Care of the Patient with Co-Morbid Pain and Anxiety

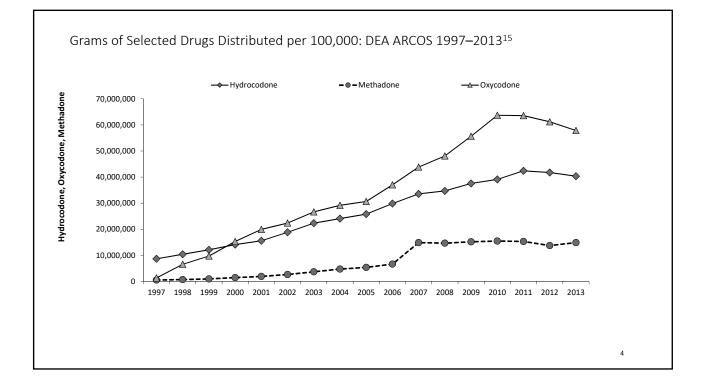
Stephen A. Wyatt, DO Medical Director, Addiction Medicine Behavioral Health Service Carolinas HealthCare System

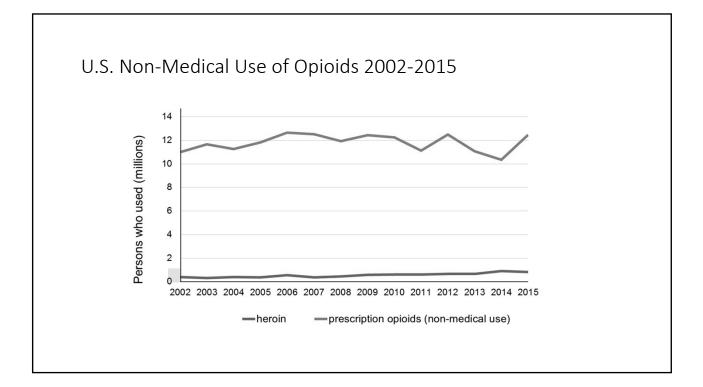
No Financial Disclosures

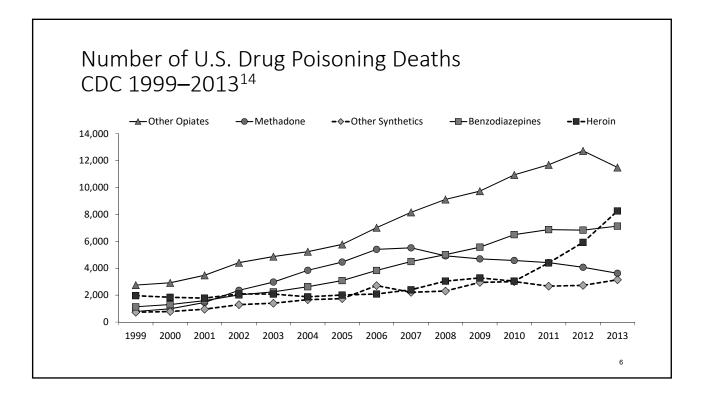
Current Co-Dir. - Provider Clinical Support System for Medication Assisted Treatment (1u79T1024697) SAMHSA

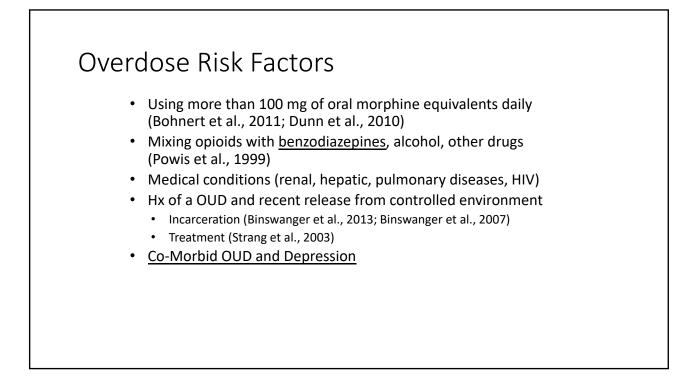
Outline

- Review the epidemiologic in context of psychiatry's role in the opioid problems.
- Chronic pain as a disease of the brain.
- The development of mood and anxiety secondary to chronic pain
- The problems of combining opioids and benzodiazepines.
- The association of depression, chronic pain and suicidality.
- Treatment of mood and anxiety in the chronic pain patient or opioid dependent patient.









