

Disclosure Statement

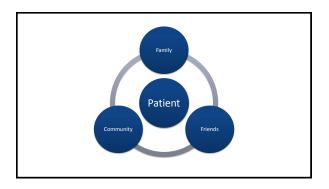
I have no financial relationships or potential conflict of interest relevant to this activity.

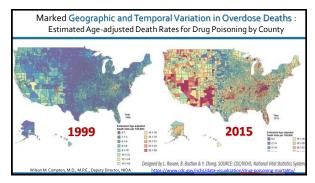
Objectives

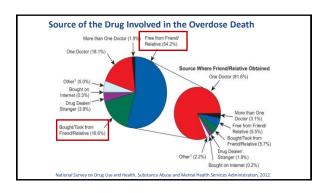
Upon conclusion of this presentation, participants will be able to:

- 1. Discuss current issues with opioid prescribing practices in today's healthcare landscape for pediatrics
- Recognize the utility of North Carolina Controlled Substance Reporting System and how to enhance interprofessional communication among healthcare providers
- 3. Describe pharmacological approaches to acute dental pain and patient considerations

Opioid Prescribing Practices And The Abuse Epidemic



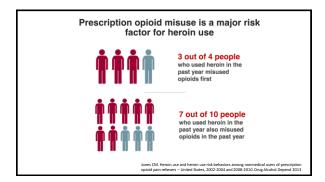




Dependence Risk from Excess Opioids

- Excess supply of prescription opioids after surgical procedures
- Approximately 5-15% of opioid-naïve patients who undergo "successful" surgery develop dependence
 - New persistent opioid use one of the most common postoperative complications.
- 40-70% of opioid pills prescribed postoperatively remain unconsumed, providing a massive reservoir for diversion into the community.
- Post-surgical patients receiving opiates for pain control are particularly vulnerable to dependence due to
 - Excessive post-procedural prescribing of opioids
 - Gaps in follow-up
 - Inadequate disposal of unused excess supply.

Brummett CM., et al. JAMA Surg. 2017;152(6):e17050 Lee JS, et al. J Clin Oncol. 2017;35(36):4042-4049. Harbaugh CM, et al. Pediotrics. 2018;141(1). J Colf Dent Assoc. 2016;44(12):727.



Pain Management Dilemma

- Patient Education Needs and Conflict of Patient Expectations
- · Opioid prescribed based on:
 - Practice history
 - Manage patient's potentially severe post-operative pain
- Ensure patient satisfaction
- When prescribing for acute pain...
 - Making judgement of patient's needs on basis of length of procedure and degree of surgical trauma

Moore PA, et al. JADA 2016:147:530-53

Perceptions and Gaps - Patient Education

- Reasons for inconsistent patient education regarding risks associated with opioid use:
 - Believed patient already knew
 - Felt not necessary for short-term Rx
 - Patients would ignore education
 - Assume pharmacist would educate
 - Not enough time
 - $\boldsymbol{\mathsf{-}}$ Felt uncomfortable having the conversation
 - Patients would not understand

McCauley, et al. Subst Abus. 2016; 37(1): 9–14

Majority of dentists perceived

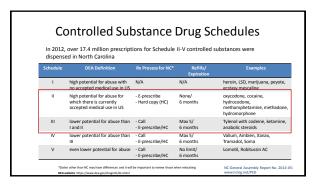
diversion to be

either not much or not at all a

problem in their

practice

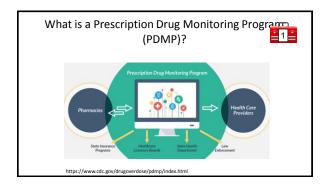
North Carolina Controlled Substance Reporting System And Resources

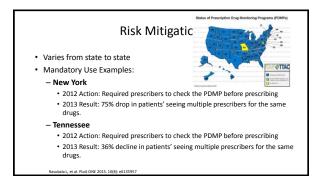


CDC Stance: Opioid Priority Areas

- o Advancing the practice of pain management
- Expanded availability and distribution of treatments for opioid overdoses (i.e. *naloxone*)
- o Expanded access to treatment and recovery services
- o Strengthening public health surveillance
- o Supporting cutting edge research

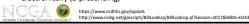
https://www.cdc.gov/drugoverdose/pdmp/index.html





