

Falling Down the Rabbit Hole: A Primer for Chronic Pain Management & Comorbid Substance Use Disorders



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Biography

David Cosio, PhD, is the psychologist in the Pain Clinic and the CARF-accredited, interdisciplinary pain program at the Jesse Brown VA Medical Center, in Chicago. He received his PhD from Ohio University with a specialization in Health Psychology in 2008. He completed a behavioral medicine internship at the University of Massachusetts-Amherst Mental Health Services and a Primary Caral/Specialty Clinic Post-doctral Fellowship at the Edward Hines Jr. VA Hospital in 2009. Dr. Cosio has done several presentations in health psychology at the regional and national level. He also has published several articles on health psychology, specifically in the area of patient pain education. He achieved specialist certification in Clinical Health Psychology by the American Board of Professional Psychology in 2017.

There is no conflict of interest and nothing to disclose.

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DISCLAIMER:

Dr. Cosio is speaking today based on his experience as a psychologist employed by the Veterans Administration. He is not speaking as a representative of or an agent of the VA, and the views expressed are his own.



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Objectives

- Discuss the circuitous journey the field of pain management has undergone.
- Identify high level of comorbidity between opioid use disorders and chronic pain.
- Explain how to apply the new strategies underlined by the CDC guidelines for pain management.
- Select candidates for opioid trials, assess for risk, and initiate opioid therapy, but only after exploring nonopioid and nonpharmacological strategies

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The Circuitous Journey



- US attitudes have shifted repeatedly in response to clinical and epidemiological observations and events in the legal and regulatory communities
- the interface between legitimate medical use of opioids vs its abuse and addiction continues to challenge the clinical community

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The Circuitous Journey

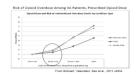
- Deemed a human right
- · Believe entitled to opioids
- Providers feel pressured
- Reinforces patient's beliefs and reliance on medication



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The Circuitous Journey

- Widespread dissemination of opiates
- Lax safety measures placed on storage
- Dramatic rise in opioid misuse and deaths from
- Identified by CDC as "public health epidemic"
- CDC released guidelines in march 18, 2016



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Rate of Overdose Deaths

- Prescriptions have increased by more than 300% since 1999
- In 2013, more than 16,000 people died in the US from opioid-related overdose death
- Since 2009, leading cause of accidental death is drug overdose versus motor vehicle accidents
- High profile deaths of Heath Ledger, Brittany Murphy, Prince



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Rate of Prescribing PainWeek.

- For initiation, selection, and assessment of opioid therapy risk
- Limited evidence supporting benefits of long-term opioid use outweigh the risks or improves functionality and QOL



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New CDC Guidelines

- Indicate that nonopioid and nonpharmacological (i.e., behavioral) strategies should be first option for treatment
- Require providers to assess for risk of overdose or development of a SUD
- To be keenly aware of their patients' pain levels
- To be aware of their pain management strategies used when opioid medications are prescribed

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New CDC Guidelines

- Use immediate-release opioids when starting
- Start low and go slow
- When opioids are needed for acute pain, prescribe no more than needed
- Do not prescribe ER/LA opioids for acute pain
 Follow-up and re-evaluate risk of harm; reduce dose or taper and discontinue
- Evaluate risk factors for opioid-related harms

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New CDC Guidelines

- Check state prescription monitoring for high dosages and prescriptions from other providers
- Use urine drug testing to identify prescribed substances and undisclosed use
- Avoid concurrent benzodiazepine and opioid prescribing
- Arrange treatment for opioid use disorder if needed

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Balancing Act

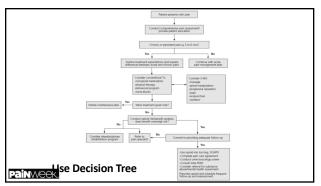
 The topic of opioid misuse and abuse (and the rising heroin epidemic) has dominated headlines lately



- What does this really mean for chronic pain specialists?
- How does one balance the needs of the legitimate pain patient, with those of society as a whole?

