ADDICTION AND PAIN

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Two common problems

- Increasingly common
 - Increasing overlap
- Relationship between opioid epidemic and management of chronic pain
 - Problems related to focus
- Treatment of pain leading to addiction
- Addiction leading to pain
 - Trauma
 - IVDU complications
- After a certain point, matters less which came first
 - Both can be managed
- Dual Dx

Addiction

- Opioid dependent
- Use, misuse, abuse
- Dependence, tolerance and withdrawal
- DSM-5
 - Opioid Use Disorders
 - Mild, moderate, severe, on agonist therapy
- Oxycontin 80 mg q12 vs 10 "stamps" per day IV heroin
 - Physiologically similar
 - Management similar
 - later

Pain

- "Insert definition here"
- Emotional
- Physical
- On a scale of 1-10
 - 12/10
- Acute
 - Local tissue injury
- Chronic
 - Where does it live once it becomes chronic

Opioids

- Analgesic
- Antidepressant
- Anxiolytic
- Euphoriant
- If the reason for pain (acute of chronic) has been addressed but continued need
 - Question the above
- Before you go down this road
 - Question the above

Opioids for chronic pain?

- Agree or disagree no shortage of patients on these medications
 - 2 pools
 - Shut off faucet
 - What to do w excess water?
- Not comfortable with this regimen
 - How did they arrive there
 - Not easy to clarify in current climate
 - Not easy for patients to seek care
 - "Pain Refugee"
- Easy to say things got of out hand
 - Hard to work backwards from current point
 - CDC, SEMP
 - Taper
 - Maintenance

Risk Assessment

- Chart Review
- History and Clinical Assessment
- Opioid Risk Tool/ SOAPP-R
- Collateral from friends/family members
- Interdisciplinary communication

Risk Stratification

- Not a bad idea to think about risks
- How much time and energy do you spend on this
- Can be perceived by patients as an extra hoop to jump through
- Some move through the system easier than others





Opioid-Risk Tool

Item	Mark each box that applies	Item score if female	Item score if male	
Family history of substance abuse				
Alcohol	[]	1	3	
Illegal drugs	[] 2		3	
Prescription drugs	[]	[] 4		
2. Personal history of substance abuse				
Alcohol	[]	3	3	
Illegal drugs	[]	4	4	
Prescription drugs	[]	5	5	
3. Age (mark box if 16 to 45)	[]	1	1	
4. History of preadolescent sexual abuse	[] 3		0	
5. Psychological disease				
Attention deficit disorder, obsessive compulsive disorder, bipolar, schizophrenia	[]	2	2	
Depression	[]	1	1	
Total		_	_	

Source: South Med J @ 2007 Lippincott Williams and Wilkins

Exhibit 2-14 SOAPP-R Questions

How often do you have mood swings?

How often have you felt a need for higher doses of medication to treat your pain?

How often have you felt impatient with your doctors?

How often have you felt that things are just too overwhelming that you can't handle them?

How often is there tension in the home?

How often have you counted pain pills to see how many are remaining?

How often have you been concerned that people will judge you for taking pain medication?

How often do you feel bored?

How often have you taken more pain medication than you were supposed to?

How often have you worried about being left alone?

How often have you felt a craving for medication?

How often have others expressed concern over your use of medication?

How often have any of your close friends had a problem with alcohol or drugs?

How often have others told you that you have a bad temper?

How often have you felt consumed by the need to get pain medication?

How often have you run out of pain medication early?

How often have others kept you from getting what you deserve?

How often, in your lifetime, have you had legal problems or been arrested?

How often have you attended an Alcoholics Anonymous or Narcotics Anonymous meeting?

How often have you been in an argument that was so out of control that someone got hurt?

How often have you been sexually abused?

How often have others suggested that you have a drug or alcohol problem?

How often have you had to borrow pain medications from your family or friends?

How often have you been treated for an alcohol or drug problem?

Reprinted from Butler et al., 2008. Validation of the revised screener and opioid assessment for patients with pain. Journal of Pain, 9, 360–372. Used with permission from Elsevier.

