

Chronic Pain Assessment

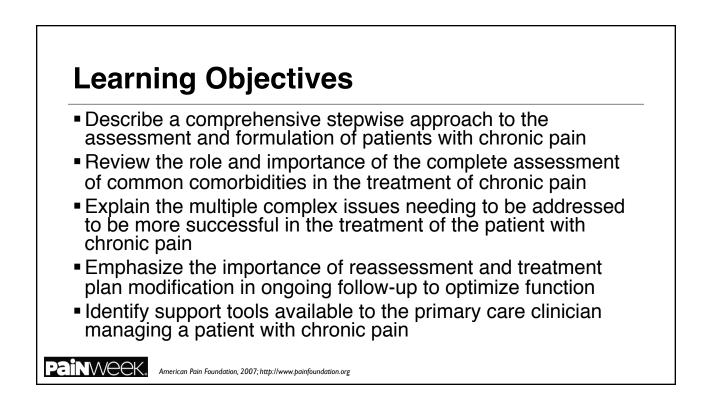
Michael R. Clark, MD, MPH, MBA

Michael R. Clark, MD, MPH, MBA

- Vice Chair, Clinical Affairs
- Director, Pain Treatment Program
- Department of Psychiatry & Behavioral Sciences
- Johns Hopkins Medicine
- Baltimore, Maryland, USA

Disclosure

Nothing to disclose



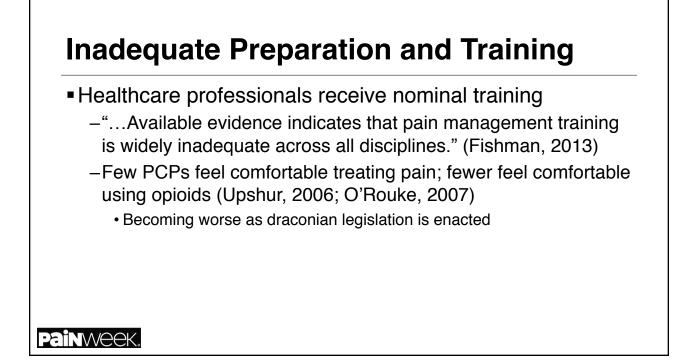
The Problem of Chronic Pain

- U.S. Center for Health Statistics conducted an 8-year follow-up survey and found that 32.8% of the general population experienced chronic pain symptoms
- Chronic pain affects about 100 million American adults (more than the total affected by heart disease, cancer, and diabetes combined)
 - 56% suffered with pain for more than 5 years
 - Only 22% ever referred to a pain specialist (DeLuca, 2001)
 - 28% of these did not have pain controlled (APS, 1999)
- In a community sample of individuals older than 70, chronic pain was present in 52% with one-third of persons over 75 rating pain as severe
- Pain also costs the nation up to \$635 billion each year in medical treatment and lost productivity

Magni et al., 1993; IOM, 2011; McCarthy et al. 2009; Brattberg et al. 1996

Painweek.

<section-header><list-item><list-item><list-item><list-item><list-item><list-item>



What is Chronic Pain?

- "Chronic pain has a distinct pathologic basis, causing changes throughout the nervous system that often worsen over time. It has significant psychological and cognitive correlates and can constitute a serious, separate disease entity." (IOM, 2011)
- A complete assessment and formulation is essential for the successful treatment and rehabilitation of this complex patient

The Complexity of Chronic Pain

- Current pain intensity
- Other concomitant symptoms
- Medical comorbidities
- Psychiatric and psychological comorbidities
- Risk for medication abuse and diversion
- Number of chronic pain problems
- Number of past surgeries
- Medication side effects
- Extensive healthcare utilization

Peppin, et., al., 2015

Painweek.

- Body mass index
- Sleep disorders
- Head trauma history
- Tobacco usage
- Goal setting
- Educational level and employment status
- Current pharmacotherapy regimen
- Coping skills and social support
- Physical conditioning

Assessment: General

- Detailed history
 - Pain characteristics
 - Review of medical records
 - Prior diagnoses, therapies
 - Physical, psychological comorbidities
- Physical examination
 - Musculoskeletal
 - Neurologic
- Diagnostic studies

- Clinical considerations
 - Pain etiologies, characteristics
 - Effect on biopsychosocial domains including risk for addiction
- Challenges
 - Lack of a specific measurement tool that can prove presence or intensity of pain
 - Inaccurate patient descriptions
 - Degree of pain OR relief

