The Opioid Crisis: Enhancing Understanding of its Effects on Children and Families

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## • I have no disclosures

- Everything I present is evidence-based
- If I give an opinion, I will note that it is my opinion based on the evidence I have reviewed

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## W HAT WE KNOW (AND DON'T KNOW)

- Everything that we know has been programmed by the pharmaceutical industry... (my opinion)
- Science rarely guides our current treatment of pain. (Fact)
- The Center for Public Integrity:
- https://www.publicintegrity.org/2016/09/18/20200/ politics-pain-drugmakers-tought-state-opioid-limitsamid-crisis

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## A NEW PARADIGM FOR PAIN<sup>11</sup>

- Nociceptive pain
- Neuropathic pain
   "Pain for psychological reasons" (central sensitization)

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# CDC GUIDELINE FOR ACUTE PAIN

IF you prescribe (opioids)...

- Prescribe < 3 day supply
- More than 7 days will rarely be required
- Counsel patients about safe storage and disposal of unused opioids



















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## CDC GUIDELINE FOR CHRONIC PAIN

- If going to prescribe opioids for chronic pain
- Start with immediate-release
- Avoid >= 90 MME/day
- If prescribing >= 50 MME/day, increase follow up frequency.
- Prescribe naloxone
- Assess, Tailor & Taper

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# Talking with patients about

### naloxone

- Encourage patients to fill their naloxone
  Good Samaritan law
- No prescription needed Most pharmacies have over the counter naloxone
  - If uninsured, contact the North Carolina Harm Reduction Coalition
    - http://www.nchrc.org/

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## Efficacy of Opioids for Chronic Pain<sup>43</sup>

#### Annals of Internal Medicine

Martell et al. (2007): Systemic Review: Opioid treatment for chronic back pain: prevalence efficacy and association with addiction

- 4 studies indicated that opioids did not show reduced chronic back pain when compared with placebo or non-opioid control
- Prevalence of life time substance use disorders ranged from 36% to 56%
- Prevalence of current substance use disorders were estimated to be as high as 43%

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#### D ID YOU KNOW

drug abuse starts early?

More than 90% of adults with substance use disorders started using before age  $18^{\rm ^{18}}$ 

Encourage Caregivers

to talk to their children

Children who learn about the dangers of drugs at home are up to 50 percent **less likely** to use drugs<sup>19</sup>



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DPIOID ALTERNATIVES







# W HY DO PEOPLE START ABUSING OPIOIDS? A person may: Begin to misuse meds by increasing the dose on their own Use to cope with emotional stress or pain or trauma Experiment with opioids as a way to get high- take

Experiment with opioids as a way to get high- take other people's medication

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# Pain-Addiction-Mental Health

These three conditions are all closely related and affect the same areas

of the brain. • These conditions often co-occur and should be considered during treatment of the patient with pain.

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# Opioids are powerful (temporary) mental health medications

Opioids have very powerful calming and antidepressant properties.

- That effect decreases with continued exposure to opioids
- Ultimately, opioids may cause an increase in anxiety and depression
  For that reason, you should be very cautious using opioids in those with:
  - Mood disorders (depression or bipolar)
     Anxiety disorders
  - PTSD

A recent study concluded that: "the 16% of Americans who have mental health disorders receive over half of all opioids prescribed in the United States." 48

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## WHY DO THEY CONTINUE?

- Fear of withdrawal
- Withdrawal undoes everything that opioid intoxication does and when the pendulum swings back it can be very painful.
- What does withdrawal feeling like?
- The flu X 10
- Cravings
- Experiences through physical with drawal thre new their being high. This can result in relapse, which means that a using again.