*NC HB 243: Strengthen Opioid Misuse Prevention (STOP) ACT

- Signed JUNE 2017
- Mandatory use of PDMP (Initial and Q3 months)
- Limit doctors to prescribing no more than 5-day supply of opioids during initial visit to treat patient's acute non post-op pain (7-day supply for post-op pain)
 - Can prescribe larger supply at follow-up
 - Limit not apply to cancer patients or others with chronic pain
- Medical providers would be REQUIRED to submit prescriptions electronically (E-prescribing)



When to use North Carolina CSRS*

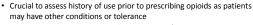
- · Confirm past treatments with controlled substances
 - Including opioids and benzodiazepines, based on referral information and patient-reported information provided during the initial visit.
- · Uncover evidence of obtaining controlled substances from multiple providers and/or visiting multiple pharmacies.
- Queried periodically
- At three-, six-, and twelve-month intervals for returning patients who are being managed with opioid therapy

How to Encourage Your Practice to Use NC **CSRS**

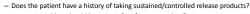
- · Suggestions/Recommendations:
 - Delegate accounts
 - Designated person(s) in office to access/generate reports
 - Query search types
 - · Character matches
 - What to do if you find something incorrect
 - Corrections by pharmacy

Contact for Questions and Tips

- NC Health and Human Services: Opioid Action Plan 2017-2021
 - https://www.ncdhhs.gov/opioids
- · Utilizing the system:
 - https://nccsrsph.hidinc.com/help_nc_query/index.html
 - https://nccsrsph.hidinc.com/NC_RxSentry_TrainingGuide_Practitioners.
- North Carolina Controlled Substance Reporting System Division of Mental Health, Developmental Disabilities, and Substance Abuse Services 3008 Mail Service Center, Raleigh, NC 27699-3008 Phone: (919) 733-1765 Email: nccontrolsubstance.reporting@dhhs.nc.gov



Importance of Assessing Patient History 22



- How many tablets should be written for after a procedure?
- Does the patient or family history indicate drug abuse?
- · Additional Resources to Verify
 - Retail/Community pharmacies patient uses
 - Contacting primary care or specialty providers
 - NC Controlled Substance Reporting System

Dionne RA, et al. Compendium 2016: 37:372-37

Importance of Provider-to-Provider Communication

- · Physicians (Primary Care/Specialties) aware of patient factors
 - Resistance to changes in therapy
 - Deterioration in home/work
 - Abuse of other substances
 - Frequent ED visits
 - Unauthorized dose increases
 - Non-medical use
 - Refuses urine drug screen/referral to specialist
 - Pain contracts*

What can your local pharmacy/pharmacist do?

- Awareness of patient substance abuse factors and behaviors
 - Early refills/fill history
 - Lost/stolen prescriptions
 - Doctor shopping
 - Prescription forgery
 - Payment methods (cash)
- · Drug Take Back Programs
 - Disposal (select locations, time of year)
- · Naloxone dispensing*

Reynolds V. N C Med J. 2017;78(3):202-20

Patient Education and Counseling



Communicate Education

- · Discuss plan if patient already takes opioids chronically
- · Severity of pain may not require opioid prescription to be filled
- Adverse effects of opioids
- · Significant potential for misuse, abuse, and overdose
- Caution with other Combination Products
- -OTC acetaminophen, cough/cold products

SBIRT

- Screening quickly assesses the severity of substance use and identifies the appropriate level of treatment.
- Brief intervention focuses on increasing insight and awareness regarding substance use and motivation toward behavioral change.
- Referral to Treatment provides those identified as needing more extensive treatment with access to specialty

Patient Education and Counseling

Patient Medication Counseling

- · Follow the labeled instructions
- Avoid alcohol and sedative drugs while taking an opioid pain reliever
- · Never share with a friend or family member
- · Keep in a secure location
 - Avoid leaving them in predictable, accessible places

Disposal of Unused Medications

- DEA Controlled Substance Public Disposal Locations
- https://apps.deadiversion.usdoj.gov/pubdispsearch/spring/main?execution=e1
- National Prescription Drug Take Back Day (April and October)
- https://www.deadiversion.usdoj.gov/
- Next Drug Take Back Day October 27, 2018
- FDA Safe Disposal
- https://www.fda.gov/Drugs/ResourcesForYou/Consumers/BuyingUsingMedicine Safely/EnsuringSafeUseofMedicine/SafeDisposalofMedicines/ucm186187.html/ Flush List
- Dispose of unused tablets properly:
- Combine with coffee grinds or kitty litter. Place mixture in a sealed bag.



