Multi-dimentional Pain Assessment and Psychosocial Interventions

MiCCSI

David A. Williams, Ph.D.

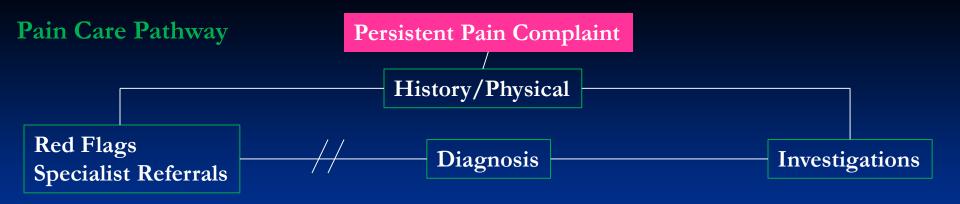
President, American Pain Society
Professor of Anesthesiology, Medicine, Psychiatry and Psychology
Associate Director, Chronic Pain and Fatigue Research Center
Director, Research Development, Michigan Institute for Clinical Health Research
University of Michigan Medical Center
Ann Arbor, Michigan

Disclosures

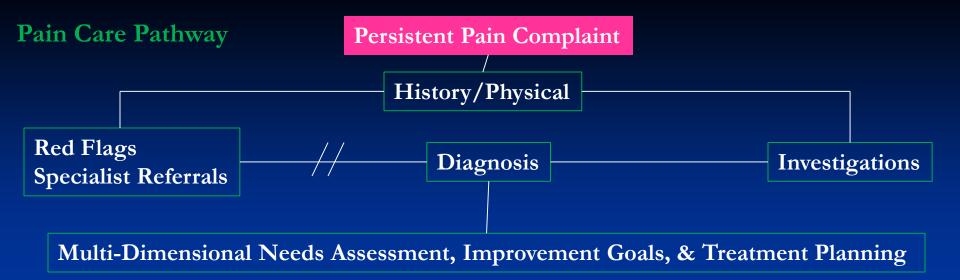
- Consultant to Community Health Focus Inc.
- President of the American Pain Society
- Chair of Steering Committee reviewing grants for APS sponsored by Pfizer
- Funded for research by NIH

There will be no use of off-label medications in this presentation.

Persistent Pain Complaint



- 65 y/o Female
- Retired
- R-KOA
- Possible FM



- 65 y/o Female
- Retired
- R-KOA
- Possible FM

What medications is she on?

What is the intensity and distribution of pain? Is she sleeping well?

Is she happy to be retired? Anxious?

What does she do during the day

now that she's retired?

Who does she enjoy being with?

What can't she accomplish?

Traditional Pain Assessment

Pain
Intensity
Location, Quality
Distribution
Temporality

Intensity

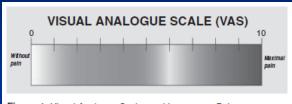
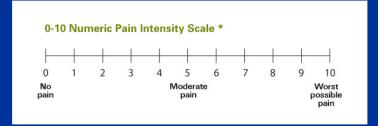
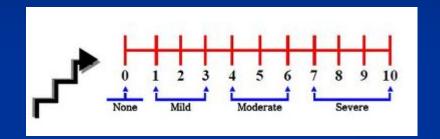


Figure 1. Visual Analogue Scale used to measure Pain.



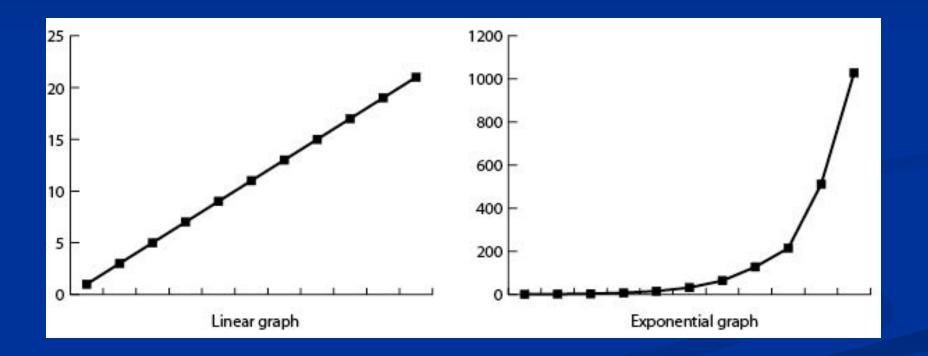
Verbal Rating Scale: Discomfort Rating

- 0- Pain or Discomfort none
- 1- Pain or Discomfort I am aware of it, I think about it
- 2- Pain or Discomfort I am aware of it, I think about it but I can ignore it at times.
- 3- Pain or Discomfort I can't ignore it, but I can do my usual activities.
- 4- Pain or Discomfort It is difficult for me to concentrate; I can only do easy activities.
- 5- Pain or Discomfort Such that I cant do anything.





