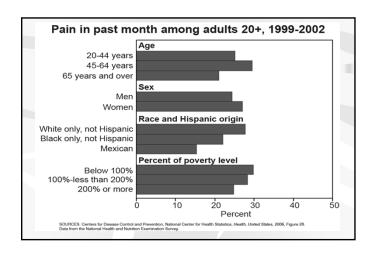
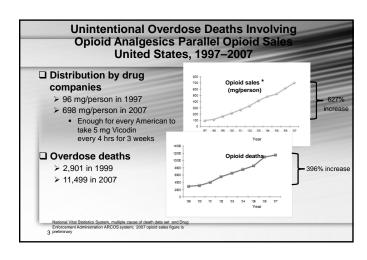
## Assessment of Patients with Chronic Pain and Co-Occurring Substance Use

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(No conflicts to disclose)





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In 2001, the Joint Commission on the Accreditation of Healthcare Organizations (JCAHO) introduced the concept that pain was the "fifth vital sign."

"Rate your pain from 0-10"



#### The Puzzle of Chronic Pain

#### Why do some patients recover and others become disabled?

- 80 to 90% of low back pain episodes remit in 6-8 weeks (Nachemson, 1982; Waddell et al, 1984; Klenerman, 1995)
- 25% of cases of low back pain account for 90% of total cost (Snook, 1988)
- Most patients with low back pain show no evidence of disease or structural abnormality (Waddell, 1987)

Problem	Case	<b>Prototy</b>	pe
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50 yo man

Back pain, (+neck, shoulder, knee, HA)

Oxycodone 60+ mg/day (+Vicodin, morphine)

+ employed; ↑ sick leave

Zolpidem (clonazepam etc)

Stress (depression)

Hx PT, TENS, acupuncture (epidurals, surgery)

+ hx alc/drugs

#### Portenoy and Foley (1986)

Pain, 25:171-186

24 of 38 pts reported less pain with chronic opiates
(low doses)

No improvement in functioning

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APS	&	AAP	M 1	1997	Guid	es
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Tolerance, or decreasing pain relief with the same dose over time, has not proven to be a prevalent limitation to long term opioid use.

The undertreatment of pain in today's society is not justified. This joint consensus statement has been produced pursuant to the missions of both organizations, to help foster a practice environment in which opioids may be used appropriately to reduce needless suffering from pain.

The use of opioids for the treatment of chronic pain. A consensus statement from the American Academy of Pain Medicine and the American Pain Society. Clin J Pain. 1997;13:6–8.

 A survey of physicians who were members of the American Pain Society found that many pain specialists believe that long-term opioid treatment is beneficial in selected patients with chronic, noncancer pain; that this treatment is underutilized; and that addiction, tolerance, and physical dependence are generally not significant problems.

West J Med. 2000 February; 172(2): 107-115.

#### The Problem of Under Treated Pain

The relief of suffering is universally acknowledged as a cardinal goal of the ethical and compassionate practice of medicine.

- 30 million Americans "suffer with chronic pain."
- "Doctors are reluctant to prescribe opioids, thus 80% of those with chronic non-malignant pain go untreated as a result."

New York Times, February, 22, 2002

#### Need for Education in Pain Management

- Chronic pain was deemed by 68% of physicians to be inadequately managed. Almost 60% thought that pain management could be enhanced by improved physician education
- For moderate to severe chronic noncancer pain, opioids were the first-line treatment of <u>only</u> 32% of physicians

Morley-Forster PK et al Pain Res Manag. 2003;8:187-8

#### Practice Trends (USA)

- · Liberal use of opioids
- · Many delivery methods
- Mega-doses
- Minimization of addiction concerns followed by a focus on addiction as the problem

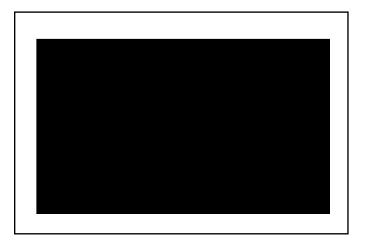


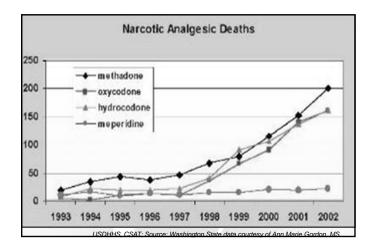
#### But there are problems

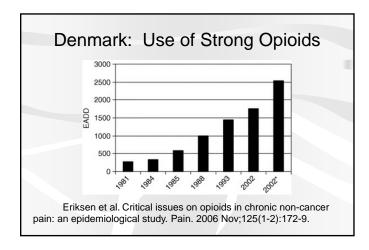
- 81% of GP's believe many chronic pain patients are not treated well
- Barriers to good pain control are side effects of therapies (74%), and patient compliance (58%)

