# Meeting the Chronic Pain Care Needs of Older Adults:

What is the role of the PCP?

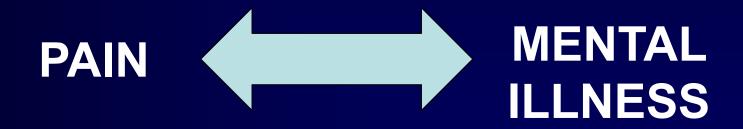
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Department of Medicine, Anesthesiology & Psychiatry,
Clinical and Translational Science Institute
University of Pittsburgh





**U.S. Department of Veterans Affairs** 

Veterans Health Administration Geriatric Research, Education, and Clinical Centers



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- 1. Identify key psychosocial treatment targets in the older adult with chronic noncancer pain.
  - Depression, anxiety and other psychosocial factors are often overlooked as significant contributors to PAIN INTERFERENCE...
  - ...the key vital sign in patients with chronic pain.

2. List the pathognomonic features of myofascial pain.

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  - Myofascial pain (MP) is arguably the most common chronic pain condition. PCPs trained using allopathic principles have often not been educated about MP.

- 2. List the pathognomonic features of myofascial pain.
  - Myofascial pain (MP) is arguably the most common chronic pain condition. PCPs trained using allopathic principles have often not been educated about MP.
  - As the most effective treatments are nonpharmacological, competence around MP diagnosis and treatment can save costs and morbidity.

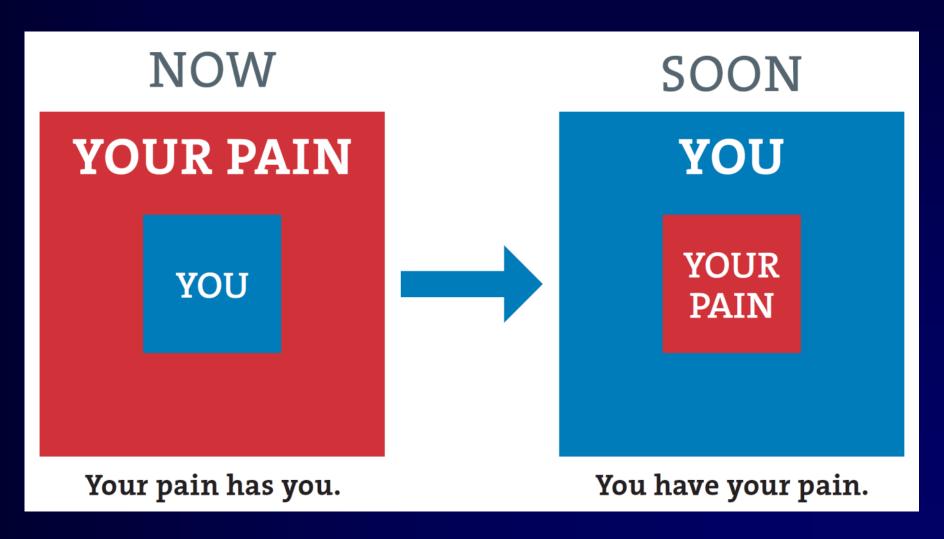
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  - Dementia may not be clinically obvious.

- 3. Describe treatment modifications that practitioners may wish to consider for the older adult with pain and dementia.
  - Dementia may not be clinically obvious.
  - Recognizing it in the older adult with chronic pain can profoundly impact pain management.

"Can you make this pain go away?"

## "Can you make this pain go away?"



## Materials on Course Website

- Chronic pain management guide pdf
- Electronic link to guide
- Chronic low back pain series of articles pdf and link
- Myofascial pain PE video

- 1. Identify key psychosocial treatment targets in the older adult with chronic noncancer pain.
- 2. List the pathognomonic features of myofascial pain.
- 3. Describe treatment modifications that practitioners may wish to consider for the older adult with pain and dementia.

#### Case

- 71-year-old white male Veteran with low back pain for over 10 years.
- No leg symptoms, pain in back sitting and standing, better with movement. Right worse than left.

## Pain Enjoyment General activity

- **SEVERITY**: During the past week, what number best describes your pain, on average? (0=no pain, 10=pain as bad as you can imagine)
- INTERFERENCE: During the past week, what number best describes:
  - How pain has interfered with your enjoyment of life?
  - How pain has interfered with your general activity?(0=does not interfere, 10=completely interferes)

#### Case

- 71-year-old white male Veteran with low back pain for over 10 years.
- No leg symptoms, pain in back sitting and standing, better with movement. Right worse than left.
- PEG scores (Krebs E et al 2009; J Gen Intern Med 24: 733)
  - –Average 7-day pain: 5
  - –Interference with enjoyment of life: 6
  - –Interference with general activity: 7

#### PHYSICAL EXAMINATION

General: Pleasant, well-groomed, NAD

Neurological: Alert, OX3, strength and reflexes normal throughout, gait stable and coordinated.

Psychiatric: No SI/HI, tearful when talking about pain, PHQ9=17; negative coping statements, fear avoidance beliefs

Musculoskeletal: Mild scoliosis, tautness and tenderness of right parathoracic/paralumbar erector spinae

#### Treatments recommended

- Duloxetine 20 mg per day for 7 days, then call to check in.
- Acetaminophen 975 mg po tid
- Chiropractic referral

#### Case FU – 1 month

| Parameter                     | Baseline | 1 month |
|-------------------------------|----------|---------|
| PEG pain                      | 5        | 3       |
| PEG enjoyment interference    | 6        | 5       |
| PEG gen activity interference | 7        | 5       |
| PHQ-9                         | 17       | 15      |

#### Case FU – 1 month

| Parameter                     | Baseline | 1 month |
|-------------------------------|----------|---------|
| PEG pain                      | 5        | 3       |
| PEG enjoyment interference    | 6        | 5       |
| PEG gen activity interference | 7        | 5       |
| PHQ-9                         | 17       | 15      |

#### Recommendations:

- 1. Increase duloxetine to 60 mg po qd.
- 2. Continue chiropractic and acetaminophen.
- 3. Begin walking program

#### Case FU – 2 months

- Overall, "40-50% better"
- Can get out of bed without difficulty
- Walking ~ 2 blocks per day
- Less irritable "more mellow"
- Taking pride in chores around the house

#### Case FU – 2 months

- Overall, "40-50% better"
- Can get out of bed without difficulty
- Walking ~ 2 blocks per day
- Less irritable "more mellow"
- Taking pride in chores around the house
- But ran out of acetaminophen one week ago...

#### Case FU – 2 months

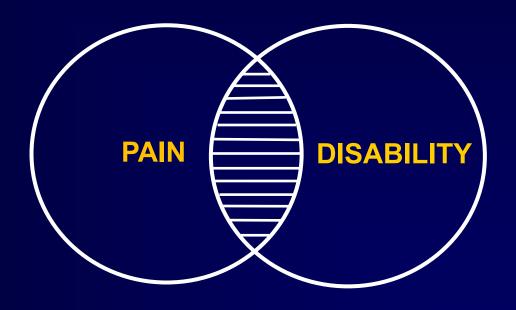
| Parameter                     | Baseline | 1 month | 2 months |
|-------------------------------|----------|---------|----------|
| PEG pain                      | 5        | 3       | 7        |
| PEG enjoyment interference    | 6        | 5       | 3        |
| PEG gen activity interference | 7        | 5       | 0        |
| PHQ-9                         | 17       | 16      | 5        |
| Insomnia severity index       | 11       |         | 2        |
| Fear avoidance beliefs        | 23       |         | 9        |

#### TAKE HOME POINT(S)

- Reduction of pain may not be required to reduce pain interference.
- In this case effective treatment of depression reduced pain interference.

