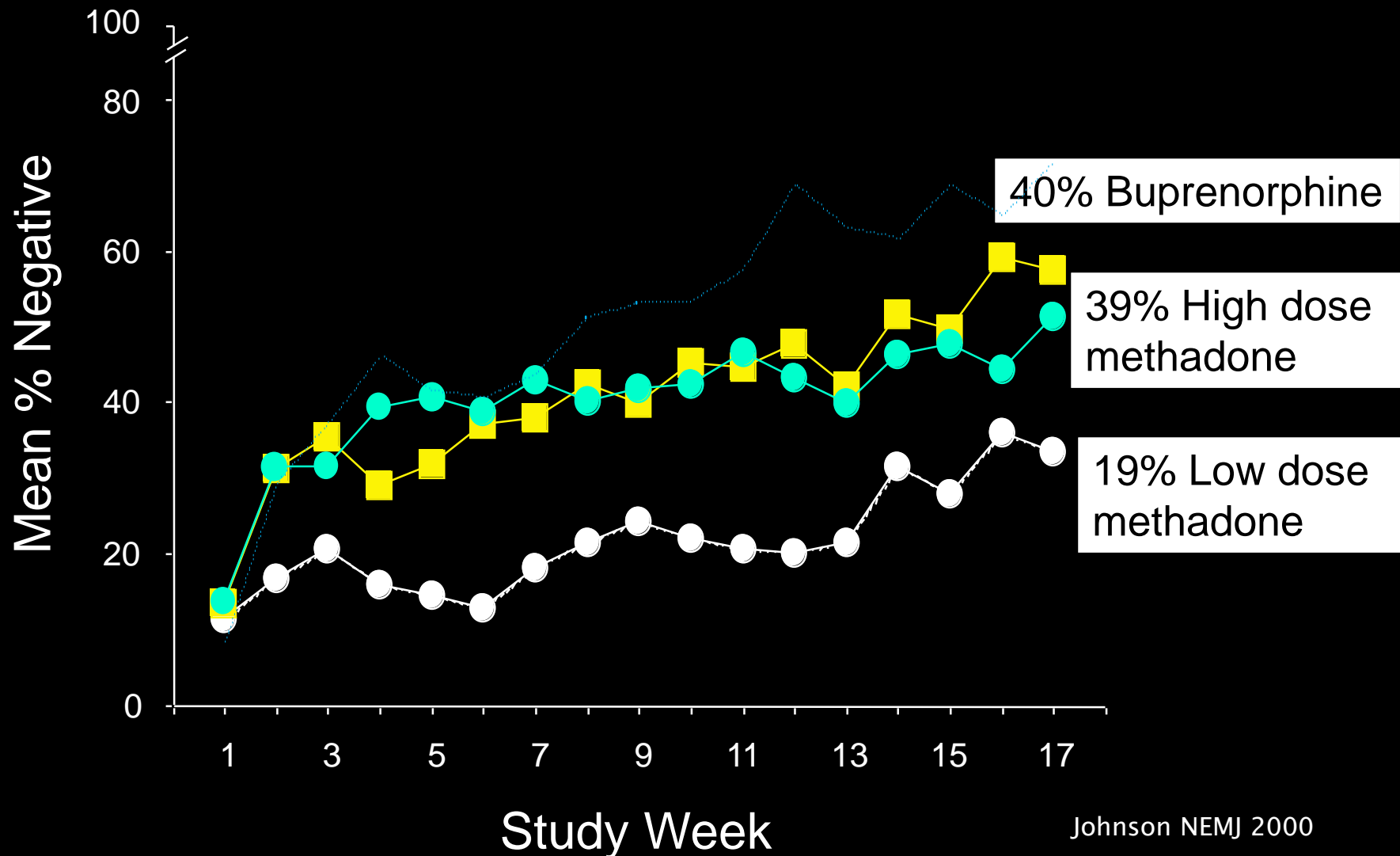
- Design: 17 week outpatient randomized, double-blind clinical trial in heroin users (n=220)
 1. High dose methadone (60–100mg/day)
 2. Buprenorphine (16–32mg 3x/week)
 3. Low dose methadone (20mg/day)
- Outcomes
 - Treatment retention
 - Negative urine drug screens (%)

Buprenorphine vs. Methadone Treatment Retention



Buprenorphine vs. Methadone

Opioid Urine Results



Naltrexone

- ▶ Oral Naltrexone
 - Opioid antagonist
 - May decrease pain hypersensitization
 - Decreased fibromyalgia pain in 1 study

- ▶ Extended-Release Naltrexone
 - Intramuscular injection lasts 28d
 - Efficacious compared to placebo:
 - Comer: 60 U.S. heroin users at 8 weeks¹
 - Krupitsky: 250 Russian heroin users at 24 wks²

- ▶ Also effective for treatment of alcohol dependence³



¹ Comer Arch Gen Psych 2006

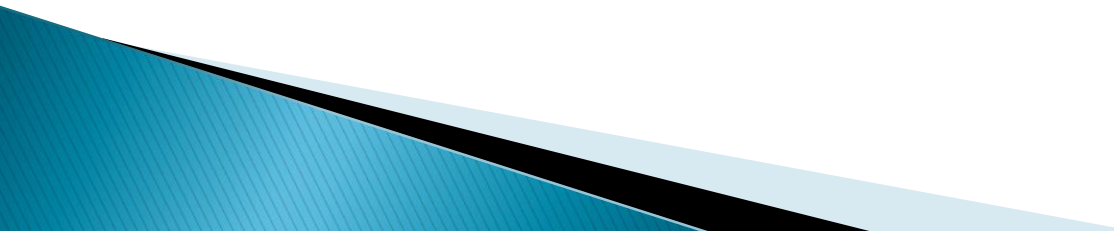
² Krupitsky Lancet 2011

³ Garbutt JAMA 2005

Buprenorphine Effectiveness for Chronic Pain

- ▶ No large-scale randomized trials
- ▶ Systematic Review of 10 studies (limited quality):
 - Increased efficacy in neuropathic pain
 - Ease of use for the elderly
 - Ceiling effect for respiratory depression
 - Less effect on hypogonadism
 - Antihyperalgesic effect
- ▶ All studies reported reduced pain intensity

