

# Treating Chronic Pain with Prescription Opioids in the Substance Abuser: Relapse Prevention and Management



Peggy Compton, RN, PhD, FAAN  
UCLA School of Nursing  
May 3, 2012



---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---



“For pain is perhaps but a violent pleasure?  
Who could determine the point where pleasure  
becomes pain, where pain is still a pleasure?”  
—Honoré De Balzac (1799–1850)



“Pleasure and pain, though directly opposite, are  
yet so contrived by nature as to be constant  
companions; and it is a fact that the same  
motions and muscles of the face are employed  
both laughing and crying.”  
Pierre Charron (1541 - 1603)



---

---

---

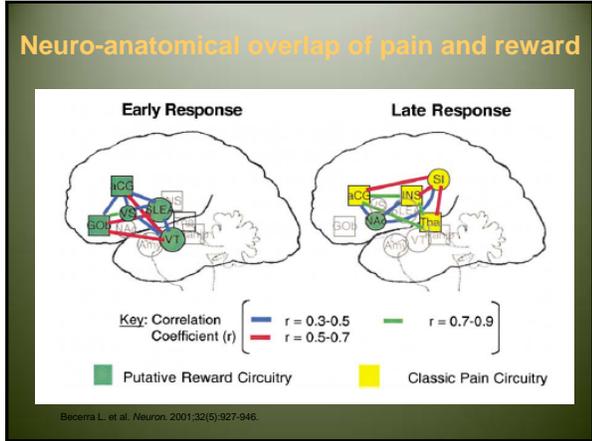
---

---

---

---

---




---

---

---

---

---

---

---

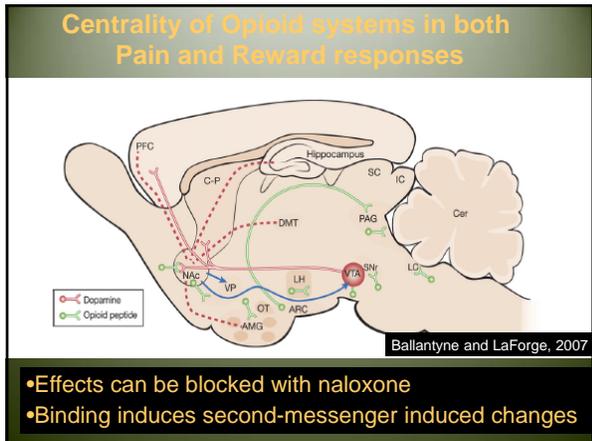
---

---

---

---

---




---

---

---

---

---

---

---

---

---

---

---

---

### Opioid Responses by Murine Strain

	BALB/c (common inbred)	CXBH (recombinant inbred)	C57 (common inbred)	CXBK (recombinant inbred)
Pain Tolerance	↑ <sup>1</sup>	↑ <sup>1</sup>	↓ <sup>1</sup>	↓ <sup>1</sup>
Analgesic Response	↑ <sup>2,3,4,6</sup>	↑ <sup>2,3,5</sup>	↓ <sup>2,4,5,6,7</sup>	↓ <sup>2,3,5,8,9</sup>
Reinforcement/Reward Responses	↓ <sup>2,4</sup>	↓ <sup>2</sup>	↑ <sup>2,4,10</sup>	↑ <sup>2</sup>
Opioid Receptor Binding	↑ <sup>2</sup>	↑ <sup>2,9</sup>	+/- <sup>2</sup>	↓ <sup>2,9,12</sup>

<sup>1</sup>Elmer, et al. 1998. <sup>2</sup>Elmer, et al. 1995. <sup>3</sup>Oliverio, et al. 1997. <sup>4</sup>Semenova, et al. 1995. <sup>5</sup>Elmer, et al. 1993. <sup>6</sup>Oliverio & Castellano. 1974. <sup>7</sup>Brase, et al. 1977. <sup>8</sup>Gwynn & Domino. 1984. <sup>9</sup>Mogli, et al. 1996. <sup>10</sup>Belknap, et al. 1995. <sup>11</sup>Berrettini, et al. 1994. <sup>12</sup>Mogli, et al. 1995. <sup>13</sup>Peiruzzi, et al. 1997. <sup>14</sup>Gellemter, et al. 1998.

