



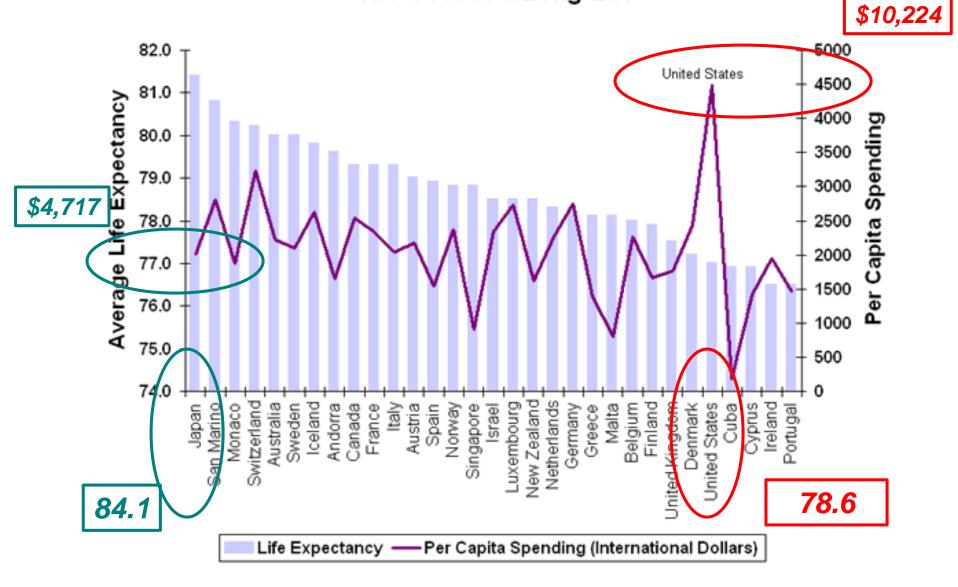
The Movement Toward the Non-Pharmacological Treatment of Pain: Implications for the Underserved

Margaret A. Chesney, PhD 2019 IM4US Annual Conference Santa Clara, California August 23, 2019



- Consider the context that is giving rise to increased interest in integrative health
- Highlight how the opioid crisis opens the door to *integrative approaches* to pain
- Present examples of integrative models of care for pain; *focus turns to FQHCs*
- Discuss potential challenges and opportunities to increase the *effectiveness* of integrative therapies for the underserved

The Cost of a Long Life



2018 Data – Organization for Economic Cooperation and Development, 35 Countries US Rank 27th of 35



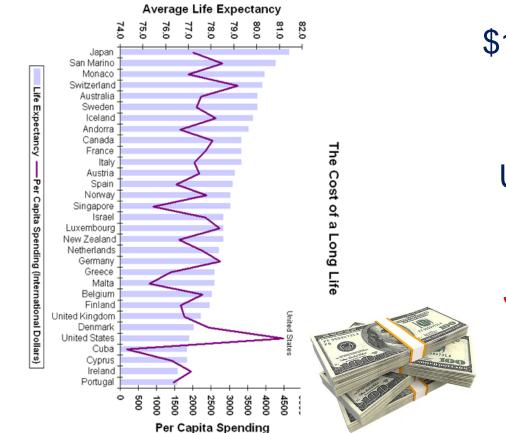
Healthcare Facts – 35 Countries

United States

- Ranks #1 on obesity
- Ranks #33/35 on prevalence of diabetes
- Ranks #1 in drug related deaths
- Ranks #1 in pharmaceutical spending



Look at this differently ...



\$10,224 per capita

Do the math:

US Population = 329,484,310



Organization for Economic Cooperation and Development – 2018 (USA Today, Dec 2018) Centers for Disease Control and Prevention (2018)



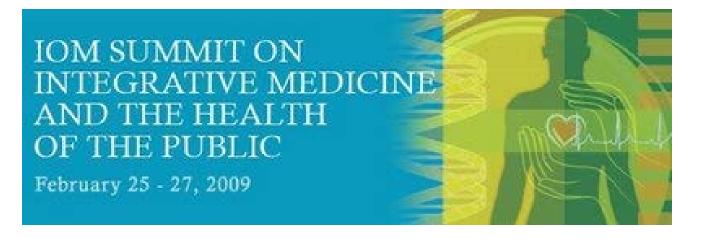
Top 8 US Companies

Rank	Company	Revenue (Billions)	
1	Walmart	\$514	
2	Exxon Mobil	\$290	
3	Apple	\$266	
4	Berkshire Hathaway	\$248	M CKESSON
5	Amazon	\$233	
6	United Health Group	\$226	
7	McKesson	\$208	
8	CVS Heath	\$195	Health

UNITEDHEALTH GROUP®



- There are major vested interests in driving up health care costs
- Health care has been a leading contributor to the increases in the U.S. GDP = 17.8% (2019)
- Companies, owners, and stock-holders are making money
- "Financial Gain" appears to be more important than life-expectancy to some policy makers



- "The disease-driven approach to care has resulted in
 - spiraling costs as well as
 - a fragmented health system that is
 - reactive and episodic as well as
 - inefficient and impersonal."