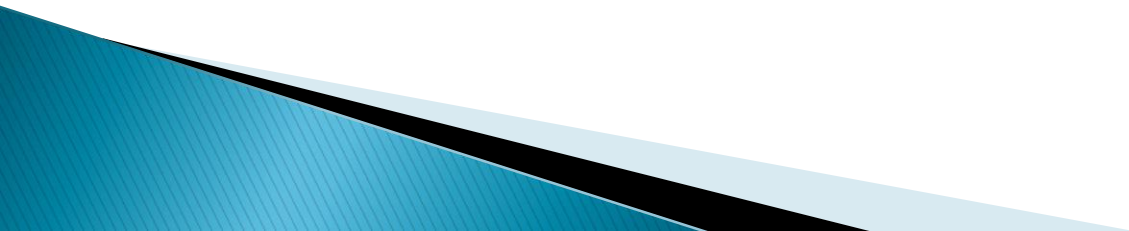
Conclusions

- ▶ OK to say “no” to opioids
 - ▶ Create a system to monitor for opioid use disorder in your practice
 - ▶ Buprenorphine an option for office-based management of pain and opioid use disorder
 - ▶ Refer when diagnosis or treatment in question
- 

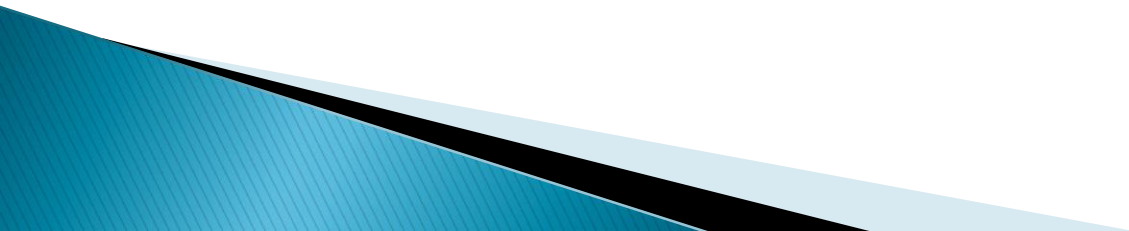
Additional Resources

- ▶ Providers Clinical Support Service
 - PCSS–Opioids
 - www.pcss-o.org
 - PCSS–Medication Assisted Treatment
 - www.pcssmat.org
- ▶ OHSU Addiction Medicine Consult Line
 - Call (800) 245–6478 or (503) 494–4567
 - Mon–Fri 8:00–5:00
- ▶ Oregon Addiction Prevention and Education Initiative
 - Buprenorphine waiver training and telementoring

Discussion



Supplemental Slides



What about Cannabis for Pain Relief?



- ▶ Narrow therapeutic window
- ▶ Cannabis with higher CBD content (vs THC) *may* be effective for some forms of pain, but few rigorous studies
 - Cannabis is not regulated, so label ingredients may be misleading
- ▶ Side effects: nausea, vomiting, paranoia, worsening of anxiety or depression, weight gain, reduced functional status, impaired driving

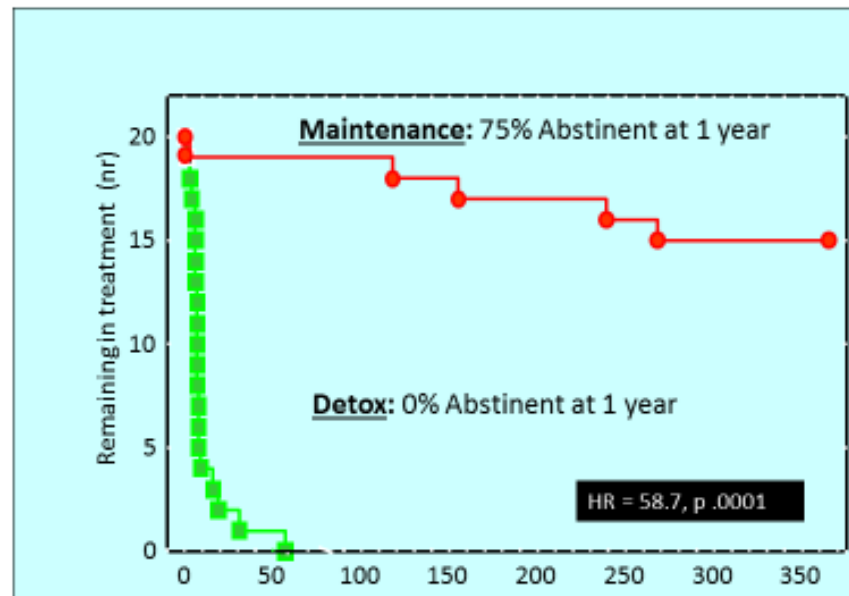
Detox vs. Maintenance: Which is Better?

- ▶ Multi-site trial of buprenorphine/nx for 653 prescription opioid-dependent patients in 10 primary care clinics
- ▶ Detox phase followed by maintenance phase for those who relapse
- ▶ “Success” = minimal or no use on UDS & self-report

Success at 12 Weeks:	
Detox Phase:	6.6%
Maintenance Phase:	49.2%

MAT Maintenance is Effective... Detox Is Not

Treatment Retention: Buprenorphine Detox vs. Maintenance



Kakko, Lancet 2003

Deaths:

