

# PainWeek<sup>®</sup>

## Chronic Pain Assessment

---

Michael R. Clark, MD, MPH, MBA

---

Michael R. Clark, MD, MPH, MBA

Chair, Psychiatry & Behavioral Health

Inova Health System

Falls Church, VA

Professor, Psychiatry and Behavioral Sciences

George Washington University School of Medicine and Health Sciences

Washington, DC

# Disclosure

---

- Nothing to disclose

# Learning Objectives

---

- Compare different pain rating scales
- Describe a comprehensive stepwise approach to the assessment and follow-up of patients with chronic pain
- Identify support tools available to the primary care clinician managing a patient with chronic pain

*American Pain Foundation, 2007; <http://www.painfoundation.org>*

# 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*

# The Need for “Good” Treatment

---

- Patients with chronic pain suffer dramatic reductions in physical, psychological, and social well being with Health Related Quality of Life rated lower than those with almost all other medical conditions
- Considerable variability in the type of practitioners and scope of practice of “multidisciplinary” pain clinics
- Evidence-based practice guidelines emphasize interdisciplinary rehabilitation, integrated treatment, and patient selection criteria
- Interdisciplinary pain rehabilitation programs provide a full range of treatments for the most difficult pain syndromes within a framework of collaborative ongoing communication

# Inadequate Preparation and Training

---

- Healthcare professionals receive nominal training
  - “...Available evidence indicates that pain management training is widely inadequate across all disciplines.” (Fishman, 2013)
  - Few PCPs feel comfortable treating pain; fewer feel comfortable using opioids (Upshur, 2006; O’Rourke, 2007)
    - Becoming worse as draconian legislation is enacted

# 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 co-morbidities
- 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
- 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

*Peppin, et., al., 2015*

# 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

# 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?

# 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

# Helpful Mnemonics: Overall Format

---

- HAMSTER
  - HISTORY
  - ASSESSMENT
  - MECHANISM of pain
  - SOCIAL and psychological factors
  - TREATMENT
  - EDUCATION
  - REASSESSMENT