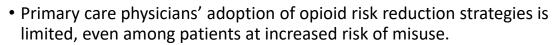
• Primary care physicians' adoption of opioid risk reduction strategies is limited, even among patients at increased risk of misuse.

Starrels JL, et.al., J Gen In Med 9, 958-964, 2011

CDC Guidelines (March 2016)

- 1. Nonpharm and nonopioid tx
- 2. Establish treatment goals
- 3. Discuss opioid risks
- 4. Start with mediate release opioids
- 5. Use the lowest effective doses
- 6. No greater quantity than needed
- 7. Evaluate benefits early/often

- 8. Evaluate risks often
- 9. Use the PMP
- 10. Use UDSs
- 11. Avoid co-Rx opioids and benzodiazepines
- 12. Offer MAT to patients thought to be dependent

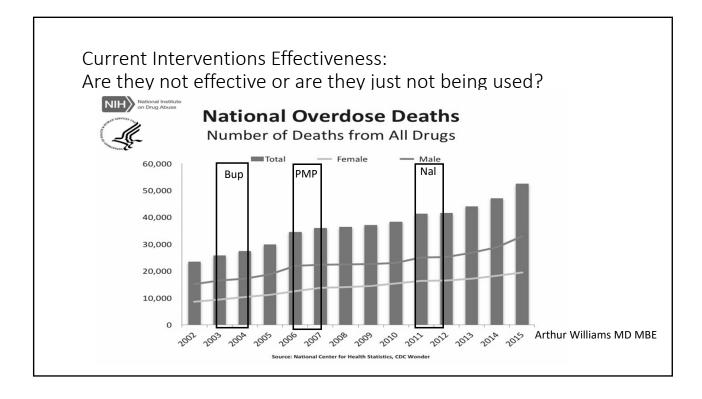


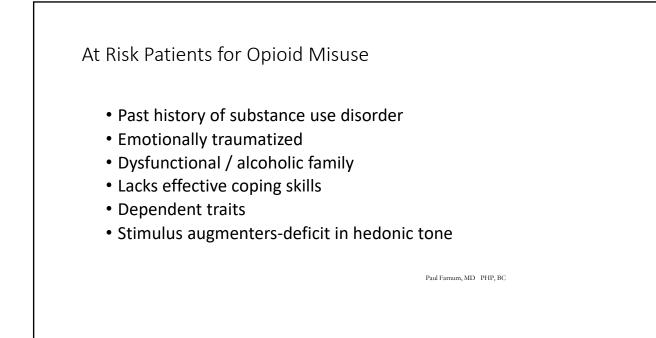
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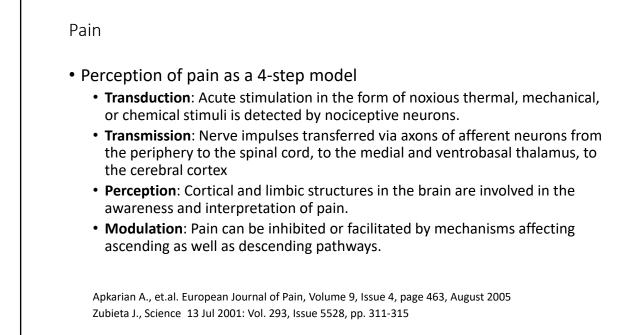