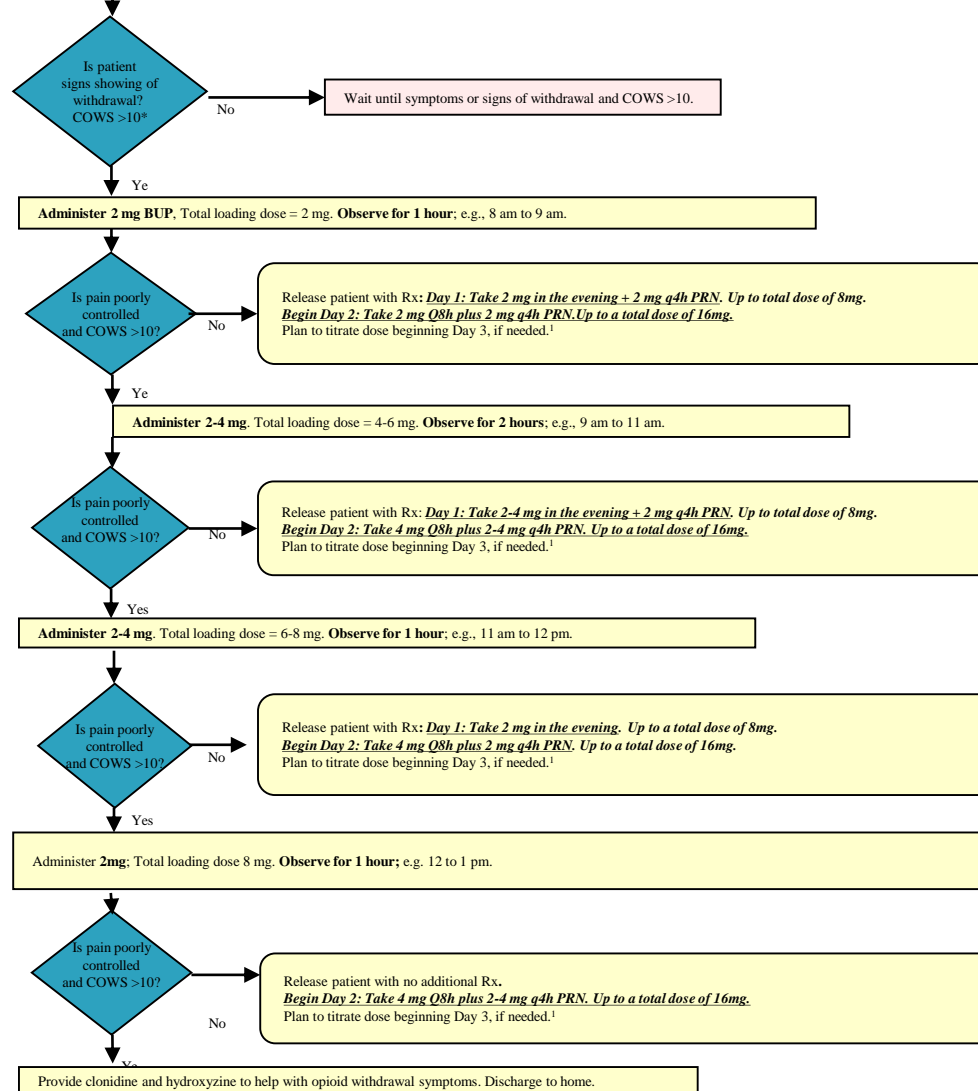
0% Maintenance

20% Detox

Sublingual Buprenorphine-naloxone for Chronic Pain: Induction and Dosing Protocol

Patient with chronic pain undergoing transition to buprenorphine-naloxone for chronic pain.

- Limit patients to those taking a daily dose equivalent to ≥ 50 mg/day PO morphine and not prescribed benzodiazepines.
- Patients prescribed >30 mg/day PO methadone will need to first taper to 30mg of methadone.
- Patients prescribed >200 mg MED will need to first taper to <200 mg/day of PO morphine.
- Schedule patient for 8 am buprenorphine (BUP) induction. Discontinue long acting opioids within 24 hours of induction appointment. Discontinue short acting opioids At least 6 hours before induction. *If patient is taking methadone for pain, see footnote**



*Opioid withdrawal is measured by the Clinical Opioid Withdrawal Scale (COWS)

1. Further increases in the scheduled Q8h dose can begin on Day 3; increase the scheduled dose no more frequently than every other day. Total dose of Day 3 is 20mg. Total dose of day 4 is 20mg. Total dose of day 5 is 24mg. Dose should be reduced for any signs of sedation. Doses will not exceed 24mg total. Doses will be prescribed daily, twice daily, or at most, three times day.

**If patient is taking methadone ≥ 30 mg/day for pain:* To reduce the risk of delayed precipitated withdrawal, consider stopping methadone 48 hours before induction and requiring a COWS >15 prior to the first dose. Alternatively, consider extending the BUP loading period on Day 1 by using smaller doses at the same intervals to titrate up to the desired level, e.g., 2 mg, 2 mg, 2-4 mg, 2-4 mg, 2-4 mg, 2-4 mg.

U.S. BHIVES 12-Month Results:

- ▶ Improved Drug Outcomes¹

- Opioid use: 84% → 42%

- ▶ Improved HIV Outcomes²

- Receipt of ART: 60% → 68%

- Viral suppression: 17% → 57%*

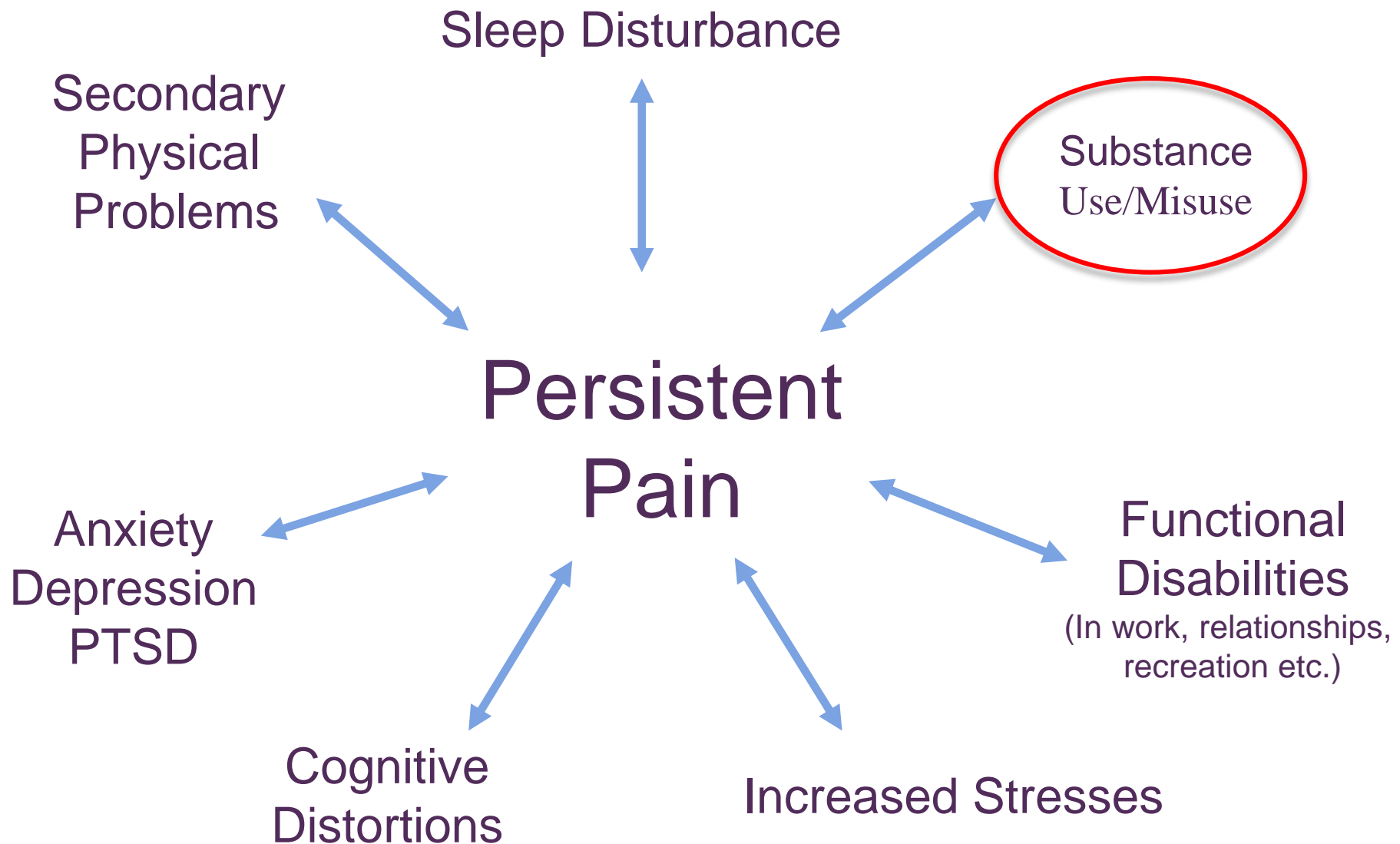
- ▶ Improved quality of care, quality of life³

