# The Evidence for Complementary & Integrative Medicine for Low Back Pain

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### **Disclosures**

• No relevant financial conflicts of interest to disclose

### **Main Points**

- Morbidity, disability, and cost of LBP is enormous
- Patient-centered biopsychosocial model is essential
- Risk stratification for prognosis and treatment
- Recommend self-care and nonpharmacologic therapies first
- Opioids only after careful consideration of risks and benefits

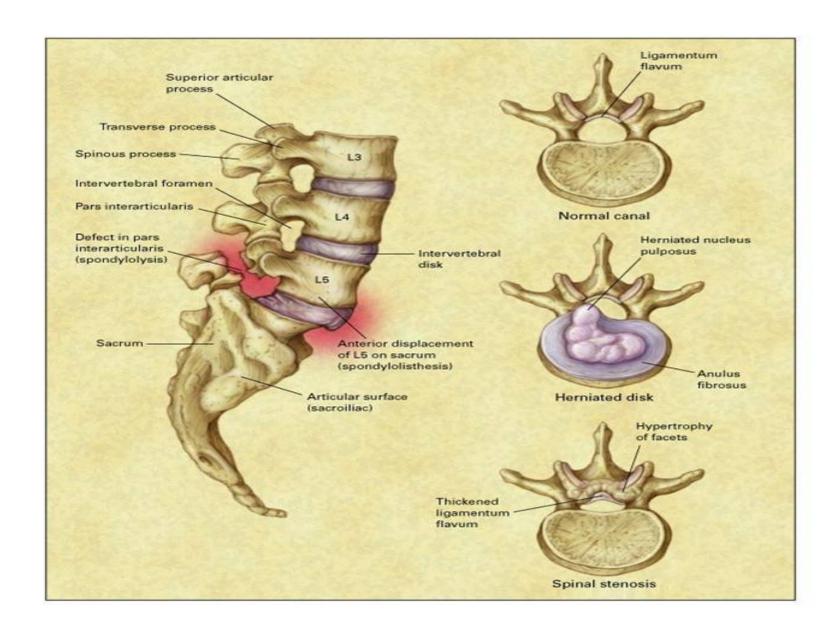
### The Burden of Low Back Pain

- Lifetime incidence approaching 90%
- 43-60% of Americans report spine pain in the past 3 months
- \$100 billion annual direct costs
- Total annual costs >\$500 billion
- Common cause for office visit
- Most common and most expensive cause of worker's compensation claims
- Leading cause of global disability

### **Effect on Lives Can Be Profound**

- Impact on function: work, physical, psychosocial, ADLs & IADLs
- Loss of activities that bring joy and meaning to life
- A sense of suffering, often in isolation
- Feelings of anger, depression, and guilt
- Impact on family
  - Emotional and physical energy caring for person in chronic pain
  - They experience the same anger, depression, and guilt
  - Pain controls their lives as well

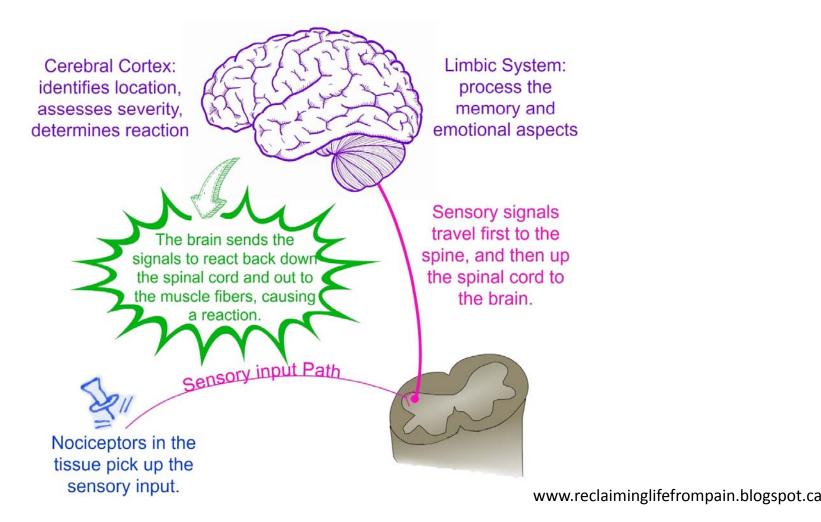
# Specific Causes of Back Pain



# Acute (<4 weeks) and Subacute (4-12 weeks) Nonspecific Low Back Pain

- Common
- Mechanism: Injury to ligaments, facet joints, muscle, fascia, nerve roots, or disc
- 75-90% resolve spontaneously