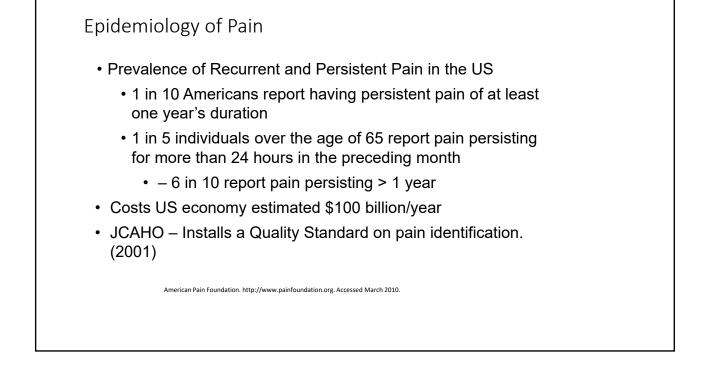


Pain

- In the past pain was typically viewed as an immediate and short-lived response to an injury or illness.
 - A warning sign to an emergent problem.
- It was generally accepted the pain would resolve as the injury or illness improved. There was also, potentially, an acceptance that the body would merely get used to the pain, or what we now think of as modulation.
- There was as much if at all a discussion of chronic pain as we talk about it today.
- Healthcare and society today is profoundly impacted with chronic pain conditions.
 - Prior to the 1990s SSDI enrollees had clearly delineated clinical disorders such as heart disease or cancer. Between 1996 and 2009, enrollment for workers in SSDI has expanded by 3.4 million people, or a growth of 77%.
 - 1.1 million can be attributed to a greater number of disabled with mental illness,
 - 1.2 million a 137% increase because of increases in musculoskeletal diseases.

Social Security Administration's Annual Statistical Report on the Social Security Disability Program, 2009 (published 2010).







• Chronic pain is often defined as pain that has lasted for more than three months. Officially it is pain that lasts beyond the "injury related healing process."

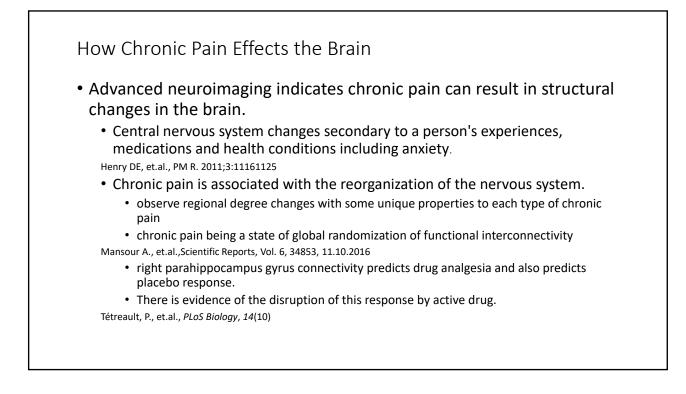
Merskey H, Bogduk N, editors. Classification of Chronic Pain. IASP Press; WA, USA: 1994.

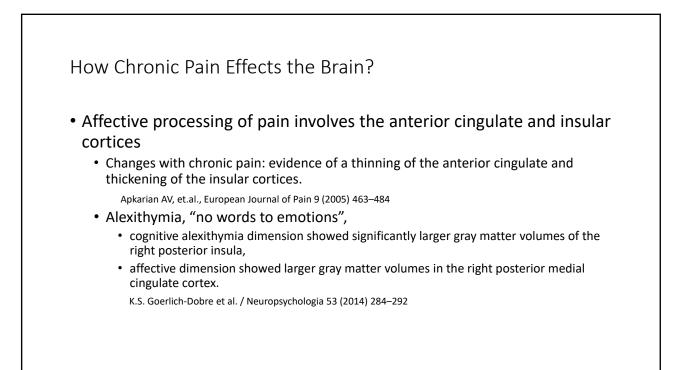
• Multiple causes, most common are back pain and headache.

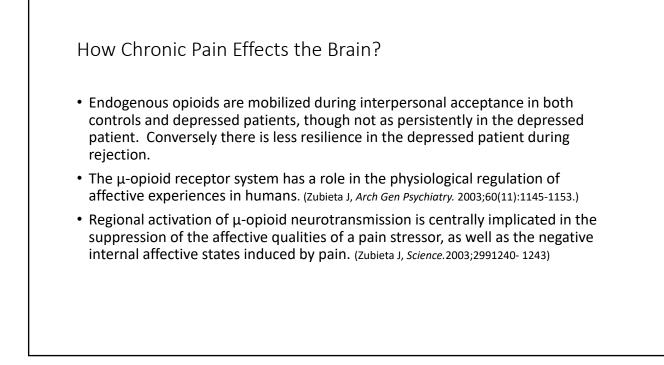
Institute of Medicine (US) Committee on Advancing Pain Research, Care, and Education. 2011

How Chronic Pain Effects the Brain?

