

Minimizing Pills and Maximizing Skills: Achieving Successful Opioid Cessation in Chronic Pain

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Disclosures

Nothing to disclose



Learning Objectives

- Review current evidence based approaches to opioid tapering in chronic noncancer pain
- Discuss the benefits of opioid tapering in terms of improvements in pain, function, and mood
- Identify the difference between the terms addiction, abuse, dependence, and tolerance
- Explain of the role of behavioral interventions in the management of pain and the data supporting their use





Is all pain the same?

Acute Pain

•Hurt = Harm -Avoidance decreases damage

Etiology:

- -Clear pathway
- -Often single cause

Treatment Course

- -Fixed end point
- -Immobilization often essential for recovery -Medications

Painweek.

Chronic Pain

■Hurt ≠ Harm –Fear-avoidance cycle

Etiology:

-Many unknowns -Multifactorial

Treatment Course

- -No fixed end point
- -Immobilization can worsen condition
- -Medications: Caution

Management Approach to Pain • Similar to other chronic health conditions lacking a cure • Focus on quality of life & functioning

Example: Diabetes

- Regulate diet
- Check blood sugars
- Exercise regularly
- Take insulin/medications
- Monitor wounds



Chronic Pain Management Medical optimization Physician, NP, PA Physical reconditioning Rehabilitation provider (PT, OT) Behavioral/lifestyle modification Pain psychologist

<u>Diabetes</u>	Chronic Pain
Regulate diet	 Medical optimization
Check blood sugars	Physical reconditioning
Exercise regularly	Behavioral/lifestyle modification
Take insulin/medications	







Learn to Live with Pain? LIFE Family Friends Work School Sports Leisure Self-care Music Vacations Hobbies Dining Entertainment Socializing Cooking Cleaning Errands









Medications • Physical dependence • Psychological dependence • Tolerance • Abuse • Addiction

Prescription Opioids

- Approximately 3 million Americans meet criteria for opioid abuse or dependence (4x increase since 1999)
- 60% of overdose deaths in the US (2014) were attributed to opioids
- 80% of new heroin users initiated SUD by misusing prescribed medications
- US Department of Health and Human Services (2016). HHS research on pain treatment and opioid misuse and overdose: translating science into action
- US Department of Health and Human Services (2015). The opioid epidemic: by the numbers. CDC, MMWR, 2015;64:1-5.
- US Department of Health and Human Services (2016). HHS opioid initiative: One year later.

Prescription Opioids: A Day in the US

■ 5,753 individuals misused rx opioids for the first time

- 116 opioid-related fatalities
- \$1.38 billion in economic costs
- US Department of Health and Human Services: https://www.hhs.gov/opioids/about-the-epidemic/index.html accessed March 2018.

Painwe<u>ek</u>.

Prescription OpioidsOpioid crisis declared a public health emergency HHS 5-point strategy Better addiction prevention, treatment, and recovery Better data Better pain management (crisis = opportunity) Better targeting of overdose reversing drugs Better research US Department of Health and Human Services https://www.hhs.gov/opioids/about-the-epidemic/index.html accessed March 2018 US Department of Health and Human Services (2017). HHS opioid research portfolio brief: translating science into action.

Common Pain Psychology Curriculum Components

- Overview of pain
- Pacing of activities
- Pain & stress physiology
- Relaxation training
- Sleep hygiene

Painweek.

Common Pain Psychology Curriculum Components (cont'd)

- Identifying environmental stressors (work & home)
- Development of stress management techniques (eg, cognitive restructuring)
- Assertiveness/communication skills development
- Flare contingency planning







Stress, the Nervous System, and Pain (cont'd)

Sympathetic activation

- Increased heart rate
- Increased blood pressure
- Increased muscle tension
- Constriction of blood vessels
- Release of stress hormones
- Pupil dilation
- Change in breathing patterns
- Additional systemic changes

Painweek.

Stress, the Nervous System, and Pain (cont'd)

Parasympathetic activation

- Decreased heart rate
- Decreased blood pressure
- Decreased muscle tension
- Expansion of blood vessels
- Discontinuation of stress hormone release
- Pupil constriction
- Change in breathing patterns
- Additional systemic changes































Catastrophization (cont'd)

Implications

–Pain expectations \rightarrow affective distress

–Somatic hypervigilance/attention \rightarrow increased pain perception

–Activity reduction coping strategy \rightarrow fear-avoidance cycle

-Persistent symptoms

-Disability







Previous Thoughts	Modified Thoughts
 There is nothing I can do to control this 	I can practice self-management skills
 Life is terrible Nothing will get done today 	 Life may feel terrible now, but I know this flare will end
	I don't know what the rest of the day will be like, but I will make the most of it by pacing



Empirically Validated Treatment: Self-Management Education

Lambeek, Van Mechelen, Knol, Loisel, Anema (2010)

- Buchner, Zahlten-Hinguranage, Schiltenwolf, Neubauer (2006)
- Linton & Ryberg (2001)
- Flor, Fydrich, Turk (1992)

Empirically Validated Treatment

Linton & Andersson (2000)

- -Randomized control trial (n=213)
- All patients received regular primary care tx + minimal treatment (information pack, pamphlet) or 6-session CBT treatment
- -Assessments administered at pretest and 12-month follow-up
- -Risk for developing long-term sick absence decreased 9x in CBT group
- –CBT participants had decreased medical utilization compared to increase in other groups

Painweek.