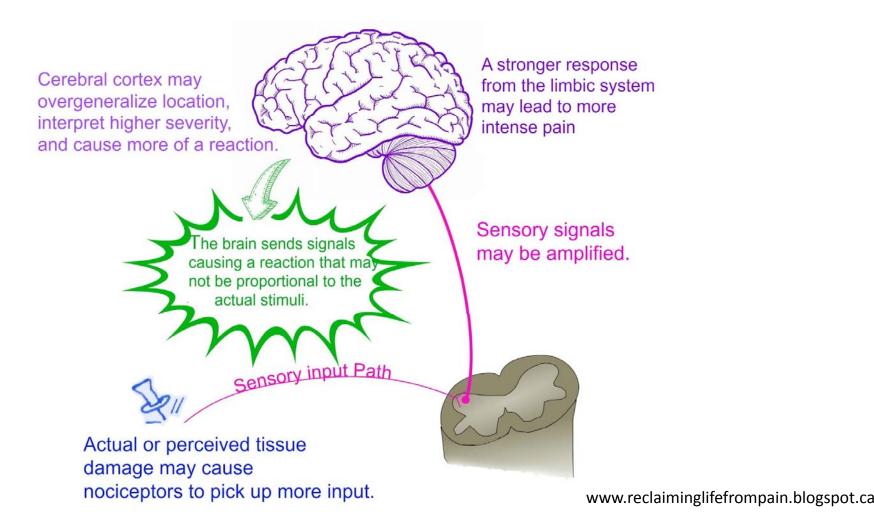
### **Acute Pain Loop**



# Nonspecific Chronic Low Back Pain (>12 weeks)

- Complex poorly understood condition
- Different CNS patterns than acute LBP
- Contributes to most suffering and cost
- Pharmaceuticals can help but often not fully satisfactory

### **Chronic Pain**



### **Red Flags**

- Malignancy
- Infection
- Fracture
- non-MSK cause
- Systemic inflammatory condition
- Progressive weakness, bowel or bladder changes, saddle anesthesia

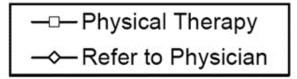


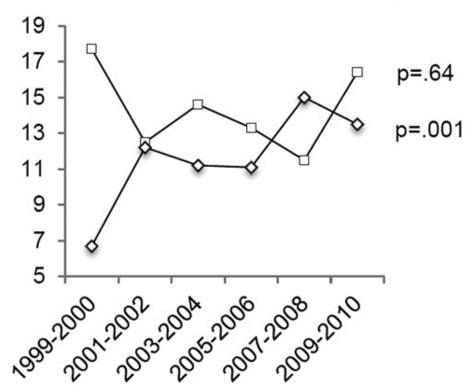
### **Standard Therapies**

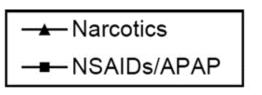
- Acetaminophen
- NSAIDs
- Skeletal Muscle Relaxants
- Opioids
- TCAs
- SSRIs

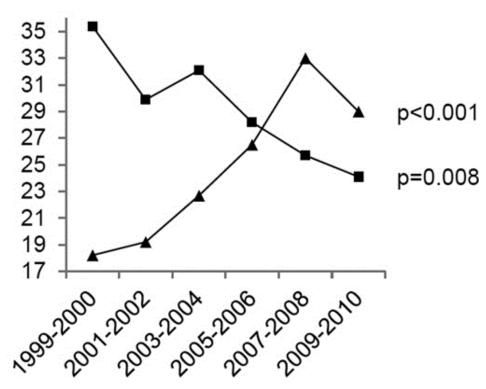
- Anti-convulsants
- Duloxetine
- Topical analgesics
- Physical Therapy
- Epidural Steroid Injections
- Surgery

### **Trends in Treatment of Back Pain**









Mafi JN et al. JAMA internal medicine. 2013;173(17):1573-1581.