---

---

---

---

---

---

---

---

---

---

---

---

## Pain and Addiction As Interrelated Phenomena

Clinical implications for:

### Treating Chronic Pain with Prescription Opioids in the Substance Abuser

- Can it be effective?
- Under what conditions is it effective?
- What nursing interventions underlie successful pain management?
- What if the patient is noncompliant/relapses?



---

---

---

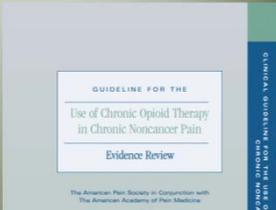
---

---

---

---

---



“ There are no randomized trials or controlled observational studies on the benefits and harms of opioids for chronic noncancer pain in patients with a history of substance abuse or addiction that are undergoing treatment for addiction” (2009, p. 52)

8

---

---

---

---

---

---

---

---

## History of substance abuse in chronic pain patients

- Across literature, a personal or family history of substance use disorder is the *best predictor* of drug abuse, misuse or other aberrant drug-related behaviors
- Risk stratification approaches for selecting patients for chronic opioid therapy identify those with a history of substance use as at *high risk for poor treatment response*

(Chou et al., 2009)

9

---

---

---

---

---

---

---

---

The patient with chronic pain AND untreated addictive disease WILL NOT get better with opioid prescription

By definition, the addict will be unable to achieve the goal of chronic pain treatment, functional restoration.

- physical capabilities
- psychological intactness
- family and social interactions
- health care utilization
- appropriate medication use

**Patients with active addiction are not candidates for opioid therapy**

10

---

---

---

---

---

---

---

---

---

---

### DSM-IV Substance Use Disorders

<p><u>Substance Abuse</u></p> <ul style="list-style-type: none"> <li>• One or more within a 12-month period           <ul style="list-style-type: none"> <li>– Failure to fulfill major role obligation</li> <li>– Recurrent use in hazardous situations</li> <li>– Recurrent legal problems</li> <li>– Recurrent social or interpersonal problems</li> </ul> </li> </ul>	<p><u>Substance Dependence</u></p> <ul style="list-style-type: none"> <li>• Three or more within a 12-month period           <ul style="list-style-type: none"> <li>– Abuse criteria, plus:               <ul style="list-style-type: none"> <li>– Tolerance</li> <li>– Withdrawal</li> <li>– Larger amount/longer time than intended</li> <li>– Persistent desire to control use</li> <li>– Great deal of time spent in activities related to use</li> </ul> </li> </ul> </li> </ul>
---	---

APA, 1994

11

---

---

---

---

---

---

---

---

---

---

### Addiction results in a "Syndrome of Pain Facilitation"

(Schofferman & Savage, 1995)

Discomfort augmented by:

- subtle withdrawal syndromes
- intoxication or withdrawal-related sympathetic arousal, muscular tension
- concomitant health problems
- sleep disturbances
- affective changes
- functional changes