## **Chronic Pain**



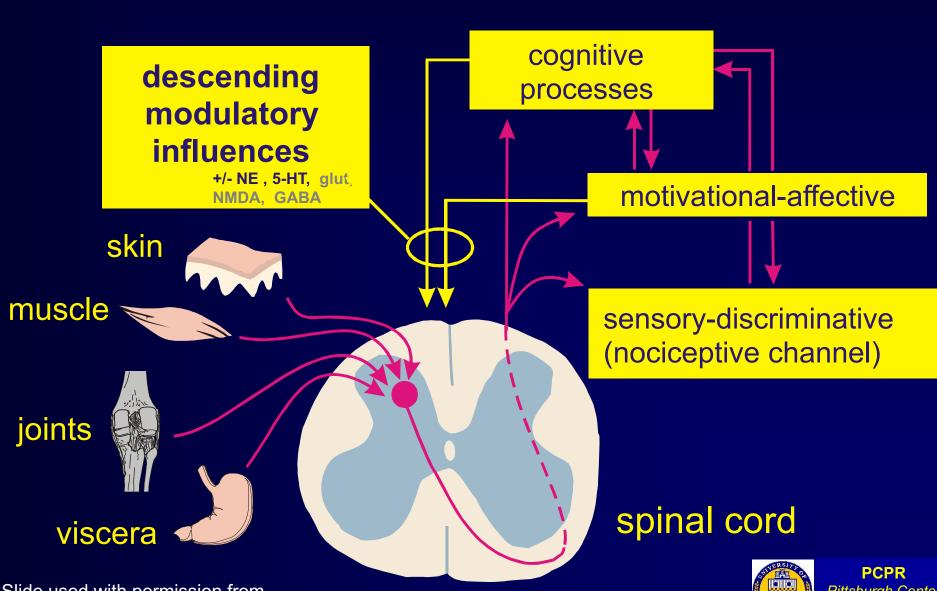


## **Chronic Pain**



To what extent does pain interfere with function and quality of life?

## Basic Understanding of Pain Channels



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PCPR
Pittsburgh Center
for Pain Research

## Basic Understanding of Pain Channels

descending modulatory influences

+/- NE , 5-HT, glut NMDA, GABA = Depression/Anxiety
Insomnia
Maladaptive Coping (fear avoidance beliefs, catastrophizing)
Low Self-Efficacy
Fibromyalgia
Dementia

sensory-discriminative (nociceptive channel)

spinal cord



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viscera

skin

muscle

joints

## Basic Understanding of Pain Channels

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viscera

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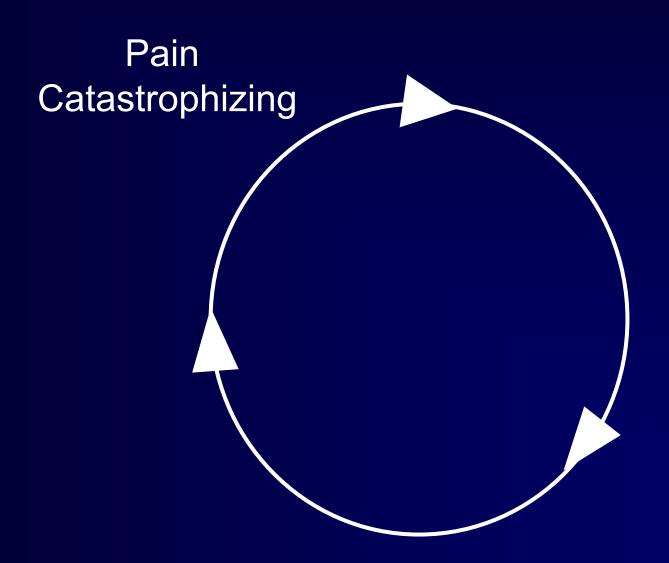
joints

#### Screening statement for fear avoidance

Do you agree/disagree:

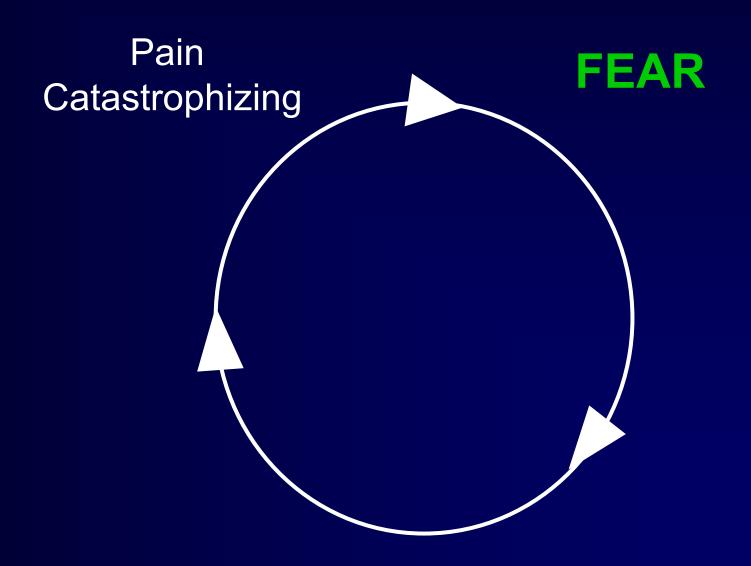
"It's not really safe for a person with my pain problem to be physically active."