### **Imaging**

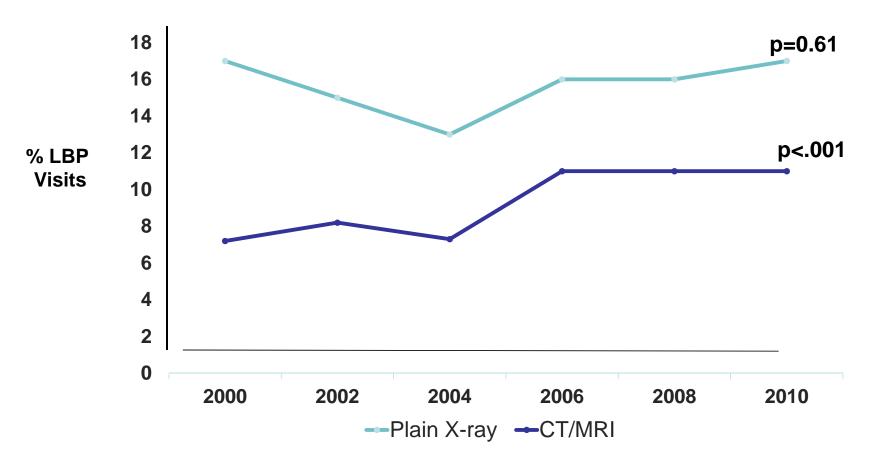
Lumbar imaging in patients without indications of serious underlying conditions does not improve clinical outcomes





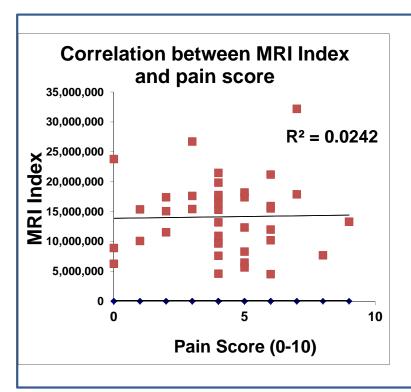


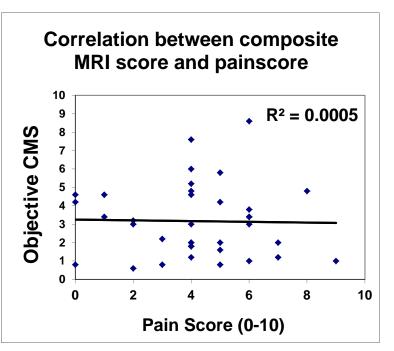
### **Imaging for Low Back Pain over Time**



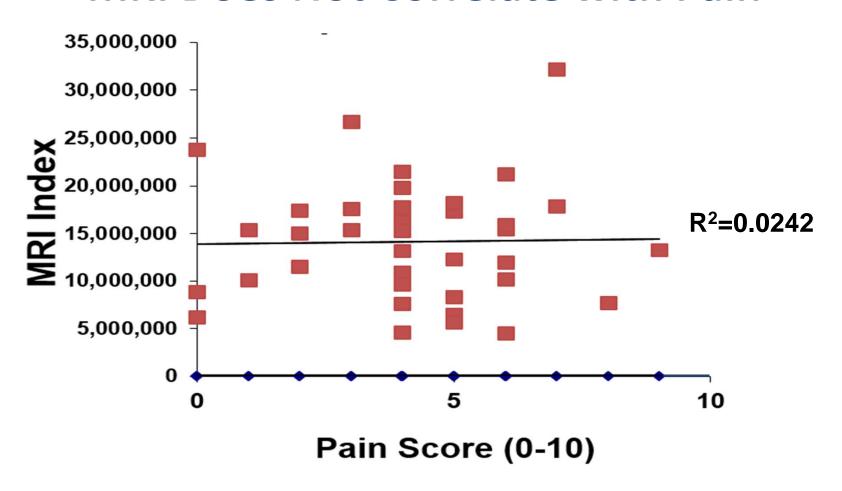
Mafi JN et al. JAMA internal medicine. 2013;173(17):1573-1581.

### MRI does not correlate with pain





### **MRI Does Not Correlate with Pain**



### **latrogenic Imaging Disability**

"An increase in pain, disability and suffering that directly results from the communication, from a respected health care practitioner, of benign imaging findings as if they were significant pathological conditions."

Donald Murphy, DC

### **A National Health Crisis**





### Every 13 minutes there is a death from opioid overdose<sup>1</sup>

### **2.1M Americans** suffer from an opioid use disorder<sup>2</sup>

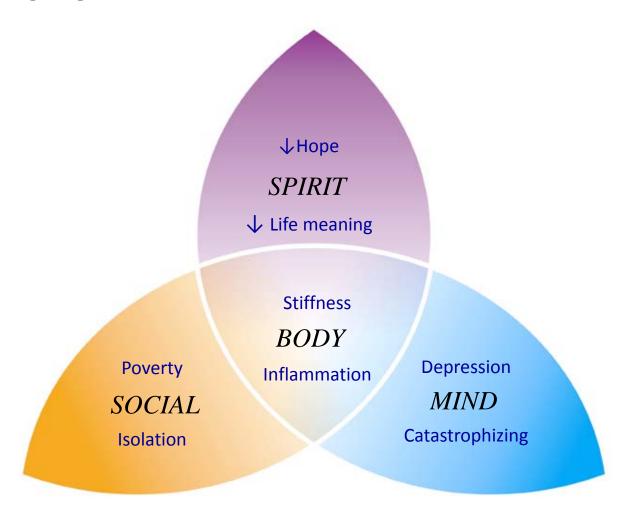
### **\$504B** estimated annual costs of U.S. opioid epidemic<sup>3</sup>