Psychophysical events like sensory perception and pain follow exponential curves



0-10 point NRS for pain

CCT

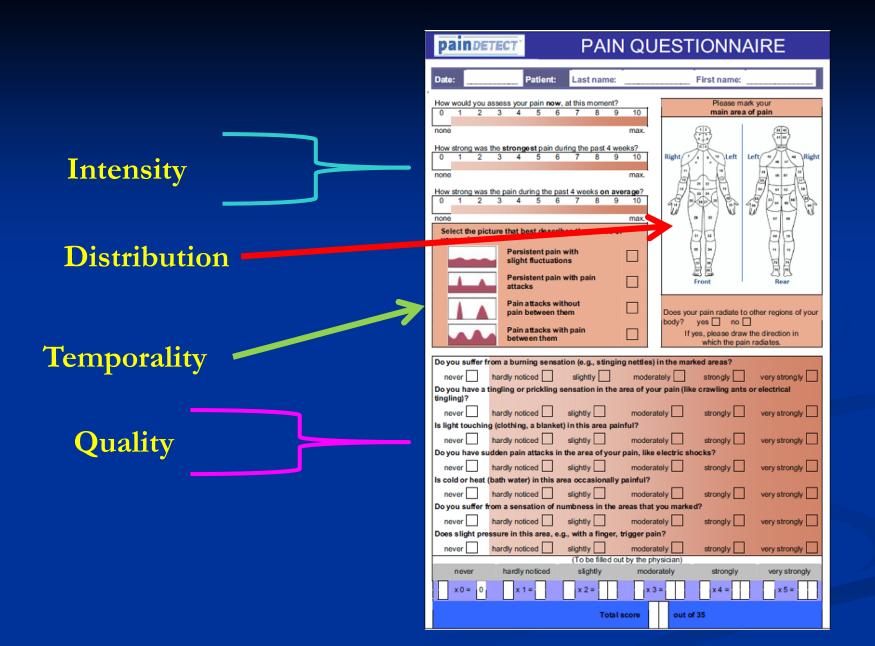




Brief Pain Inventory

			Brie	ef Pain	Invent	tory (S	hort Fo	rm)	
		lives, mos ve you had							headaches, sprains, and
Yes	□No								
2. On the d	il agram, (shade in t	he areas	where yo Front	u feel pal	n. Putan	X on the Back	area that	hurts the most.
						2	$\overline{}$	N	
								_	
3. Please in the	rate you last 24 h	r pain by i ours.	marking t	he box b	eside the	number t	hat best o	lescribes	your pain at its worst
0 No Pain	1	2	3	_4	_ 5	<u>6</u>	7	8	9 10 Pain As Bad As You Can Imagine
		ur pain b st 24 hou		ig the bo	x beside	the nun	nber that	best des	scribes your pain at its
□ 0 No Pain	<u></u> 1	2	_3	<u>4</u>	_5	<u>6</u>	_7	8	9 10 Pain As Bad As You Can Imagine
5. Please	rate you	r pain by I	marking t	he box b	eelde the	number t	hat best d	escribes	your pain on the average.
□ 0 No Pain	_1	<u>2</u>	3	_4	_ 5	□ 6	7	8	9 10 Pain As Bad As You Can Imagine
6. Please	rate you	r pain by i	marking t	he box b	eelde the	number t	hat tells h	ow much	pain you have right now.
□ 0 No Pain	_ 1	2	3	4	<u>5</u>	□ 6	7	8	9 10 Pain As Bad As You Can Imagine

7. W	at treatr	nents or n	natierion	s are you	receivin	g for you	r pain?			
8. In t	the last 2 k the bo	4 hours, l x below t	how much ne percent	relief ha tage that	ve pain tr most sho	eatments ws how r	or medic nuch reli	ations pr ef you ha	ovided? P we receiv	lease ed.
0% No Relief	10%	20%	30%	40 %	50%	60%	70%	80%	90%	100% Complete Relief
	rk the bo h your:	x beside t	he number	that deed	ribes how	v, during t	he past 24	hours, pa	in has inte	benefine
A. G	_t 🗀 1	Activity	_3	4	<u></u> 5	□ 6	7	8	9	10 Completely Interferes
B. M 0 Does No Interfere	, 🗆 1	_2	□3	4	□5	□ 6	□ 7	□8	9	10 Completely Interferes
C. W		ability	□ 3	4	□5	□ 6	□ 7	□8	□9	10 Completely Interferes
D. N 0 Does No Interfere	_t 🗀 1	Work (inc	ludes b	oth wor	k outsid 5	e the ho	me and	housew 8	ork) 9	10 Completely Interferes
E. R	_t 🗆 1	s with ot	her peop	ole □ 4	□ 5	□ 6	□ 7	□8	9	10 Completely Interferes
F. S 0 Does No Interfere	, D1		_3	4	□ 5	□ 6	7	□8	9	10 Completely Interferes
G. E 0 Does No Interfere	t 🗆 1	ent of life	_3	4	<u></u> 5	□ 6	7	8	<u> </u>	10 Completely Interferes



Freynhagen R, Baron R, Gockel U, Tolle TR. painDETECT: a new screening questionnaire to identify neuropathic components in patients with back pain. Current medical research and opinion 2006;22:1911-20.

EMA Pain

Ex: Pain Diary

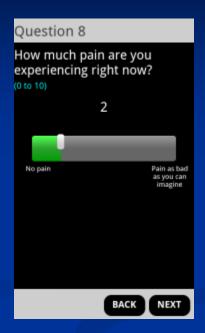
MONITORING PAIN DIARY

Instructions:

- 1. Keep a record of any pain you experience during any of the following periods with a 7 day diary.
- 2. Record how intense your pain was by rating it on a scale of 1 to 10 (1=not very painful to 10=highly painful).
- 3. Record what you were doing or the situation you were in when you experienced the pain.
- 4. Record your thoughts at the time of experiencing the pain.

This will help you to develop more awareness about your experiences of physical pain to help you identify strategies and techniques to help manage pain.

DAY	Brief description of type of pain	RATE 1-10	Situation/What you were doing	What you were thinking at the time
Monday				
Tuesday				
Wednesday				
Thursday				
Friday				
Saturday				
Sunday				

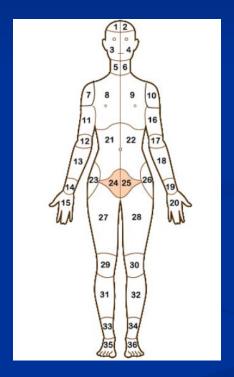


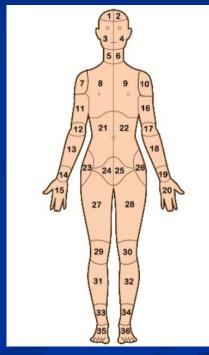


Focal vs Wide-Spread Pain

- Body Maps
- Assess for local Vs.Wide-spread pain
- In IC, only 19% focal







Domains of Pain Assessment



Common Characterization

- Demographics
- Family History
- Diagnostics
 - Specific to the complaint
 - COPCs
 - Substances
 - Opioids and opioids follow-up (phone)
 - Benzodiazepine
 - Cannabis
 - Concomitant Medications

Medical History

- Demographics
- Co-morbid medical conditions
- Current Treatments
- Medical History
- Family History

Sleep

- Sleep Disturbances
 - PROMIS¹
 - \bullet MOS²
 - PSQI³
- Sleep-related Impairment
 - PROMIS¹

