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# GLADSTONE C. MCDOWELL II, MD Medical Director Integrated Pain Solutions

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#### GLADSTONE C. MCDOWELL II, MD Disclosures



- *Research Support*: Flowonix Medical Inc.; Medtronic; TerSera; Nevro; Biotronik; Saluda; Stimguard
- **Consultant:** Flowonix Medical Inc.; Medtronic, TerSera; Stimwave;

# LEARNING OBJECTIVES

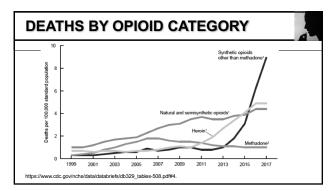


- Apply knowledge of acute and chronic pain pathways and underlying mechanisms to clinical assessment and appropriate management
- Upon evaluation of current clinical workflow for opioid prescribing, incorporate two best practice strategies to optimize safe and competent prescribing and minimize potential for abuse and diversion
- Educate patients about their pain to optimize safe and effective multimodal treatment plans

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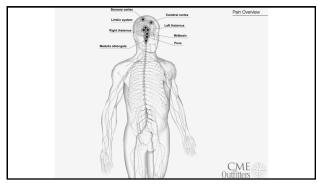
## NHIS ESTIMATES OF CHRONIC PAIN AND HIGH IMPACT CHRONIC PAIN<sup>1,2</sup>

- Chronic pain: 50 million people<sup>2</sup>
   Pain most days or every day in past 6 months
- High impact chronic pain: 20 million people
   Chronic pain limited life or work activities on most days or every day during past 6 months

NHIS = National Health Interview Survey 1. Nahin RL. Journal of Pain. 2015;16(8):769-780.; 2. Dahlhamer J, et al. MMWR 2018;87:1001-1006.

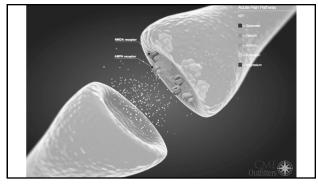
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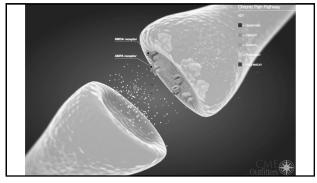


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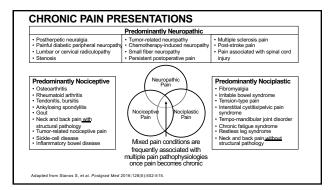
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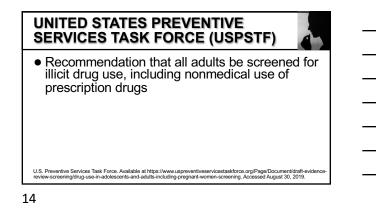
## PATIENT-CENTERED CONSIDERATIONS

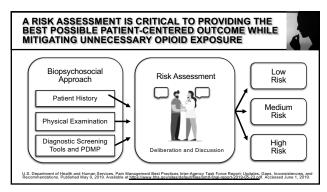
## "Pain"

- Threat to the biological integrity of an individual
- "Suffering"
- A threat to that person that is affecting who they are
   Anxiety, depression

  - Distress, hopelessnessChange in function
- Fishbain D. et al. Pain Medicine 2015:6:1057-72.
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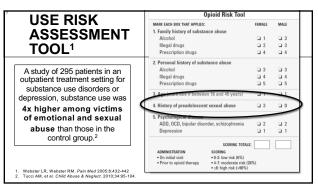






	Opioid Risk Tool		
● 4 A's ● <b>A</b> nalgesia	MARK EACH BER THAT APPLIES: 1. Family history of substance abuse Alcohol Illingal drugs	TEMALE	- MALE 
<ul> <li>Activities of daily living</li> <li>Adverse effect</li> </ul>	Prescription drugs 2. Personal history of substance abuse Alcohol Illegal drugs Prescription drugs	14 13 14 15	0.3 0.4 0.5
<ul> <li>Aberrant behavior</li> </ul>	Age (mark box if between 16 and 45 years)     Altistery of preadolescent sexual abuse	01	01
Opioid Risk Tool	5. Psychological disease ADD, OLD, bipolar diserter, schizophrenia Devrassion	0.2 0.1	B 2 D 1
<ul> <li>Tools such as GAD-7, PHQ-9 to assess anxiety and depression</li> </ul>	ADREWSTRATION SCOREG TOTALS - Dis initial visit - 5-2: how risk (KN) - Prior to opioid therapy - 4-3: moderate risk ( - 3: high risk (2465)		
PEG: Pain, Enjoyment of life and G			_