1. Hedegaard H, Warner M, Miniño AM. Drug overdose deaths in the United States, 1999–2016. NCHS Data Brief, no 294. Hyattsville, MD: National Center for Health Statistics. 2017/ CDC. Wide-ranging online data for epidemiologic research (WONDER). Atlanta, GA: CDC, National Center for Health Statistics; 2016. (Calculation based on stat: Overdoses involving opioids killed 42,249 people in 2016, or 116 deaths a day. 40% of those deaths were from prescription opioids.) 2. Substance Abuse and Mental Health Services Administration. (2017). Key substance use and mental health indicators in the United States: Results from the 2016 National Survey on Drug Use and Health (HHS Publication No. SMA 17-5044, NSDUH Series H-52). Rockville, MD: Center for Behavioral Health Statistics and Quality, Substance Abuse and Mental Health Services Administration. <sup>3</sup>The Underestimated Cost of the Opioid Crisis. The Council of Economic Advisors. November 2017; Accessed at <a href="https://www.whitehouse.gov">https://www.whitehouse.gov</a>

### From pain to overdose and death



### **Biopsychosocial Model of Chronic Pain**



### **Yellow Flags**

- Fear Avoidance Beliefs
- Maladaptive Coping, eg Catastrophizing
- Depression
- Anxiety
- Work dissatisfaction
- Substance Use Disorder



Effect of Stratified Care for Low Back Pain in Family Practice (IMPaCT Back): A Prospective Population-Based Sequential Comparison

**CONCLUSIONS** Stratified care for back pain implemented in family practice leads to significant improvements in patient disability outcomes and a halving in time off work, without increasing health care costs. Wider implementation is recommended.

			STarT I	Back	_	Disagree 0	Agree 1
1	My back pain has spread down my leg(s) at some time in the last 2 weeks						
2	I have had pain in the shoulder or neck at some time in the last 2 weeks						
3	I have only walked short distances because of my back pain						
4	4 In the last 2 weeks, I have dressed more slowly than usual because of back pain						
5	5 It's not really safe for a person with a condition like mine to be physically active						
6	6 Worrying thoughts have been going through my mind a lot of the time						
7	I feel that my back pain is terrible and it's never going to get any better						
8	8 In general I have <b>not enjoyed</b> all the things I used to enjoy						
9.	Overall, how bothe	rsome has your l	oack pain been in th	e last 2 weeks?			
	Not at all	Slightly	Moderately	Very much	Extreme	ly	
	0	0	0	□ 1	1		

Ann Fam Med 2014;102-111. doi: 10.1370/afm.1625.

### **Psychologically Informed Physical Therapy (PIPT)**



Improve physical function through tailored stretching, strengthening, and aerobic exercises



Address psychosocial obstacles to recovery through education, coaching, graded exercise

Fear Avoidance Behaviors and Beliefs
Catastrophizing



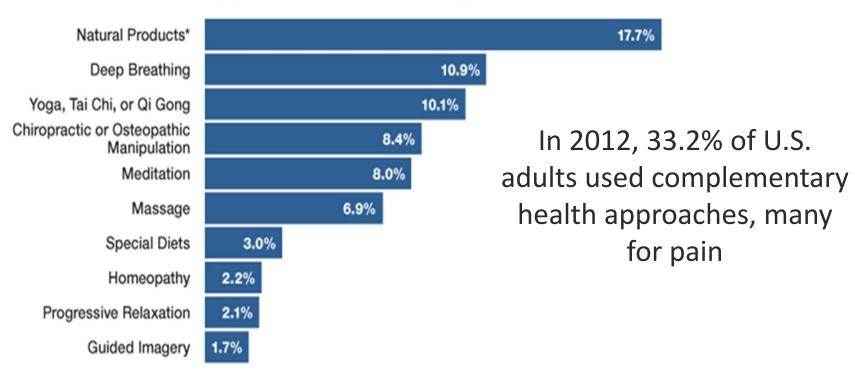
"You've been fooling around with alternative medicines, haven't you?"