- A supraspinal problem?
- The main components of the brain network of <u>acute</u> pain:
 - primary and secondary somatosensory,
 - thalamus
 - insular,
 - anterior cingulate,
 - prefrontal cortices

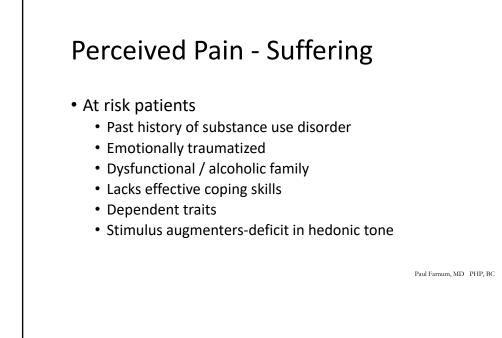


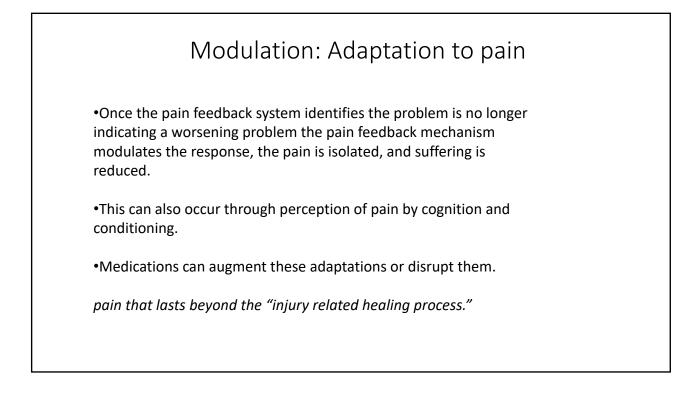


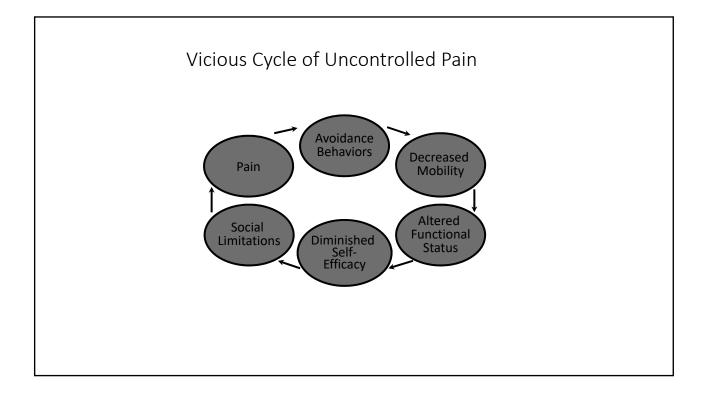


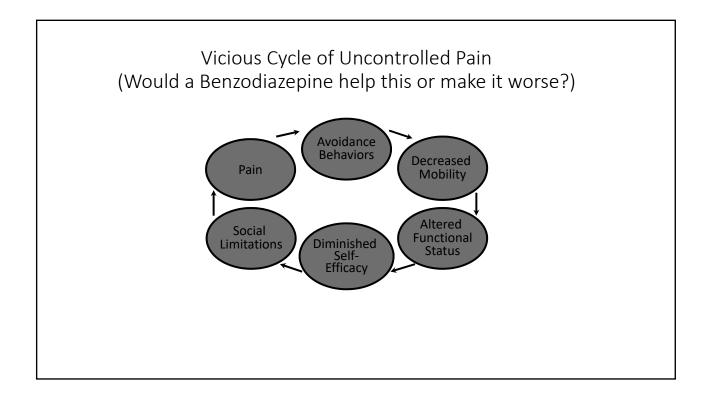
Considerations in Chronic Opioids

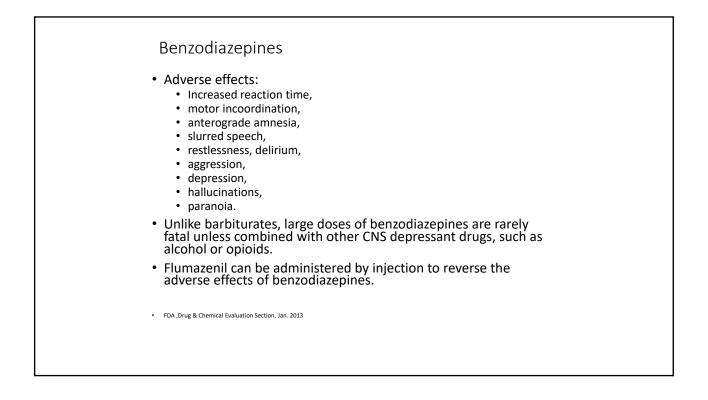
- Chronic Opioid Use may result in hedonic homeostatic dysregulation.
 - Down regulation of natural drives, e.g. eating, copulation, affiliation, may be reorgainized around drug seeking behavior.
 - Heightened responsiveness to drug reward and decreased responsiveness to natural reward seen in opioid dependent individuals.
 - This may drive prescription opioid misuse and addiction.
 - Therapies are aimed at restructuring this reward.

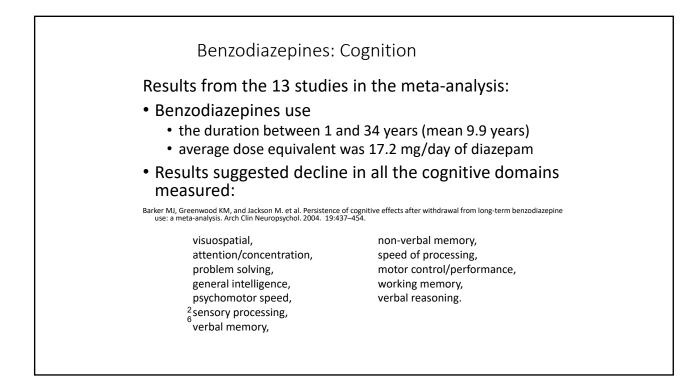


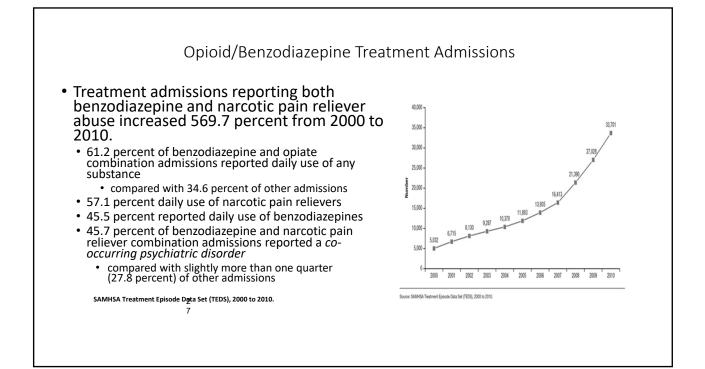