# Helpful Mnemonics: HPI

---

- L-DOC-SARA

- Location

- Duration

- Onset

- Characteristic

- Severity and pain goal

- Aggravating factors

- Relieving factors

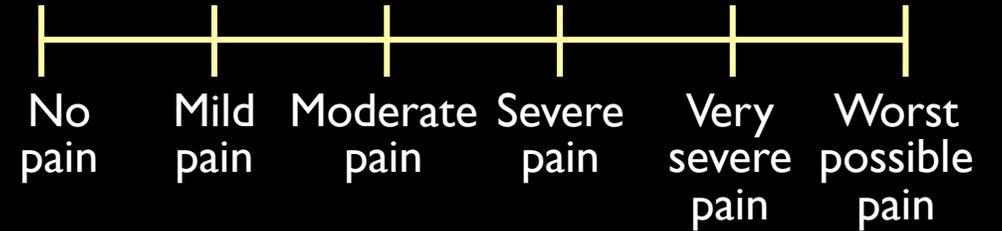
- Associate symptoms

# Unidimensional Pain Assessment Tools

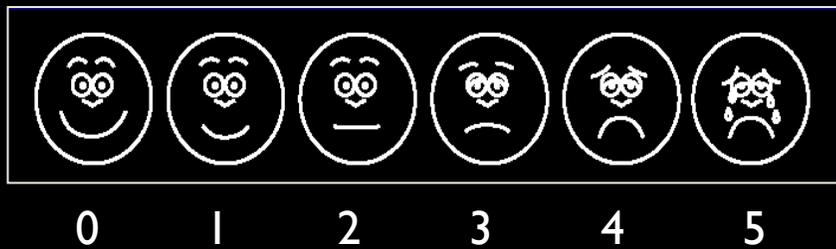
Visual Analog Scale<sup>1</sup>



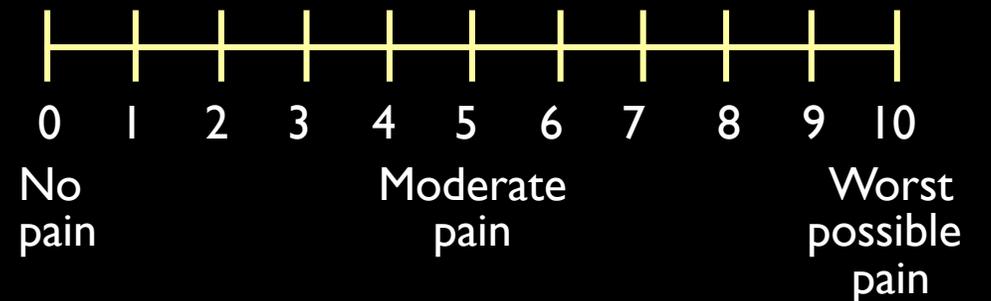
Verbal Pain Intensity Scale<sup>1</sup>



Wong-Baker Faces Scale<sup>2</sup>



0–10 Numeric Pain Intensity Scale<sup>3</sup>



1. Kremer E, et al. *Pain*. 1981;10:241-248

2. Bieri D, et al. *Pain*. 1990;41:139-150

3. Farrar JT, et al. *Pain*. 2001;94:149-158

# Psychological Assessment: General

---

- Evaluate for depression, anxiety, suicidal ideation, sexual abuse, addiction, cognitive impairment
- Screens find cases but do not make diagnoses
  - Help place patients in risk category
  - Patient Health Questionnaire (PHQ-9)
    - Thase, 2016; Moriarty, 2015; Siu, 2016
    - USPSTF recommended (AHRQ)
  - Skeptical psychometrics
  - Multiple scales
    - Beck Depression Inventory
    - Hamilton Rating Scale
    - Zung Self-Rating Scale

# 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

# 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)

# Substance Use Disorder

---

- Screen to indicate need for evaluation (O'Brien, 2008)
- CAGE (Ewing, 1984)
  - Have you ever felt you should **C**ut down on your drinking?
  - Have people **A**nnoyed you by criticizing your drinking?
  - Have you ever felt bad or **G**uilty about your drinking?
  - Have you ever had a drink first thing in the morning to steady your nerves or get rid of a hangover? (**E**ye 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](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.”

# 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)

# 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/islandora/object/fsu%3A207738/datastream/PDF/view>

# Aberrant Drug-Taking Behaviors

| Probably <u>More</u> Predictive of Addiction  |   |
|---|---|
| Selling prescription drugs  | Prescription forgery  |
| Stealing or “borrowing” drugs   | Injecting oral formulations   |
| Obtaining prescription drugs from nonmedical sources  | 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 clinicians or from emergency departments without informing prescriber or after warnings to desist | Evidence of deterioration in the ability to function at work, in the family, or socially that appears to be related to drug use |
| Repeated resistance to changes in therapy despite clear evidence of adverse physical or psychological effects from the drug                   |   |

# Aberrant Drug-Taking Behaviors

| Probably <u>Less</u> 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 1 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 |

Portenoy RK. *J Pain Symptom Manage.* 1996;11:203-217

# Reassessment: Key to Treatment Efficacy

---

- Consistent reassessment is critical
  - Upfront time investment worth the effort
    - Shortens subsequent visits
  - But still reassessment should include:
    - Treatment efficacy, goals, medication side effects, QOL, etc
      - Address appropriate medication usage
      - Re-review medications, OTC, prescription, supplements
      - Other medical problems that may have surfaced since last visit
      - Readdress psychological health
      - Readdress functionality
      - Other
    - Physical examination

# Helpful Mnemonics: Follow-Up

---

- **Four As**

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

# Principles of Pain Management

---

- Individualize pain management
- Assess and treat disability and physical, psychosocial, and psychological comorbidities<sup>1,2</sup>
- Select simplest approach using multimodal therapy (pharmacologic and nonpharmacologic)<sup>1,2</sup>

# Principles of Pain Management

---

- 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

# 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](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, Fatigue, 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 Pain* 17.1 (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: <http://www.ncbi.nlm.nih.gov/pubmed/7778330>
- 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. <http://www.aafp.org/patient-care/clinical-recommendations/all/depression.html>  
Accessed July 14, 2015

# References (cont'd)

---

- 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 <http://www.doctordeluca.com/Library/Pain/ChronicPainRoadblocks.htm>. Accessed July 24, 2009
- 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
- Gurlay, 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
- <http://www.iasp-pain.org/Taxonomy#Peripheralneuropathicpain>. Accessed March 12, 2016
- <http://www.pearsonclinical.com/psychology/products/100000095/battery-for-health-improvement-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.iasp-pain.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
- Kirsh KL, Jass 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

# References (cont'd)

---

- 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
- 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
- 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