Risk Stratification

- No measures like a lab value or image
- Clinical interview
- SOAPR-R
- ORT
- Records
- Good when done but can also be used to cherry pick pts or slow movement through system

Risk Stratification

- Good starting/teaching point
- At risk for what?
- [Low/Medium/High]
 - Fit into one of three categories
- Limitations
 - Cross-section
 - More information the better
 - Forensic
 - Moving target

Not done with work

- Once risk assessment is completed
- Some level of ongoing reassessment or safeguards
 - Clinical
 - Regulatory
 - Legal
 - Institutional
- Some can deter/discourage pt or provider from dealing with in the first place



Risk Modification

- Treatments
 - Mood
 - Anxiety
 - SUD
 - Surgery
 - Wellness
- Empirically
 - High index of suspicion
 - Low risks
 - therapy
- Do so in context of continuity allows for both modification and ongoing stratification
 - Similar to routine clinical practice
- Focus on

Low Risk

- Everyone is happy/relieved
 - Patient and provider
 - Move through the system with ease
- Chronic pain without depression/anxiety/SUD
 - Really?

Medium

- Might as well be high risk
 - Current climate
- Hot Potato
 - Not it

High Risk

- Everyone would agree we should be careful
- Not about what to do
- Treatment witheld
 - No opioids at any cost
- Wrong treatment offered
 - Only addiction treatment in form of MAT?
 - All or none?

Chronic opioids

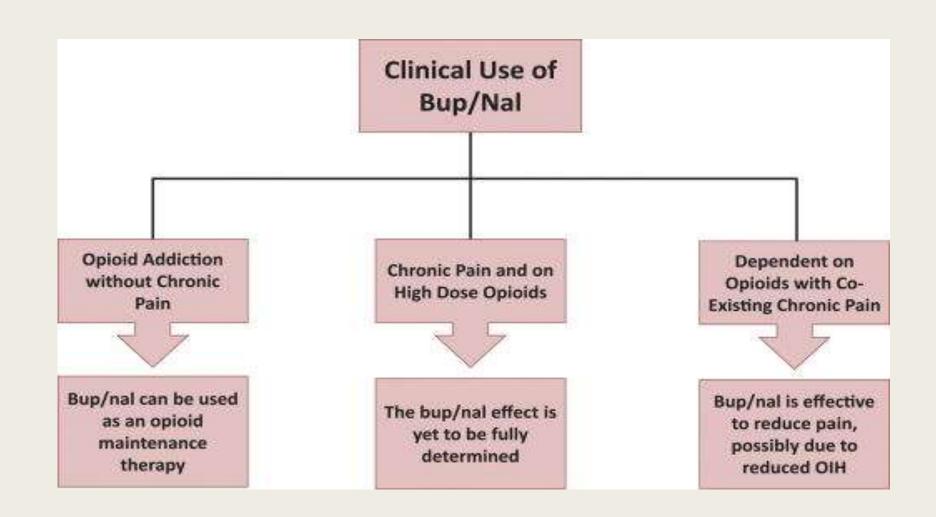
- Long acting vs short acting
- Hyperalgesia
- Abuse deterrent
- Methadone and buprenorphine
 - Evidence bases
 - Irony

Evidence

- Why
 - Safety
 - Not so much when sedatives on board
- Routes
 - IV, sI, IM, TD
 - Buprenorphine (Suboxone®), buprenorphine-naloxone (Subutex®), buprenorphine (Butrans®)
- When
 - Opioid naïve vs dependent
 - "Conversion"
 - Precipitating w/d
 - Acute pain
 - Traumatic or perioperative
 - With or against