- ▶ Conclusion: Integrated buprenorphine and HIV Care feasible and safe

¹ Fiellin JAIDS 2011

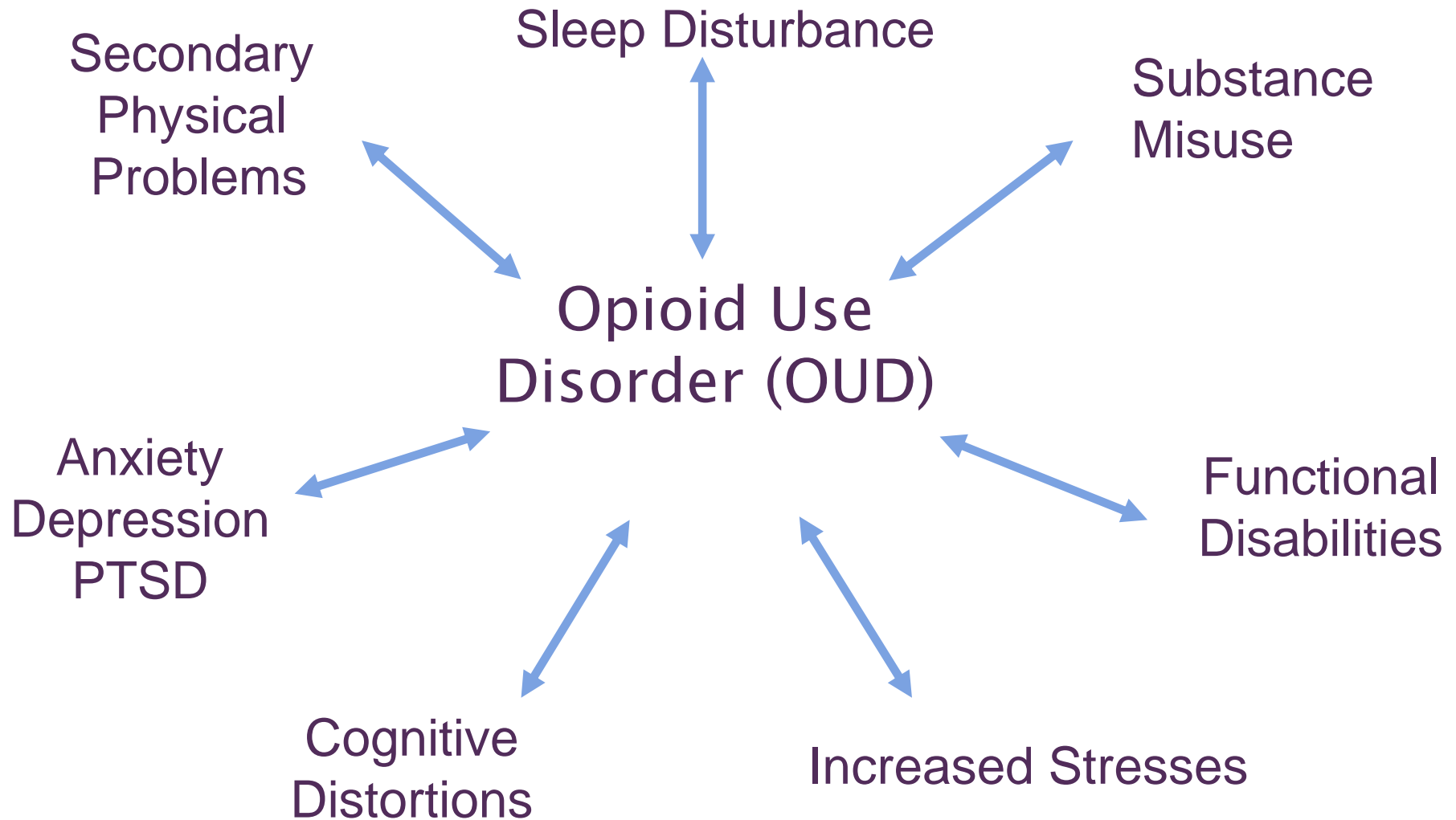
² Altice JAIDS 2011

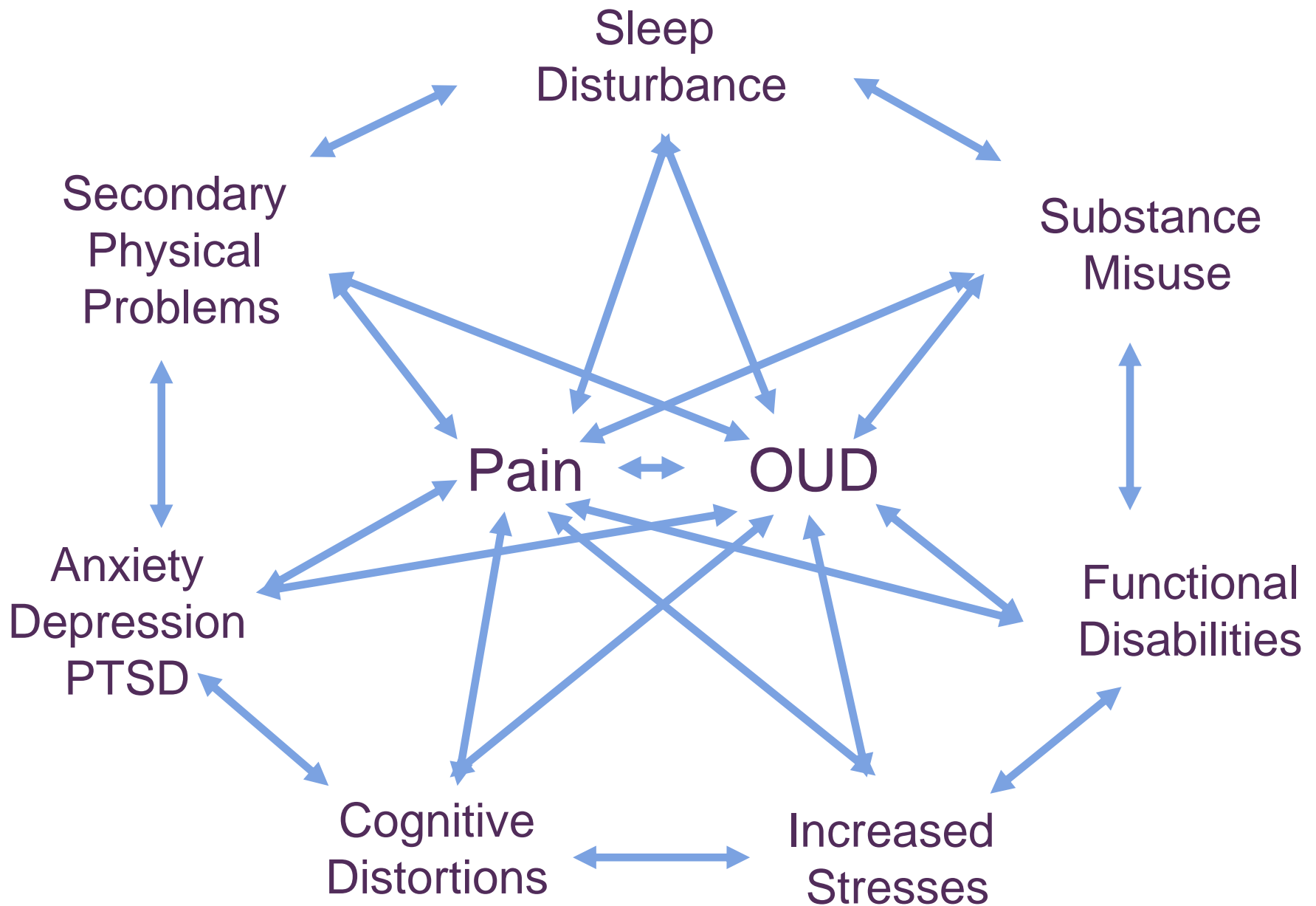
³ Korthuis JAIDS 2011



Whatever it's cause, when pain persists, it often causes secondary problems that can in turn facilitate distress and pain.

As a chronic condition, OUD shares similar challenges as persistent pain





Weimer, PCSS-O

When OUD and pain co-occur they may reinforce one

Spectrum of Opioid Use Disorder

- ▶ Self medication (chemical coping)
 - Mood
 - Sleep
 - Traumatic memories
- ▶ Prevent withdrawal
- ▶ Reward (to get high)
- ▶ Opioid Use disorder
- ▶ Diversion for profit
- ▶ **Medication or substance misuse by persons with pain may occur for diverse reasons. Helps to identify and address the driver of misuse. Misuse may be self-limited or may be a sign of opioid use disorder in vulnerable people.**

Does the patient with chronic pain who is prescribed opioids have an opioid use disorder?

1. Unable to fulfill role obligations – **MAYBE**
2. Social or interpersonal problems due to use – **MAYBE**
3. Hazardous use – **MAYBE**
4. Tolerance – **DOES NOT APPLY***
5. Withdrawal/physical dependence – **DOES NOT APPLY***
6. Taken in larger amounts or over longer period – **MAYBE**
7. Unsuccessful efforts to cut down or control – **MAYBE**
8. Great deal of time spent to obtain substance – **MAYBE**
9. Important activities given up or reduced – **MAYBE**
10. Continued use despite harm – **MAYBE**
11. Craving – **MAYBE**

*If opioids are prescribed, this criterion does not apply.

Buprenorphine Implants

FDA advisory approval March 21st, 2013

- ▶ Slow-release (6 month) SQ implant
- ▶ 6 month RCT implant vs. placebo
- ▶ Supplemental SL buprenorphine allowed