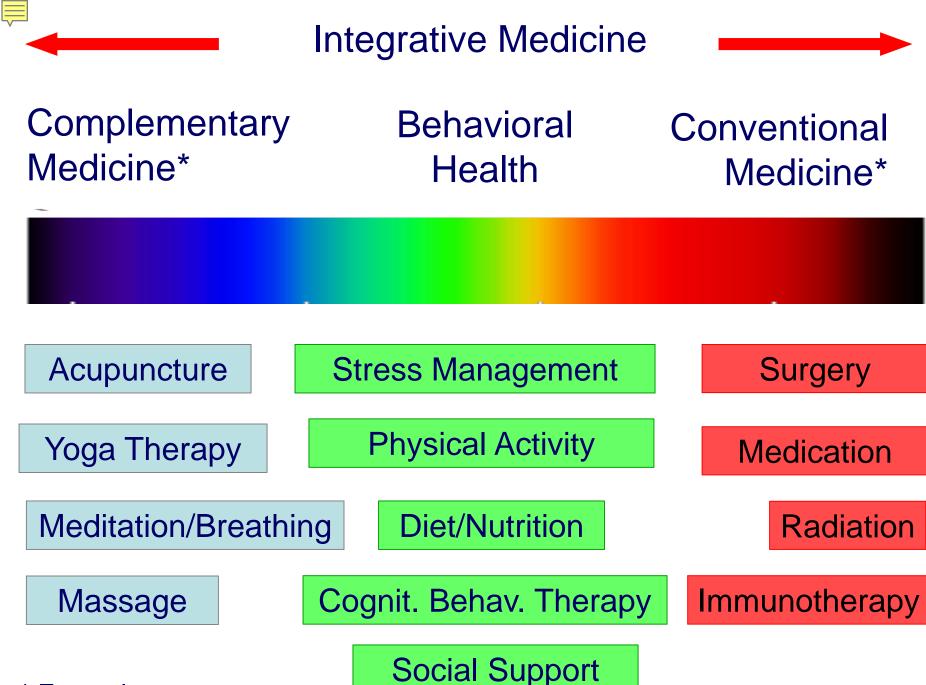


Disease-driven care

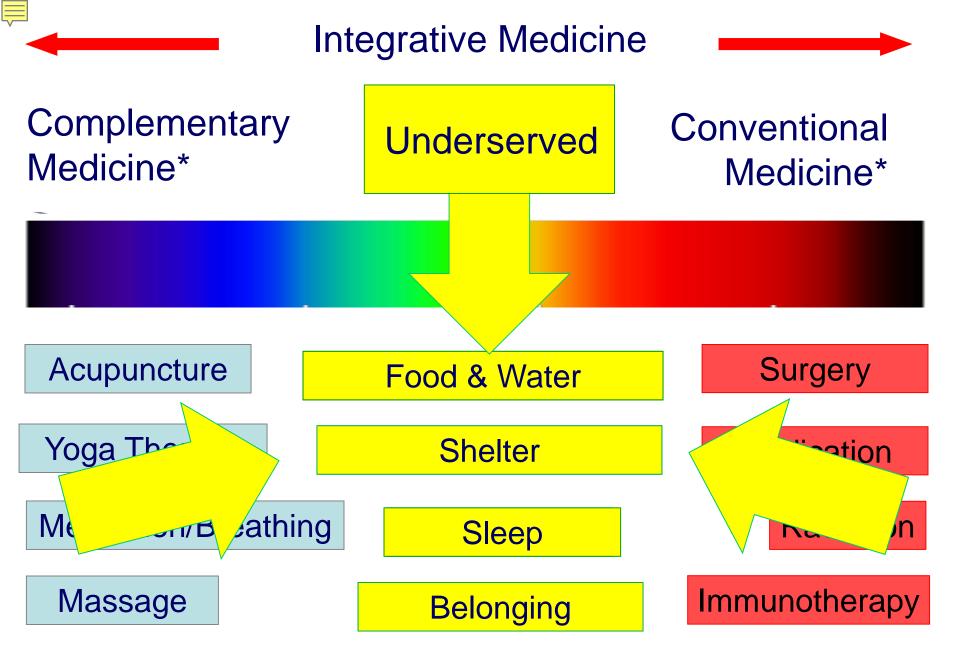
- a <u>fragmented</u> health system
- reactive and episodic
- inefficient and impersonal."