Evidence

Fteference	Drug Dose and Study Duration	Type of Study	Treatment Regimen	Clinical Outcome	Comments
Fudala <i>et al.</i> ⁹² 2003	16 mg bup/nal daily for 4 wk	Randomized, double-blind double-blind (n = 328) comparing bup/nal to buprenorphine and placebo	All subjects received hiv received hiv no and had up to 1 h of individualized counseling per week	Bup/nal or buprenor- phine subjects showed discussing for use and craving for opicide during the study; a greater percentage of urine samples were negative for opicids in the bup/nal (17.8%) or group around (20.7%)	Strength: This was a premier study addressing the study addressing the office-based setting. Limitation: The trial ended early due to the overwhelmingly positive response to buprenorphine and bup/nal therapy
Barry et al. ²⁶ 2007	Bup/nat therapy for 12 wk	Randomized, clinical trial (n = 142) comparing three treatment in counseling in counseling intensity (20 vs. 45 min) and medication (once weekly vs. three times weekly vs.	Bup/nai treatment with counseling with physician or nurse	Subjects were satisfied with primary care office-based bup/nai therapy; with an overall score of 4.4 of 5	Strength: The patient satisfaction questionnaire contained 19 questions, allowing for a wide range of response lot of study questions involved patient— healthcare provider interactions with a low external validity
Mintzer et al. ²⁶ 2007	Individualized dose renging from 8 to 24 mg bup/nal daily	Prospective, observational cohort study (n = 99)	Bup/nal treat- ment; subjects also attended siconolics considerate narcottes anarcottes and/or and/or services	In total, 54% of subjects were sober at 6 mo. Opioid-addicted subjects were safely in a primary care setting with limited resources	Strength: The study was conducted in an urban environment with proper randomization of study Limitation: Lack of an untreated control group
Fiellin <i>et al</i> . ²⁹ 2008	Individualized dose ranging from 16 to 24 mg bup/nai daily for at least 2 yr	Prospective observational study (n = 53)		High subject satisfaction (86 of 95); 91 % of the monthly urine specimen collected were negative for opioid. There was a moderate level of and the satisfaction of the care office-based treatment for addiction	Strength: The study followed patients up to 5 yr Limitation: A large number of patients, approximately 50%, had left treatment after 1 yr and they were not included in follow-up
Rapell <i>et al</i> , ** 2007	Mean daily bup/nal dose of 15.5 mg for 6 wk	Randomized clinical trial (n = 50) comparing bup/nal to methadone and placebo	Cognitive, attention, and memory tests were con- ducted	Bup/nal was more effective than methadone in the preservation of cognitive function attudy the 8 wk of the	Strength: Included cognitive testing and two of three cognitive tests used a computer test, reducing the possibility of researcher blas Limitation: Cognitive tests were not fully validated
Kamien <i>et al.</i> ²³ 2008	e or 1e mg bup/nal daily for 17 wk	Randomized, double-blind clinical trial (n = 268) comparing bug/hal to varying dose strength	Subjects received I h of individual behavioral counselling with a theraplat. Subjects were continue illicit drugs	Bup/nal was just as effective as methadone in producing positive outcomes (10% of 8 mg bup/nal, 17% of 16 mg bup/nal, 17% of 80 mg methadone and 17% of 80 mg methadone urine samples for 12 consecutive urine samples but he sample times a week)	Strengths: The first clinical trial to compare the effective- ness between bup/nal and methadone as maintenance therapy; no take home the amount of drug taken; a double-blind and double-dummy design the comparent of the amount of the amount of a particular strength of the second of
Parran <i>et al</i> , ^{ao} 2010	either 12 or 16 mg bup/nal daily for 18 mo	Retrospective chart review and cross sectional telephone interview (n = 178)	Full adherence was required. Those with substance abuse were referred back to the next highest level of care	Bup/nel was found to be a viable office-based opioid treatment option; 77% subjects were more likely to report abstinence, affiliated with 12-step recovery, be employed, functional status at the 18th month follow-up	Strength: The study explored the impact of socioeconomic status of patients on a bup/ nail therapy Limitation: Patients had to follow through with every step of the bup/nail treatment or they would be discharged from the program
Schackman et al.** 2012	8 mg bup/ nal daily for 2 yr	Prospective observational cohort study (n = 53)	Patiente were allowed to continue on their illicit drugs	Bup/nal maintenence therapy had a cost-effective ratio of \$05,100/QALY and has 64%, chance \$100,000/QALY threshold as compared with no treatment	Strength: Data were calculated from a cohort study and the quasire of free veights were calculated from a clinical trial questionnaire a clinical trial questionnaire. Limitation: Did not consider the impact of bup/nal on other health services (e.g., mental health services, decrease in oriminal behaviors, etc.)
Neumann <i>et al</i> , ³⁰ 2013	Individualized dose rang- to 16 mg bup/nel daily (mean: 14.9 mg) for 6 mo	Randomized open-label olini- center (1997) comparing bup/ nal to methadone	Subjects stopped self- stopped self- opioid medications and illicit drugs and drinking slochol. Nonopioid allowed: swere patients were encouraged to sttend self-help programs	26 (48.1%) subjects noted a 12.8% noted a 12.8% noted a 12.8% noted but followed a 12.8% noted a 12.	oriminal behaviors, etc.) Strength: Approximately 50% of participants completed the study Limitation: An open-label design