Opioid Use Disorder (OUD)

For a patient using opiates with \geq 2 of the following behaviors within a 12-month period:

- Taking more opioid drugs than intended or prescribed
- Wanting or trying to control opioid drug use without success
- Spending a lot of time obtaining, taking, or recovering from opioid use
- Ongoing cravings for opioids
- Fails to carry out important roles at home, work, or school due to use
- Continuing to use despite causing relationship or social problems

Criteria
Mild = 2 to 3
Moderate = 4 to 5
Severe > 6

Current Context of Opioid Use, American Psychiatric Association. Diagnostic and Statistical Manual of Mental Disorders, fifth edition American Psychiatric Association, 2013.

Opioid Use Disorder (OUD)

For a patient using opiates with \geq 2 of the following behaviors within a 12-month period:

- · Giving up or reducing other activities because of opioid use
- · Using opioids even when it is physically unsafe
- Knows that opioid use is causing a physical and/or psychological problems, but continues to take the drug anyway
- Tolerance
- · Withdrawal

Criteria Mild = 2 to 3 Moderate = 4 to 5 Severe > 6

urrent Context of Opioid Use, American Psychiatric Association. iagnostic and Statistical Manual of Mental Disorders, fifth editic merican Psychiatric Association, 2013.

Provider and patient resources

Substance Abuse and Mental Health Services Administration (SAMHSA) - http://www.samhsa.gov/

- Program directories (behavioral health, opioid treatment, etc.)
- Information topics on substance abuse and mental illness

National Institute of Drug Abuse (NIDA) -

https://www.drugabuse.gov/

• Provider information related to science of drug abuse

Centers for Disease Control and Prevention (CDC) -

Recent Landscape for Guidelines:

Small Number Outdated

Not Conflict Free

➤ Solution....

Opioid Prescribing Guidelines

- > Intended for primary care providers
- Applies to patients >18 years old in chronic pain outside of end-of-life care
- Builds on joint CDC, NIDA, ONC, SAMHSA summary on "Common Elements in Guidelines for Prescribing Opioids for Chronic Pain" and the NIH Pathways to Prevention for Opioids in Treating Chronic Pain
- ➤ PUBLISHED MARCH 15, 2016
 Wikton M. Compton, M.D., M.P.E. Deputy Director. National Institute on

Recommendation 8

- 8. Before starting and periodically, evaluate risk factors for opioid-related harms. Incorporate strategies to mitigate risk such as offering naloxone when factors that increase risk for opioid overdose:
 - history of overdose (may consider non-opioid therapy)
 - · history of substance use disorder
 - higher opioid dosages (≥ 50 MME/day), or
 - concurrent benzodiazepine use (A-4).

Dowell D, et al. JAMA. 2016;315(15):1624-1645



Naloxone Standing Orders

- Past in North Carolina: More than 1,000 people died each year from prescription opioid and heroin overdoses.
- As of 6.20.16, North Carolina pharmacies can make naloxone available without a prescription, the third state to issue a statewide standing prescription order.
- Good News: In 2015, the number of opioid overdose reversals exceeded the number of overdose deaths.
- Since 8.1.13, # overdose reversals via naloxone in NC = 6,280⁺ (as of 2.22.17) = www.nchrc.org/programs-and-services/nc-od-reversals/

Which North Carolina Pharmacies Have Naloxone?



Via standing order, pharmacies can dispense naloxone to

- Persons who are at risk of experiencing an opiate-related overdose.
 Persons who are the family member or friend of a person at risk of experiencing an opiate-related overdose.
- Persons who are in the position to assist a person at risk of experiencing an opiate-related overdose.

http://www.naloxonesaves.org/n-c-pharmacies-that-offer-naloxone/

CDC Guideline for Prescribing Opioids for Chronic Pain

- · Published on March 18, 2016, CDC reviewed evidence, expert opinion, stakeholders (professional organizations), and public comments
- · Intended for primary care providers treating patients with chronic pain (pain ≥ 3 months)
- · Not intended for dental practice, emergency physicians, or medication-assisted treatment for an opioid use disorder,

Dowell D. et al. JAMA. 2016:315(15):1624-1645

What else is CDC doing?