Integrative Health

- an integrated patient-centered team
- focuses on whole person person, lifestyle, lifespan
- reaffirms the relationship between the patient and practitioners



* Examples



* Examples



1999: Consortium Formed - 8 Centers



To apply Academic Health Centers need 2 of 3 Programs: Clinical, Education, Research



Albert Einstein/Yeshiva University **Allina Health Systems Aurora Health Care Beaumont Health System Boston University** Cedars Sinai Los Angeles **Central Maine Healthcare Cleveland Clinic** Columbia University **Connor Integrative Health Cornell University Duke University Emory University Georgetown University** George Washington University Harvard Medical School **INOVA Health** Johns Hopkins University Mayo Clinic McMaster University, Ontario **MD** Anderson **Medstar Health Memorial Sloan Kettering Meridian Health** Mount Sinai Medical Center New York University Northwestern University **Ohio State University**

2019 - 76 Members*

Oregon Health & Science University Pennsylvania State Univ., Hershey Rutgers New Jersey Medial School Scripps Health Sutter Health Stanford University Temple University Tecnológico de Monterrey, Mexico Texas Tech University Medical Center Thomas Jefferson University

Tufts University University of Alberta University of Arkansas University of Arizona University of Calgary University of California (UC) UCI, UCLA, UCSD, UCSF

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University of Chicago University of Cincinnati University of Colorado University of Connecticut Univ. of Florida University of Kansas University of Kentucky University of Maryland University of Massachusetts University of Miami University of Michigan University of Minnesota University of New Mexico University of North Carolina University of Pennsylvania University of Pittsburgh University of Saskatchewan University of Southern Ca. University of TN, Knoxville University of Texas, MB University of Utah University of Vermont University of Washington University of Wisconsin, Vanderbilt University **Veterans Administration** Wake Forest University

* Apologies to Yale University Canada & Mexico



Complementary / Integrative Medicine Use Increasing

- NCCIH / Nat'l Health Interview in 2002, 2007, 2012 & 2017
- National random sample
 2002: 31,044 adults 36.6%
 2007: 23,393 adults 38.3%
 9,417 children 11.8%
 2012 & 17: 34,525 adults 10,218 children levels



Barnes et al., CDC, 2004, 2008; Black et al., CDC, 2015; Clarke et al., 2018



Primary Reason that Americans Turn to Integrative Medicine: Pain

- True for all surveys, 2002 2017
 Today:
- 50 million adults in the United States have chronic daily pain
- 19.6 million experience high impact chronic pain that interferes with daily life or work activities
- Cost to the nation: \$560 \$635 billion annually
- At the same time: Nation facing opioid crisis

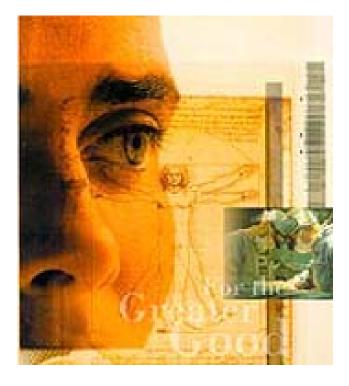


Pain is More Prevalent in Socio-Economically Vulnerable Groups

- 17.1% of adults over 50 in the lowest wealth quartile have disabling chronic pain, double the overall rate of 8.2% *
- From a bio-psycho-social perspective, complex factors contribute to chronic pain in the underserved in settings characterized by:
 - stigma, discrimination, prejudice
 - poverty, challenges to meeting basic needs**
- In recent studies, underserved and older adults with chronic pain were less likely to receive nonpharmacologic treatments known to be effective for pain, such as cognitive-behavioral therapy***

*Janevic, et al., *J of Pain*, 18, 2017, 18, **Newman, et al., *Pain*, 158, 2017, ***Ehde, et al., Cognitive behavior therapy for pain, Amer Psych, 69, 2014...