PAIN MAN	AGEMENT TOOLS
Medications	Use multimodal analgesia NSAIDs, acetaminophen, AEDs, gabapentanoids, immediate-release (IR) opioids Prescribe lowest effective IR opioids for shortest period possible Minimize use of ER opioids, Never first line therapy
Behavioral Medicine	Cognitive behavioral therapy, acceptance, and mindfulness approaches     Relaxation training (biofeedback, deep breathing) and counseling     Pain education, motivational interviewing techniques
Physical Modalities and Interventions	Use appropriate immobilization, ice, and elevation     Physical and occupational therapy, exercise, and movement-based     approaches     Interventional procedures, injections
Monitoring and Education	Assess pain regularly with short validated tools     Patient education
AED = anti-epileptic drug	<b>,</b>



## **APPROPRIATE STEPS**



- Discuss risks and benefits of use of controlled substances with the patient
- Secure documentation
- Periodically review treatment for efficacy and tolerability<sup>1</sup>
- Re-evaluate the patient
  - Is pain controlled?
  - Are physical and psychological functioning improved?
    Patient quality of life
- Adjust plan to optimize analgesia and function

1. Federation of State Medical Boards of the United States, Inc Web site. Model policy for the use of controlled substances for the treatment of pain. http://www.painpolicy.wisc.edu/domestic/model.htm.

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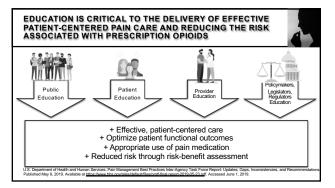
Determining need for opioids		
<ul> <li>Opioids are not first-line or rout</li> <li>Establish and measure goals for</li> <li>Discuss benefits and risks of op</li> </ul>		
Opioid selection, dosage, and duration of therapy		
<ul> <li>Use immediate-release opioids</li> </ul>	s when starting.	
increasing dose to > 90 mg ME	sess benefits and risk when dose reaches >50 mg MED and avoid ED without carefully justifying decision. Itment of acute pain. 3 days or less often sufficient.	
<ul> <li>Follow-up and re-evaluate risk</li> </ul>	of harm; reduce dose or taper and discontinue if needed.	
Assessing risk and addres	sing harm	
Evaluate risk factors for opioid-	related harms.	
	and prescriptions from other providers. y prescribed substances and undisclosed use. ne and opioid prescribing.	
Arrange treatment for OUD if ne	eded.	

#### UNINTENDED CONSEQUENCES: NO SHORTCUTS TO OPIOID PRESCRIBING

- Although not intended to be model legislation, 28 states have enacted legislation related to opioid prescription limits
- Has been used to override medical decisions
- Patients on high dose opioids discontinued or dismissed from care
- Universally stop prescribing opioids even when benefits outweigh risks

Dowell D, et al. N Engl J Med. 2019 Apr 24. doi: 10.1056/NEJMp1904190.

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#### HAVE AN EXIT STRATEGY

- Taper opioids appropriately and optimize non-opioid pain management and psychosocial support
  - Collaborate with the patient using motivational interviewing skills
     Patient-centered opioid taper
- Patient-centered opioid taper
  - If no sustained improvement in pain and/or function
    Patient side effects, frequent unscheduled requests, overdose,
  - Patient side effects, frequent unscheduled requests, warning signs, concurrent benzodiazepines
  - Avoid abrupt discontinuation
  - Taper slowly, pause and adjust as needed

1. Kroenke K, et al. Pain Med. 2019 Jan 25. doi:10.1093/pm/pny/307. 2. www.cdc.gov/drugoverdose/prescr

- Decrease dose by 10%/week or by 25% at a time, in monthly steps
- Assess and manage opioid withdrawal signs and symptoms