Treatment based on initial assessment and regular reassessments that are comprehensive, individualized, documented



AMA. http://www.ama-cmeonline.com/pain_mgmt/printversion/ama_painmgmt_m1.pdf, Argoff CE. J Am Osteopath Assoc 2002;102(9 suppl 3):S2 I-S27; Sinatra R. J Am Board Fam Med. 2006;19:165-177

Assessment: Specific

- Functional assessment
 - -Does the pain interfere with activities: sleeping, eating, walking, rising/sitting, hygiene, sex, relationships?
- Psychological assessment
 - Does the patient have concomitant depression, anxiety, or mental status changes?
- Medication history
 - -What medications have been tried in the past?
 - -Which medications have helped?
 - -Which medications have not helped?
 - -Have they gotten into trouble with medications?

Painweek.

The Initial Hurdle

Patient's self-report

-Gold standard except when the patient cannot describe pain

Nonverbal behaviors

-Under both direct and indirect observation

- Collateral information from family, friends, practitioners
 - -Especially important for patients who cannot verbalize pain
- Physiologic measures (least sensitive)
 - Acute pain may elicit a change in vital signs;
 over time physiologic response to pain may not be seen

Painweek.

McCaffery M, Pasero C. Pain: Clinical Manual. p 95. 1999 Mosby, Inc.

Helpful Mnemonics: Overall Format

HAMSTER

-HISTORY

-ASSESSMENT

-MECHANISM of pain

-SOCIAL and psychological factors

-TREATMENT

-EDUCATION

-REASSESSMENT

Painweek.

Helpful Mnemonics: HPI

L-DOC-SARA

-Location

-Duration

-Onset

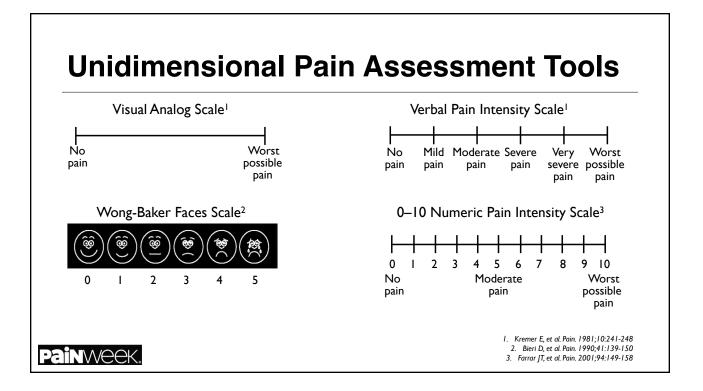
-Characteristic

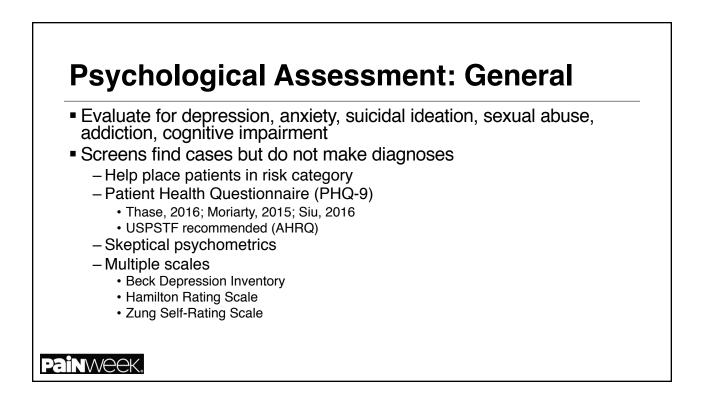
-Severity and pain goal

-Aggravating factors

-Relieving factors

-Associate symptoms





Catastrophizing

- "Pain catastrophizing is characterized by the tendency to magnify the threat value of pain stimulus and to feel helpless in the context of pain." (Quartana, 2009)
- Screening tool (Sullivan, 1995)
- Correlated with:
 - -Adverse pain related outcomes
 - -Poor treatment responses
 - -Shapes emotional, functional, and physiological responses
- Responses to treatment

Painweek.

Kinesiophobia

- "The fear of movement was the single strongest contributor to ankle disability" (Lentz, 2010)
- Common in SLE, > 65% (Baglan, 2015)
- Impact on life

–Job

- -Disability
- -Social support
- -Pain treatment and treatment efficacy

Chemical Coping

- "Middle ground between compliant medication use and addiction." (Kirsh, 2007)
 - -"The use of opioids to cope with emotional distress, characterized by inappropriate and/or excessive opioid use." (Kwong, 2015)
 - -Important distinction from seeking primary drug-effect
 - -Screening tool (Kirsh, 2007)
 - Poor prognosticator for efficacy of treatment and reduction in pain (Delgado-Guay, 2015)

Painweek.