Considerable research focused on integrative approaches for chronic pain





Efficacy

Mechanisms

Evidence is essential...but not sufficient



Yoga for Chronic Low Back Pain (cLBP) in the Underserved *Context*

- Chronic LBP costs the US = \$200B annually
- Affects approximately 10% US adults
- Disproportionately affects racial and ethnic communities and lower SES groups
- Physicians seeking a non-pharmacological therapy most frequently refer patients to individual Physical Therapy (PT) for individual stretching and strengthening exercises ~ *it is covered*



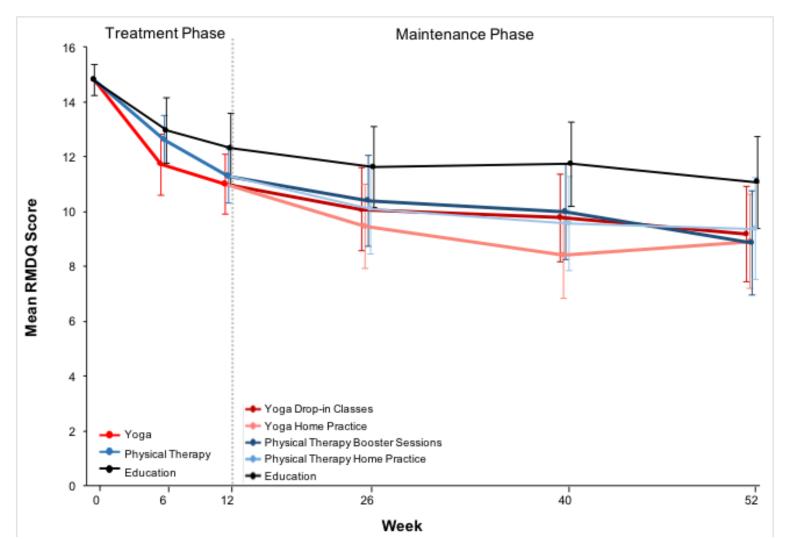
Yoga for Chronic Low Back Pain (cLBP) in the Underserved Design of Saper et al.

- 320 patients, cLBP randomized
 - Yoga 12 weekly, 75-min group classes, 30-min home practice, followed to 1 year with classes (n = 127)
 - PT- 15, 60-min individual appts. over 12 weeks, followed to 1 year, half randomized to 5 boosters (n = 129)
 - Education The Back Pain Helpbook with newsletter and support calls (n = 64)
- Outcomes Roland Morris Disability Questionnaire (RMDQ)

Saper et al., Annals of Internal Med, 2017.



Yoga for Chronic Low Back Pain Roland Morris Disability: Intention to Treat





Yoga for Chronic Low Back Pain (cLBP) in the Underserved *Results*

- Primary Outcome: Improvement in RMDQ by participants in Yoga was not inferior to improvement by those in PT
 - Yoga Decrease in disability: -1.7
 - PT Decrease in disability: -2.6
- Compared to Education:
 - Yoga and PT less likely to use medications
 - Yoga and PT more satisfied with the intervention

Saper et al., Annals of Internal Med, 2017.

Chronic Low Back Pain MBSR vs CBT vs Usual Care - Design



- 342 adults chronic low back pain
- Randomized to
 - MBSR (8 weekly, 2-hr classes)
 - CBT (8 weekly, 2-hr classes)
 - Usual care control
- Outcome:
 - Roland Disability Index
 - Bothersomeness

Cherkin, Sherman et al., JAMA, 315, 2016

Chronic Low Back Pain MBSR vs CBT vs Usual Care - Results

Outcomes

<u>Group</u>	<u>MBSR</u>	<u>CBT</u>	<u>UC</u>
Roland RDQ	60.5%	57.7%	44.1%
Less	43.6%	44.9%	26.6%
Bothersome			



MBSR = CBT, both superior to UC

 These finding indicate that either MBSR or CBT are effective treatment options for chronic low back pain.

Key – was having the Usual Care Control group

Cherkin, Sherman et al., JAMA, 315, 2016



Overview

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Opioid Epidemic Forcing Health Care to Reconsider Pain Management

- Each day, estimates range from 115-175 Americans die as a result of opioids, average deaths per day = 130
- The estimated number of deaths in 2015 was more than 33,000, which rose in 2017 to more than 72,000
- The CDC estimates that the total "economic burden" of prescription opioid misuse alone in the United States is \$78.5 billion a year

The Opioid Epidemic is providing a major opening for nonpharmacological approaches to pain



"Nonpharmacological Approaches" for Pain



In early 2017, the Joint Commission announced: Beginning January 1, 2018, the commission would require that hospitals *promote* <u>nonpharmacological</u> approaches to pain management



Public Comment Period: Email campaign – given the evidence, change "promote" to "provide…"

1000s of emails were sent to The Joint Commission



"Nonpharmacological Approaches" for Pain



In *late* 2017, the Joint Commission announced: Beginning January 1, 2018, the commission would require that hospitals *PROVIDE Communication* <u>nonpharmacological</u> approaches to pain management





Both recommend nonpharmacological modalities for pain



Evidence for Nonpharmacological Approaches for Pain

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*

"For patients with chronic low back pain, clinicians and patients should initially select nonpharmacologic treatments...acupuncture, mindfulness-based stress reduction, tai chi, yoga ...cognitive behavioral therapy..."