### **Definitions**

- Alternative Medicine: in lieu of conventional care
- Complementary Medicine: as adjunct to conventional care
- <u>CAM</u>: "A group of diverse medical and healthcare systems, practices, and products that are not presently considered to be part of conventional medicine."
- Integrative Medicine: Combines evidence-based CAM with evidence-based conventional care in a patient- and relationshipcentered approach

# 2012 National Health Interview Survey CAM Supplement

10 most common complementary health approaches among adults



# Use of CAM by U.S. Adults for Back Pain – 2012

	Any CAM n=3892	Acupuncture n=261	Chiropractic Manipulation n=1363	Massage n=1017	Yoga/Qigong/Tai chi n=905	
Jsed for back pain, %	21.1	19.5	40.7	22.2	8.1	
erceived benefit (of those who	o used CAM for back pa	in), %				
Great	58.1	64.6	62.0	54.7	53.2	
Some	29.1	16.4	27.2	30.8	36.8	
	8.0	11.8	6.1	9.4	8.1	
Only a little	0.0	11.0	######################################			

### Acupuncture







### Acupuncture

49 Trials (n=7,958; range 16-2831)

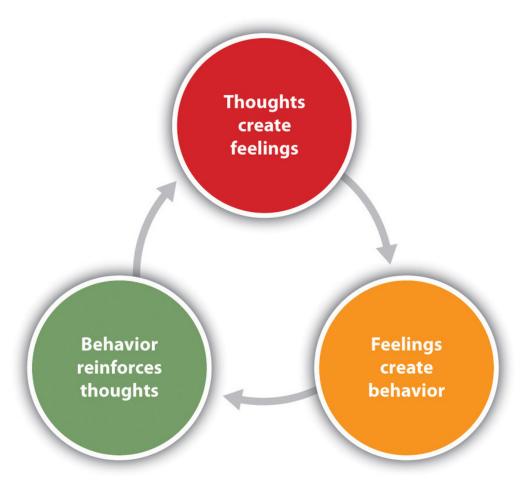
#### Acute low back pain

- ↓ pain intensity cf: sham
- Greater likelihood of overall improvement cf: NSAIDs (5 trials: RR 1.11 [CI, 1.06 to 1.16]

#### Chronic low back pain

- $\downarrow$  pain intensity and  $\uparrow$  function cf: sham
- Greater pain relief (−10.6 on a 0-100-point scale [CI, −20.34 to −0.78])
   and better function (WMD −0.36 [CI, −0.67 to −0.04]) cf: NSAIDs, muscle
   relaxants

### **Cognitive Behavioral Therapy (CBT)**



CBT Los Angeles, Cogbtherapy.com

#### **Mindfulness**

<u>Definition</u>: Purposeful attention to your experience in the moment without judgement

### Mindfulness Based Stress Reduction (MBSR)

- Developed by Jon Kabat-Zin at the UMASS Medical Center
- Standardized 8 week program
- Teacher certification
- Studied widely
- Weekly 2 hour session, daily homework, and daylong retreat
- Sitting meditation, walking meditation, & yoga

# Mindfulness-Based Stress Reduction (MBSR) vs. Cognitive Behavioral Therapy (CBT) vs. Usual Care for Chronic Low Back Pain

Follow-up Week	Usual Care	Mindfulness-Based Stress Reduction	Cognitive Behavioral Therapy	<i>P</i> Value for Omnibus <sup>c</sup>			
Roland Disa	d Disability Questionnaire Results						
4	27.3 (20.3-36.6)	34.5 (26.8-44.3)	24.7 (18.1-33.8)	.23			
8	35.4 (27.6-45.2)	47.4 (38.9-57.6)	51.9 (43.6-61.7)	.04 <sup>d</sup>			
26	44.1 (35.9-54.2)	60.5 (52.0-70.3)	57.7 (49.2-67.6)	.04 <sup>d</sup>			
52	48.6 (40.3-58.6)	68.6 (60.3-78.1)	58.8 (50.6-68.4)	.01 <sup>d</sup>			
Pain Bother	someness Results	omeness Results					
4	20.6 (14.6-28.9)	19.1 (13.3-27.4)	21.7 (15.3-30.6)	.88			
8	24.7 (18.1-33.6)	36.1 (28.3-46.0)	33.8 (26.5-43.2)	.15			
26	26.6 (19.8-35.9)	43.6 (35.6-53.3)	44.9 (36.7-55.1)	.01 <sup>d</sup>			
52	31.0 (23.8-40.3)	48.5 (40.3-58.3)	39.6 (31.7-49.5)	.02 <sup>d</sup>			

Cherkin et al. JAMA. 2016;315(12):1240-1249.