Substance Use Disorder

- Screen to indicate need for evaluation (O'Brien, 2008)
- •CAGE (Ewing, 1984)
 - -Have you ever felt you should Cut down on your drinking?
 - -Have people Annoyed you by criticizing your drinking?
 - -Have you ever felt bad or Guilty about your drinking?
 - -Have you ever had a drink first thing in the morning to steady your nerves or get rid of a hangover? (Eye opener)
- CAGE-AID (Brown, 1995)
 - -Adapted for drug abuse

Generalized Broader Assessments

Brief Pain Inventory

-https://www.painedu.org/Downloads/NIPC/Brief Pain Inventory.pdf

- McGill Pain Questionnaire
- PHQ-9
- Just Ask!
 - -"Are you at risk to yourself or others?"
 - -"Any history of physical or sexual abuse?"

Painweek.

Collateral Information

- There is no single diagnostic test for pain

 Imaging, neurophysiologic testing, laboratory studies
- Confirm or exclude underlying causes such as rheumatoid arthritis, diabetic neuropathy, spinal disorders, HIV/Hep C, herpes viruses, vitamin deficiencies, autoimmune disorders, malignancies
- Multiple tests may not be helpful and produce false positive results
- The best source of data is old records from previous practitioners

Developing a Care Plan

- Working diagnosis
 - Pain etiology
 - Pain syndrome
 - Inferred pathophysiology
- Initial treatment
 - Individualized based on pain intensity, duration, disease, tolerance of AEs, risk for aberrant behavior
 - May be stepwise in nature
 - May involve multidisciplinary team
 - May include behavioral + nonpharmacologic + pharmacologic modalities
 - May include analgesics with different, complementary MOAs and agents to reduce other symptoms (depression, anxiety, sleep disturbance, fatigue)

Dainweek.

Zorba-Paster R. Expert Opin Pharmacother. 2010;11:1823-1833

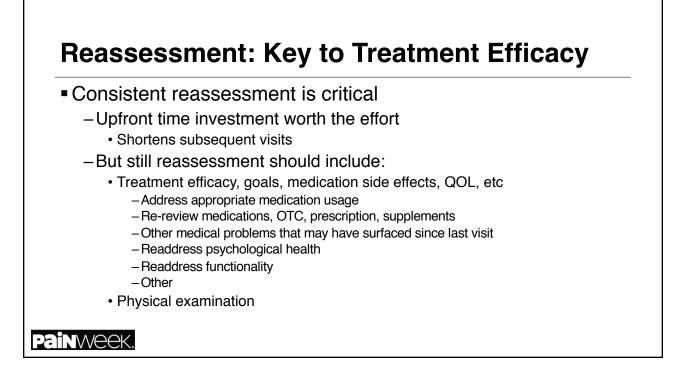
Risk of Abuse, Misuse, Diversion, and Overdose Death

- Universal precautions (Gourlay, 2005)
- Risk screening tools (Passik, 2008)
 - -ORT-Opioid Risk Tool
 - -SOAAP-Screener and Opioid Assessment Measure for Patients with Chronic Pain
 - -SOAAP-R-Revised
 - -DIRE-The Diagnosis, Intractability, Risk, Efficacy Tool
- -SISAP-Screening Instrument for Substance Abuse Potential http://diginole.lib.fsu.edu/lislandora/object/fsu%3A207738/datastream/PDF/view



Probably More Predictive of Addiction		
elling prescription drugs	Prescription forgery	
Stealing or "borrowing" drugs	Injecting oral formulations	
Dbtaining prescription drugs from nonmedical ources	Concurrent abuse of alcohol or illicit drugs	
Multiple dose escalation or other noncompliance with therapy despite warnings	Multiple episodes of prescription "loss"	
Repeatedly seeking prescriptions from other linicians or from emergency departments vithout informing prescriber or after warnings o desist	Evidence of deterioration in the ability to function at work, in the family, or socially that appears to be related to drug use	
epeated resistance to changes in therapy despite sychological effects from the drug	clear evidence of adverse physical or	