Dyscognition

- Perceived Problems
 - MASQ⁴
 - MISCI⁵

Fatigue

- Multidimensional Fatigue
 - MFI⁶
 - PROMIS¹

Polysomatic Burden

- \bullet PILL⁷
- CMSI⁸
- FMness⁹
- \bullet CSI¹⁰

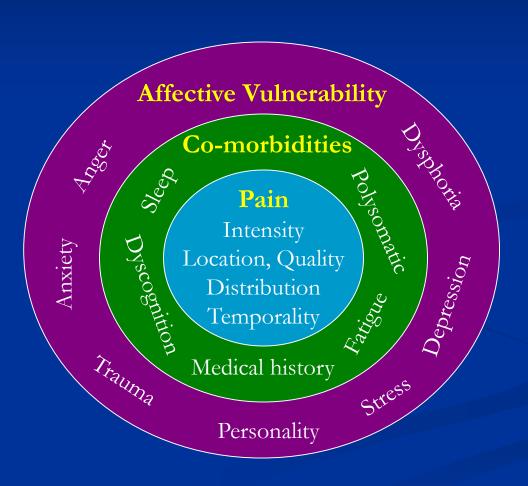
Sleep: ¹Cella D, et al. The Patient-Reported Outcomes Measurement Information System (PROMIS) developed and tested its first wave of adult self-reported health outcome item banks: 2005-2008. J Clin Epidemiol. 2010;63(11):1179-94. ²Allen RP, et al. Psychometric evaluation and tests of validity of the Medical Outcomes Study 12-item Sleep Scale (MOS sleep). Sleep medicine. 2009;10(5):531-9. ³Buysse,D.J. et al. (1989). The Pittsburgh Sleep Quality Index (PSQI): A new instrument for psychiatric research and practice. Psychiatry Research, 28(2), 193-213. The detailed scoring instructions are at the end of this journal article.

Dyscognition: ⁴Seidenberg M. et al. Development and validation of a Multiple Ability Self-Report Questionnaire. Journal of Clinical & Experimental Neuropsychology. 1994;16(1):93-104.; ⁵Kratz AL, et al. Development and Initial Validation of a Brief Self-Report Measure of Cognitive Dysfunction in Fibromyalgia. The J Pain, 2015.

<u>Fatigue:</u> ⁶Smets EM, et al. The Multidimensional Fatigue Inventory (MFI) psychometric qualities of an instrument to assess fatigue. Journal of Psychosomatic Research 1995;39:315-25.

Polysomatic burden: ⁷Pennebaker JW. The psychology of physical symptoms. New York, New York: Springer-Verlag; 1982.; ⁸Williams DA, et al. Advances in the assessment of fibromyalgia. Rheum Dis Clin North Am 2009;35:339-57.; ⁹Wolfe F, et al. Fibromyalgia criteria and severity scales for clinical and epidemiological studies: a modification of the ACR Preliminary Diagnostic Criteria for Fibromyalgia. J Rheumatol 2011;38:1113-22. ¹⁰Mayer TG, et al. The development and psychometric validation of the central sensitization inventory. Pain practice 2012;12(4):276-85.

Domains of Pain Assessment



Affect and Chronic Pain

IASP Definition of Pain:

An unpleasant *sensory and emotional* experience associated with actual or potential tissue damage or described in terms of such damage¹

Affective Vulnerability:

Highly predictive of first onset of chronic pain (e.g., TMD).²

Neuroimaging Findings:

Compared to acute pain, chronic pain appears more like an emotional event than a sensory event.^{3,4}

¹IASP Pain Terminology. International Association for the Study of Pain Website. http://www.iasp-pain.org/AM/Template.cfm?Section=Pain_ Definitions&Template=/CM/HTMLDisplay.cfm&ContentID=1728#Pain. Updated 2007. Accessed January 6, 2011; 2 Fillingim et al, Psychological factors associated with development of TMD: the OPPERA prospective cohort study. J Pain, 14(12 supp2), 2013:T75-T90; ³Hashmi JA, et al, Shape shifting pain: chronification of back pain shifts brain representation from nociceptive to emotional circuits. Brain ,2013;136(Pt 9):2751-68; ⁴Denk F, McMahon SB, Tracey I. Pain vulnerability: a neurobiological perspective. Nature neuroscience. 2014;17(2):192-200.

Negative Affect

- Depression/Dysphoria
 - CES-D¹
 - PHQ-9²
 - PROMIS³
- Anxiety
 - STAI⁴
 - GAD-7⁵
 - PROMIS³

Anger

- STAXI⁶
- PROMIS³

Trauma/Stress

- Trauma
 - CTES/RTES⁷
- Stress
 - PSS^8

Personality

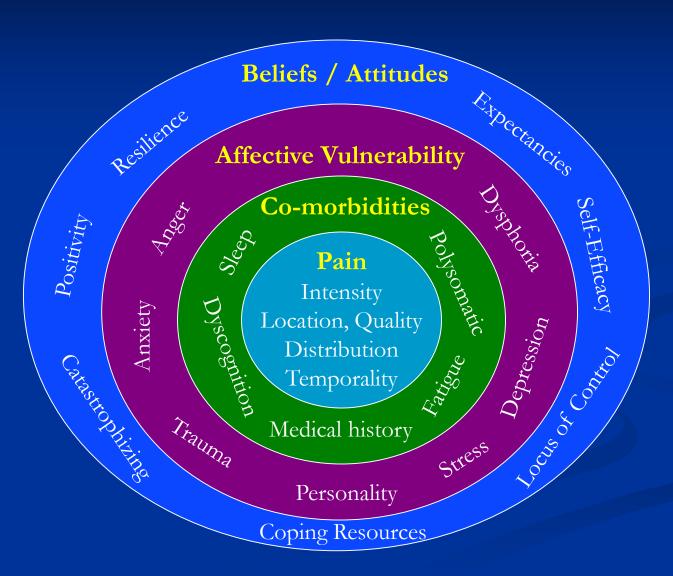
- 5 Factor Model
 - Neuroticism
 - Extroversion
 - Openness
 - Conscientiousness
 - Agreeableness
- IPIP⁹
- TIPI¹⁰

Negative Affect: ¹Radloff LS. The CES-D Scale: A self-report depression scale for research in the general population. Applied Psychological Measurement 1977;1:385-401. ²Kroenke K, et al. The PHQ-9: validity of a brief depression severity measure. JGenInternMed. 2001;16(9):606-13. ³Cella D, et al. The Patient-Reported Outcomes Measurement Information System (PROMIS) developed and tested its first wave of adult self-reported health outcome item banks: 2005-2008. J Clin Epidemiol. 2010;63(11):1179-94. ⁴Spielberger CD, et al. Assessment of state and trait anxiety. Anxiety: psychobiological and clinical perspectives. Washington: Hemisphere/Taylor and Francis; 1991:69-83. ⁵Spitzer RL et al. A brief measure for assessing generalized anxiety disorder: the GAD-7. Archives of internal medicine. 2006;166(10):1092-7. ⁶Spielberger CD. STAXI-2: State-Trait Anger Expression Inventory - 2. Professional Manual. Odessa, FL: Psychological Assessment Resources (PAR), Inc.; 1999.