#### DO ALL SURGICAL PROCEDURES **REQUIRE OPIOIDS?**

- 1 in 16 surgical patients prescribed opioids becomes a long-term user1
- 190 patients undergoing 6 procedures offered the opportunity to participate in opioid-sparing management<sup>2</sup>
- Advised to use acetaminophen and ibuprofen and given a small "rescue" opioid prescription for breakthrough pain
   52% used NO opioids after procedures

  - Patients report high level of satisfaction and pain control
  - 91% of patient agreed their pain was manageable
- Results demonstrate effectiveness and acceptability of reduction and/or elimination of opioids after discharge from minor surgery 1.0verten Nv. et al. JAm Coll Surg. 2016;227(4):11-161-2. Halway A. et al. JAm Coll Surg. 2019 Apr 26 51072-7515(19)30285-9. doi: 10.1016/j.jamcGourge 2019.04.002 (Februard Part)

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	Opioid	Non-Opioid
Inpatient	<ul> <li>Moderate pain: Oxycodone/APAP 5mg/325mg 1 tab po q4 hrs PRN</li> <li>Severe pain: Oxycodone/APAP 5mg/325 mg 2 tabs po q6 hrs PRN</li> <li>Hydromorphone 1 mg IV a3 hrs PRN for severe breakthrough pain</li> </ul>	<ul> <li>Ketorolac 15mg IV q6 hrs x 5 doses followed by ibuprofen 600mg po q8 hrs</li> <li>Gabagentin 100mg 1 tab oo TID</li> </ul>
		<ul> <li>Scheduled APAP 500mg po q12 hrs</li> </ul>
Week 1 at	Oxycodone/APAP 5mg/325 mg 1 tab po q4 hrs PRN. Dispense #42	<ul> <li>Ibuprofen 600mg po q8 hrs x 7 days (Rx given)</li> </ul>
discharge	(1 time Rx, no refills	<ul> <li>Gabapentin 100mg 1 tab po TID x 7 days (Rx given</li> <li>Scheduled APAP 500mg po q12 hrs x 7 days (can increase as combined oploid analgesic decreases)</li> </ul>
	<ul> <li>Hydrocodone/APAP 5mg/325mg or tramadol 50mg (only if</li> </ul>	<ul> <li>NSAIDs PRN as directed</li> </ul>
	necessary, 3 Rx Max)	<ul> <li>Gabapentin if necessary (up to 1800 mg/day)</li> </ul>
Week 2	1 tab po q4 hrs PRN Dispense #42	<ul> <li>Scheduled APAP 500mg po q12 hrs (can increase a combined opioid analgesic decreases)</li> </ul>
Week 3	1 tab po q6 hrs PRN Dispense #28	<ul> <li>Scheduled APAP 1000mg po q12 hrs (can increase as combined opioid analgesic decreases)</li> </ul>
Week 4	1 tab po q8 hrs PRN Dispense #21	<ul> <li>Scheduled APAP 1000mg po q8 hrs (can increase a combined opioid analgesic decreases)</li> </ul>
Week 5+		NSAIDs PRN as directed     APAP PRN as directed     Gabapentin if necessary (then wean)

	Opioid	Non-Opioid
Week 1	Hydrocodone/APAP 5mg/325mg or tramadol 50mg     1 tab po q6 hrs PRN, Dispense #28     1 time Rx, No refills	Ibuprofen 600mg po q8 hrs x 7 days (Rx given)     Gabapentin 100mg 1 tab po 11D x 7 days (Rx given)     Scheduled APAP 500mg po q12 hrs x 7 days (can     increase as combined opioid analgesic decreases)
Week 2	<ul> <li>Hydrocodone/APAP 5mg/325mg or tramadol 50mg</li> <li>Only if necessary, 2 Rx Max</li> <li>1 tab po q8 hrs PRN Dispense #21</li> </ul>	NSAIDs PRN as directed     Gabapentin if necessary (up to 1800 mg/day)     Scheduld APAP 1000mg po q8 hrs (can increase as     combined oploid analgesic decreases)
Week 3	1 tab po q12 hrs PRN Dispense #14	NSAIDs PRN as directed     Gabapentin if necessary (up to 1800 mg/day)     Scheduled APAP 1000mg po q8 hrs (can increase as combined opioid analgesic decreases)
Week 4		NSAIDs PRN as directed     APAP PRN as directed