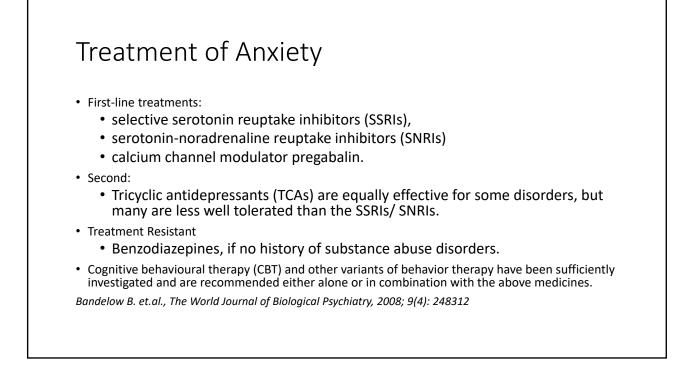












Are they all unintentional overdoses? Dramatic increase in fatal poisonings involving opioid analgesics. opioid related fatal poisonings tripled from 4,000 to 13,800 deaths from 1999 through 2006 40% of all deaths by poisoning in 2006 involved opioids. Warner M, et.al., DMNCHS Data Brief, 2009 Sep; (22):1-8. Results from the 2010 (SAMHSA) Drug Abuse Warning Network report opioid analgesics have become the common class of drugs associated with "unintentional", fatal poisoning, greater than heroin and cocaine. SAMHSA, DAWN, 2007: Estimates of Drug-Related Emergency Department Visits. How many are intentional death by suicide is undetermined due to misclassification or lack of classification of intent? Between 2005 and 2007, emergency department visits for drug-related suicide attempts. SAMHSA, DAWN, 2007: Estimates of Drug-Related Emergency Departments. SAMHSA, DAWN, 2007: Estimates of Drug-Related Emergency Departments.