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Decision Tree Steps 1 & 2	
STEP 1: Identify new or established patient with pain	
STEP 2: Conduct comprehensive pain assessment:	
 A psychological evaluation An assessment of risk for addiction 	
 An appraisal of pain level and function A diagnosis with appropriate differential 	
- A diagnosis with appropriate differential	
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How Is A SUD Defined?	
 APA (DSM-5) revised chapter of "Substance-Related and Addictive Disorders" includes substantive changes to the disorders 	
■ Patient is diagnosed with a SUD if he/she exhibits a maladaptive pattern of	
substance use leading to clinically significant impairment or distress	-
 As manifested by 2 (or more) of the following, occurring within a 12-month period 	
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	7
How Is A SUD Defined?	
Impaired Control Social Impairment	
Using more than intended	
Persistent desire to use or unsuccessful attempts to Giving up important life activities due to use	
quit - Continuing to use despite knowledge of the negative or getting - Gracian Graci	
or getting effects • Craving or strong desire to use	
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How Is A SUD I	Defined?
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- Risky use
- Using in physically hazardous situations
 Continuing to use despite knowledge of the negative effects
- Pharmacological

 - Tolerance, needing to use more to get the same effect
 Withdrawal symptoms from detoxing (nausea, insomnia, anxiety, sweating, trembling)

SEVERITY	RANGE
MILD	2-3/11
MODERATE	4-5/11
SEVERE	6+/11

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Comorbidity of SUD

- There is a wide range in prevalence rates reflected in studies
- Makes it difficult to know what the true incidence of SUD is among chronic pain patients
- In 2005, study indicated that (before the current opioid-epidemic) approximately one-third (32%) of chronic pain patients may have comorbid substance use disorders (SUD's)

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Comorbidity of SUD

- In 2008, among 5,814 patients with chronic pain who were also prescribed chronic opioid therapy, 19.5% had a current SUD diagnosis documented in their medical record
 - Alcohol (73%)
 - Cannabis (16%)
 - Prescription and/or illicit opioids (15%)
 - Stimulants (cocaine 11% and amphetamines 8%)
- In 2011, a review found anywhere from 4% [primary care setting] to 48% [AIDS clinic] of patients with chronic pain have a current SUD

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- Patients with SUD's have been found to be at greater risk for aberrant medication-related behaviors
- e.g. if prescribed an opioid, there is an increased risk for prescription opioid misuse and abuse
- Patients with comorbid SUD (past and present) are potentially more difficult to treat and are at higher risk for comorbidities (depression, anxiety, sleep disturbances)

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Opioid Misuse vs Addiction



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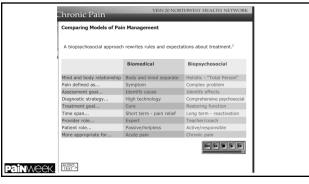
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Decision Tree Step 3

STEP 3:

- Determine whether pain is acute or chronic and educate the patient about difference
- Acute pain has sudden onset, lasts no more than 3-6 months, and resolves when the underlying cause is treated
- Chronic pain persists beyond the "normal" time of healing even if from trauma, injury, or infection—and affected by both physical symptoms and emotional problems

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Decision Tree Step 4

STEP 4:

- Outline treatment expectations and review options
- Consider an array of evidence-based therapies
 No evidence that one treatment is better then another!
 Decide based on intensity and how invasive.
 Use pain treatment ladder
- Review empirically validated CAM therapies
- Expand conversation from solely pain reduction to effective functioning with continued pain

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Current State of Research

- Of all the treatment modalities, the best evidence for pain reduction averages around 30% in about half of treated patients (Turk, Wilson, & Cahana, 2011)
- Clinical trials indicate the comparable efficacy of numerous diverse treatment interventions (e.g. acupuncture, behavioral therapy, exercise therapy, NSAIDs) for chronic pain (Keller et al., 2007)
- Overall, the current evidence provides little support for choosing one approach over another.