- The new prescribing guideline is just one of the strategies to reduce the number of people who suffer from opioid use disorder or overdose related to these drugs. Other efforts include:
 - Enhancing and maximizing the use of PDMPs
 - Helping states scale up effective programs through the Prevention for States program
 - Conducting policy evaluations
 - Developing and implementing Rapid Response Projects
 - Improving data quality and tracking trends to monitor the epidemic

Dowell D, et al. JAMA. 2016;315(15):1624-1645 https://www.cdc.gov/drugoverdose/prescribing/g

Interprofessional Outreach Barriers

- · Assumptions of education
- · Time limitations
- · Practice and communication limitations
- · Preventative vs. Reactive

xample: Narcotic Prescribing	Practice Policy	Guidelines/Steps

- Run CSRS report on patient prior to patient's scheduled appointment (completed by:
- Verify full medication listory during appointment (including history of pain management)
 a. Determine amounts of "as needed" pain medications (over-the-counter or prescription)
 b. Determine previous use of controlled substances
- Verify primary pharmacy patient fills prescriptions (completed by: _Screen for use/abuse not just yes/no questions

 - a. Tobacco b. Alcohol c. Illicit drug
- Prescription drug
 Prescription drug
 Consider development and having patient sign a policy related to opioid prescribing
 At receipt of prescription, verbally review and provide patient:
 a. Education sheet related to pain medication side effects (opioid/NSAIDs)
- - B. Risks associated to abuse/misuse of opioids
 Secure storage and disposal of opioids unused
 - - Closest pharmacy to practice site for disposal:
 Drug Take Back Day and Location:

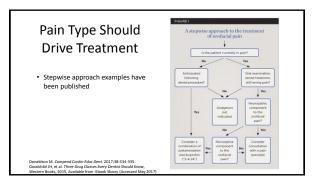
Pharmacological Approaches To Acute **Pain And Patient Considerations**

Neuropathic • Primary lesion • Dysfunction of nervous system

Nociceptive

• Tissue Injury

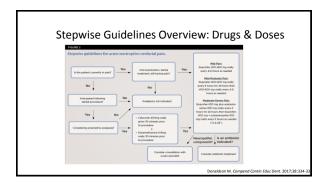
• Inflammation

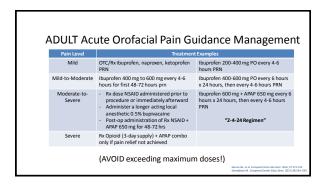


Pathophysiology of Pain • Tissue damage stimulates release of inflammatory mediators — Prostaglandins — Kinins — Leukotrienes — Substance P — Histamine

Terminology and Abbreviations OTC - Over-the-counter PRN - as needed Rx - Prescription APAP - Acetaminophen (Tylenol) NSAID - Non-steroidal anti-inflammatory

COX - CyclooxygenaseASA - Aspirin





Treatment (Nociceptive pain) – General ADULT Med Practice

- Risk factors: advanced age, renal / hepatic dysfunction, cardiovascular disease
- Mild / Moderate Pain:
 - (1) topical agents → (2) APAP → (3) NSAIDs or COX-2 → (4) Tricylic antidepressants (TCA) or Serotonin-Norepinephrine Reuptake Inhibitors (SNRI)
- Moderate / Severe Pain:
 - (1) NSAIDs \rightarrow (2) APAP \rightarrow (3) TCA / SNRI



NSAID Use in Pediatrics

- Main risk in taking NSAIDs = dosage errors resulting in overdose, which can cause substantial morbidity, or even death.
- Among NSAIDs, the most popular in pediatrics are ibuprofen followed by naproxen.
- Overall, between all analgesics, acetaminophen is the most broadly used drug in children and the preferred first-line agent because of its superior tolerability profile.

Laskarides C. Dent Clin N Am 2016;60: 347-366.

NSAID Use in Pediatrics

- In general NSAIDs should be avoided in children with:
 - Currently treatment for asthma
 - History of asthma, urticaria, rhinitis, or sinusitis precipitated by NSAIDs
 - Impaired renal function
 - $\\ Impaired \\ coagulation \\ mechanism$
 - Anticoagulant medications
 - Nephrotoxic medications, like aminoglycoside antibiotics (eg, gentamycin, neomycin, and amikacin).