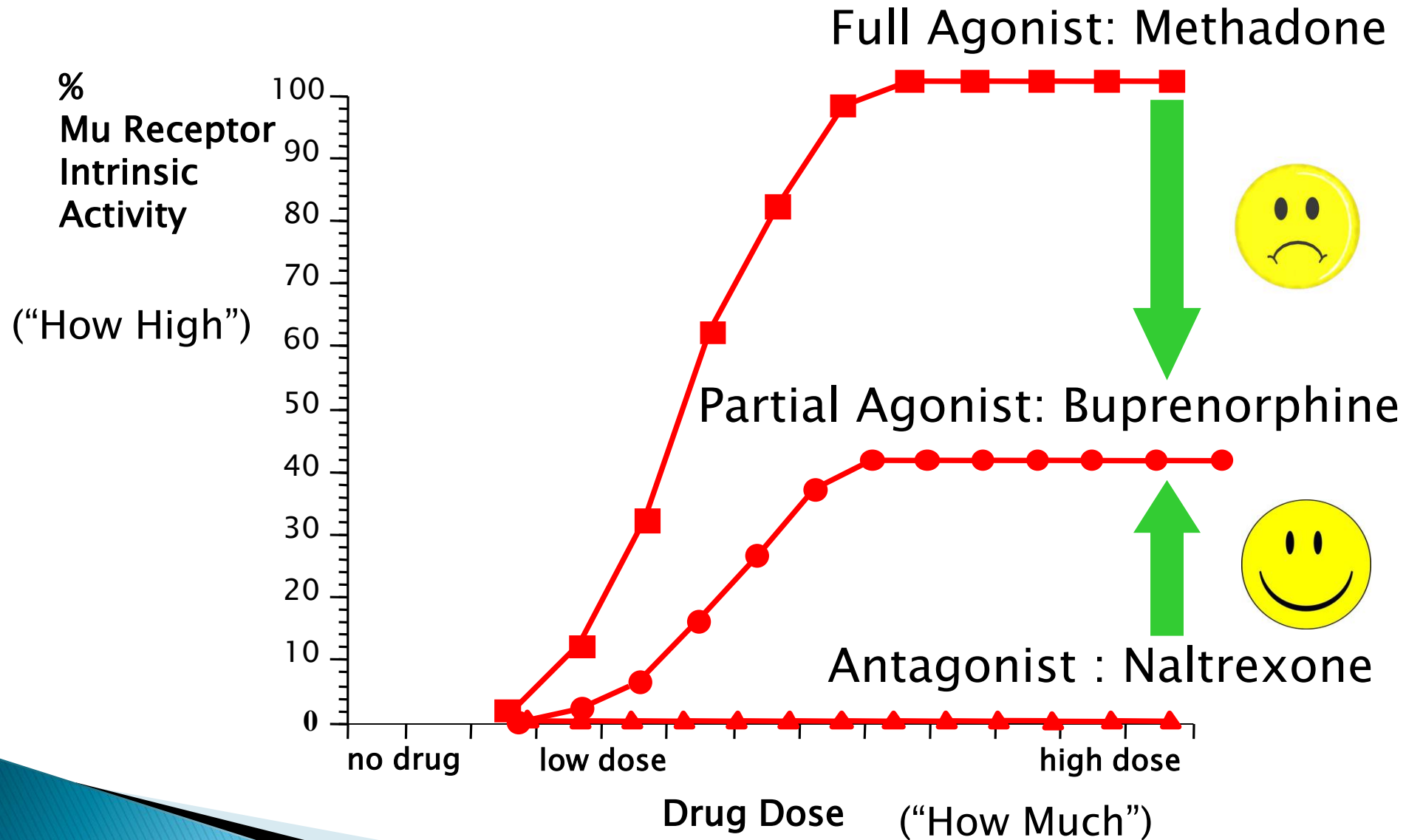


Buprenorphine Implant RCT

	Bup Implant (n=108)	Placebo Implant (n=55)	P-value
24-wk Retention	65.7%	30.9%	<.001
% UDS Negative:			
Weeks 1-16	40.4%	28.3%	.04
Weeks 1-24	36.6%	22.4%	.01
COWS	2.3	3.4	<.001
Subjective Withdrawal	4.1	6.5	.004
Opioid craving VAS	9.9	15.8	<.001

- ▶ 50% with mild implant irritation in both arms
- ▶ Conclusion: Improved retention & decreased opioid use