---

---

---

---

---

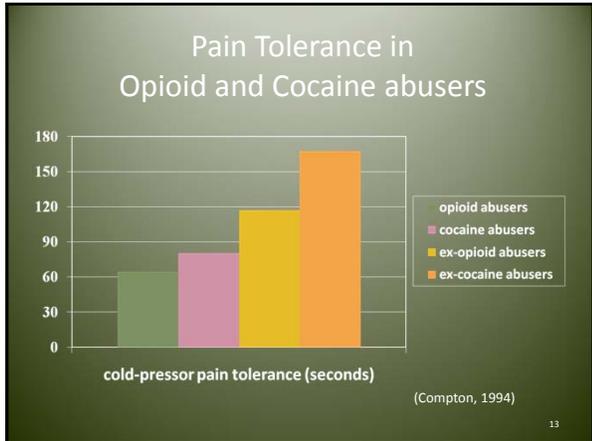
---

---

---

---

---



---

---

---

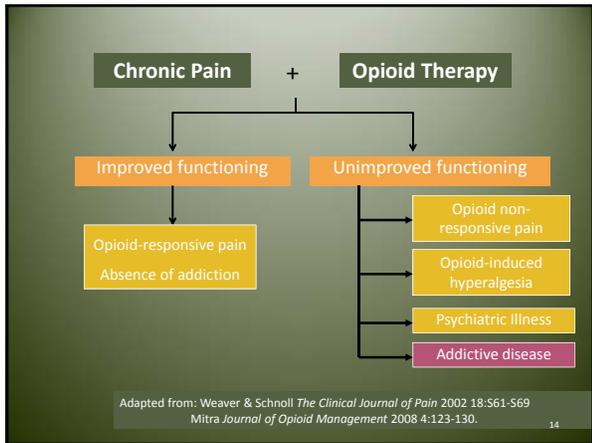
---

---

---

---

---



---

---

---

---

---

---

---

---

Patients with addictive disease in remission can appropriately and effectively use opioids for chronic pain

**17%-26% of chronic pain patients have a substance dependence disorder in remission (Strain, 2002)**

- Of a random sample of 300 veterans, 21% of those with chronic pain and on opioid therapy had a history of substance abuse, but no current indication of abuse or dependence (Clark, 2002).
- Of 52 chronic pain patients on opioid therapy, 27% had a history of addictive disease (50% w/ family history), but did not meet diagnostic criteria for a substance use disorder (Compton et al., 1998).

---

---

---

---

---

---

---

---

### Addiction is a chronic disease

- Pathological basis
- Known risk factors
- Predictable course
- Treatments of known efficacy
  - Treatment requires behavioral changes
  - Most successful when treatment is ongoing
- Characterized by remissions and exacerbations
- **Exacerbation = Relapse**
  - precipitated by stressors (chronic pain, depression) and/or opioid exposure

16

---

---

---

---

---

---

---

---

Key goal of treating the substance abuser with chronic pain using controlled prescription drugs:

#### Prevent Relapse

- Assessment
  - What is the risk of relapse?
- Monitoring
  - How can relapse be identified?
- Management
  - How can chronic opioid treatment be provided to minimize risk of relapse?
  - How can relapse be managed?