Probably Less Predictive of Addiction		
Aggressive complaining about the need for more drugs	Drug hoarding during periods of reduced symptoms	
Requesting specific drugs	Openly acquiring similar drugs from other medical sources	
Unsanctioned dose escalation or other noncompliance with therapy on I or 2 occasions	Unapproved use of the drug to treat another symptom	
Reporting psychic effects not intended by the clinician	Resistance to a change in therapy associated with "tolerable" adverse effects with expressions of anxiety related to the return of severe symptoms	



Helpful Mnemonics: Follow-Up

- Four As
 - -Analgesia
 - -Adverse side effects
 - -Activities of daily living
 - -Aberrant behavior



Principles of Pain Management (cont'd) Consider expert consultation if: Uncertainty about diagnosis Specialized treatment (eg, nerve block) is indicated Unable to achieve pain and functional goals Discomfort with opioid therapy in person with a history of substance abuse Evidence suggests opioid misuse/abuse Several treatments/combinations tried without success

Conclusion

- Evaluate/adopt personalized "step approach" to pain assessment/management (eg, HAMSTER)
- Identify pain tools that work for your practice
- Set realistic, achievable goals in pain reduction
- Comprehensive management should include combination of nonpharmacologic/pharmacologic therapy
- Seek to minimize specialist referrals, only for times when absolutely necessary

Painweek.

References

- Ad Hoc Committee on Medical Ethics. (1984). American College of Physicians Ethics Manual. Annals of Internal Medicine, 101, 129-137, 263-274
- American Pain Society. Chronic Pain in America: Roadblocks to Relief. 1999. Available at http://www.ampainsoc.org/links/roadblocks/summary1_road.htm. Accessed July 24, 2009
- Baglan, S., et al. "AB1243-HPR The Relationship Between Kinesiophobia and Pain, Physical Activity, Depression, Fatique, Disease Activity and Quality of Life in Patients with Systemic Lupus Erythematosus." Annals of the Rheumatic Diseases 74.Suppl 2 (2015): 1350-1350
- Baranoff, J., et al. "Acceptance as a process variable in relation to catastrophizing in multidisciplinary pain treatment." European Journal of Pain17.1 (2013): 101-110
- Bean WB (ed): Sir William Osler: Aphorisms From His Bedside Teachings and Writings Collected by Robert Bennett Bean, M.D. New York, Henry Schuman Inc, 1950
- Brown RL, Rounds LA. Conjoint screening questionnaires for alcohol and other drug abuse: criterion validity in a primary care practice. Wis Med J. 1995; 94: 135-40 Available at: <u>http://www.ncbi.nlm.nih.gov/pubmed/7778330</u>



References (cont'd)

- Brunelli, Cinzia, et al. "Comparison of numerical and verbal rating scales to measure pain exacerbations in patients with chronic cancer pain." Health and quality of life outcomes 8.1 (2010): 1
- Carr DB, Goudas LC. Acute pain. Lancet. 1999;353:2051-2058
- Chou, Roger, et al. "Diagnosis and treatment of low back pain: a joint clinical practice guideline from the American College of Physicians and the American Pain Society." Annals of internal medicine 147.7 (2007): 478-491
- Clinical preventive service recommendation: depression. American Academy of Family Physicians. <u>http://www.aafp.org/patient-care/clinical-recommendations/all/depression.html</u> Accessed July 14, 2015
- Delgado-Guay MO, Bruera E. "Multidimensional patient assessment." Textbook of Palliative Medicine and Supportive Care (2015): 323
- DeLuca A. Chronic Pain in America: Roadblocks to relief. 2001. Available at <u>http://www.doctordeluca.com/Library/Pain/ChronicPainRoadblocks.htm</u>. Accessed July 24, 2009

Painweek.

References (cont'd)

- C, Bennett DS, Hagen JE, Passik SD. Initial development of a survey tool to detect issues of chemical coping in chronic pain patients. Palliat Support Care. 2007;5:219-226
- Ewing JA. Detecting alcoholism: the CAGE questionnaire.J Am Med Assoc (1984) 252:1905– 7. doi:10.1001/jama.252.14.1905
- Fishman, Scott M., et al. "Core competencies for pain management: results of an interprofessional consensus summit." Pain Medicine 14.7 (2013): 971-981
- Gordon DB, Dahl JL, Miaskowski C, et al. American Pain Society Recommendations for Improving the Quality of Acute and Cancer Pain Management: American Pain Society Quality of Care Task Force. Arch Intern Med. 2005;165(14):1574-1580. doi:10.1001/archinte.165.14.1574
- Gourlay, Douglas L., Howard A. Heit, and Abdulaziz Almahrezi. "Universal precautions in pain medicine: a rational approach to the treatment of chronic pain." Pain Medicine 6.2 (2005): 107-112
- http://diginole.lib.fsu.edu/islandora/object/fsu%3A207738/datastream/PDF/view. Accessed March 13, 2016