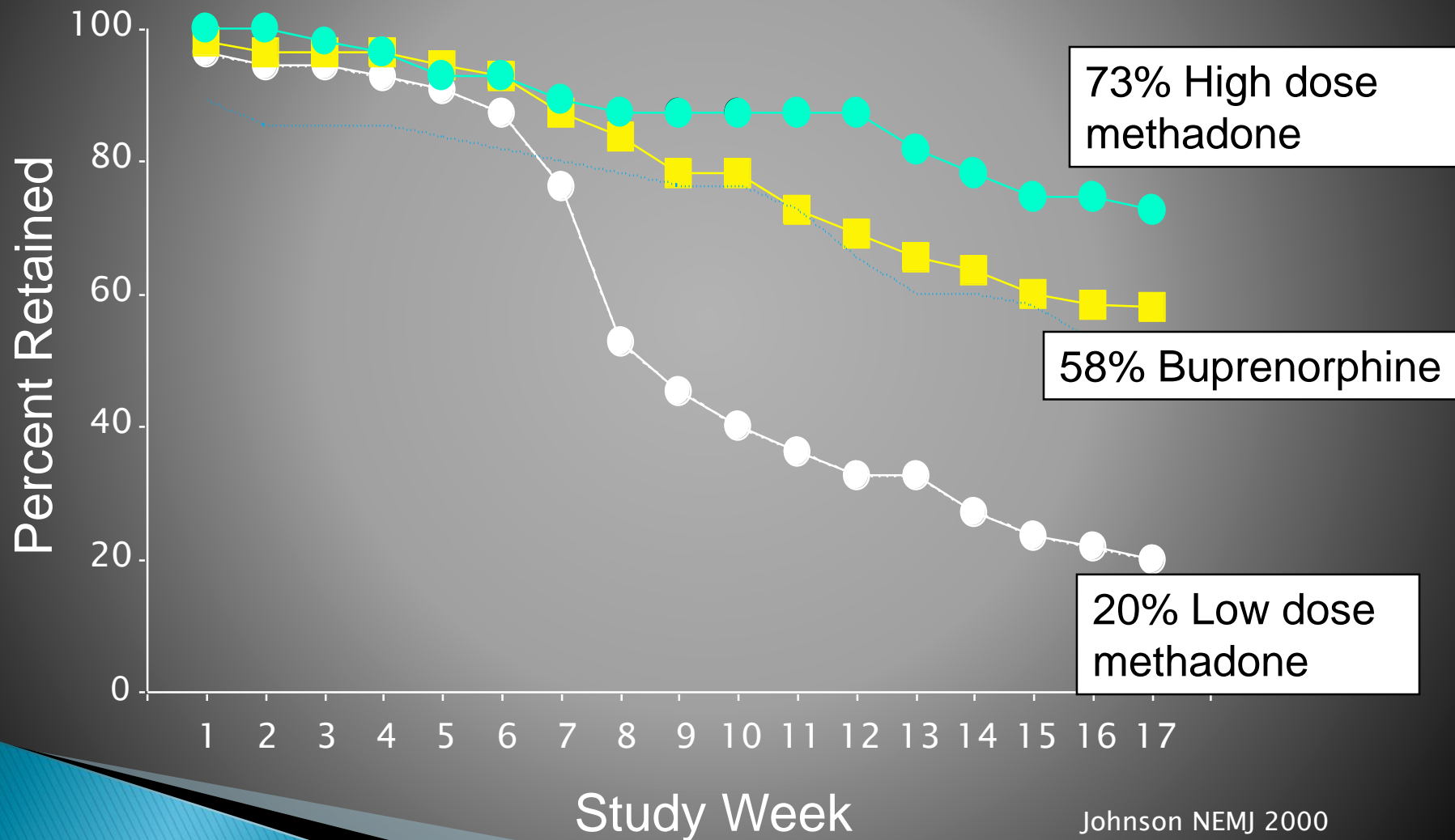
Opioid Activity Levels



Buprenorphine vs. Methadone

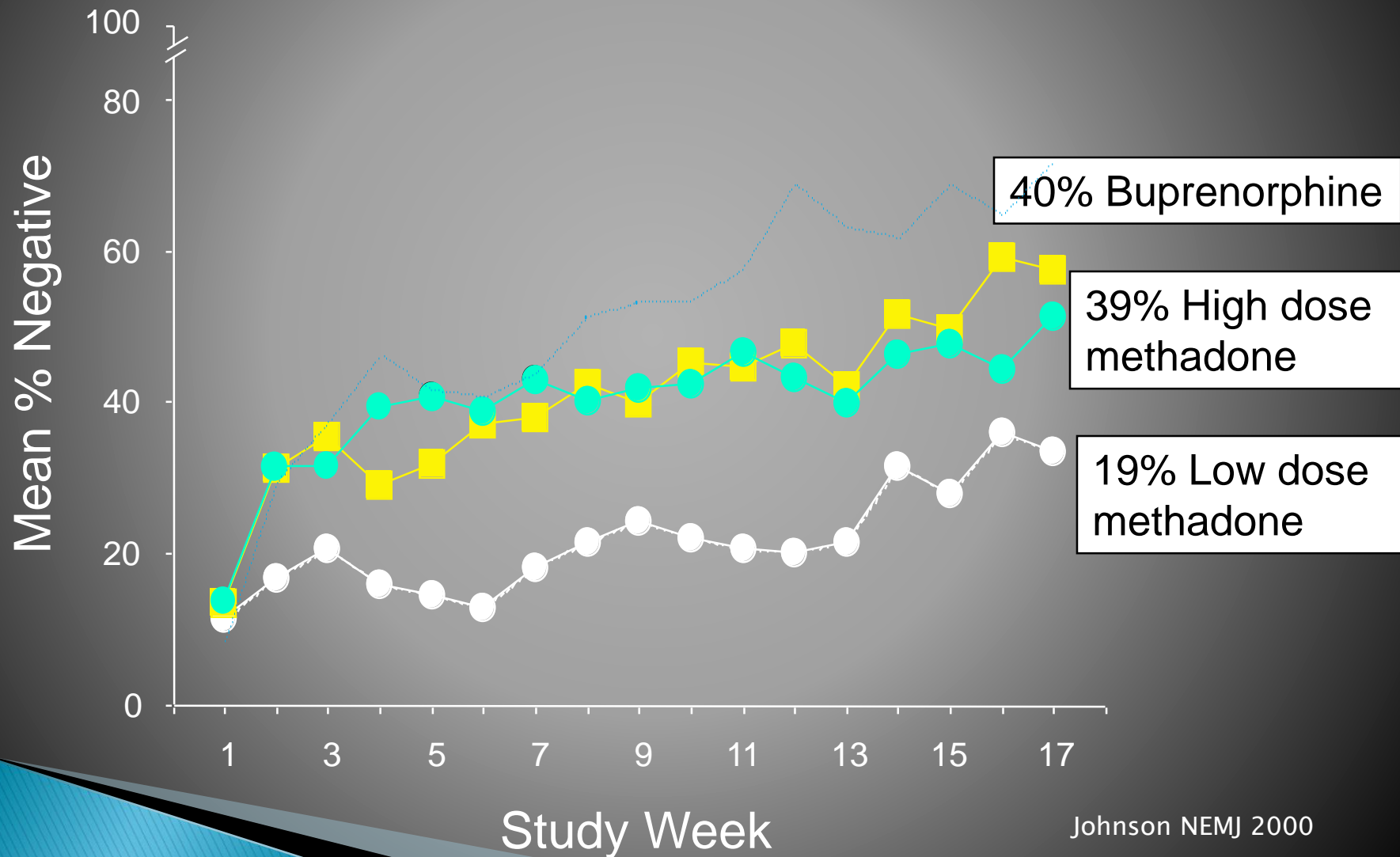
- Design: 17 week outpatient randomized, double-blind clinical trial in heroin users (n=220)
 1. High dose methadone (60–100mg/day)
 2. Buprenorphine (16–32mg 3x/week)
 3. Low dose methadone (20mg/day)
- Outcomes
 - Treatment retention
 - Negative urine drug screens (%)

Buprenorphine vs. Methadone Treatment Retention



Buprenorphine vs. Methadone

Opioid Urine Results



Detox vs. Maintenance: Which is Better?

- ▶ Multi-site trial of buprenorphine/nx for 653 prescription opioid-dependent patients in 10 primary care clinics
- ▶ Detox phase followed by maintenance phase for those who relapse
- ▶ “Success” = minimal or no use on UDS & self-report

Success at 12 Weeks:	
Detox Phase:	6.6%
Maintenance Phase:	49.2%

Buprenorphine Drug Interactions

- Bup metabolized by CYP3A4, 2C8
- Fewer interactions than methadone

	Interaction	Clinical Management
Atazanavir	Buprenorphine levels ↑ 93%	May require ↓ bup dose
Rifampin	Buprenorphine levels ↓ 70%	May require ↑ bup dose
St Johns Wart	Buprenorphine levels ↓	Alt. antidepressant
Benzodiazepines	Synergistic sedation	Avoid benzos + bup