17

---

---

---

---

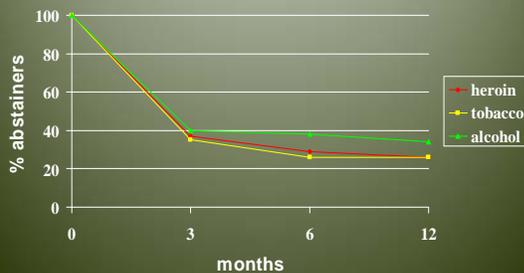
---

---

---

---

### Relapse a well-understood phenomenon in addiction literature



---

---

---

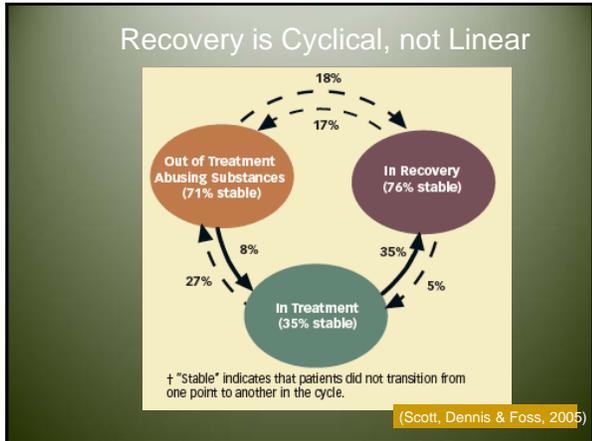
---

---

---

---

---




---

---

---

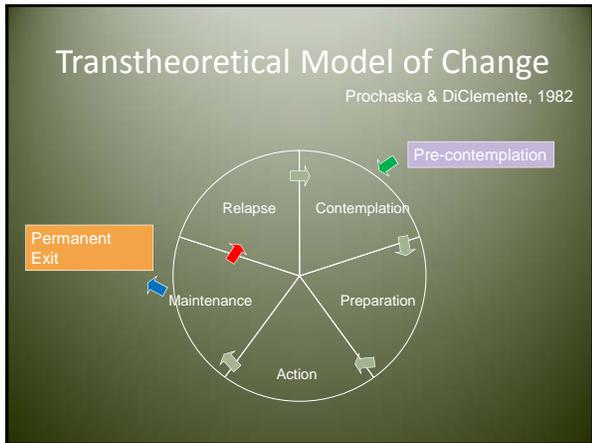
---

---

---

---

---




---

---

---

---

---

---

---

---

### Stages of Change and Nursing Tasks

Patient Stage	Motivational Tasks
<u>Precontemplation</u>	Raise doubts; increase client's perception of risks and problems
<u>Contemplation</u>	Tip the balance; evoke reasons for change and risks of not changing
<u>Determination</u>	Help pt to determine best plan of action
<u>Action</u>	Help pt to take steps toward change
<u>Maintenance</u>	Help pt to identify and use strategies to prevent relapse
<u>Relapse</u>	Renew process of contemplation while maintaining self-esteem

---

---

---

---

---

---

---

---

### Relapse: Competing Definitions

<ul style="list-style-type: none"> <li>• “treatment failure”</li> <li>• all-or-none outcome</li> <li>• an end state</li> <li>• nothing much one can do about it</li> <li>• overpowers the individual</li> </ul>	<ul style="list-style-type: none"> <li>• “fork in the road to change”</li> <li>• part of the process</li> <li>• a mistake; a slight error; a slip</li> <li>• a useful, beneficial step</li> <li>• a learning opportunity</li> </ul>
---	---

(Marlatt & Gordon, 1985)

---

---

---

---

---

---

---

---

---

---

### Goals of Relapse Prevention

In general:

- Develop new behaviors (success is more than not engaging in unhealthy behavior)
- Learn to monitor signs of vulnerability to relapse (recognize “high risk” situations)
- Establish strategies to deal with craving (enhance coping responses) and relapse

For pain patient:

- Optimal functioning with appropriate opioid use

---

---

---

---

---

---

---

---

---

---

### High Risk Situations

Similar across behaviors

- alcoholics, smokers, heroin addicts, gamblers, overeaters

56% intrapersonal determinants:

- negative or positive emotional/physical states
- craving/urges

44% interpersonal determinants

- interpersonal conflicts, social pressure
- stress

\* For pain patients: unrelieved pain, opioid withdrawal Sx

**HALT**

- Hungry
- Angry
- Lonely
- Tired

Goal is to increase self-efficacy in high risk situations

---

---

---

---

---

---

---

---

---

---

## 1. Identify High-risk Situations

### Behavioral assessment procedures

- an awareness **and** intervention technique self-monitoring & direct observation
  - actual use, urges/**cravings**, intentions to use, coping mechanism used
  - thwarts automaticity of the behavior
- self-efficacy ratings - coping capacity in high risk situations
- review past relapse episodes/relapse fantasies

---

---

---

---

---

---

---

---

## Craving

- Intense powerful drive or desire
- Difficult to control
- Common source of relapse

### Coping with Craving

- Distraction
- Talking about craving
- Active recall of negative consequences
- Using self-talk

---

---

---

---

---

---

---

---

## 2. Enhance Coping Responses

### High-risk Situational Cues = Discriminative Stimuli ("red flags")

- avoidance
- skill training and practice
  - advance planning; problem-solving
- relapse rehearsal
- relaxation training
- stress management
  - Lifestyle balance – new behaviors
- Treat psychiatric disorders

---

---

---

---

---

---

---

---

### 3. Minimize Extent of Lapse

Prevent lapse from developing into full-blown relapse (and loss from treatment)

- Develop a “relapse contract” – put stops in place
- Balance positive outcome expectancies (immediate gratification) with delayed effects
- Cognitive restructuring
  - avoid the abstinence violation effect

---

---

---

---

---

---

---

---

### The Relapse Process



---

---

---

---

---

---

---

---

### Relapse Analysis

- Session to be done when relapse occurs after a period of good behavior
- Functional analysis
  - What happened?
  - How did you feel?
- Relapse should be framed as learning experience for client

---

---

---

---

---

---

---

---

Key goal of treating the substance abuser with chronic pain using controlled prescription drugs:

**Prevent Relapse**

- Assessment
  - What is the risk of relapse?
- Monitoring
  - How can relapse be identified?
- Management
  - How can chronic opioid treatment be provided to minimize risk of relapse?
  - How can relapse be managed?