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## TREATMENT OF O PIOID U SE D ISORDER<sup>68</sup>

- Detox and abstinence: Success rate  $\approx 10\%$
- Methadone: Success rate ≈ 60%
- Buprenorphine: Success rate  $\approx 60\%$
- Naltrexone injection: Success rate ≈ 10-50%

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	STATE-OF-THE-ART	REVIEW ARTICLE					
Neonatal Abstine	nce Syndrome						
annung- Pryskolaer Koskostalasto MD Andrathics 2014;134:0547-0561	TABLE 1 Onset, Duration, and Frequency of NAS Caused by Various Substances						
	Drug	Onset, h	Frequency, %	Duration, d			
	Opioids						
	Heroin	24-48	40-8027	8-10			
	Methadone	48-72	13-9437	Up to 30 or mor			
	Buprenorphine	36-60	22-67 <sup>46,48</sup>	Up to 28 or mor			
	Prescription opioid medications	36-72	5-2056,60	1030			
	Nonopioids						
	SSRIs	24-48	20-3064	2-6			
	TCAs	24-48	20-5064	2-6			
	Methamphetamines	24	2-49101	7-10			
	Inhalants	24-48	48 <sup>70</sup>	2-7			
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# METHADONE At what methadone dose (in the mom) are clinically significant withdrawal symptoms uncommon? 20mg/day<sup>63</sup>







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retrospective	Con	onstu	iay (	or metr	ado
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tine .	148	10.0 (47%)	181	£77148N	0.000
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Parante (Black 17 years)	148	40,07%	181	36,07%	-0.001
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Interdictioni, course	248	-0.04(10)	181	-0.00(20)	0.000
< bit promis	- 14	1011294	181	40,02%	0.404
feed ultrumference (uni)	208	884(24)	278	10.003.4	40.005
Ner-Bellett, Louise	110	-30(80	178	-0-49(88)	0.000
Treased Tor TABL	148	100.0076	104	ALC:N	40.005
Data of 140 restricts	108	1014-00	78	80.4.90	+0.001
Langth of state data (2014) 27 works)	100	1408	805	43/324	0.07
Ereat with a charterpr	247	100,0076	100	247,799	0.000

## N ON-PHARMACOLOGICAL TREATMENTS

- Having the mom and baby room in together
  - the most effective
- Swaddling Settling
- Massage
- Relaxation baths
- Pacificers
   Waterbeds<sup>66</sup>
- Do you know about The Happiest Baby on the Block?





## MOTHER Study: Child Outcomes up to 36 months

#### N=96 children

- No pattern of differences in physical or behavioral development to support medication superiority
- No pattern of differences for infants treated for NAS v. infants who did not receive treatment for NAS
- Results indicate children born in the MOTHER study are following a path of normal development in terms of growth, cognitive and psychological development

Courtesy of HE Jones Kalenbach, K The MOTHERstudy, what about the childrer? Presented AMAP 2015 Mikhec @ Within the Amarkan and the Amarkan an

# Breastfeeding

- Both methadone and buprenorphine are compatible with breastfeeding
- Concentration of either medication in breast milk is low
- Most recent guidelines: "the amounts of buprenorphine in human milk are small and unlikely to have negative effects on the developing infant"

Akinsen et al., 1990; Murguet et al., 1997; Johnson, et al. 2001; Grimm et al., 2005; Lindemalm et al., 2009; Jansson et al., 2009; Müller et al., 2011; Reace-Streman, Marinelli and The Academy of Breastfeeding Medicine. Breastfeeding Medicine, 2015.	
Courtesy of HE Jones MANE	c 🕯

















# Pregnancy: A Unique Treatment Opportunity

- Lower prenatal care utilization may be due to a diverse set of
   barriers to seeking and obtaining care, including fear of child custody issues
- After childbirth: ongoing substance use disorders
- the dysfunctional home environment may create detrimental effects on children's psychological growth and development
- Maternal well-being has been recognized as a key determinant of the heath of the next generation

Courtesy of HE Jones

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 Biggest concern with opioid agonist medication during pregnancy:
 the potential for occurrence of neonatal abstinence syndrome (NAS) – a treatable condition

Courtesy of HE Jones

## FAMILY DYNAMIC

- May be a family that has limited emotional resources, financial resources, support
- Mom may have feelings of guilt, shame
- She is dealing with her chronic relapsing disease
- May have post-partum depression

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## MOTHER'S MENTAL STATE<sup>67</sup>

- Maternal guilt and anxiety, insecurity about her ability to parent due to poor parental role modeling, the loss of other children and a lack of self-esteem are common among this population of women.
- If in addition she lacks the ability to recognize these feelings, modulate them, and take the appropriate actions on behalf of herself and her child, maladaptive behaviors such as relapse, aggressive behaviors with relatives or health care providers, and/or neglect of the baby may be the outcome.













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