Stannard C, Johnson M Curr Med Res Opin. 2003;19:703-6.









# Pain Group (chronic/long lasting pain >6 months) • Opioid users - 90% mod-very severe pain - Worse on all measures of function - Twice as likely to be on disability (adjusted for pain rating, benzo use) - Worse on all measures of function - Twice as likely to be on disability (adjusted for pain rating, benzo use)

Denmark: Use	of Strong	Opioids
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10000+ interviews; 1906 chronic pain; 228 opioid users

"it is remarkable that opioid treatment of longterm/chronic non-cancer pain does not seem to fulfil any of the key outcome opioid treatment goals: pain relief, improved quality of life and improved functional capacity"

Eriksen et al. Critical issues on opioids in chronic non-cancer pain: an epidemiological study. Pain. 2006 Nov;125(1-2):172-9.

## Diagnostic Accuracy in Chronic Pain

- Fibromyalgia
- · Myofascial pain syndrome
- CRPS I
  - Reflex Sympathetic Dystrophy
- Temperomandibular joint disorder
- Back Pain



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### MRI Study of the Lumbar Spine (Jensen et al., NEJM 1994

74% of subjects with no back pain had abnormal discs

### Addiction and Chronic Pain: Scope of the Problem

- · No good statistics
- Literature 3.2%-18.9% <sup>1</sup>
- Addiction 10%-15%—Lifetime prevalence in U.S.
- Chronic Pain 10%-15%—Incidence in general population of U.S.
- 1. Fishbain, DA et al., Clin J Pain, 1992

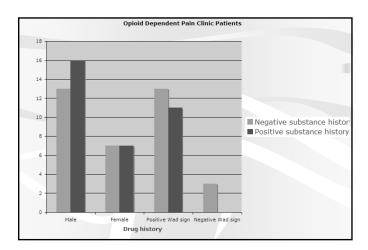
#### Diagnosis of Addiction

136 pts screened, 38 terminated within 1 year

- The Addiction Behaviors Checklist: Validation of a New Clinician-Based Measure of Inappropriate Opioid Use in Chronic Pain
- Wu, Compton et al., Journal of Pain and Symptom Management, 32:342-351, Oct 2006

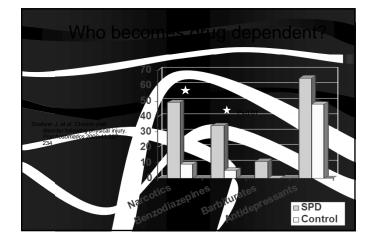
#### Problematic Questions in the Assessment of Pain and Substance Use

- "What is the risk of addiction?"
- "Is it addiction or just physical dependence?"



#### Chronic Pain Disorder Following Physical Injury

 Streltzer, Eliashof, et al. Psychosomatics, May, 2000



#### APS & AAPM 2008 Guides

the panel did not rate any of its 25 recommendations as supported by high quality evidence. Only 4 recommendations were viewed as supported by even moderate quality evidence

Clinical guidelines for the use of chronic opioid therapy in chronic noncancer pain.

Chou R, Fanciullo GJ, Fine PG, Adler JA, Ballantyne JC, Davies P, Donovan MI, Fishbain DA, Foley KM, Fudin J, Gilson AM, Kelter A, Mauskop A, O'Connor PG, Passik SD, Pasternak GW, Portenoy RK, Rich BA, Roberts RG, Todd KH, Miaskowski C; American Pain Society-American Academy of Pain Medicine Opioids Guidelines Panel.

J Pain. 2009 Feb;10(2):113-30.

#### AAAP 2009 Guides

High dose opioids, when chronically prescribed, generally have not been shown to be effective for the management of persistent, nonmalignant pain, utilizing this standard of both symptom reduction and increase in level of function...