Painweek

Empirically Validated Treatment (cont'd) Linton & Nordin (2006) -5-year follow-up of Linton & Andersson (2000) study, also used supplemental records from the National Insurance Authority 97% completed follow-up questionnaire CBT group had significantly less pain, higher activity, better quality of life, and better general health compared to minimal treatment group Risk of long-term sick leave 3x higher in the non-CBT group CBT group had significantly less lost productivity costs





Cochrane Review of Multidisciplinary Programs for Pain

- ■41 studies, 6858 participants
- •LBP > 3 months with some prior treatment
- MDP vs unimodal care focused on physical factors, standard care with GP
- Moderate quality evidence for improvements in pain and daily functioning
- Increased likelihood of RTW in 6-12 months



Kamper SJ, Apeldoorn AT, Chiarotto A, Smeets RJ.E.M., Ostelo RWJG, Guzman J, van Tulder MW. Multidisciplinary biopsychosocial rehabilitation for chronic low back pain. Cochrane Database of Systematic Reviews 2014, Issue 9.

Stanford Comprehensive Interdisciplinary Pain Program (SCIPP)

- Typical patient
- Pain conditions accepted
- Admission criteria





Scheduled Activities

- AM rounds
- Physical therapy
- Occupational therapy
- Pain coping skills class
- Individual provider visits

Unscheduled Activities Independent practice Walking Activity tracking log

Behaviors Reinforced

- Consistent across all team members, including nursing
- Application of self-management skills
- Increased activity levels
- Focus on functioning





SCIPP Outcomes

- ■n = 44 (19 male, 25 female)
- Minimum of 1 pain diagnosis
- Assessments:
 - -Center for Epidemiologic Study of Diseases—Depression Scale (CESD)
 - -McGill Pain Questionnaire (MPQ)
 - -McGill Pain Questionnaire-Visual-Analog Scale (MPQ-VAS)
 - -Profile of Mood States (POMS)
- Administered within 24 hours of admission and discharge











SCIPP Outcomes

- Significant changes on
 - -CESD (p<.001)
 - -MPQ-VAS average pain (p<.001)
 - -MPQ summary score (p=.005)
 - -MPQ pain rating index (p=.007)
 - -MPQ affective score (p=.01)
 - -POMS Tension-Anxiety (p=.005)
 - -POMS Depression-Dejection (p=.001)
 - -POMS Vigor-Activity (p=.005)
 - -POMS Fatigue-Inertia (p=.002)
 - -POMS Confusion-Bewilderment (p=.003)
 - -POMS Total Mood Disturbance (p=.01)
- No significant difference on
 - -POMS Anger-Hostility

Painweek.

Other Literature Findings

- 373 CPRP participants (3 week)
- ~57% on opioids at admission
- Assessments at admission, discharge, and 6-month (70% return rate; pain severity, depression, psychosocial functioning, health status, pain catastrophizing)
- Pain severity and depression higher in opioid users at admission
- Significant improvement on all variables at discharge, 6-month follow-up regardless of opioid status



Townsend, CO, Kerkvliet, JL, Bruce, BK, Rome, JD, Hooten, WM, Luedtke, CA, Hodgson, JE. (2008). A Longitudinal Study of the Efficacy of a Comprehensive Pain Rehabilitation Program with Opioid Withdrawal: Comparison of Treatment Outcomes Based on Opioid Use Status at Admission. Pain, 140(1): 177-189.



Beyond CBT

- Acceptance and commitment therapy (ACT)
- Biofeedback training
- Mindfulness-based interventions
- Emotional awareness and expression therapy





Addressing Chronic Pain in the Context of Substance Use Disorders

Medication reduction can improve functional outcomes

 Interdisciplinary care enhances results and can lead to decreased medical utilization

> Lambeek, Van Mechelen, Knol, Loisel, Anema (2010); Flor, Fydrich, Turk (1992) Buchner, Zahlten-Hinguranage, Schiltenwolf, Neubauer (2006); Linton & Ryberg (2001)

<section-header> Asfety education for prescribers & patients Safety education for prescribers & patients Subtraction Drug Monitoring Programs (PDMPs) Prescription Drug Monitoring Programs (PDMPs) UDS Risk assessment tools (ORT, SOAPP, etc) Individual evaluation(s) Visit frequency Treatment plan components

Psychology in REMS

- •Guidance re: creation
- Service delivery



Addressing Chronic Pain in the Context of Substance Use Disorders

- Medication Assisted Treatment (MAT): combination of pharmacologic treatment AND behavioral interventions
- Employ use of a biopsychosocial formulation of the patient's predicament vs focusing solely on a biomedical model
- Emphasize focus on function vs pain elimination: Set functional goals (resumption of normal activities, RTW) and use activity tracking sheets