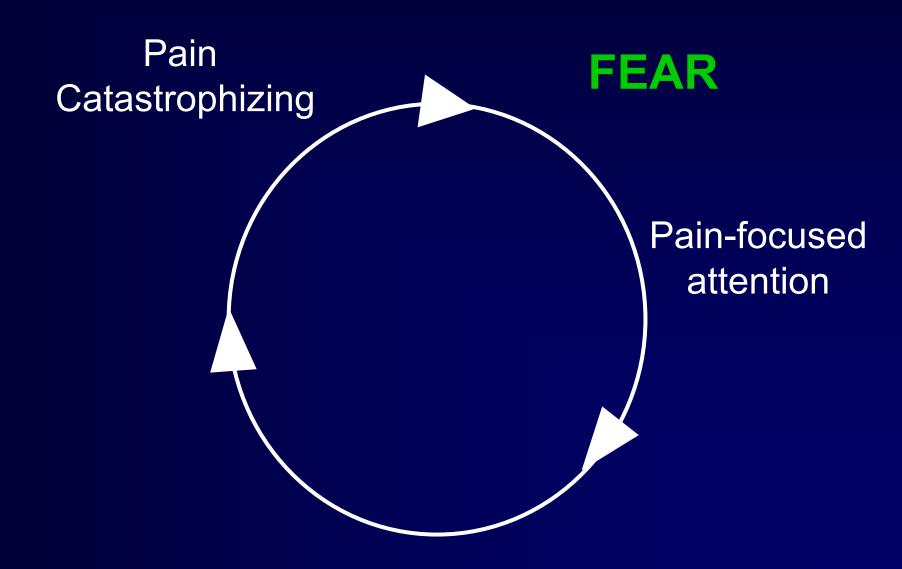
## Fear-avoidance model

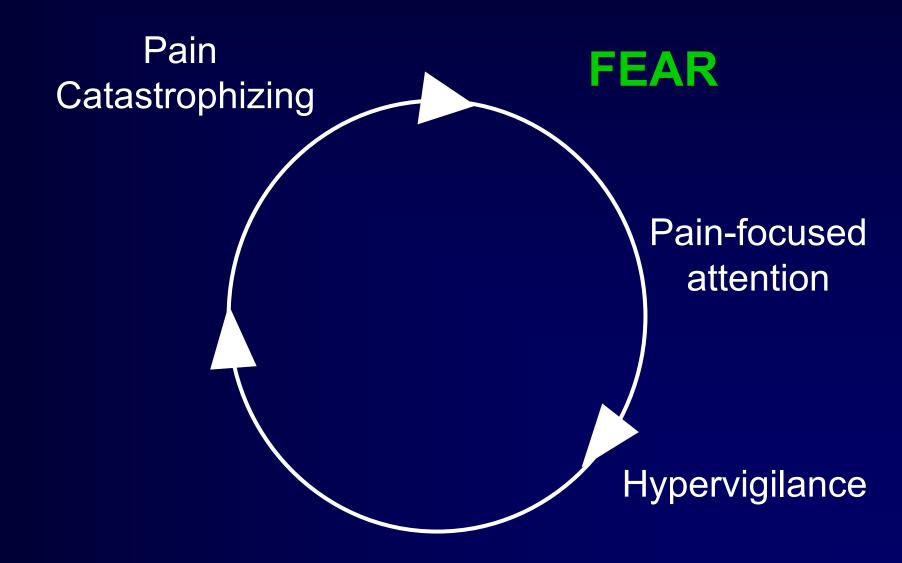


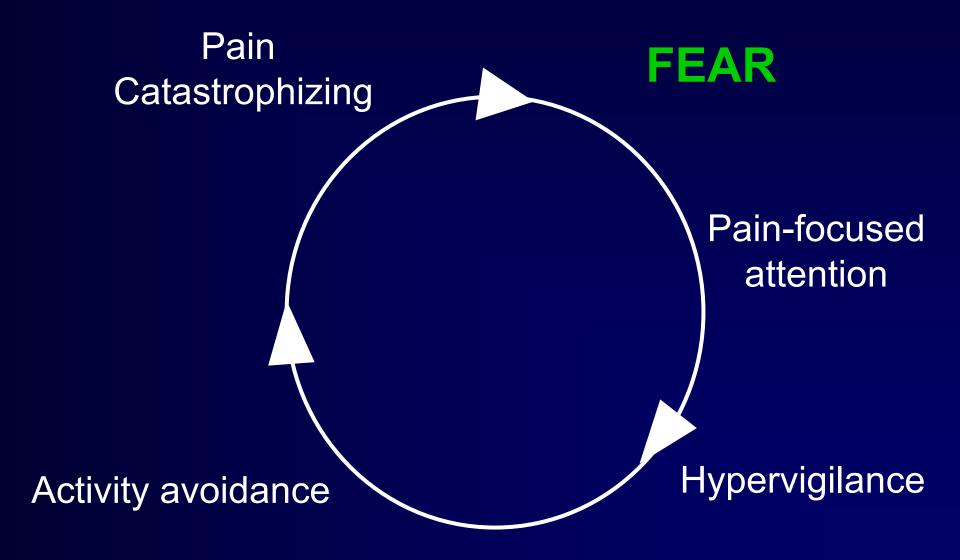
# Pain Catastrophizing

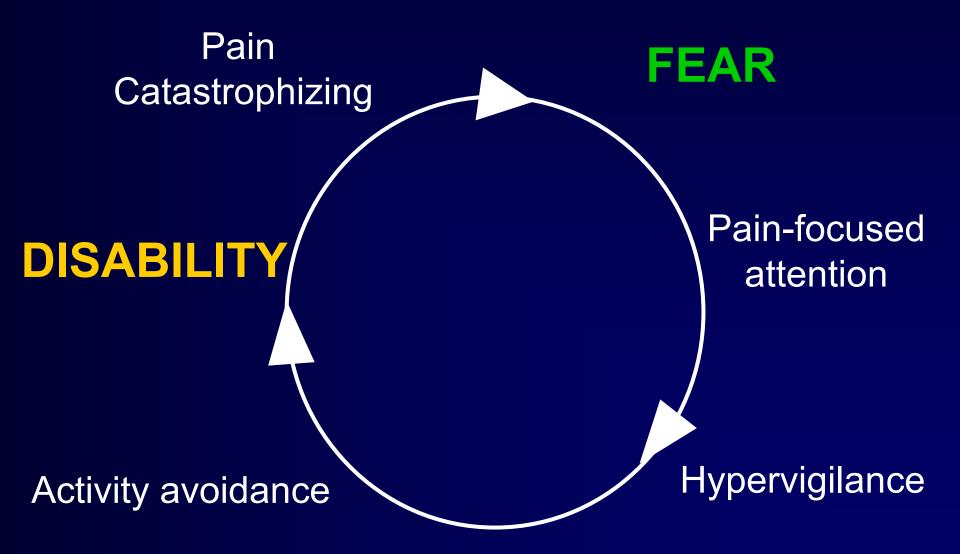
- Rumination
- Magnification
- Helplessness



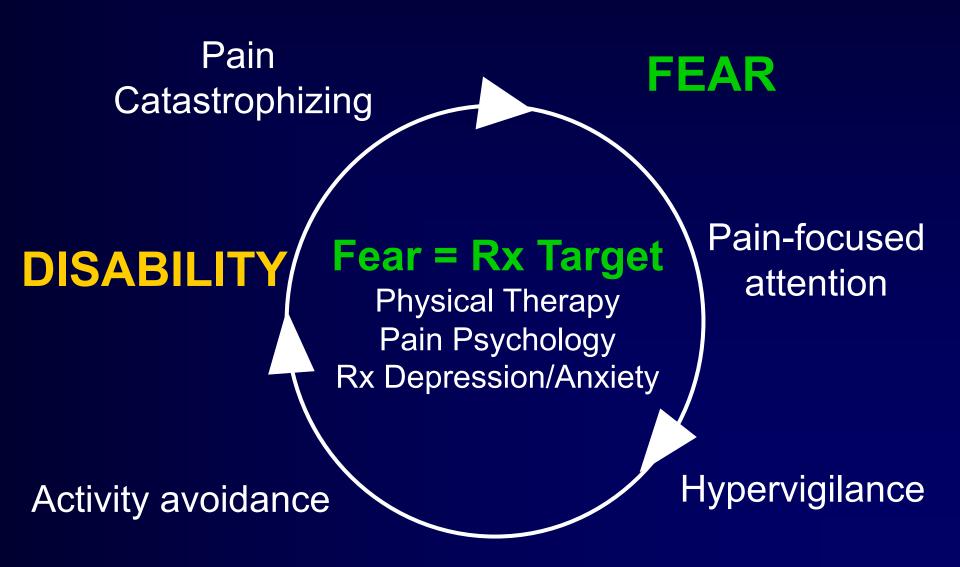








Vlaeyen JW et al 2000, Pain 85(3): 217



## Basic Understanding of Pain Channels

descending modulatory influences

Depression/Anxiety

Insomnia

Maladaptive Coping (fear avoidance beliefs, catastrophizing)

**Low Self-Efficacy** 

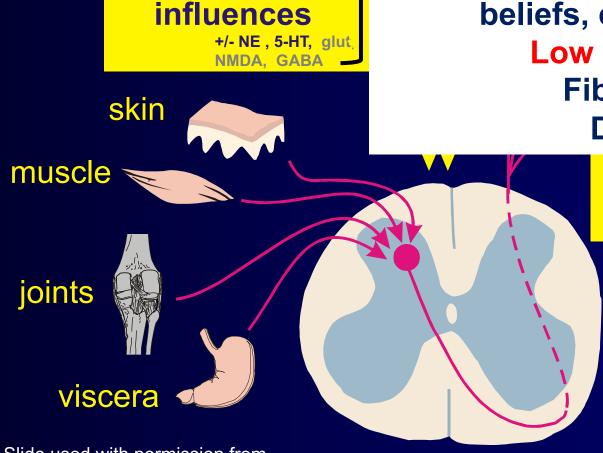
Fibromyalgia

**Dementia** 

sensory-discriminative (nociceptive channel)

spinal cord





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## Screening for low self-efficacy

How confident are you that you can:

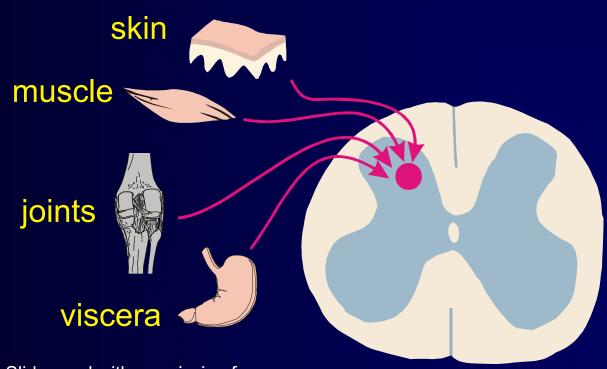
- Do some form of work (e.g., housework, paid/unpaid work) despite the pain?
- Live a normal lifestyle despite the pain?

0 = not confident at all and 6 = completely confident; total score of 8 or higher is desirable. Total score of 5 or less implies that patient needs help with self-efficacy.

## Low pain self-efficacy predicts poor pain treatment outcomes and is modifiable.

- Kate Lorig's Self-Help Program for people with arthritis
  - Lorig K et al 2005, Arthritis Rheum 53(6): 950

## Basic Understanding of Pain Channels



spinal cord

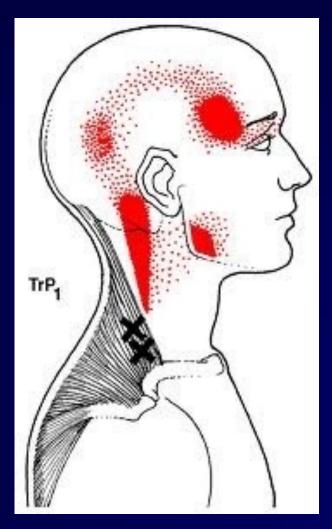


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## Learning Objectives

- 1. Identify key psychosocial treatment targets in the older adult with chronic noncancer pain.
- 2. List the pathognomonic features of myofascial pain.
- 3. Describe modifications to treatment that practitioners may wish to consider for the older adult with pain and dementia.