X + Y = Analgesia

- \blacksquare X = amount of opioids per day to avoid withdrawal
 - Confirmed OAT/MAT dose
 - Confirmed chronic regimen
 - WVBOP CSMP
 - Starts to get difficult when things move underground
 - 10 "stamp" bag heroin = ? morphine equivalents
 - \blacksquare X = 0 by way of dishonesty
 - "I don't use or take anything"
 - \blacksquare X = minimized
 - "I don't use or take that much"
 - Common in pregnant patients
 - Opioid withdrawal hurts!

X + Y = Analgesia

- Y = an attempt to quantify acute pain
 - Consult the expert
 - How much pain did the procedure cause
 - What does it normally cause?
 - Complications?
 - How would it be managed in opioid naïve patient?
 - What medication, route and for how long?

X + Y = Analgesia

- Still consulted on regularly and see situations where we have yet to define X
 - Patient still is in opioid withdrawal
 - Not comfortable with amounts
 - Inaccurate information
- Titrate carefully until withdrawal is gone

- Do not underestimate the power of addiction
 - Will not stop using just because sick or in hospital
 - Using before OR
- Treating versus Policing
 - Balancing risks and benefits and resources
- Set up protocols
 - Universal precautions

- Treatment works
- MAT is evidence based approach
 - MTD, bup, bup/nlx
- Connecting with treatment remains difficult due to access issues
- Recent steps to improve
 - Access
 - Quality

- Drug screens
- Searching rooms and belongings
- Being aware of visitors
- Safety precautions
 - "suicide watch" versus video monitoring
- Nursing education
 - Pills in cup
- PCA

- If on OAT/MAT or chronic pain regimen, confirm dose
 - Provider, pill bottle, pharmacy, CSMP
 - Don't rush to start methadone
- Urine Drug Screen
 - Know what to look for
 - Know to confirm

OAT/MAT with bup or bup/nalx

- Double edge sword
- Blocker good when used as addition medication
- Can be bad when attempting to manage pain
- With it or against it

OAT/MAT with bup or bup/nalx

- With it
- Confirm dose
 - Defer to how pt takes it at home unless red flags
 - Divide if possible as $t_{1/2}$ different for analgesia
- "Top off"
 - Add additional 1-2 mg doses to maintenance for break through or acute pain
 - Similar to other acute regimens
- Ceiling effect
 - Diminishing returns as you approach 32 mg
- Don't combine other agonist opioids

OAT/MAT with bup or bup/nalx

- Against it
 - Override
- Stop medication
- Initially fighting medication as it leaves system
- Eventually replacing X once it clears
- Either way you look at it, alarming dosages
- bup or bup/nalx is potent
- We typically will utilize fentanyl PCA with success
- Transition back at some point

Take homes

 $\mathbf{X} + \mathbf{Y} = \text{analgesia}$

Take home

- Pain is challenging to treat alone
- Add depression, anxiety or addiction to the mix and challenge increases
 - These can be treated if identified
 - Don't miss opportunities to treat or refer
- Do not underestimate addiction
 - Doesn't go away if sick or pregnant

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Objectives

- Understand what can complicate pain management in this population
- Identify patients with opioid use disorders
- Discuss common presentations
- Learn techniques for safe and effective pain management for opioid dependent patients
- Demonstrate effectiveness of MAT

Questions?

Thanks!