31

---

---

---

---

---

---

---

---

Assessment of risk for relapse

Status of disease remission:

- How long has patient been in recovery? What is current status of addiction recovery efforts/treatment?
- What type(s) of drugs were abused?
- What are current stressors that might precipitate relapse? (i.e., unrelieved pain; withdrawal Sx; psychiatric Sx)
- What are current protective factors against relapse? (i.e., coping responses)
- How stable does patient feel in recovery? (i.e., relapse contract)

32

---

---

---

---

---

---

---

---

Assessment of risk for relapse

Correlates of analgesic abuse in chronic pain patients with a history of addiction:

- Absence of family support
- Lack of 12-step involvement
- Recent history of polysubstance abuse (not alcohol abuse alone)
- Previous history of chronic opioid therapy
- Failure in improvement of pain symptoms

(Dunbar & Katz, 1996)

33

---

---

---

---

---

---

---

---

### Monitoring for emergence of relapse

Like constipation and sedation, behaviors consistent with relapse must be assessed as a potential medication-related adverse effect.

#### Evidence of addiction in pain patients on opioid therapy

- Adverse consequences associated with opioid use
- Loss of control over the use of opioids
- Preoccupation with obtaining opioids
- Decline in function

2001 Consensus Statement from the American Society of Addiction Medicine, American Academy of Pain Medicine, and the American Pain Society

34

---

---

---

---

---

---

---

---

---

---

### Monitoring Medication Use behaviors

- Addiction is a disease of behavior
  - patient behavioral response to the opioid-analgesic regimen provides evidence for the presence of active addiction.
- Objective evidence of medication use behaviors
  - treatment contracts/medication agreements
  - urine toxicology

35

---

---

---

---

---

---

---

---

---

---

### Opioid treatment contracts

- Evidence that the patient is having difficulty adhering to prescribed medication regimen
  - Outline inappropriate or aberrant medication-use behaviors
  - not a specific indicator of relapse to addictive disease
- For patient with history of substance abuse
  - Emphasize urine toxicology
  - Add engagement in recovery efforts
  - Put controls in place with respect to opioid access
  - Add relapse plan

36

---

---

---

---

---

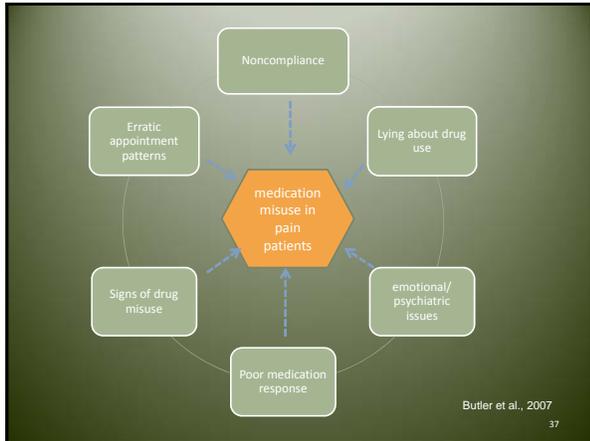
---

---

---

---

---



---

---

---

---

---

---

---

---

### Medication Misuse ≠ Addiction

- Hariharan et al. (2007): 17% of opioid contracts cancelled by physician
  - 10% due to illicit urine toxicology (cocaine, cannabis)
  - 5% due to abuse prescription opioid abuse
  - 2% rule violation
- Compton et al. (2008): 28% discharged for medication misuse behaviors
  - 8% due to misuse of opioids