## What is myofascial pain (MP)?

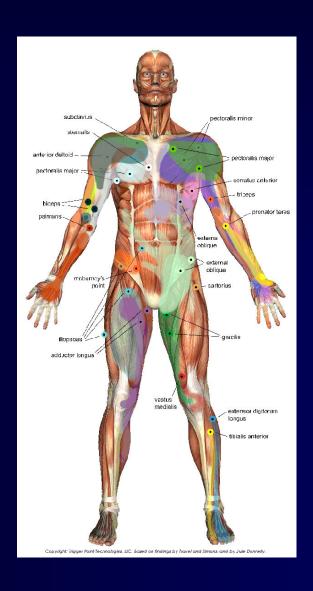


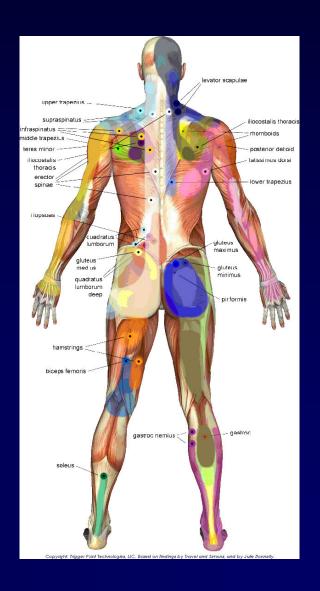
Simons DG, Travell JG, and Simons LS, "Trapezius Point 1" Travell & Simons' Myofascial Pain and Dysfunction: The Trigger Point Manual (2<sup>nd</sup> Edition) 1999, p.279

## MP IS COMMON IN OLDER ADULTS

#### 96% of those with CLBP

• Weiner et al, J Am Geriatr Soc 2006; 54: 11-20



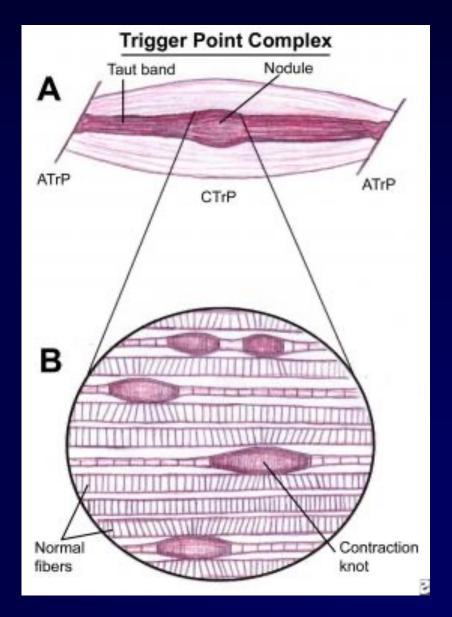


Cassidy Phillips PL, "TP massage ball man" Trigger Point Technologies, LLC 2002

#### MYOFASCIAL PAIN: PATHOGNOMONIC FEATURES

 <u>Taut Band</u>: The group of tense muscle fibers extending from a trigger point to the muscle attachments.

 Trigger Point: Hypersensitive palpable nodules in skeletal muscle residing within taut bands.



Simons DG, Travell JG, and Simons LS, "Trigger Point Complex" Travell & Simons' Myofascial Pain and Dysfunction: The Trigger Point Manual (2<sup>nd</sup> Edition) 1999, p.70

## MP vs. Fibromyalgia

#### **MYOFASCIAL PAIN**

- Regional disorder
- Taut bands and trigger points on exam
- May coexist with many other pain conditions, including fibromyalgia

#### **FIBROMYALGIA**

- Systemic disorder
- Hyperalgesia without palpable abnormalities tender points
- Often associated nonrestorative sleep, fatigue, AM stiffness

## ELEMENTS OF MP HISTORY

#### Pain worsens with:

- Cold
- Incorrect intensity or type of activity
- Psychological stress
- Illness
- Excessive pressure or stretching

## ELEMENTS OF MP HISTORY

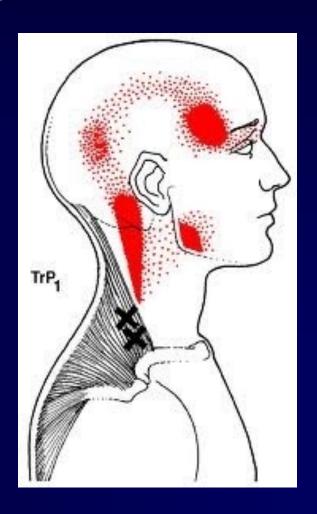
#### Pain improves with:

- -Heat
- –Gentle activity
- -Gentle pressure/stretching
- -Relaxation

## SYMPTOMS ASSOCIATED WITH MP

Pain (aching, stabbing, burning) that radiates

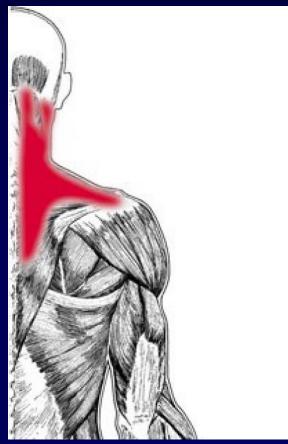
## **TRAPEZIUS**



Simons DG, Travell JG, and Simons LS, "Trapezius Point 1" Travell & Simons' Myofascial Pain and Dysfunction: The Trigger Point Manual (2<sup>nd</sup> Edition) 1999, p.279

## TRAPEZIUS MP





Trigger Point Therapy for Myofascial Pain by Donna Finando, L.Ac., L.M.T., and Steven Finando, Ph.D., L.A.c published by Inner Traditions International and Bear & Company, ©2005. All rights reserved. http://www.Innertraditions.com Reprinted with permission of publisher.

## SYMPTOMS ASSOCIATED WITH MP

- Pain (aching, stabbing, burning) that radiates
- Paresthesias, numbness
- Weakness
- Autonomic phenomena piloerection, sweating

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MP can mimic neuropathy and/or radiculopathy.

## Assessing Myofascial Pain

The Physical Examination



#### HONING YOUR PHYSICAL EXAM SKILLS

## Tip 1: Palpate WITH INTENTION

- Direction perpendicular to fiber direction
- Firmly enough to elicit pain (if there is severe spontaneous pain, start more gently)

#### HONING YOUR PHYSICAL EXAM SKILLS

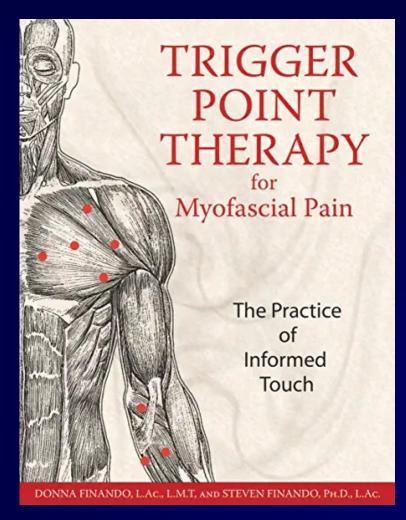
## Tip 1: Palpate WITH INTENTION

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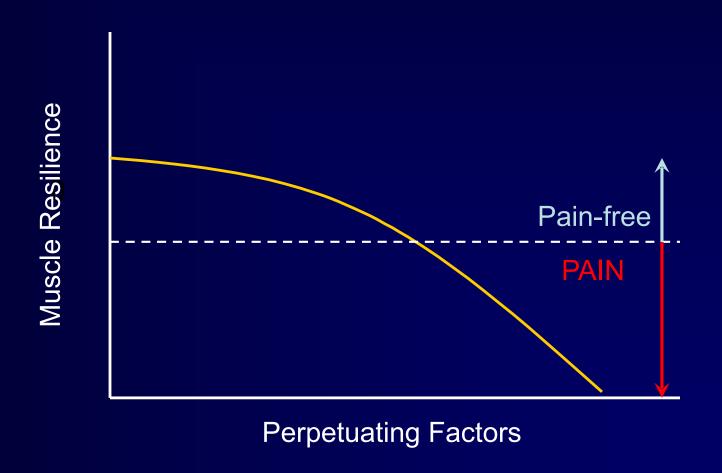
## Tip 2: Practice on friends and family

- Trapezii in many, if not most people, in those with and without pain
- Muscle groups in regions of pain