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Medication Management

- Meta-analysis concluded that opioids result in small improvements in pain severity and function compared with placebo (Furlan et al., 2006)
 Efficacy of NSAIDs established for some patients (i.e., arthritis and back), but not investigated in others (i.e. neuropathic pain and fibromyalgia) (Roelofs et al., 2008; Singh & Triadafilopoulos, 1999)
- Meta-analyses suggest antidepressants result in moderate symptom reduction and superior to placebo (Kroenke, Krebs, & Bair, 2009)
 Best evidence supports efficacy of anticonvulsant drugs for treatment of chronic pain (e.g. gabapentin, pregabalin, cardamazepine) (Attal et al., 2010; Dworkin et al., 2010; Finnerup, Sindrup, & Jensen, 2010)
- Muscle relaxants typically recommended as adjuvant therapy and seem to have restricted role in chronic pain (Arnold, Keck, & Welge, 2000; See & Ginzburg, 2008)

 Topical agents shown to effectively reduce chronic pain in comparison to placebo (Mason et al., 2004)

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Pain Interventions

- Epidural steroid and facet injections are the most commonly used in the U.S. (Manchikanti, 2004) $\,$
- Evidence for epidural steroid injection use as long-term monotherapy is not clear (Armon et al., 2007; Friedly et al., 2008)

 Facet injections have some evidence for use with facet joint pain, but not clearly effective

- Facet injections have some evidence for use with facet joint pain, but not clearly effective for others (Chou et al., 2009a; Luijsterburg et al., 2007)
 In terms of surgery, evidence has rated lumber fusion as "fair," and both discectomy and laminectomy as "good" (Chou et al., 2009b), with proviso that significant pain can persist even after spinal surgery (DeBerard et al., 2001; Hornberger et al., 2008)
 Several meta-analyses have evaluated efficacy of SCS and concluded that there was moderate evidence for improvement in pain (Chou et al., 2009s; Frey et al., 2009; Taylor, Van Buyten, & Buchser, 2005; Turner et al., 2004)
 Systematic review evaluated efficacy of epidural and intrathecal drug delivery systems, and determined moderate reductions but the long-term effectiveness remains unclear (Turner, Sears, & Loeser, 2007)

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Physical Medicine & Rehab

- Evidence suggests that exercise can effectively decrease pain and improve function, but no conclusions can be made about
- exercise type (van Tulder et al., 2007)
 Physical medicine approaches are commonly included as components of interdisciplinary pain rehabilitation programs--the embodiment of the bio-psycho-social model
- The reduction of pain after treatment at an interdisciplinary pain rehabilitation program has been reported to be significant (Guzman et al., 2001; Hoff man et al., 2007; Morley, Eccleston, & Williams, 1999)



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Psychological Treatments

- Psychological treatment as a whole results in modest improvements in pain and physical and emblional functioning
- There is insufficient evidence to recommend one therapeutic approach over another (Dixon et al., 2007; Henschke et al., 2010; Hoff man et al., 2007; Jensen & Patterson, 2006; Montgomery, Dul+lamel, & Fedd., 2000)

 - behavioral therapy
 cognitive-behavioral therapy
 - psychodynamic therapy
 stress management
 emotional disclosure

 - biofeedback
- Interestingly, modest reductions in pain severity witnessed were similar to those noted with pharmacological, interventional, physical, and rehabilitative approaches (Verhaak et al., 1998)

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Complementary & Integrative Health

CIH is group of medical and health care systems, practices, and products

- Categorized into four general categories:

 Mind-body medicine (e.g., biofeedback, hypnosis, yoga)

 Natural-biological based (e.g., aromatherapy and herbs)

 Manipulation-body based (e.g., chiropractor, massage, spinal manipulation)

 Energy medicine (e.g., acupuncture and healing touch)

Chronic pain (general)

- Some evidence for yoga, tai chi, music therapy, mindfulness-based interventions, and hypnosis

Low back pain

Some evidence for acupuncture, massage, progressive relaxation, spinal manipulation, yoga, herbal products (devil's claw and white willow bark), and topicals (cayenne, comfrey, Brazilian arriica, and lavender)

National Center for Complementary & Integrative Health, 2018

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Complementary & Integrative Health

- Some evidence for acupuncture, massage, tai chi/qi gong,
Rheumatoid arthritis
- Some evidence for dietary supplements (e.g. containing omega-3 fatty acids) Headaches