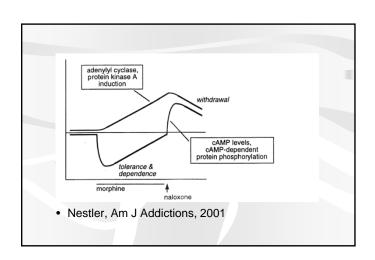
Therefore, prescription of daily high dose opioids is generally not recommended.

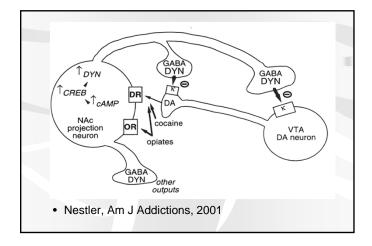
Streltzer J, Ziegler P, Johnson B: Cautionary guidelines for the use of opioids in chronic pain. American Journal on Addictions, 18:1-4, 2009.

#### Research Trends

- Increases in morbidity and mortality associated with opioids
- Mechanisms and effects of chronic opioid intake in animal models
- Lack of efficacy and induction of enhanced pain sensitivity in humans

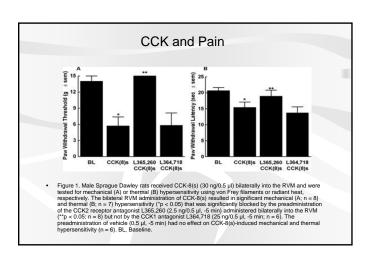
## Descending Control of Pain Millan MJ, Prog Neurobiol 2002;66:355-474





#### Mechanisms of Opioid-induced Pain and Antinociceptive Tolerance: Descending Facilitation and Spinal Dynorphin

- Vanderah, et al., Pain 92:5-9, 2001
  - "Recent studies have shown that continuous opioid exposure produces exaggerated pain and, importantly, such pain occurs while the opioid is continuously present in the system"



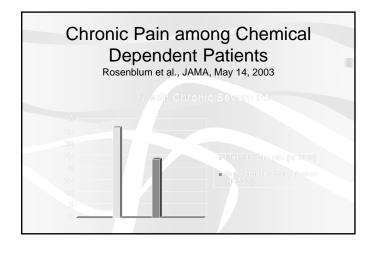
Patients on methadone maintenance therapy are relatively intolerant of pain, a finding hypothesized to reflect a hyperalgesic state induced by chronic opioid administration

Pain intolerance in opioid-maintained former opiate addicts: effect of long-acting maintenance agent.

Compton P, Charuvastra VC, Ling W

Drug Alcohol Depend 2001;63:139-46

## Hyperalgesic responses in methadone maintenance patients Doverty, et al. Pain 90:91-96, 2001 COLD PRESSOR -- TOLERANCE (SEC)



Chronic Pain among Chemical Dependent Patients Rosenblum et al., JAMA, May 14, 2003  Effect of Dimarion of Methadone Chronic Paris	
Pharmacologic Effects of Chronic Opioid Intake	
Chilothic Opiola intake	
Tolerance to analgesia	
Rebound pain	
Supersensitivity pain (hyperalgesia)	

#### Assessment

Emphasize pain hx, not drug hx Where, what, how long, coping attempts- but generally not "what drug works best for you?"

## Nonphysiological Findings (Waddell Signs)

- Axial compression
- · Hip rotation
- Superficial tenderness
- Distraction
- Exaggerated response

#### Conclusion

- The huge rise in the prescription of opioids for chronic pain is associated with a huge rise in morbidity and mortality.
- The evidence for the efficacy of (high dose) opioids for chronic painis weak; the evidence for chronic opioids producing enhancd sensitivity to pain is compelling.
- Opioid dependent pain patients not doing wellcan be reluctant to decrease opioids because of fear of withdrawal pain.

#### Conclusion

- In the assessment of opioid use, a pain-oriented history is more likely to be accurate than an addiction oriented history.
- 5. Waddell signs may be useful in the physical exam to assess a somatoform pain disorder.
- In order to be open to the assessment that opioids are not helpful for the patient, one must know how to get them off so that they can be treated efficaciously.

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Recommended Website	
www.responsibleopioidprescribing.org	