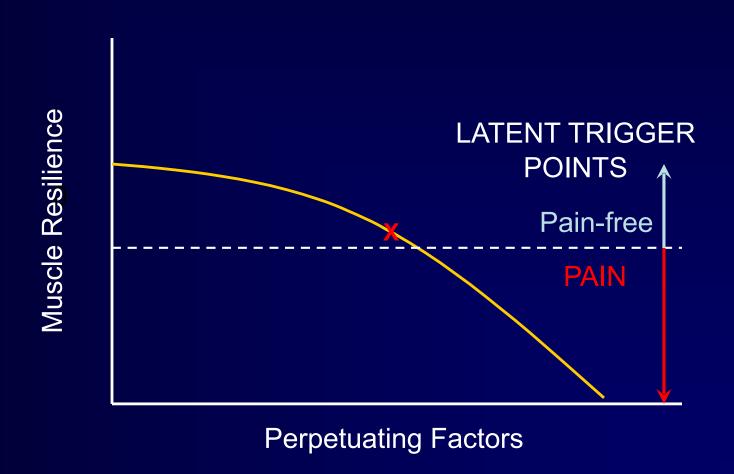
## AN EXCELLENT RESOURCE



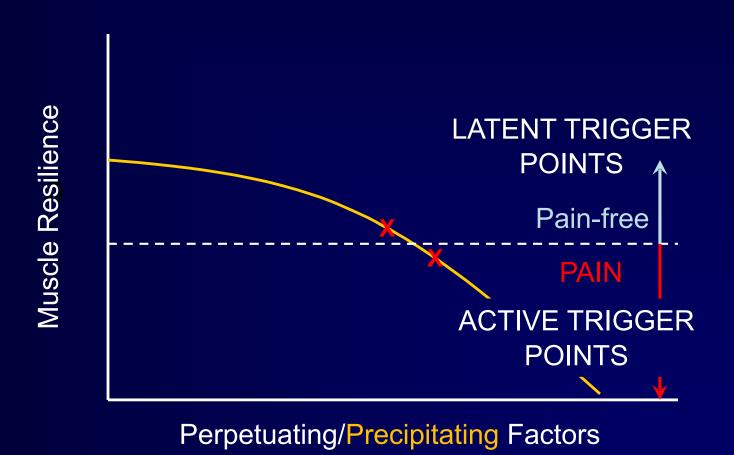
#### MYOFASCIAL DYSFUNCTION: A CONCEPTUAL MODEL



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#### MP Perpetuating Factors: Physical

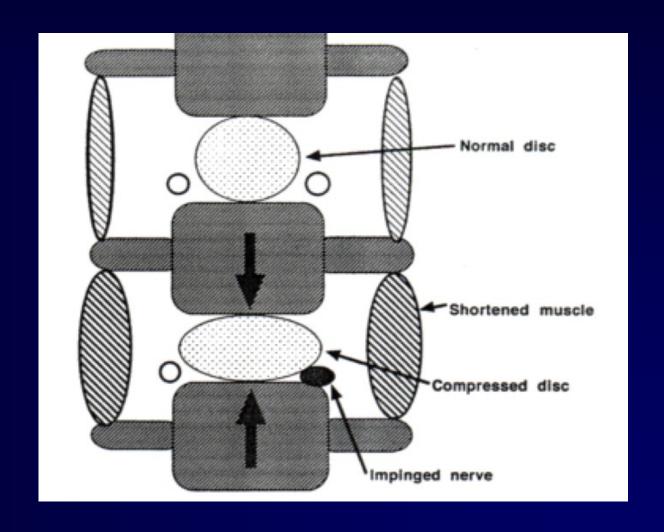
- Muscle stiffness (aging associated, Parkinson's, statins)
- Sarcopenia
- Axial spondylosis
- Spinal malalignment
- Gait disturbance

Spinal Biomechanics

- LE arthritis, foot pain, etc., etc., etc.
- latrogenic LLD (post arthroplasty)

# AXIAL SPONDYLOSIS: ONE MP PERPETUATING FACTOR

- Ubiquitous in older adults
- "Neuropathic myofascial pain"



This image was published in The Gunn approach to the treatment of chronic pain, Gunn CC, Shortened paraspinal muscles, p. 31, Copyright Churchill Livingstone [an imprint of Elsevier] (1996).

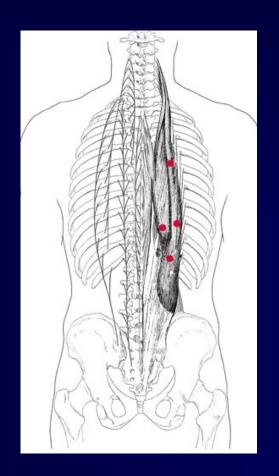
# MP PERPETUATING FACTORS: PSYCHOSOCIAL

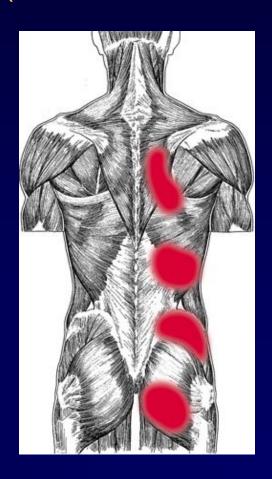
- Fear avoidance beliefs
  - Fear of falling
  - Fear of pain
- Depression, anxiety
- Social isolation
- Dementia

## In patients with CLBP, the most common sites of MP are...

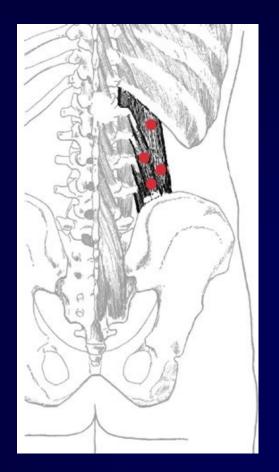
- Erector spinae
- Quadratus lumborum
- Gluteus medius

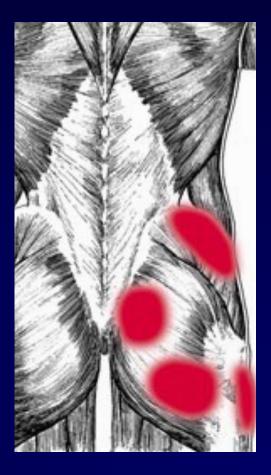
#### ERECTOR SPINAE (ILIOCOSTALIS LUMBORUM)