- Some evidence for acupuncture, biofeedback, massage, relaxation techniques, spinal manipulation, and tai chi, and herbs (buttefrus, feverfew, magnesium, and riboflavin)

Nock pain
- Limited support for acupuncture, massage, and spinal manipulation

Limited support for acupuncture, tai chi, yoga, mindfulness, biofeedback, and vitamin D supplements

Irritable bowel syndrome

- Promising for hypnotherapy, probiotics, and peppermint oil

Trimming for imprometary, prosonote, and pepperman or Other conditions
 Facial pain, nerve pain, chronic pelvic pain, elbow pain, endometriosis, carpal tunnel syndrome, gout, and cancer pain
 Promising evidence for some approaches

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Se	lecting	a Trea	ıtme	ents

- Previous experiences and expectations for outcome
- Consider cultural and spiritual influences
- Patient preferences and coping styles
 Type and intensity of pain

- Physical and cognitive abilities
 Concurrent symptoms
 Involvement of friends and family



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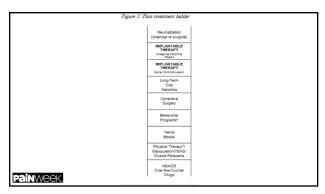
The Goldilocks Effect

- Providers in the field tend to be eclectic and flexible treatment methods and try until find something that suits patient
- Research has shown that the overall treatment effectiveness for chronic pain remains inconsistent and fairly poor



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The	Manumea	Effect
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- Research results presented are disheartening
- The best evidence for pain reduction averages around 30%
- Clinical trials have indicated comparable efficacy of numerous diverse treatments
- The Manumea is a cousin to the Dodo bird reference to the "Dodo bird effect"



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Patient-Provider Shared Responsibility

- Patients with rewarding relationships have:
 - Better outcomes
 - -Less likely to seek assistance from other sources
 - Reduces the risk of conflicting treatment plans
 - Reduces risk of further confusion

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When Should I Consider Opioids?

STEP 5:

- Only after other treatment options have been exhausted should an opioid trial be considered
- Careful risk-benefit analysis is required
- Routine assessment of Analgesia Activity Adverse effects Aberrant behavior, and Affect will help to direct therapy
- If risks outweigh benefits, a referral to pain specialist or interdisciplinary rehab
- program indicated

 If benefits outweigh risks and clinician's practice able to provide adequate patient support and f/u, an opiate trial may be appropriate

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Decision	Tree Step	6
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STEP 6:

- Sign opioid agreement
- Random urine tox screens
- · Prescription state monitoring
- · Opioid risk tools (SOAPP)
- Schedule frequent f/u appts







- Patient presents with increasing pain complaints and requests for dose increases while decreasing activity. There is no indication the opioid is
 - Make sure no new evidence of pathology
 - Review pain agreement—role of opioid hyperalgesia
 - Check urine drug screen
 - Set up more frequent visits
 - Refer to PT for an assessment
 - Offer nonpharmacological options
- Refer to Pain Education School

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Case Study #2

- You ordered a urine screen during your patient's last visit and it comes back:
 negative for a substance you are prescribing

 - positive for a substance you did not prescribe
 Review pain agreement

 - Send out for a confirmatory test—rapid metabolizer?
 Determine if diversion, sharing, or unsanctioned dose escalation—use pill counts, increase visits, etc.

 - Use state prescription monitoring programs
 Opiates may have to be tapered or d/c if repeat offender

 - Refer to Addiction Services
 Offer nonopiate and nonpharmacological options

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Case Study #3

- Patient comes to your visit appearing intoxicated or somnolent/overmedicated. They also continue to report taking their opiates as prescribed.
 - Ask to speak to a family member
 - $-\operatorname{Determine}$ if drug interaction, overdose, or underlying medical problem over-the-counter?
 - Use urine screen-if presence of alcohol, medications not prescribed to them, or illicits—d/c opiate related adverse events
 - Refer to Addiction Services and offer detox?
 - Refer to ED or Urgent Care

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