References (cont'd)

- http://www.iasp-pain.org/Taxonomy#Peripheralneuropathicpain. Accessed March 12, 2016
- http://www.pearsonclinical.com/psychology/products/100000095/battery-for-healthimprovement-2-bhi-2.html
- http://www.sf-36.org/tools/sf36.shtml, accessed March 12, 2016
- Huth EJ, Murray TJ (eds): Medicine in Quotations: Views of Health and Disease Through the Ages. Philadelphia, American College of Physicians, 2000
- IASP, http://www.iasppain.org/Education/Content.aspx?ItemNumber=1698&navItemNumber=576#Pain. 2011
- IOM. Relieving pain in America: A blueprint for transforming prevention, care, education and research. Washington, DC: The National Academics Press; 2011

Painweek.

References (cont'd)

- Kirsh KL, Jass Kwon, Jung Hye, David Hui, and Eduardo Bruera. "A Pilot Study To Define Chemical Coping in Cancer Patients Using the Delphi Method." Journal of palliative medicine 18.8 (2015): 703-706
- Lentz Ta. Pain-Related Fear Contributes To Self-Reported Disability In Patients With Foot And Ankle Pathology. Archives of Physical Medicine and Rehabilitation. 2010;91:557-561
- Moriarty, Andrew Stephen, et al. "Screening and case finding for major depressive disorder using the Patient Health Questionnaire (PHQ-9): a meta-analysis." General hospital psychiatry 37.6 (2015): 567-576
- O'Brien, Charles P. "The cage questionnaire for detection of alcoholism." JAMA 300.17 (2008): 2054-2056
- O'Rorke JE, Chen I, Genao I, et. al. Physicians' comfort in caring for patients with chronic nonmalignant pain. Am J Med Sci. 2007;333(2):93-100
- Passik SD, Kirsh KL, Casper D. Addiction-related assessment tools and pain management: instruments for screening, treatment planning and monitoring compliance. Pain Med. 2008; 9: S145-S166



References (cont'd)

- Peppin, John F., et al. "The complexity model: a novel approach to improve chronic pain care." Pain Medicine 16.4 (2015): 653-666
- Peppin, J.F., Passik S. D., Couto, J.E., Fine, P.G., Christo P.J., Argoff C. Aronoff, G.M., Bennett, D. Cheatle, M.D., Slevin K.A. & Goldfarb, N.I. (2012).
 Recommendations for Urine Drug Monitoring as a Component of Opioid Therapy in the Treatment of Chronic Pain. Pain Medicine. 13:886-896
- Pizzo, Philip A., and Noreen M. Clark. "Alleviating suffering 101—pain relief in the United States." New England Journal of Medicine 366.3 (2012): 197-199
- Quartana PJ, Campbell CM, Edwards RR. Pain catastrophizing: a critical review. Expert review of neurotherapeutics. 2009;9(5):745-758. doi:10.1586/ERN.09.34
- Rowbotham MC. Mechanisms of neuropathic pain and their implications for the design of clinical trials. Neurology. 2005;65(Suppl 4). S66-S73
- Siu, Albert L., et al. "Screening for depression in adults: US Preventive Services Task Force recommendation statement." JAMA 315.4 (2016): 380-387

Painweek.

References (cont'd)

- Sullivan MJ, Bishop SR, Pivik J. The Pain Catastrophizing Scale: development and validation. Psychol Assess. 1995;7:524–532
- Tan, Gabriel, et al. "Validation of the Brief Pain Inventory for chronic nonmalignant pain." The Journal of Pain 5.2 (2004): 133-137
- Thase, Michael E. "Recommendations for Screening for Depression in Adults." JAMA 315.4 (2016): 349-350
- Upshur CC, Luckmann RS, Savageau JA. Primary care provider concerns about management of chronic pain in community clinic populations. J Gen Intern Med. 2006;21(6):652-655
- van Dijk, Jacqueline FM, et al. "Postoperative pain assessment based on numeric ratings is not the same for patients and professionals: a cross-sectional study." International journal of nursing studies 49.1 (2012): 65-71
- Verhaak, Peter FM, et al. "Prevalence of chronic benign pain disorder among adults: a review of the literature." Pain 77.3 (1998): 231-239