#### QUADRATUS LUMBORUM



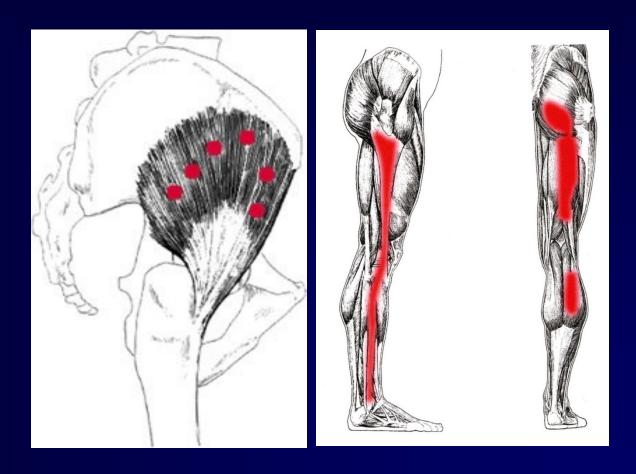


#### GLUTEUS MEDIUS





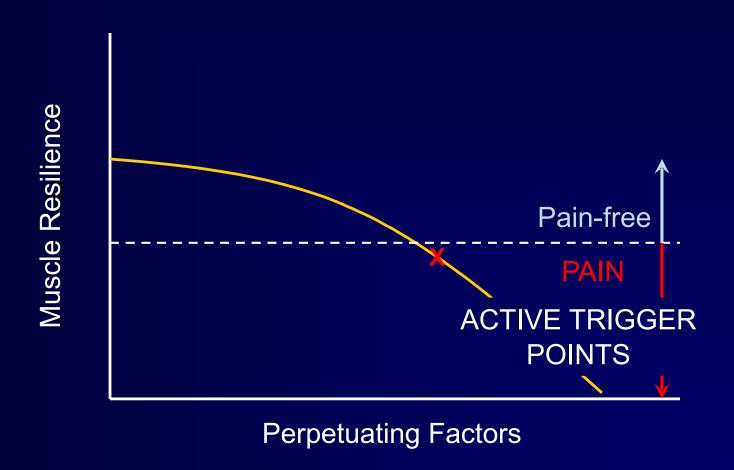
#### GLUTEUS MINIMUS MP CAN MIMIC LUMBAR RADICULOPATHY



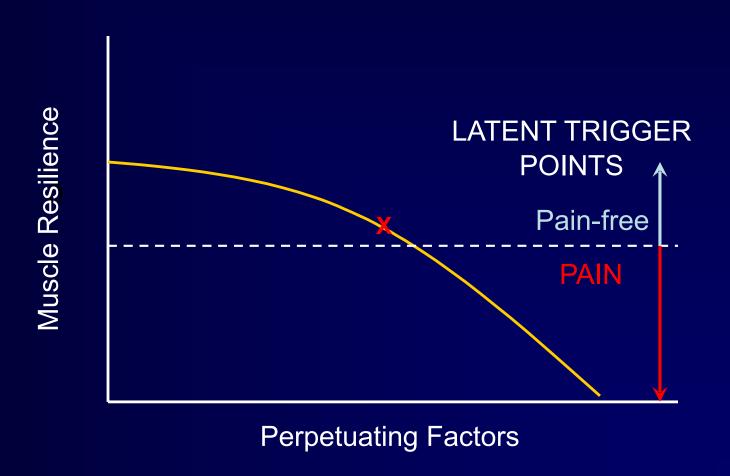
#### TREATING MP: A 3-PRONGED APPROACH

1. Address perpetuating factors

#### MYOFASCIAL DYSFUNCTION: A CONCEPTUAL MODEL



#### MYOFASCIAL DYSFUNCTION: A CONCEPTUAL MODEL



## TREATING PHYSICAL PERPETUATING FACTORS – SOME EXAMPLES

- Kyphoscoliosis, balance impairment: Walker to unload spine and/or stabilize gait
- Unilateral leg pain: Cane to unload leg, treat OA
- Leg length inequality (≥ ½ inch): PT referral, +/orthotic if no PT response
- Obesity: Weight loss
- Cervical spondylosis: Low dose gabapentin (100-300 mg qhs – bid)?
- Shoulder restriction: OT referral

# TREATING PSYCHOSOCIAL PERPETUATING FACTORS — SOME EXAMPLES

#### Examples:

- Depression/anxiety: Non-pharmacological & pharmacological treatment
- Fear avoidance beliefs: PT referral, CBT
- Social isolation: Facilitate support
- Dementia: Caregiver education and support to diminish fear

#### TREATING MP: A 3-PRONGED APPROACH

#### 1. Address perpetuating factors

#### 2. Deactivate trigger points

- Manual
- Injection (wet needling)
- Dry needling
- IM electrical stimulation (with acupuncture needles)

## SEVERAL PROFESSIONALS MAY HAVE TRIGGER POINT TRAINING AND EXPERTISE.

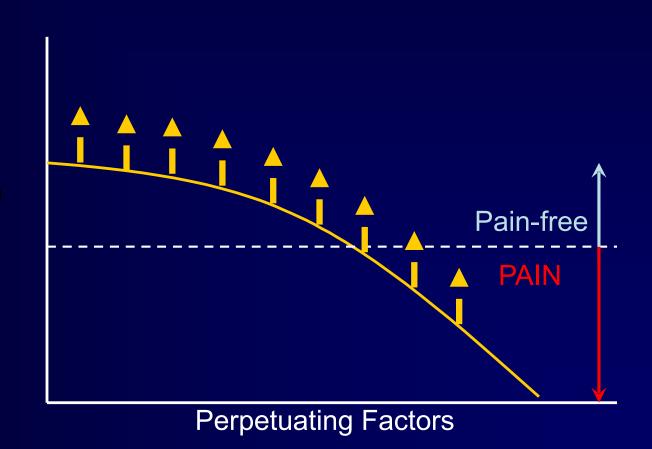
- Physical therapist
- Massage therapist
- Chiropractor
- Acupuncturist
- Pain medicine provider

#### TREATING MP: A 3-PRONGED APPROACH

- 1. Address perpetuating factors
- 2. Deactivate trigger points
  - Manual
  - Injection (wet needling)
  - Dry needling
  - IM electrical stimulation (with acupuncture needles)
- 3. Self-management to build and sustain resilience

#### MYOFASCIAL DYSFUNCTION: A CONCEPTUAL MODEL









#### CASE PRESENTATION

# The Importance of Addressing Perpetuating Factors

#### ID/CC & HPI

- 82 y.o. white female with low back pain for many years
- Steadily worsening functional limitation
- Average 7-8/10 pain, worse with walking/standing
- Poor sleep

#### PRIOR TREATMENTS

- Numerous prior treatments: acupuncture, chiropractic, traction, physical therapy, aqua therapy, numerous injections, inpatient pain rehabilitation
- Back surgery was recommended and scheduled but patient cancelled
- Pain medications: naproxen prn

#### PHYSICAL EXAMINATION

- Musculoskeletal: mild kyphoscoliosis, bilateral SI tenderness, bilateral piriformis and gluteus medius taut bands and trigger points
- Neurological: Reflexes symmetrical, strength 5/5 throughout, gait with short step length
- Psychiatric: Anxious affect

#### INITIAL RECOMMENDATIONS

- SI joint injections for SIJ syndrome
- Physical Therapy
  - >Treatment of myofascial pain
  - Strengthening
- Cognitive behavioral therapy for anxiety

**RESPONSE: None** 

#### ADDITIONAL HISTORY

Over the past ~ 1 year:

Voice has gotten softer

Handwriting has gotten smaller

Posture has worsened

#### ADDITIONAL PHYSICAL EXAM

#### Findings:

Little facial expression (new)

Mild cogwheeling of right arm

#### NEUROLOGY CONSULTATION

#### Parkinsonian symptoms:

- Masked facies
- Diminished blink
- Myerson's sign
- Minimal asymmetrical cogwheeling
- Tendency to retropulse

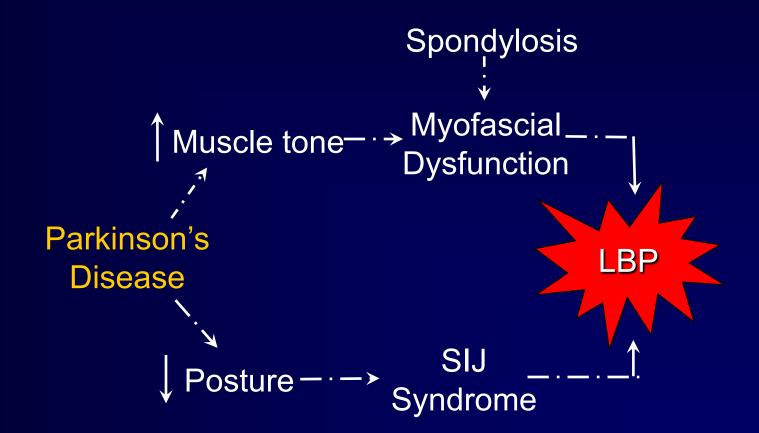
NO tremor or shuffling gait

#### **TREATMENT**

- Carbidopa/levodopa 25 mg/100 mg po bid
- Continue PT

#### FOLLOW-UP

- ~ 1 month later:
  - Average pain 4/10
  - Able to walk 2 blocks without having to stop
  - Lumbar flexion increased from 3.5 cm to 4.6 cm
  - Posture and balance markedly improved



### Learning Objectives

- 1. Identify key psychosocial treatment targets in the older adult with chronic noncancer pain.
- 2. List the pathognomonic features of myofascial pain.
- 3. Describe modifications to treatment that practitioners may wish to consider for the older adult with pain and dementia.

### Dementia may impact...

- Pain reporting
  - Reliable for current pain intensity, ? validity
  - Historical inaccuracy
- Treatment compliance
- Pain coping
  - Fear avoidance
- Treatment expectancy
- Treatment response?

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Is patient able to verbally report pain?

Is patient able to verbally report pain?

Behavioral Assessment

Is patient able to verbally report pain?