### **Economic Evaluation of MBSR vs. CBT vs. Usual Care for Chronic LBP**

301 patients

**Society**: Compared with Usual Care, mean incremental cost per participant to society of CBT was \$125 and MBSR -\$724

<u>Payer</u>: Incremental costs per participant to the health plan were \$495 for CBT over UC and -\$982 for MBSR

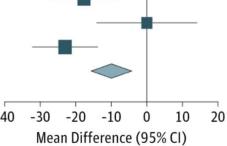
<u>Participant</u>: Incremental back-related costs per participant were \$984 for CBT over UC and -\$127 for MBSR. Statistically significant gains in QALYs over UC: 0.041 for CBT and 0.034 for MBSR

Herman P et al. Spine (Phila Pa 1976). 2017;42(20):1511-1520



### **Spinal Manipulative Therapy for Acute Low Back Pain: Pain Intensity**

		Outcome Measure	Spinal Manipulation		Comparator			
Study	Quality Score		Sample Size	Mean (95% CI)	Sample Size	Mean (95% CI)	Mean Difference (95% CI)	
Comparison group, sham								
Hancock et al, <sup>12</sup> 2007	9	ONRS	119	NRa	120	NR <sup>a</sup>	-2.00 (-7.00 to 3.00)	
Hoiriis et al, <sup>50</sup> 2004	3	VAS	34	17 (11 to 23)	40	22 (16 to 28)	-5.00 (-13.89 to 3.89)	
Comparison group, all other thera	pies							
Skargren et al, <sup>51</sup> 1998	2	VAS	172	$NR^a$	139	NR <sup>a</sup>	-0.16 (-6.47 to 6.15)	
Cherkin et al, <sup>16</sup> 1998	6	ONRS	118	19 (16 to 22)	60	31 (25 to 37)	-12.00 (-18.65 to -5.35)	
Grunnesjö et al, <sup>35</sup> 2004	7	ONRS	89	21 (16 to 26)	71	30 (24 to 36)	-8.90 (-16.61 to -1.19)	
Blomberg et al, <sup>31, 34, 59-61</sup> 1994	6	ONRS	53	17 (10 to 24)	48	34 (27 to 41)	-17.00 (-26.76 to -7.24)	
Bergquist-Ullman et al, <sup>38</sup> 1977	2	ONRS	50	30 (23 to 37)	44	31 (24 to 38)	-1.43 (-11.57 to 8.71)	
Goertz et al, <sup>10</sup> 2013	7	NRS	45	39 (32 to 46)	46	52 (45 to 59)	-13.00 (-23.27 to -2.73)	
Hoiriis et al, <sup>50</sup> 2004	3	VAS	34	17 (11 to 23)	36	22 (15 to 29)	-5.30 (-14.94 to 4.34)	
Cruser et al,8 2012	7	VAS	30	20 (15 to 25)	30	37 (28 to 46)	-17.70 (-27.74 to -7.66)	
Farrell et al, <sup>48</sup> 1982	3	ONRS	24	3 (-7 to 13)	24	3 (-7 to 13)	0 (-14.14 to 14.14)	
Morton et al, <sup>46</sup> 1999	3	VAS	15	2 (0 to 4)	14	25 (16 to 34)	-23.03 (-32.24 to -13.82)	
Random-effects model							-9.95 (-15.63 to -4.27)	



**Favors Spinal** 

Manipulation

**Favors** 

Comparator

### **Massage Therapy**

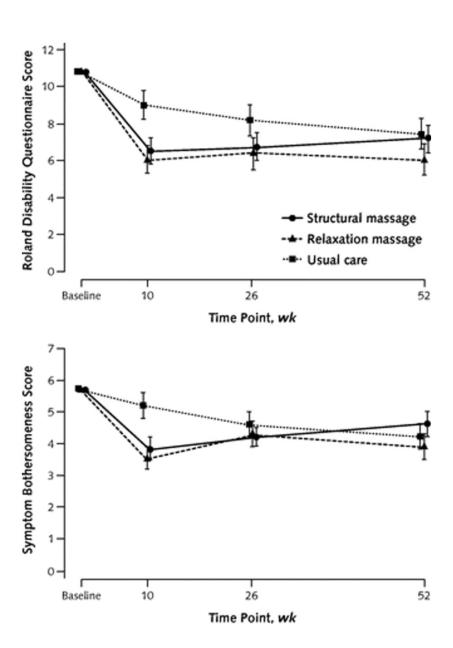




- 26 trials (n = 3239, range 15-579)
- Massage had better effects on short-term pain in 8 of 9 trials and function in 4 of 5 trials cf: to manipulation, exercise, relaxation therapy, acupuncture, PT, and TENS