<u>Trauma</u>: ⁷Pennebaker JW, et al. Disclosure of traumas and psychosomatic processes. SocSciMed. 1988;26(3):327-32.; ⁸Cohen S, et al. A global measure of perceived stress. JHealth SocBehav. 1983;24(4):385-96.

<u>Personality</u>: ⁹Goldberg, L. R., et al. (2006). The International Personality Item Pool and the future of public-domain personality measures. Journal of Research in Personality, 40, 84-96.; ¹⁰Gosling, S. D., et al. (2003). A Very Brief Measure of the Big Five Personality Domains. Journal of Research in Personality, 37, 504-528.

Domains of Pain Assessment



Pain Beliefs

- Multi-component
 - SOPA¹
 - PBPI²
 - BBCA³
- Locus of Control
 - $BPCQ^4$

Coping Resources

- Coping Strategies
 - CSQ⁵
 - CPCI⁶
- Catastrophizing
 - \bullet PCS⁷
- Self-Efficacy
 - PSE⁸

Expectancies

- Treatment Expectancy and credibility
 - TEC⁹

Beliefs: ¹Jensen MP, et al. Relationship of pain-specific beliefs to chronic pain adjustment. Pain. 1994;57(3):301-9.; ²Williams DA. et al., Pain beliefs: Assessment and utility. Pain. 1994;59(1):71-8. ³Jensen MP, et al. One- and two-item measures of pain beliefs and coping strategies. Pain. 2003;104(3):453-69. ⁴Skevington SM. A standardized scale to measure beliefs about controlling pain (BPCQ): A preliminary study. Psychology and Health 1990;4:221-32.

Coping: ⁵Rosenstiel AK, Keefe FJ. The use of coping strategies in chronic low back pain patients: Relationship to patient characteristics and current adjustment. Pain 1983;17:33-44; ⁶Jensen MP, et al. The Chronic Pain Coping Inventory: development and preliminary validation. Pain. 1995;60(2):203-16. ⁷Sullivan M, et al.. The Pain Catastrophizing Scale: Development and validation. Psychological Assessments 1995;7:524-32. ⁸Lorig K, et al. Development and evaluation of a scale to measure perceived self-efficacy in people with arthritis. Arthritis & Rheumatism 1989;32:37-44.

Expectancies: ⁹Smeets RJ, et al,. Treatment expectancy and credibility are associated with the outcome of both physical and cognitive-behavioral treatment in chronic low back pain. The Clinical journal of pain. 2008;24(4):305-15.

Resilience and Positive Affect

- Positive/Negative Affect
 - PANAS¹
- Affect Balance²
- Hardiness
- Grit
 - Short Grit Scale^{3,4}
- Optimism
- Determination/courage

- Satisfaction with life
 - SWL⁵
- Benefit Finding
- Gratitude
- Forgiveness
- Subjective Well-being
 - SWBS⁶
 - PROMIS Affect/Well-being⁷
- Sense of Coherence

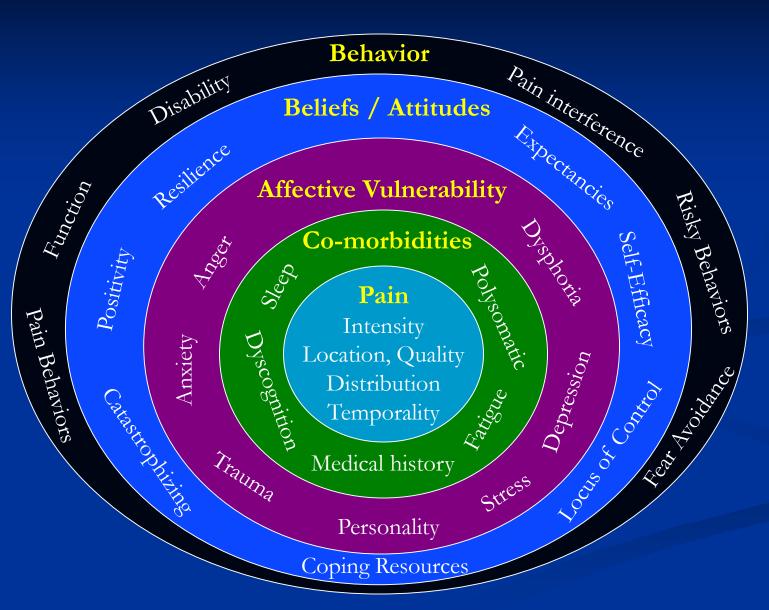
<u>Acceptance</u>

• CPAQ

Resilience and Positive Affect: ¹Watson D. et al. Development and validation of brief measures of positive and negative affect: The PANAS scales. Journal of Personality & Social Psychology 1988;54:1063-70. ²Hassett AL, et al. The relationship between affect balance style and clinical outcomes in fibromyalgia. Arthritis and Rheumatism. 2008;59(6):833-40. ³Duckworth AL, et al. Grit: perseverance and passion for long-term goals. *Journal of personality and social psychology*. Jun 2007;92(6):1087-1101. ⁴Duckworth AL, et al. Development and validation of the short grit scale (grit-s). *Journal of personality assessment*. Mar 2009;91(2):166-174. ⁵Diener E, et al. The Satisfaction With Life Scale. *Journal of personality assessment*. Feb 1985;49(1):71-75. ⁶Diener E. *Assessing Well-Being*: *The Collected Works of Ed Diener*. New York: Springer; 2009. ⁷Cella D, et al. The Patient-Reported Outcomes Measurement Information System (PROMIS) developed and tested its first wave of adult self-reported health outcome item banks: 2005-2008. J Clin Epidemiol. 2010;63(11):1179-94

<u>Acceptance</u>: Fish RA, et al. Validation of the chronic pain acceptance questionnaire (CPAQ) in an Internet sample and development and preliminary validation of the CPAQ-8. Pain. 2010;149(3):435-43.