No PAINAD

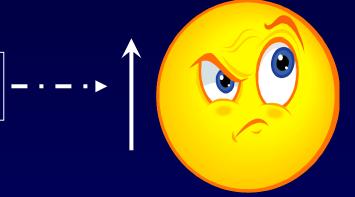
# PAINAD (Pain Assessment in Advanced Dementia)

0-10 scale Summary score based on 5 items, 0-2 each

- 1.Breathing independent of vocalization
- 2. Negative vocalization
- 3. Facial expression
- 4.Body language
- 5. Consolability

# Pain self-report and facial pain indicators: AD vs. cognitively intact

Acute Painful Stimulus ----

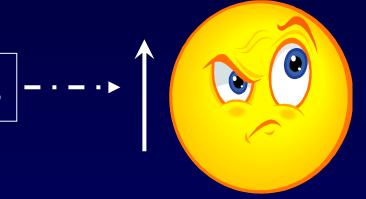


More in AD

Porter et al 1996; Pain 68, 413. Kunz et al, Pain 2007; 133: 221-228

# Pain self-report and facial pain indicators: AD vs. cognitively intact

### Acute Painful Stimulus ----



More in AD

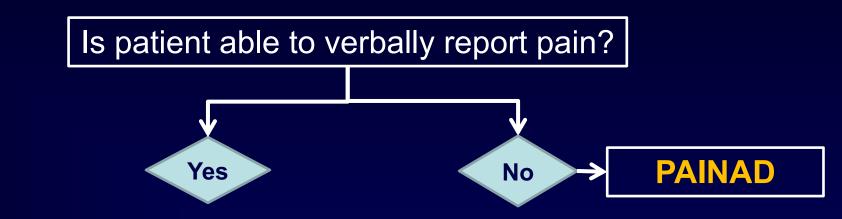
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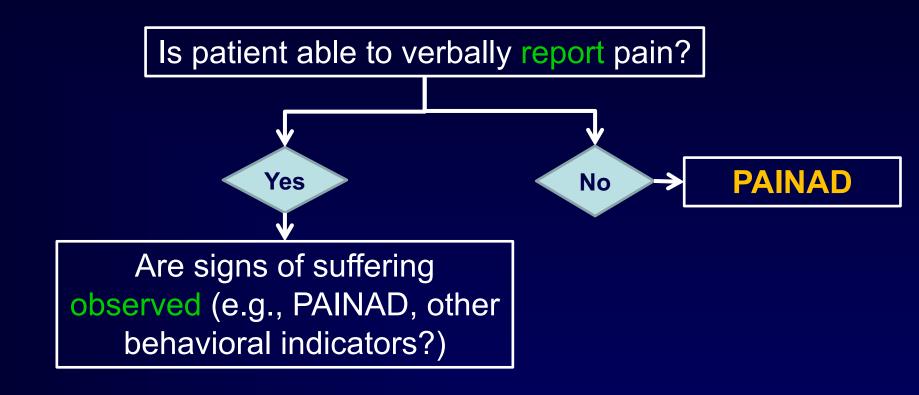
Self-reported pain intensity equivalent in AD and cognitively intact.

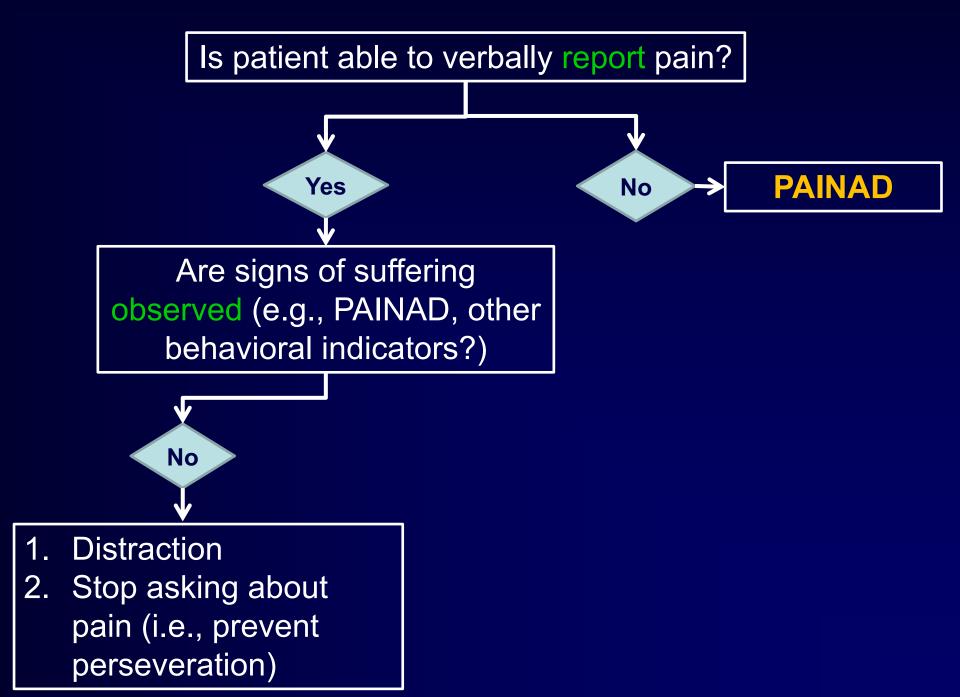
Kunz et al, Pain 2007; 133: 221-228

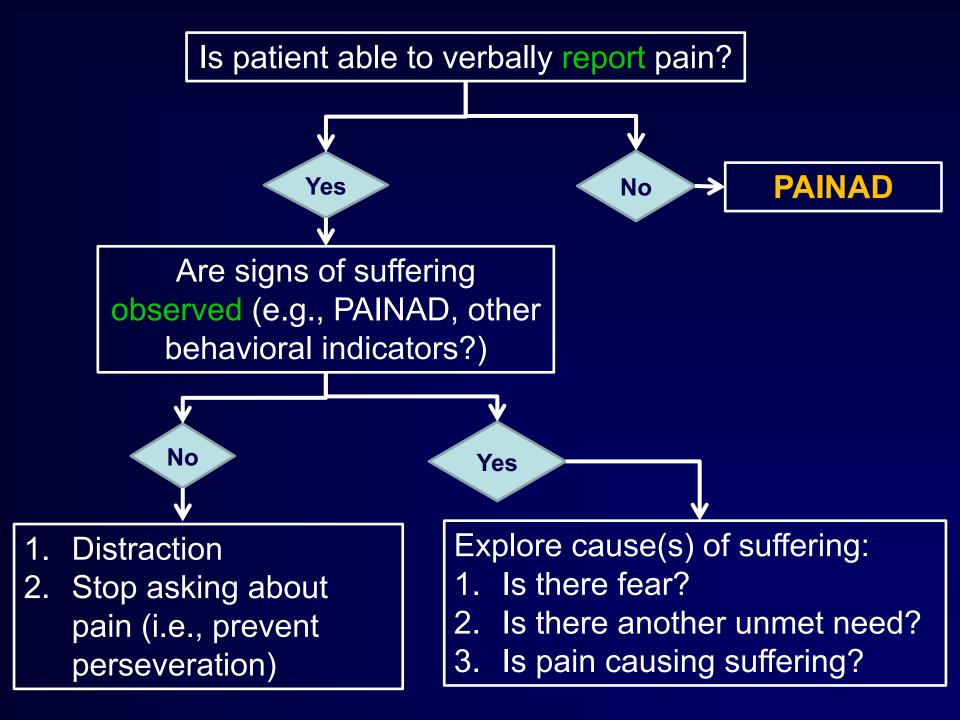
#### **IMPLICATIONS:** Pain & Dementia

 Pain behaviors may be a more accurate indicator of suffering than pain reporting.









# Dementia may impact...

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  - Historical inaccuracy, ? validity
- Treatment compliance
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  - Fear avoidance
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- Treatment response?

### Case Presentation

ID/CC: 80 yr., LBP/R leg pain X 2 yrs., lumbar spinal stenosis on MRI

HPI: Forced to retire 2 years ago. Pain is worse with standing, walking, OK at night, better with heat, no constitutional symptoms. Increasing trouble with heavy housework, afraid to go on bus by self. Reports passive suicidal ideations. Frequent near falls at home. Failed PT trials.

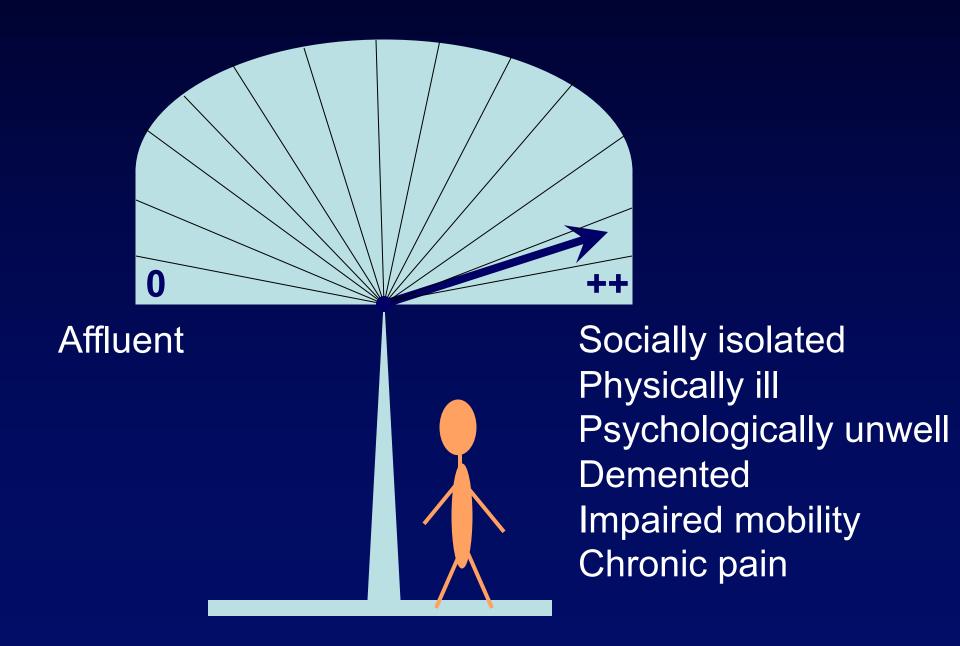
PE: Poor balance, impaired clock-drawing test, kyphoscoliosis, SI/ paraspinal/ TFL pain, leg strength impaired from pain.