Suicide and Chronic Pain

- Assessment of suicidal behavior in adults with noncancer chronic pain (n=153)
 - 19% reported current passive suicidal ideation,
 - 13% had active thoughts,
 - 5% currently had a plan for suicide
 - 5% reported a previous suicide attempt.
 - 75% reported drug overdose as their plan

Smith MT, et.al., Pain. 2004 Sep; 111(1-2):201-8.

- A review of similar literature identified that the risk of successful suicide doubles with chronic pain. Tang NK, et.al., Psychol Med. 2006 May; 36(5):575-86
- Depression, Sleep and Catastrophizing are important mediators.

Tang NK, et.al., J Sleep Res. 2007 Mar; 16(1):85-95; Turner JA, et.al., Pain. 2002 Jul; 98(1-2):127-34; Edwards RR, et.al., Pain. 2006 Dec 15; 126(1-3):272-9.

Trauma and Stress in Chronic Pain and/or Concurrent Opioid Use

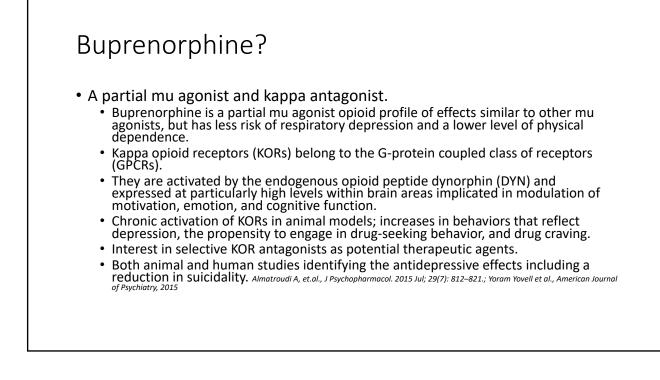
- Trauma and stress are risk factors for many forms of psychopathology, including depression, anxiety disorders, and substance abuse Brady et al., in Nunes et al., Best Practices for Diagnosis and Clinical Treatment. Kingston, NJ: Civic Research Institute 2010
 - Some studies indicate particularly high comorbidity of PTSD and OUD (relative to alcohol and other drugs).
 - reported 33% of those with OUD had PTSD Meier A, et.al., Am J Drug Alcohol Abuse. 2014 Jul;40(4):304-11, 2014; Mills KL,et.al., . American Journal of Psychiatry, 163:652-8, 2006
 - Among veterans, psychiatric diagnoses, particularly PTSD, were associated with increased risk of receiving opioids for pain, high risk opioid use and adverse clinical outcomes *seal KH*, *et.al.*, . *JAMA*, 307: 940-7, 2012

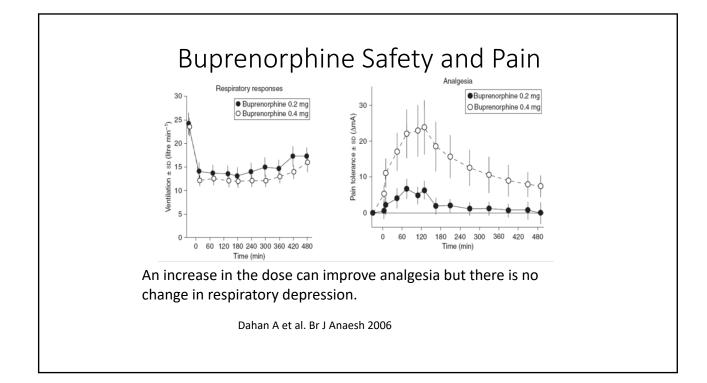
Treatments for anxiety and PTSD with chronic pain