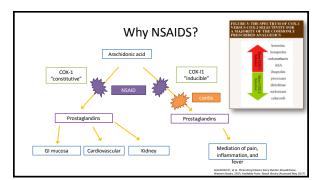
Laskarides C. Dent Clin N Am 2016:60: 347–366

NSAID Use in Pediatrics

Medication	Dose (mg/kg)	Frequency (h)	Max per day (mg/kg/d)
Aspirin*	10-15	4-6	90 (4 g/day)
Ibuprofen	4-10	6-8	40
Naproxen	5-10	12	15

*Aspirin carries risk of Reye's syndrome (a rare disorder presented by symptoms of encephalitis and evidence of liver failure) in children < 12 years old recovering from chickenpox or flu symptomes and should be avoided

Ibuprofen. Lexi-comp, Inc (Lexi-Drugs*); 2017. Naproxen. Lexi-comp, Inc (Lexi-Drugs*); 201 Naproxen. Lexi-comp, Inc (Lexi-Drugs*); 201



NSAIDs (ibuprofen, naproxen, indomethacin, ketoprofen)

NSAIDs - Effective in acute inflammation from dental procedures

 NSAID
 Adult General Dosing
 Max Daily Dose

 Ibuprofen
 Rx/OTC: 200-400 mg Q4-6H
 Rx: 3200 mg

 Naproxen
 Rx: 500 mg, then 250 mg Q6 Rx: 1250mg

 (Naproxen
 8H OR 500 mg Q12H
 OTC: 600mg

 OTC: 200-400 mg Q8-12H
 OTC: 500-400 mg

- Pediatric Dosing: refer to OTC weight-based

recommendations

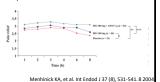
Lexi-comp. Lexi-Drugs Dionne RA, et al. Compendium 2016: 37:372-37

Why APAP?

- Mechanism for analgesia not well understood
 - Believed to be weak inhibitor of prostaglandin synthesis in the Central Nervous System (weak anti-inflammatory)
 - Work peripherally to block pain impulse

"When Two are Better than One" Post-operative endodontic pain

· Avoid Ceiling-dose effect



Acetaminophen (APAP)

- Generally safer option
- General Dosing
- 325 mg 650 mg every 4-6 hours as needed
- 500 mg 1000 mg every 6-8 hours as needed
- Maximum Daily Dose: 3000 mg or 3 g (some references state 4g)
- Provide synergistic effect when combined in alternating schedule with ibuprofen
- · In 2013, FDA limited APAP components in combination products
 - Most opioid combos have suboptimal APAP dose in 1 tablet

Moore PA, et al. JADA 2013:144(8):898-908

Acetaminophen Weight-Based Pediatric Dosing

Acctaninophen Weight Basea realatine Bosing			
Medication	Dose (mg/kg)	Frequency (h)	Max per day (mg/kg/d)
Acetaminophe	10-15	4-6	75 (3 g/day)

OTC Labeling Acetaminophen

- Children 6 to 11 years: 325 mg every 4 to 6 hours; maximum daily dose: 1,625 mg/day
- Children ≥12 years and Adolescents:
- Regular strength: 650 mg every 4 to 6 hours
- Extra strength: 1,000 mg every 6 hours
- Extended release: Children ≥12 years and Adolescents: 1,300 mg every 8 hours
- Maximum daily dose: 3,000 mg/day (≤4,000 mg under physician supervision)

Acetaminophen. Lexi-comp, Inc (Lexi-Drugs®); 2017

Acetaminophen Fixed Dosing in Pediatrics

Weight (preferred)*		Ago	Dosage
kg	lbs	Age	(mg)
2.7 to 5.3	6 to 11	0 to 3 mo	40
5.4 to 8.1	12 to 17	4 to 11 mo	80
8.2 to 10.8	18 to 23	1 to 2 y	120
10.9 to 16.3	24 to 35	2 to 3 y	160
16.4 to 21.7	36 to 47	4 to 5 y	240
21.8 to 27.2	48 to 59	6 to 8 y	320
27.3 to 32.6	60 to 71	9 to 10 y	400
32.7 to 43.2	72 to 95	11 v	480

*Manufacturer's recommendations are based on weight in pounds (OTC labeling); OTC labeling instructs consumer to consult with physician for dosing instructions in infants and children under 2 years of age.

Why Both? Why Scheduled?