#### **Medications:**

gabapentin oxycodone CR celecoxib tramadol/Acetaminophen olanzapine escitalopram lorazepam







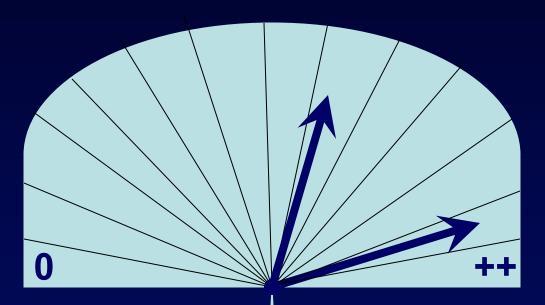
Rx: Short nursing home stay for detox. and balance/gait retraining. D/C'd on tramadol + acetaminophen. Did very well while in NH.

Recommendation: Assisted Living

Family's Decision: Patient to return home.

Course: Immediate deterioration at home with frequent calls, escalation of need for analgesics.

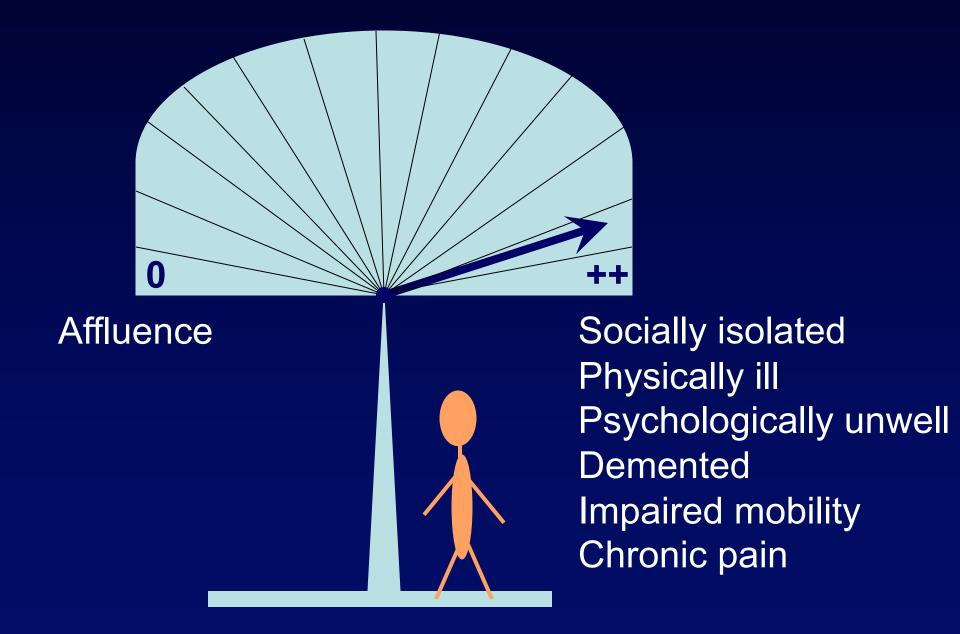
Her condition continued to deteriorate (eventual morphine pump trial), until she was admitted to an assisted living facility, where she did well.

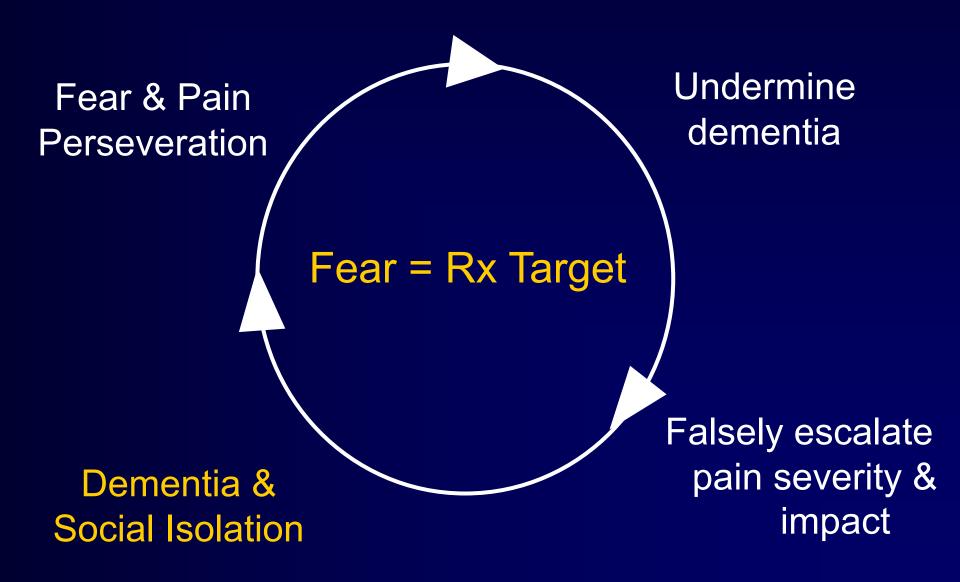


Affluence Social Support



Socially isolated
Physically ill
Psychologically unwell
Demented
Impaired mobility
Chronic pain





### Basic Understanding of Pain Channels

descending modulatory influences

+/- NE , 5-HT, glut, NMDA, GABA

Depression/Anxiety
Insomnia
Maladaptive Coping (fear avoidance beliefs, catastrophizing)

Low Self-Efficacy

Fibromyalgia

**Dementia** 

sensory-discriminative (nociceptive channel)

spinal cord



Slide used with permission from Gerald F. Gebhart, PhD, Director, PCPR

viscera

skin

muscle

joints

# Dementia may impact...

- Pain reporting
  - Reliable for current pain intensity
  - Historical inaccuracy, ? validity
- Treatment compliance
- Pain coping
  - Fear avoidance
- Treatment expectancy
- Treatment response?

Analgesic ——> Pharmacodynamic effect

Analgesic ——> Pharmacodynamic effect

Treatment Expectancy ——— Hope ——— Pain

Analgesic ——> Pharmacodynamic effect

Treatment Expectancy ——— Hope - Placebo effect

Analgesic ——> Pharmacodynamic effect

Treatment Expectancy ———— Hope - Placebo effect

Pharmacodynamic effect + Placebo effect

Analgesic ——> Pharmacodynamic effect Treatment Expectancy ——— Hope - Placebo effect PAIN cebo effect Pharmacodynai

Loss of expectation-related mechanisms in Alzheimer's disease makes analgesic therapies less effective

Benedetti F, et al. Pain 121 (2006) 133–144

### Impact of Dementia on Rx Response?

 Because of reduced treatment expectancy, patients with advanced dementia may respond less robustly to treatment interventions.

- Involve caregiver in treatment sessions
- Teach more slowly
- Alter your expectations of rate of progress
- Reinforce, reinforce, reinforce
- Start low, go slow...and keep going

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### TAKE HOME POINT

 Treating psychosocial dysfunction (e.g., depression, anxiety, fear-avoidance beliefs, low self-efficacy) holds an important key to minimizing PAIN INTERFERENCE, the key treatment outcome in those with chronic pain.

### TAKE HOME POINT

- 2. Myofascial pain (characterized by taut bands and trigger points), a mimicker of neuropathic pain, is most effectively treated with a 3-pronged approach:
  - Treat perpetuating/precipitating factors
  - Treat trigger points
  - Engage patient in self-management

### TAKE HOME POINT

- 3. Patients with dementia may express pain and respond to pain treatments differently that those who are cognitively intact. Cornerstones of effective management include:
  - Observing behaviors
  - Addressing fear
  - Involving caregivers