Chou R et al. Nonpharmacologic therapies for low back pain: a systematic review for an American College of Physicians clinical practice guideline. Ann Intern Med. 2017; 166(7):493-505

# Two Forms of Massage vs. Usual Care for Chronic LBP



Cherkin et al, Ann Int Med 2011

## Yoga



Postures *Asanas* 



Breathing *Pranayama* 

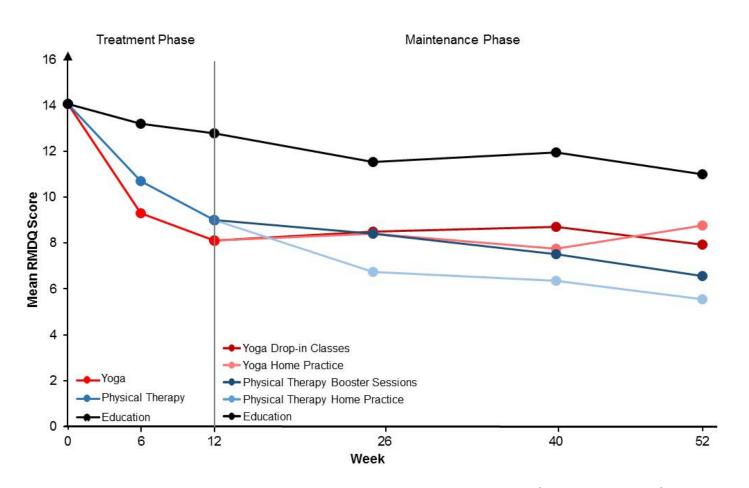


Meditation

## Meta-analysis of Yoga for LBP

Follow-up duration	Outcomes	Number of trials (n)	Standardized mean difference (95% CI)	
Short-term	Pain	6 (584)	−0.48 (−0.65 to −0.31)	
	Back-specific disability	8 (689)	-0.59 (-0.87 to -0.30)	
Long-term	Pain	5 (564)	-0.33 (-0.59 to -0.07)	
	Back-specific disability	5 (574)	−0.35 (−0.55 to −0.15)	

## Yoga, PT, or Education for Chronic Low Back Pain: a randomized noninferiority trial



I felt good because I was doing something, not sitting around waiting for a diagnosis, not taking another pill. I was involved in my treatment.

It's going to have to be something that's part of my life... I'm looking at it as a medical treatment—it's not just a yoga class.

People can push those buttons as they used to, they can't make you angry, because now you have something that keeps you calm regardless.

Saper R et al. Ann Intern Med. 2017; Keosaian JE et al. Complement Ther Med 2016

Qaseem et al, Ann Int Med 2017

#### **Acute/subacute LBP**

Use nonpharmacologic treatment first

- Heat
- Massage
- Acupuncture
- Spinal manipulation

If pharmacologic treatment desired, select NSAIDS and/or muscle relaxants



#### CLINICAL GUIDELINE

#### Noninvasive Treatments for Acute, Subacute, and Chronic Low Back Pain: A Clinical Practice Guideline From the American College of Physicians

Amir Qaseem, MD, PhD, MHA; Timothy J. Wilt, MD, MPH; Robert M. McLean, MD; and Mary Ann Forciea, MD; for the Clinical Guidelines Committee of the American College of Physicians\*

**Description:** The American College of Physicians (ACP) developed this guideline to present the evidence and provide clinical recommendations on noninvasive treatment of low back pain.

Methods: Using the ACP grading system, the committee based these recommendations on a systematic review of randomized, controlled trials and systematic reviews published through April 2015 on noninvasive pharmacologic and nonpharmacologic treatments for low back pain. Updated searches were performed through November 2016. Clinical outcomes evaluated included reduction or elimination of low back pain, improvement in back-specific and overall function, improvement in health-related quality of life, reduction in work disability and return to work, global improvement, number of back pain episodes or time between episodes, patient satisfaction, and adverse effects.

Target Audience and Patient Population: The target audience for this guideline includes all clinicians, and the target patient population includes adults with acute, subacute, or chronic law hadr pain.