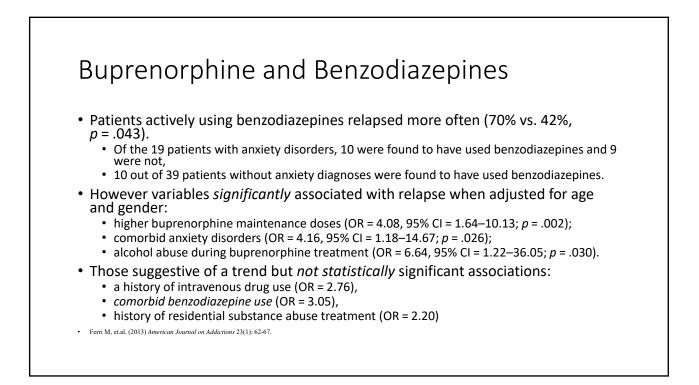
- Psychotherapy:
 - Evidence-based psychotherapies:
 - Cognitive Behavioral Therapy (CBT),
 - including exposure-based CBT. CBT involves a combination of psychoeducation, relaxation and anxiety management techniques, cognitive techniques, in PTSD imagined and in vivo exposure to trauma-related stimuli, and relapse prevention *Gabbard G, Journal International Review of Psychiatry*, 19, 1:5-12, 2007
 - Seeking Safety (SS) is a well studied non-exposure based treatments for co-occurring PTSD and SUD. Hien et al., Journal of Consulting and Clinical Psychology, 77:607-19; 2009; Najavits and Hien, Journal of Clinical Psychology, 69: 433-479, 2013
 - a standard cognitive behavior treatment with both safety/trauma and substance use components integrated into each session. *Najavits et al., Journal of Traumatic Stress*, 11:437-56, 1998

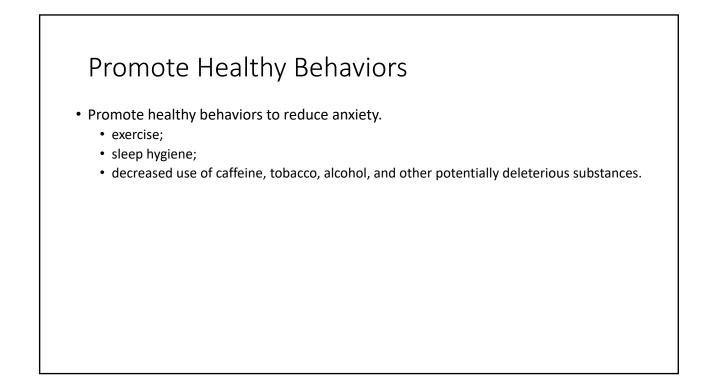
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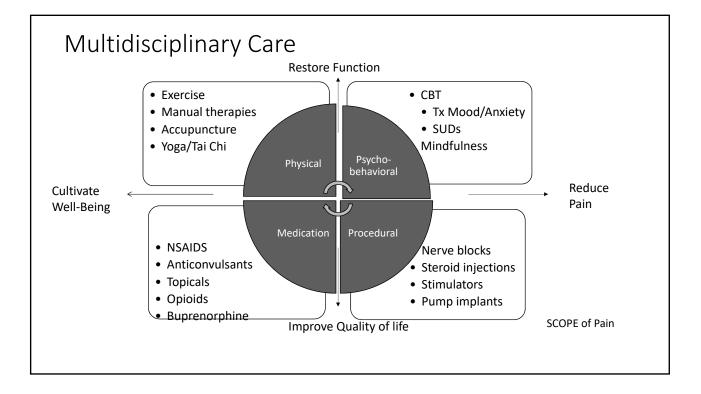
- Pharmacotherapy:
 - Meta-analyses generally support the superiority of SSRIs and serotoninnorepinephrine reuptake inhibitors (SNRIs) over placebo. Tricyclic antidepressants and monoamine oxidase inhibitors can improve in intrusive and depressive symptoms, but SSRIs are considered first-line in part due to safety profiles.
 - Mirtazapine and nefazodone have also be shown to be superior to placebo.
 - Prazosin has been found to be effective for PTSD-related nightmares and sleep disturbance.
 - APA guidelines recommended SSRIs as first-line. (2004)











Summary

- Most people will have a period of chronic pain in their lifetime.
- Chronic pain just as other states, e.g. environmental, behavioral, chronic medication, can change the brain. Opioids can interrupt the natural modulation to chronic pain.
- Chronic pain can result in mood and anxiety problems.
- Benzodiazepines can cause added problems to the treatment of chronic pain.
- Strongly consider multimodal therapies in the treatment of pain.