Domains of Pain Assessment



Functioning

- Multidimensional Functioning
 - SF-36¹
 - WHO-DAS 2.0²
- Pain Interference
 - BPI³ (interference)
- Disability
 - PDI^4

Pain Behaviors

• PROMIS⁵

Health Risk Behaviors

- Smoking⁷
- Alcohol⁸
- Recreational drugs⁹

Fear Avoidance

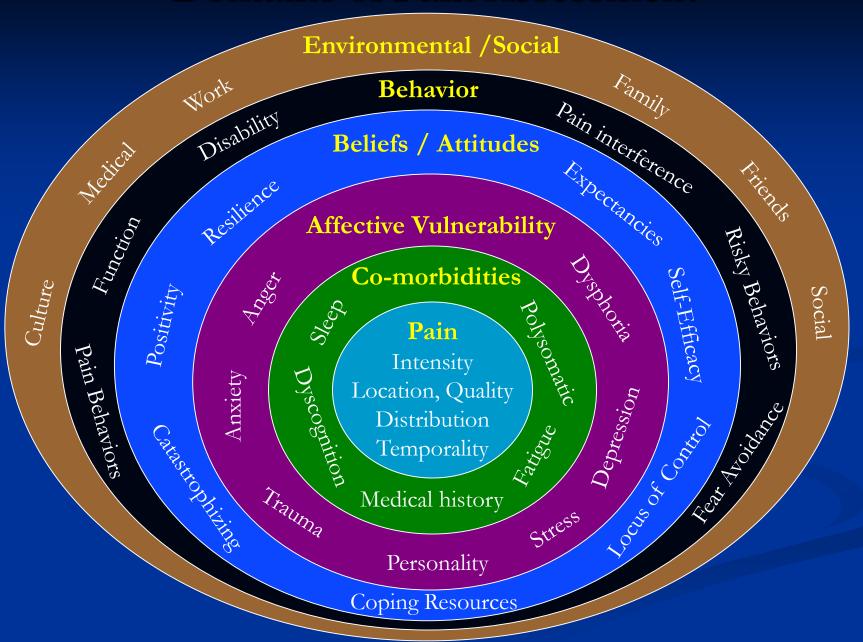
• TSK⁶

Functional Status: ¹Ware JE, et al. How to Score Version Two of the SF-36r Health Survey. Lincoln, RI: QualityMetric, Inc.; 2000. ²World Health Organization. Measuring health and disability: manual for WHO disability assessment schedule (WHODAS 2.0), World Health Organization, 2010, Geneva. ³Cleeland C. The Brief Pain Inventory: User Guide. Houston, TX: MD Anderson Cancer Center; 2009. ⁴Tait RC, et al. The Pain Disability Index: Psychometric properties. Pain. 1990;40(2):171-82.

Pain Behaviors and Fear Avoidance: ⁵Revicki DA, et al. Development and psychometric analysis of the PROMIS pain behavior item bank. Pain. 2009;146(1-2):158-69. ⁶ Burwinkle, T., et al. (2005). Fear of movement: factor structure of the Tampa Scale of Kinesiophobia in patients with fibromyalgia syndrome. The Journal of Pain, 6(6), 384-391.

<u>Health Risk Behaviors</u>: ⁷Heatherton TF, et al. The Fagerstrom Test for Nicotine Dependence: A revision of the Fagerstrom Tolerance Questionnaire. British Journal of Addiction. 1991;86(9):1119-27. ⁸Ewing JA. Detecting alcoholism. The CAGE questionnaire. JAMA, 1984;252(14):1905-7 ⁹Brown, R.L., and Rounds, L.A. Conjoint screening questionnaires for alcohol and drug abuse. *Wisconsin Medical Journal* 94:135-140, 1995.

Domains of Pain Assessment



Social

- Multicomponent Social Functioning
 - WHYMPI¹
- Social Enfranchisement
 - \bullet PE²

Family

- Dyadic Adjustment
 - DAS³

Work

- Work Productivity/Impairment
 - WPAI⁴

Social: ¹Kerns RD, Turk DC, Rudy TE. The West Haven-Yale Multidimensional Pain Inventory (WHYMPI). Pain 1985;23:345-56. ²Heinemann AW, Lai JS, et al. Measuring participation enfranchisement. Arch Phys Med Rehabil. 2011 Apr;92(4):564:71.

Family: ³Spanier GB. The measurement of marital quality. J Sex Marital Ther

<u>Work</u>: ⁴Reilly MC, Zbrozek AS, Dukes EM. The validity and reproducibility of a work productivity and activity impairment instrument. PharmacoEconomics 1993; 4(5):353-65.

Do we need to assess everything?



Do we need to assess everything?

Not necessarily all at once Assessment can be iterative over time



- 65 y/o Female
- Retired
- R-KOA
- Possible FM

Pain: Local OA

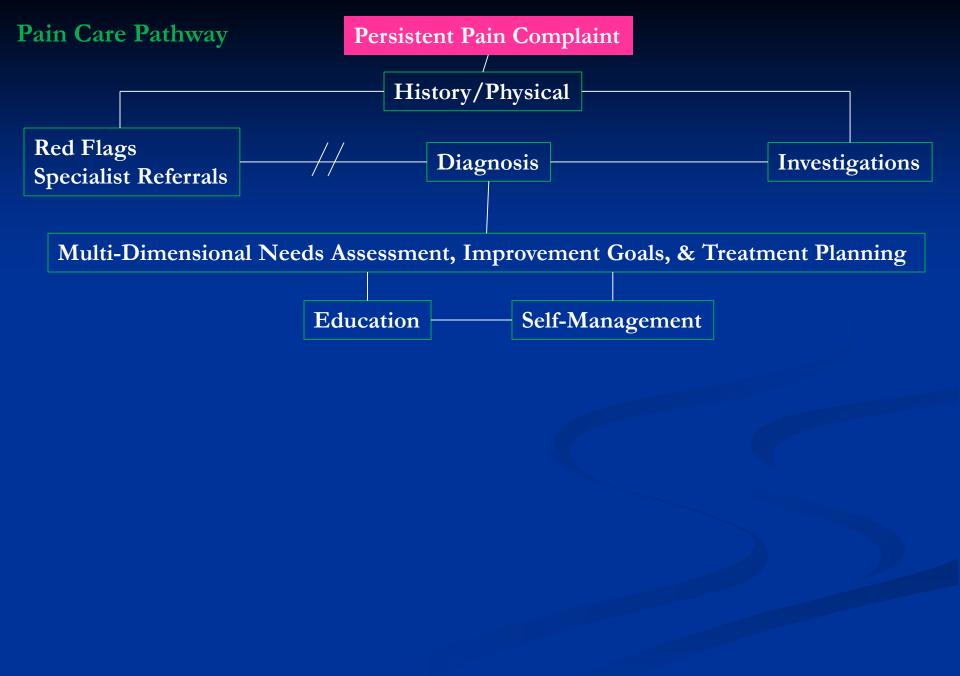
Pain: Widespread – HA, pelvic

Sleep is poor

Being retired makes her worried and anxious

Expectations: just a few opioids are ok, no counseling

7 years older husband is the primary social support



Self-Management is Supported by CBT, Fitness, and Education









Topics in Psychosocial Pain Interventions

Exercise/Energy, Reframing/Relaxation, Affect/Action, Sleep/Social, Education (ERASE)

E R **Goal Setting** Communication

ERASE

Exercise and Energy

 Multiple reviews and metaanalyses, and professional society guidelines recommend exercise and physical activity for the treatment of chronic pain and fatigue







"Many studies show that exercise will help your pain and fatigue.