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OTA RECOMMENDATIONS FOR PAIN MEDICATION TAPER	
FOLLOWING NON-OPERATIVE MUSCULOSKELETAL	
INJURY	

Injury Category	Opioid	Non-Opioid
Minor Injury (e.g. small bone fracture, sprain, laceration, etc.)	Tramadol 50mg     Only if necessary, 2 Rx Max     1 tab po q6 hrs PRN,     Dispense #20, then #10	NSAIDs PRN as directed     Scheduled APAP1000mg po q8 hrs, then PRN as directed
Major Injury (e.g. large bone fracture, rupture, etc.)	<ul> <li>Hydrocodone/APAP</li> <li>5mg/325mg or tramadol 50mg</li> <li>Only if necessary, 2 Rx Max</li> <li>1 tab po q6 hrs PRN</li> <li>Dispense #20, then #10</li> </ul>	NSAIDs PRN as directed     Scheduled APAP 1000mg     po q12 hrs, then PRN as     directed



## PATIENT EDUCATION IS IMPORTANT

- Education to help patients better understand their pain is essential
- Setting clear goals and expectations is critical!
  - A reasonable goal is a 30% reduction in pain which is considered meaningful and improve daily functioning
- Provide education about what the patient can and should do to feel better and be more active
  - Non-pharmacological therapies: Cognitive behavioral therapy, relaxation training, mindfulness
  - Exercise and movement without significant pain increase
  - Discuss healthy self-care, necessity of taking an active role in treatment

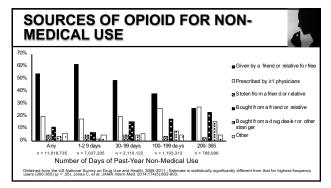
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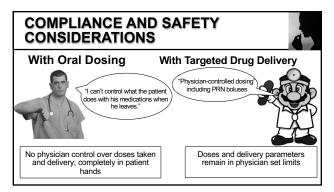
## NALOXONE

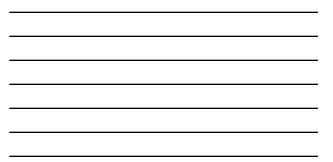
- Not a "cure" but reverses the dangers of an opioid overdose allowing medical treatment and hopefully prevent death • Three FDA-approved formulations

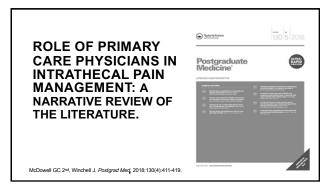
  - Injectable
  - Autoinjectable
    - Prefilled autoinjection device
       Once activated, device provides verbal instructions to user
  - Prepackaged nasal spray, no assembly Prefilled, needle-free device
- All 50 states + DC have legislation increasing access
  - Naloxone distribution by pharmacists
  - Allows distribution beyond those at risk for overdose

[Package Insert]. Drugs@FDA Website









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#### EDUCATION ON SAFE STORAGE AND **DISPOSAL OF UNUSED MEDS**

#### Opioids should be stored inside lockbox and/or secure location

- Medication take-back programs
  - DEA-registered collection sites at retail/hospital/clinic pharmacies and law enforcement
  - · Check www.takebackmymeds.com for additional details
- Disposal in household trash

  - Mix (do not crush tablets or capsules) with an unpalatable substance such as dirt, cat litter, or used coffee grounds and seal in plastic bag
    Delete personal information from the prescription label before disposing
- Disposal in a drug deactivation pouch that utilizes carbon to deactivate and dispose in household trash
- FDA endorses flushing, but many oppose due to concerns about aquatic life

# SMART GOALS

Specific, Measurable, Attainable, Relevant, Timely

- Integrate risk assessment tools into clinical workflow
- Individualize multimodal treatment planning
- Educate patients about their pain to set appropriate expectations and treatment goals
- Provide patients at risk with access to naloxone

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## **NEW FROM CME OUTFITTERS OPIOID EDUCATION HUB**

Free resources and education to educate both HCPs and patients on pain & appropriate pain management, substance use, and more.

See the handout at your seat to get

www.cmeoutfitters.com/RX4Pain