Recommendation 1: Given that most patients with acute or subacute low back pain improve over time regardless of treatment, clinicians and patients should select nonpharmacologic treatment with superficial heat (moderate-quality evidence), massage, acupuncture, or spinal manipulation (low-quality evidence). If pharmacologic treatment is desired, clinicians and patients should select nonsteroidal anti-inflammatory drugs or skeletal muscle relaxants (moderate-quality evidence). (Grade: strong recommendation)

Recommendation 2: For patients with chronic low back pain, clinicians and patients should initially select nonpharmacologic treatment with exercise, multidisciplinary rehabilitation, acupuncture, mindfulness-based stress reduction (moderate-quality evidence), tai chi, yoga, motor control exercise, progressive relaxation, electromyography biofeedback, low-level laser therapy, operant therapy, cognitive behavioral therapy, or spinal manipulation (low-quality evidence). (Grade: strong recommendation)

Recommendation 3: In patients with chronic low back pain who have had an inadequate response to nonpharmacologic therapy, clinicians and patients should consider pharmacologic treatment with nonsteroidal anti-inflammatory drugs as first-line therapy, or tramadol or duloxetine as second-line therapy. Clinicians should only consider opioids as an option in patients who have failed the aforementioned treatments and only if the potential benefits outweigh the risks for individual patients and after a discussion of known risks and realistic benefits with patients. (Grade: weak recommendation, moderate-quality evidence)

Ann Intern Med. doi:10.7326/M16-2367
For author affiliations, see end of text.
This article was published at Annals.org on 14 February 2017.

Qaseem et al, Ann Int Med 2017

#### **Chronic LBP**

Use nonpharmacologic treatment first

- Exercise (self-care or PT)
- Spinal manipulation (Chiro or PT)
- Acupuncture
- Yoga
- MBSR
- CBT
- Tai chi



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Qaseem et al, Ann Int Med 2017

#### **Chronic LBP (continued)**

If inadequate response, consider pharmacologic treatment

- 1. NSAIDS
- 2. Tramadol or duloxetine
- 3. Opioids only for patients who have failed above, not at high risk for substance use disorder, potential benefits outweigh risks, and discussion with patient of known risks and realistic benefits.



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- Reassure patients that acute or subacute LBP usually improves over time
- Advise patients to remain as active as tolerated
- Avoid prescribing costly and potentially harmful imaging and treatments
- Avoid ineffective treatments, such as acetaminophen, systemic steroids, TCAs and SSRIs
- Base treatment recommendations on patient preferences that also minimize harms and costs

Qaseem et al, Ann Int Med 2017

## Opioid Risk Tool (ORT)

Mark each box that applies		Female	Male		
1.	Family Hx of substance abuse				
	Alcohol				
	Illegal drugs		□ <sup>3</sup>		
	Prescription drugs	□ ⁴	□ 4		
2.	Personal Hx of substance abuse				
	Alcohol	□ <sup>3</sup>	□ <sup>3</sup>		
	Illegal drugs				
	Prescription drugs	□ <sup>5</sup>	□ 5		
3.	Age between 16 & 45 yrs	□ ¹			
4.	Hx of preadolescent sexual abuse	□ 3	□ <sup>0</sup>		
5.	Psychologic disease	2 - 5 - 5 - 5	- magain		
	ADD, OCD, bipolar, schizophrenia		□ <sup>2</sup>		
	Depression				

Scoring (risk)

0-3: low

4-7: moderate

≥8: high

Scoring Totals:

Webster et al, Pain Medicine 2005;6:432-42

denmar.impulsar.co/opioid-risk-tool-patient-form/

## The Stanford Five--Ask about each of these:

- 1. Patient's belief about the cause of pain
- 2. Meaning of pain from patient's perspective
- 3. Impact of pain on life from patient's perspective
- 4. Patient's goals
- 5. Patients perception of appropriate treatment

## Counseling the Patient: Adopting a Helpful Lexicon

- Avoid medical jargon
- Use easily understood language
- Verbalize you have ruled out serious pathology
- Be calm, confident, positive and empathetic
  - Physician attitudes and beliefs correlate with patient attitudes, beliefs, and clinical outcomes.
- Emphasize pain does not mean they are doing more damage
- Encourage staying active

#### **Final Comments**

- Understand the impact of LBP on the patient
- A patho-anatomic model is helpful only in a small minority of cases
- Use risk stratification to guide treatment
- Imaging, opioids, specialty referrals should be the exception, not the rule
- Self-management, nonpharmacologic therapies, and nonopioid medications should be the mainstay of treatment

## Thank you