I want you to start exercising."



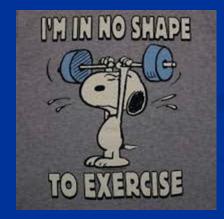
OK!!

More common responses



Silence







The are "you insane" stare



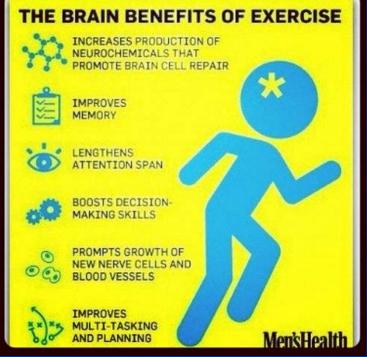
Resistance

Exercise needs to start with a patient-centric conversation

- Merits
- Barriers
- Motivation
- Rewards
- How to get started

Merits





Barriers



I'm too fatigued to exercise

Skinny people will laugh at me.

I'm too busy to exercise

I can't afford a gym membership

It's not fun

I hate sweat.

I'm in too much pain to exercise



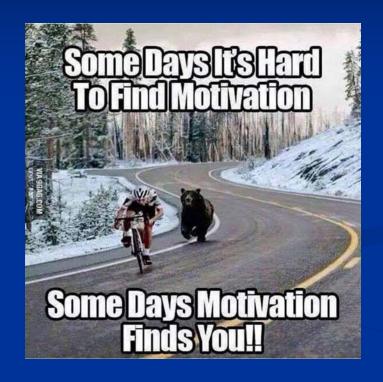
I don't live where I can exercise

I don't have any workout clothes

I have kids to drive around

No one will exercise with me.

Problem Solving, Motivation, and Rewards



EXERCISE IN THE MORNING BEFORE YOUR BRAIN FIGURES OUT WHAT YOU'RE DOING EXERCISING WOULD
BE SO MUCH MORE
REWARDING IF
CALORIES
SCREAMED WHILE
YOU BURNED THEM

Types of Physical Activity

Aerobic training

at moderate intensity can improve pain, fatigue, depressed mood and physical limitations

Strength training

may decrease pain, and depression, and improve overall wellbeing

Movement therapies

- ■Tai Chi improves balance, well-being, fitness and pain
- ■Yoga improves pain functioning, HRQOL

Hassett & Williams. Best Pract Res Clin Rheumatol 2011;25:299-309.; Hauser et al. Arthritis Res Ther 2010;12:R79.; Jones et al. Rheum Dis Clin North Am. 2009;35:373-91.; Arnold. Psychiatr Clin North Am. 2010;33:375-408. Peng. Reg Anes Pain Med 2012;37:372-82; Wang et al. N Engl J Med 2010;363:743-54; Haaz & Bartlett. Rheum Dis Clin North Am. 2011:37:33-46.; Langhorst et al. Rheumatol Int 2012 Epub. Ward et al. Musculoskeletal Care 2013;11:203-17.

Step Counts

- Activity trackers Fitbit (\$100) and pedometers can be found for as little as \$10.
- Every day beat the day before by 50 steps.
- Healthy: 10,000 steps a day
 - (18 1,900 steps in a mile)



Lifestyle Physical Activity







Aerobic Lifestyle Fitness



How should I do it?

- Follow the F.I.T.T. principle:
 - Frequency Number of days per week. (e.g., 3x per wk)
 - *I*ntensity How hard the activity feels to you.

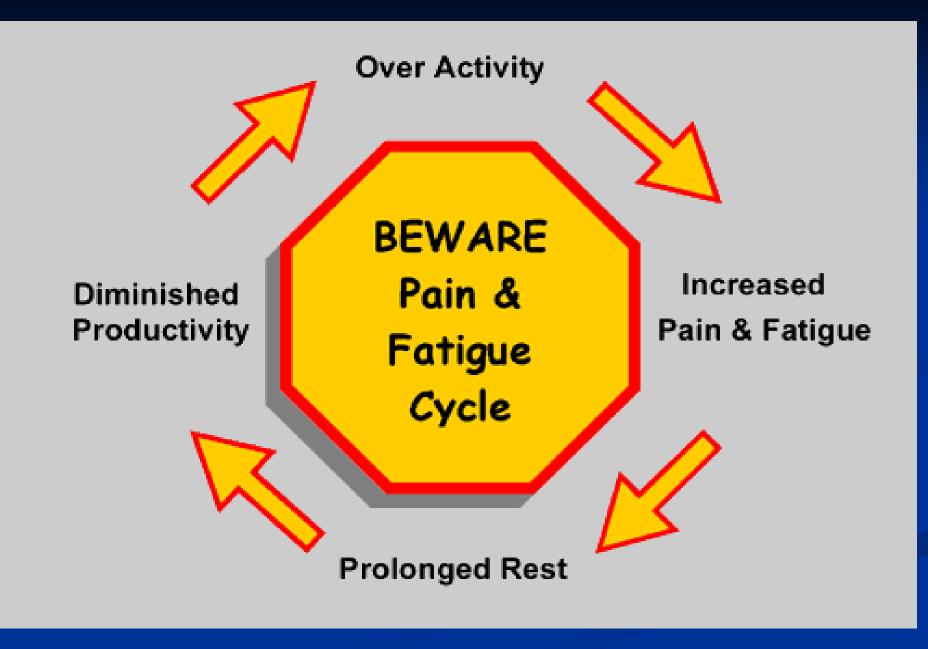


- Time The total time you do physical activity. (e.g. 30min)
- Type The kind of physical activity you do.