∴ Only 1/3 of those discharged from pain treatment were misusing/abusing opioids

---

---

---

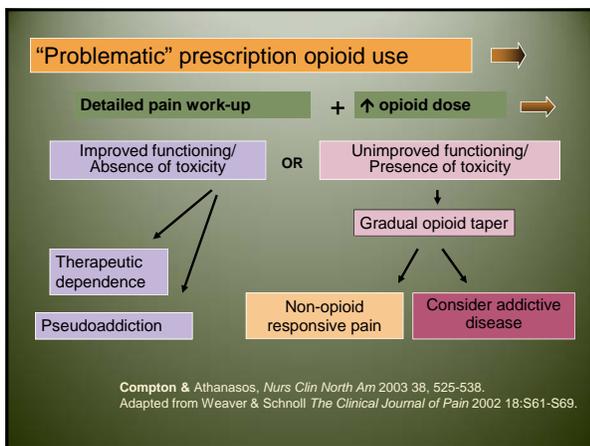
---

---

---

---

---



---

---

---

---

---

---

---

---

### Pain Characteristics and Opioid Analgesic response in Addiction

Differential Dx	Nature of pain	Onset	Response to opioid administration	Type of previous opioid used
Increased pain pathology	Localized to pain site	Variable	Pain improves	Neither
Opioid tolerance	Localized to pain site	Gradual	Pain improves	Long acting
Opioid withdrawal	Diffuse, hyperalgesia	Abrupt	Pain improves	Short acting
Opioid-induced hyperalgesia	Diffuse, hyperalgesia	Abrupt or Gradual	Pain worsens	Short acting
Pseudo-addiction	Localized to pain site	Ongoing	Pain improves	either
Addictive disease	Diffuse, hyperalgesia	Ongoing	Pain worsens	Short acting

40

---

---

---

---

---

---

---

---

---

---

### Management

#### Support recovery

- Regular and thoughtful urine toxicology
- Ongoing assessment of substance abuse treatment
- Ongoing assessment and management of psychiatric disorders
- Ongoing assessment of life or pain-related stressors
- Avoid opioid withdrawal

41

---

---

---

---

---

---

---

---

---

---

### Management

#### Be prepared for it's emergence

- Prescriber of opioids for chronic use is accountable for having a management strategy in place if relapse occurs.
- Providing daily opioids without suitable addiction expertise or support in place puts both the pain-management practitioner and patient at risk for poor outcomes.
- If unable to manage these adverse effects themselves, clinician should knowledgeable refer patients to qualified specialists who can better treat the untoward response.

42

---

---

---

---

---

---

---

---

---

---



Remission of Addictive Disease Improves Pain and Functionality

- Ability to comply with regimes
- Enhanced cognitive skills
- Behavior modification techniques
- Improved social support
- Management of neuropsychiatric complications
- Improved stress control

46

---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---

Settings in which nurses encounter pain and addiction

- Pain clinics
- Addiction clinics
- Post operative units
- Emergency room



---

---

---

---

---

---

---

---

**Interventions for Chronic disease management**

- Motivational interviewing
- Cognitive behavior therapy
- Psychiatric assessment
- Stress management
- Functional Assessment



---

---

---

---

---

---

---

---

**What does nursing bring to the field of pain and chemical dependency?**

- Growing literature
- Presence across clinical setting
- Complex, holistic perspective of patient
- Chronic disease management
- Independent nursing interventions
- Patient advocacy



---

---

---

---

---

---

---

---

**THANK YOU!**

Presenter Contact Details:

Peggy Compton RN, PhD, FAAN  
Associate Dean and Professor  
UCLA School of Nursing  
Los Angeles CA USA 90095  
1 310 206-2825 (office phone)  
1 310 794-7482 (fax)  
pcompton@sonnet.ucla.edu

51

---

---

---

---

---

---

---

---



## IntNSA Webinar Series

Funding for this webinar was made possible (in part) by (1H79T1022022) from SAMHSA. The views expressed in written webinar materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government.



---

---

---

---

---

---

---

---