• Around the Clock Synergy - Scheduled need for pain medication

reduced overall

-"2-4-24"

- Scheduled Together or Staggered = Similar benefit
 - Patient Preference
 - -Greater than PRN or "chasing pain"

Moore PA, et al. JADA 2013;144(8):898-908

General Dosing Recommendations

- Oral administrations should be preferred when possible
- Dosing instructions should be clear, especially for pediatric patients where the risk of accidental overdose is high
- Measurement tools of milliliters for suspensions or liquids (teaspoon vs tablespoon) should be standardized and administration instructions clear
- If needed, analgesics should be given at regular intervals. The dosage is calculated according to patients' weight, pain level, and adjusted until pain dissipates.

Patient Factors to Consider

- · What is important to assess
 - Age
- Pre-existing medical conditions
- When to avoid/reduce NSAIDS
 - Prime example: Geriatric patients with history of gastric bleeding, renal dysfunction, or cardiovascular disease
 - Caution for less common NSAIDs (insurance coverage/access issues) -Ketoprofen
- When to avoid/reduce APAP
 - Hepatotoxicity
 - Patients with high alcohol use

Mehlisch DR, JADA 2002;133:861-871

	-
Pre-existing Medical Conditions	Possible Adverse Effects
Gastric ulcer	Internal bleeding
Asthma	Asthmatic attack
Diabetes	Reduce effect of diabetic treatment
Gout	Alternation in plasma urate levels
Concurrent ASA use (CV)	
Hypertension	Reduce hypotensive effect of beta-blockers if use prolonged > 3 weeks Decreased renal function in combination with diuretic or angiotensin-converting enzyme inhibitors (e.g. lisinopril, enalapril)
Heart Failure	Fluid retention/edema
Anticoagulation	Increased risk of bleeding following surgery, potential for CV events
Influenza, varicella	Reye syndrome in children

APAP: When to avoid/reduce use

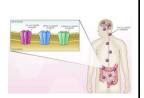
- · Assess for history of liver dysfunction
- APAP is not viable if hepatic disease for hepatic disease avoid use and no NSAIDs either

Check for drug interactions (oral anticoagulants)

Dionne RA, et al. Compendium 2016; 37:372-379

Why Opioids?

- Opioid drugs act in the <u>brain stem</u> and <u>peripheral receptors</u> → targeted actions plus adverse effects:
 - <u>mu</u>: analgesia, respiratory depression, euphoria, GI motility, miosis
 - delta: physical dependence
 - kappa: analgesia, dysphoria, miosis



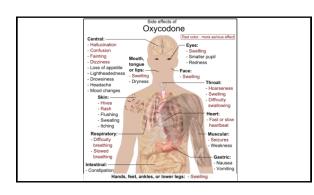
Evidence to Support Opioids?

- Opioid-based analgesics are NOT anti-inflammatory, so not drugs of choice for the major categories of nociceptive orofacial pain
- Reserved for small percentage of dental patients with severe, uncontrolled orofacial and postoperative pain
- Best prescribed as combination product with clear instructions

Goodchild IH, et al. Three Drug Closes Every Dentist Should Know,

Opioid use in Pediatrics

Opioid*	Starting Dose for Children (oral)
Hydrocodone	100-200 mcg/kg Q4H
Oxycodone	Immediate Release (IR): 125-200 mcg/kg Q4H (max 5 mg/dose) Sustained Release (SR): 5 mg Q12H
Morphine	Immediate Release: 1-2yr: 200-400 mcg/kg Q4H 2-12 yr: 200-500 mcg/kg Q4H (max 5 mg)
Hydromorphone	30-80 mcg/kg Q3-4H (max 2 mg/dose)
*Of these opioids, only hydrocodone and oxycodone in combination with acetaminophen would be deemed acceptable for use in pediatric dental pain	



Opioid Pain Medications

Avoid Range Instructions (i.e. 1-2 tablets Q4-6 hours)

- · Opioids: Hydrocodone, oxycodone, codeine
- · Immediate release vs. Sustained/Controlled release
- · Recommend dosing in limited quantities and in combination
- Examples:
 - Hydrocodone-APAP (Norco® or Vicodin®) 5 mg-325 mg, 5 mg-300 mg
 - Oxycodone-APAP (or Percocet®) 5 mg-325 mg, 10 mg-325 mg
 - Codeine-APAP 30 mg-300 mg
 - Off-market/Not recommended: Oxycodone-Aspirin, Propoxyphene-APAP

inner 84 et al. Communication 2016: 27:272-273

What about Tramadol in Adults?