Energy Efficiency

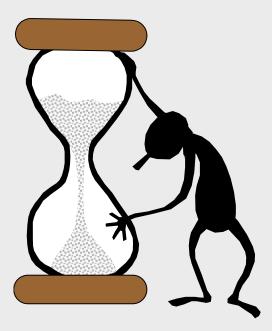




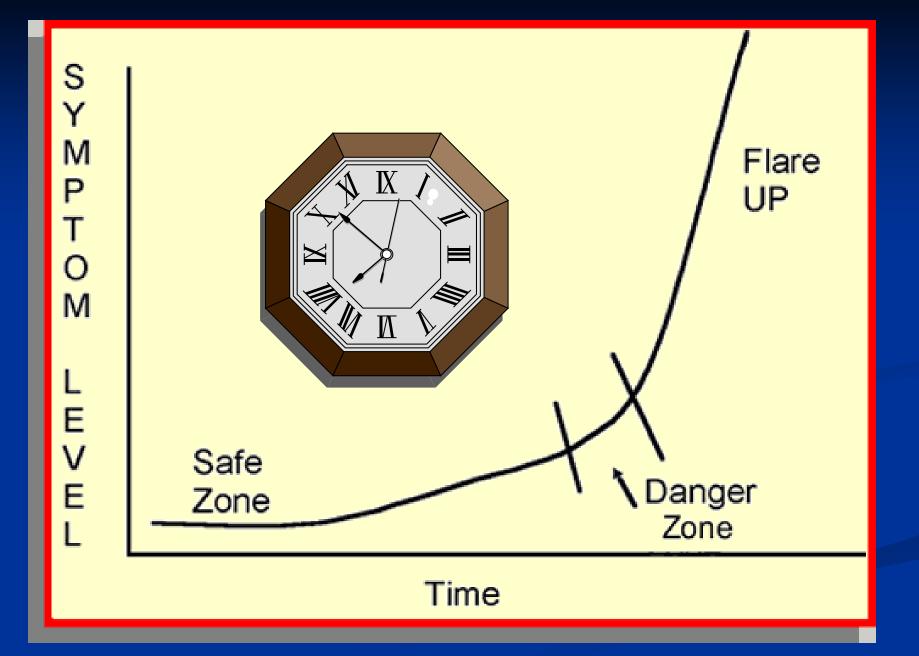


Behavioral Activation Skills

Time-Based Pacing

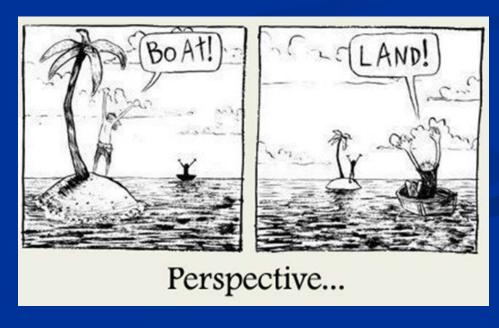


Activity-Rest-Activity-Rest



Reframing





Novel learning



Novel skills



Novel acquaintances

New activities

- Time to figure out each step
- Unknown outcomes
- Fatiguing
- Awkward
- No easy flow

Automatic Thinking





Familiar Activity

- Flows easily
- Mindless
- Efficient
- Multi-task
- Lower stress

But...Can close off need for novelty, and creativity

Closed minded

If Novel Learning is Negative, Automatic Thinking becomes Negative

Acute pain is awful

- Feels better with rest, avoiding tasks, withdraw socially
- Prepares self for the worst
- Catastrophizing produces negative emotions



When pain becomes chronic

- Tendency to retain acute pain thinking
- Don't revisit assumptions about pain
- Physiological toll deconditioning
- Need to focus on challenging old assumptions



STEP 1	STEP 2	STEP 3	STEP 4
Identify the situation that causes negative thoughts	Describe your negative thoughts	Describe your emotions	Reframe your thoughts
I haven't done the laundry in weeks. It just hurts too much.	I'm a terrible wife I can't do anything anymore My husband will be angry with me	- Gwilt - Worthlessness - Anxiety	 Having fibromyalgia is not my fault, and it does not mean I am a bad wife There are many things I can do without help, but laundry is not one of them If I explain to my husband about my pain and ask for his help, he'll understand

Mindfulness Meditation

- State of consciousness where the focus in on attention, awareness and moment-by-moment experience
- Attitude of curiosity, openness, and acceptance
- Decreased automatic thinking, and analytical self-referential rumination



Methods of Achieving the Relaxation Response







Visual Imagery

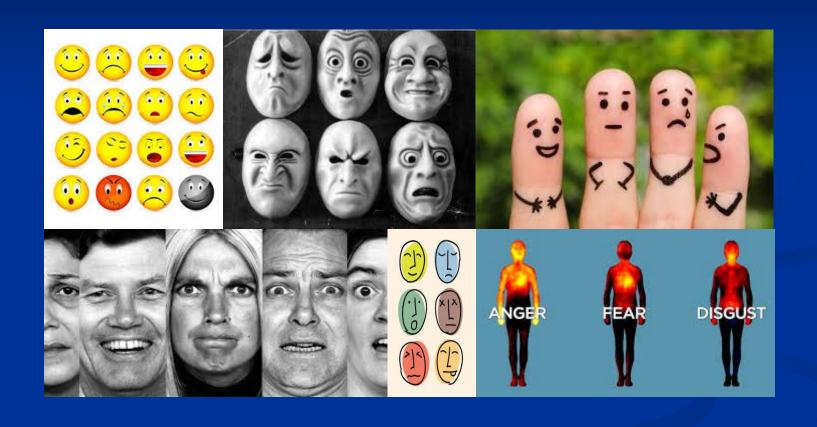


Meditation



Biofeedback

AFFECT



Emotional Awareness and Expression Therapy (EAET)

- Based on assumption that pain is influenced by unresolved emotional conflict/trauma
- Therapy seeks to resolve affective perturbation
- Effects similar to CBT with some profound remissions of pain
- May be good fit for individuals with trauma history