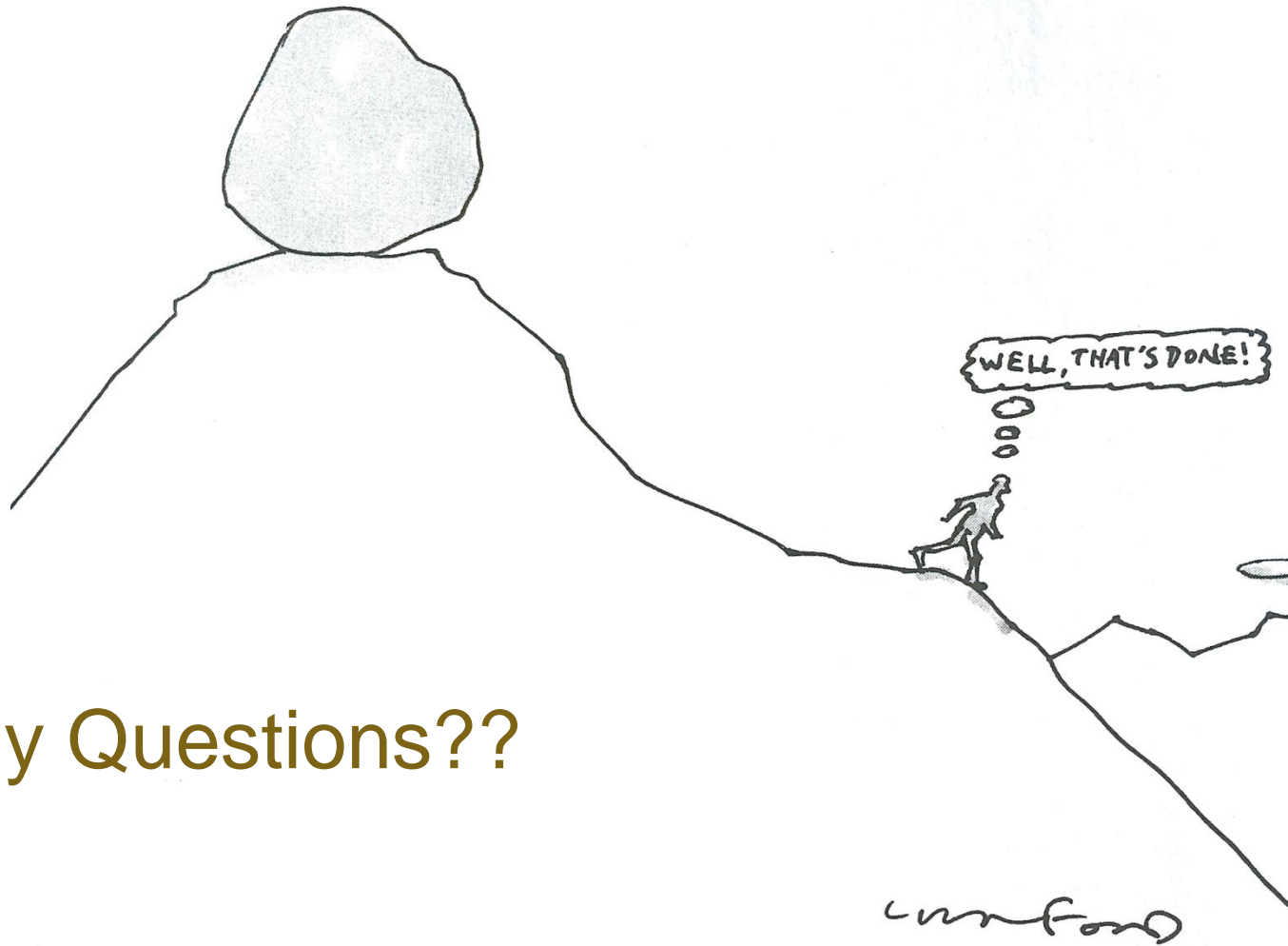
XR-NTX Induction with Recent Opioid Use (one example)

- ▶ Wait 1–3 days past last reported opioid use
- ▶ Assess UDS and repeat daily until negative for opioids and buprenorphine
- ▶ Perform naloxone challenge on first day UDS negative for opioids and buprenorphine
- ▶ When negative, administer XR-NTX same day.
- ▶ Prescribe non-opioid withdrawal treatment medications as needed, for up to 2 weeks

Treat Pain Safely and Effectively

- ▶ Untreated pain may drive opioid use disorder, self medication and misuse
- ▶ Reduce or resolve causes when possible
- ▶ Provide appropriate pain relief
 - Non-medication approaches when effective, safe, easily available and acceptable to patient
 - Less-rewarding meds when safe and effective
 - Potentially rewarding medications when needed with appropriate limits on use
- ▶ Plan treatment when pain anticipated (eg for elective procedures or surgery)

PAIN, at a Point of Equilibrium (!!!)



Any Questions??

Proposed Washington State Action on Opioid Use



Goal 1: Prevent inappropriate opioid prescriptions and use

- CDC or Agency Medical Director Guidelines (AMDG); focus on limiting adolescent prescriptions
- Prevention education targeting youth



Goal 2: Treat people with opioid use disorder and link them to support services, including housing

- BH integration strategies; improved screening, access to medication-assisted treatment
- Ensure rapid, access to medical treatment



Goal 3: Save lives by intervening in overdoses

- Education on overdose response and access to naloxone
- Bulk purchasing of naloxone for public health use



Goal 4: Use Data to focus and improve our work

- Statewide measures to detect unsafe prescribing practices and identify high-risk patients
- Expand Prescription Drug Monitoring Program
- Improve provider notification of opioid overdose events

Source: WA Governor's Office **Executive Order 16-09: Addressing the Opioid Use Public Health Crisis** (October 7, 2016)

RESOURCES

- **Agency Medical Directors Group (AMDG) Guidelines summary:**
<http://www.agencymeddirectors.wa.gov/guidelines.asp>
- **AMDG Guidelines (full version):**
<http://www.agencymeddirectors.wa.gov/Files/2015AMDGOpioidGuideline.pdf>
- **CDC Guidelines:**
<http://www.cdc.gov/drugoverdose/prescribing/guideline.html>
- **DOH general resources for opioid management:**
<http://www.doh.wa.gov/Emergencies/PainClinicClosures>

Office Management of Chronic Pain: Overcoming Barriers to Safe and Effective Pain Care Delivery

Friday, October 21st 2016

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The following have indicated they do not have any relationships to disclose:

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