- · Centrally acting analgesic
 - Weak opioid receptor action
 - Norepinephrine and serotonin reuptake inhibition
- Limited therapeutic advantage for managing acute postoperative pain as monotherapy
- Efficacy (studied at doses of 50-100 mg)
 - Similar to Codeine (at doses of 60 mg) monotherapy
 - Less than opioid combination (Codeine + APAP)

Moore PA. JADA 1999;130:1075-1079 Mehlisch DR, JADA 2002;133:861-871

What about Tramadol in Adults?

- · Recommended Use:
 - When patient has intolerances/contraindications to Tylenol #3 (codeine/APAP) and NSAIDs (Side effects: nausea, vomiting, dizziness)
 - Potentially in combination with NSAID (not well studied)
- Still carries abuse potential

Moore PA. JADA 1999;130:1075-1079 Mehlisch DR, JADA 2002;133:861-871

Codeine and Tramadol NOT for use in Pediatrics

Due to case reports involving morbidity and mortality, in April 2017, the FDA issued a new warning that recommends against use of codeine and tramadol in children younger than 12 years.



Jin J. JAMA. 2017;318(15):151

Special Populations – Pregnant/Breast-feeding Patients

- Consider pregnancy risk category by trimester (1st/2nd/3rd)
- Ibuprofen and naproxen risks
 - Embryonic implantation disturbances
 - Parturition inhibition
 - Gastroschisis
 - Maternal pulmonary hypertension
- Glucocorticoids
 - Oral clefts (1st trimester use)
- Safest option \rightarrow Acetaminophen

Donaldson M, et al. JADA 2012;143(8):858-7 Drugs in Pregnancy and Lactation: A Referen Guide to Fetal and Neonatal Risk

Pregnant/Breast-feeding Patients Safe During Pregnancy? Acetaminophen C/D Aspirin Avoid Avoid Codeine Use with caution Yes С Glucocorticoids C Avoid (dexamethasone, prednisone) Hydrocodone С Use with caution Use with caution Ibuprofen Avoid in 3rd trimester Oxycodone Use with caution Use with caution Donaldson M, et al. JADA 2012;143(8):858-71 Drugs in Pregnancy and Lactation: A Reference Guide to Fetal and Neonatal Risk

For more information...

- Journal of American Dental Association April 2018 Issue
 - Moore PA, et al. Benefits and harms associated with analgesic medications used in the management of acute dental pain
 - Gupta N, et al. Opioid prescribing practices from 2010 through 2015 among dentists in the United States
 - Keith DA, et al. The prescription monitoring program data
 - Janakiram C, et al. Sex and race or ethnicity disparities in opioid prescriptions for dental diagnoses among patients receiving Medicaid

Acknowledgments

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- · Ray Dionne, DDS, MS, PhD
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- Wilson M. Compton, M.D., M.P.E, Deputy Director, National Institute on Drug Abuse

Contact: kim.sanders@unc.edu

QUESTIONS?

Chronic Pain Conditions And CDC Guidelines

What about Chronic Pain?

- New CDC guidelines Purpose
 - Make informed decisions about pain treatment
 - Use non-opioid therapies (exercise, cognitive behavioral therapy, antiinflammatories)
- Start low and go slow (lowest effective dose, limited quantity
- Follow-up (regular monitoring, improvement, realistic goals, optimize/taper)
- Who the guideline is not intended for: active cancer treatment, palliative care, or end-of-life care patients
- Primary reason for new CE requirement due diligence

CDC Guideline for Prescribing Opioids for Chronic Pain

- Published on March 18, 2016, CDC reviewed evidence, expert opinion, stakeholders (professional organizations), and public comments
- Intended for primary care providers treating patients with chronic pain (pain ≥ 3 months)
- <u>Not</u> intended for dental practice, emergency physicians, or medication-assisted treatment for an opioid use disorder, But...

CDC Guidelines: Three Main Focus Areas 1. Determining when to initiate or continue opioids for chronic pain 2. Opioid selection, dosage, duration, follow-up and discontinuation 2. Opioid selection, follow-up and discontinuation 3. Selection of immediate-release or extended-release and long-acting opioids 4. Dosage considerations 5. Duration of treatment 6. Follow-up considerations and discontinuation of opioid Cowell D, et al. AMAA. 2016;315(15):1624-1645 https://www.cdc.go/drugoverdose/grescribing/providers. htm.