Pleasant Activity Scheduling







Pleasant Activity Scheduling

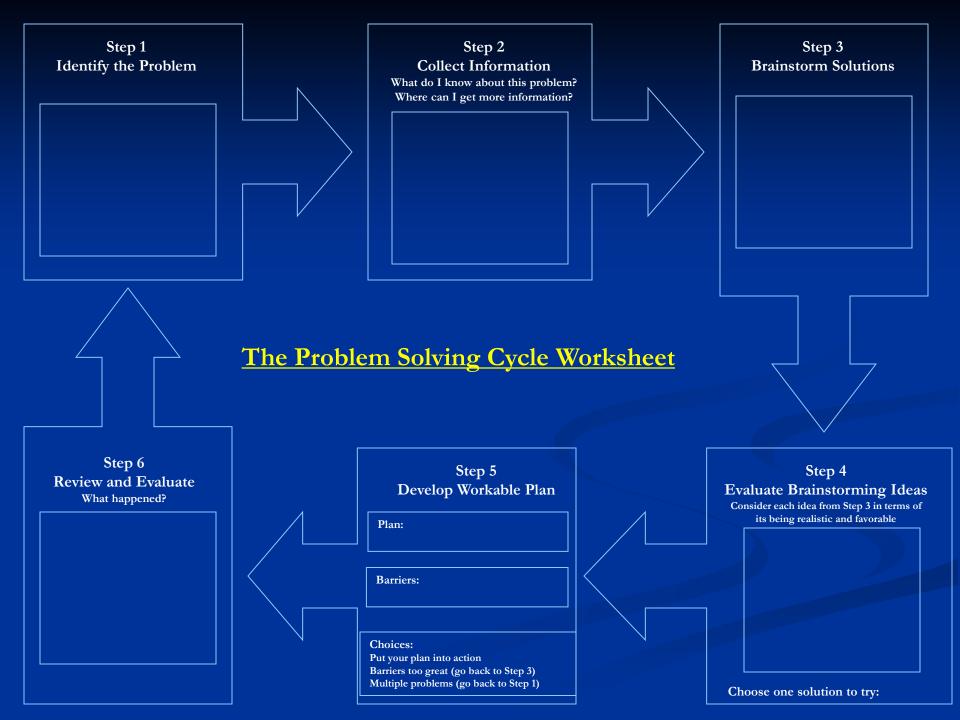
- Initiates movement through pleasant events
- Pleasant affect buffers pain
- Scheduling is better than random occurrences
 - More likely to happen
 - More predictable, less flare-ups



ACTION







Goal Setting



Poor Goal: Make a bunch of money Strategic Goal: Make \$50 this week

Tactical Goal: Sell my old suits to consignment store on Thursday

Sleep



One night's loss of sleep...

- Impacts the next 2 days
 - Physical ability
 - Coordination
 - Dexterity
 - **■** Energy
 - Mental ability
 - Emotional stability
 - **■** Memory
 - **■** Concentration



Sleep Hygiene Skills

Timing

Regular bed time/wake time

Sleep Behavior

Get in bed only when sleepy Use bed for sleep Get up after 15' if no sleep

Thermal Tips

Decline in core temp signals sleep Exercise, warm bath before bed

Environment

Steady room temperature Keep room dark

Ingestion

Decrease nicotine
Decrease Caffeine
Alcohol interferes with sleep
Light snack is recommended

Mental Control

Effort will not produce sleep Avoid mental stimulation Seek mental quiescence

Social



Social Challenges



Dr. -Patient



Friends

Caring at first Withdrawal Dependent Loss



Family

Withdrawal
Impatience
Shifting roles
Dependence

Awkward

Confrontational

Tense

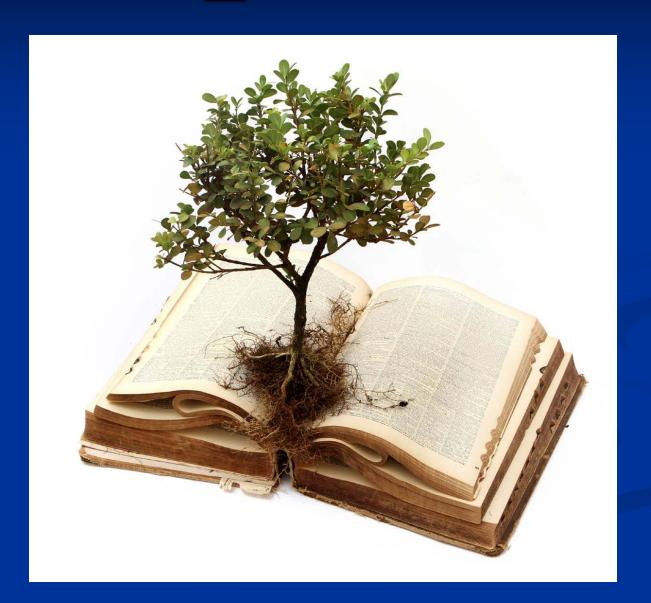
Loss
Loss of Self-esteem



Employer and co-workers

Others cover
Competence?
Accommodate?
Loss of role
Lost Self-esteem
Lost Motivation
Lost social position

Education



Educational Resources







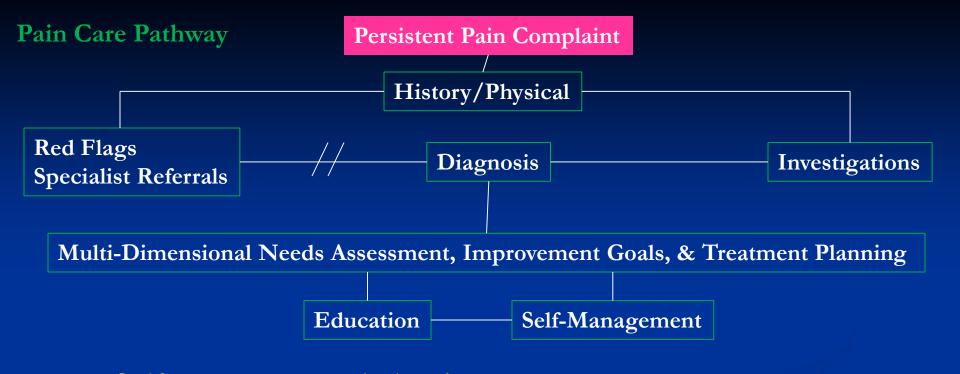
- Self-help books on Chronic Pain
 - -Amazon lists 100 (1/2018)
- Subscription magazines
- Patient organizations







RESEARCH EDUCATION TREATMENT ADVOCACY



Self-management helped:

Increase functioning with pacing but pain remained

Doing some pleasant activities

Sleeping a little better

Still worried and anxious about retirement
Not able to exercise
Can't get husband to engage in activities with her