Qaseem et al., Annals of Internal Medicine, 2017



The Opioid Epidemic Led to Focus on Pain Management by...

- Pain Management Best Practices Inter-Agency Task Force
- Convened by the Dept. of Health and Human Services with: U.S. Dept. of Defense, Dept. of Veterans Affairs, and Office of National Drug Control Policy



- Chair, Vanila M. Singh, M.D.
 Chief Medical Officer, Office of the Asst. Sec. Health U.S Health and Human Services
- Public members (12), Organizational representatives (9) and Federal members (8)

Goal: To address acute and chronic pain in light of the ongoing opioid crisis



Interagency Task Force Mandate: Respond to the Opioid Epidemic

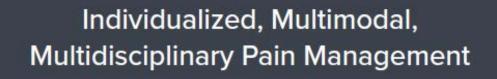
- To identify gaps, inconsistencies, and updates and to make recommendations for best practices for managing acute and chronic pain
- The report, "Pain Management Best Practices" calls for
 - An emphasis on an individualized, patient-centered approach ...
 - A therapeutic alliance between patient and clinicians
 - A multidisciplinary approach for chronic pain
 - Across various disciplines
 - Using one or more treatment modalities

Pain Management Best Practices, Interagency Task Force, DHHS, May 2019



Interagency Task Force Pain Management Best Practices

Include the following five broad categories:



Medications (Opioid and Non-opioid) Interventional Procedures

Restorative

Therapies

Behavioral Health Approaches Complementary & Integrative Health





Overview

- Consider the context that is giving rise to increased interest in integrative health
 - Research has provided an evidence-base for integrative approaches for pain
- The opioid crisis opens the door to *integrative approaches* to pain
 - Joint Commission, Amer College of Physicians, and HHS have called for nonpharmacological approaches to pain ~ but these are not supported health benefits
 - ➔ Aligning forces are building pressure



Overview

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Integrative Models of Care for Pain

- VA's Comprehensive Addiction and Recovery Act -2016*
 - Considers IM as standard medical benefits: acupuncture, biofeedback, massage, guided imagery, tai chi, hypnotherapy, yoga and meditation
 - Providing valuable experience and data
- However, the VA payment model is not generalizable
- Academic Health Centers have challenges in providing IM or nonpharmacological therapies to the general population and the underserved – some have closed!



* Taylor, Hoggatt and Kliger, Journal of General Internal Medicine, 2019



A Model of Care for the Underserved and Possibly for Many More

- FQHCs are community-based health care providers that receive funds from the HRSA Health Center Program provide primary (and preventive) care services in underserved areas
- "They must meet a stringent set of requirements, including providing care on a sliding fee scale based on ability to pay and operating under a governing board that includes patients"*

*Constance Earl, DO, Integrative Health Director, West County Health Centers

 Northern California FQHCs: West County Health Centers, Petaluma Health Center

Special thanks to Drs. Hameed, Earl, and Kohli for sharing slides and thoughts

Petaluma HealthCenter

A Model of Care for the Underserved: Petaluma Health Center

Fasih Hameed, MD, Medical Director, Integrative Medicine & Wellness

- 7 Service Sites:
 - 2 Major clinics
 - 2 High schools
 - Santa Rosa Community College, Petaluma Campus
 - Mary Issac Homeless Shelter Clinic (COTS)
 - Rohnert Park Vision Center (Walmart)
- Patients Seen 35,000
 - 22% of patients are uninsured
 - 48% of patients are Spanish speaking
 - 31% are children and young adults
 - 62% are adults (18-64 years)
 - 7% are older adults (65 years+)



A Model of Care for the Underserved: Petaluma Health Center Overview of Services

- Complementary Therapies and Integrative Medicine Acupuncture, Osteopathic Manipulation
- Shared Medical Visits Chronic Pain, Diabetes, Smoking, Fall Prevention for Seniors, Anxiety & Depression
- Community Fitness Classes
- Food Access, Nutrition and Culinary Medicine
- Community Garden







Petaluma Health Center



Community Health Centers: Unique Opportunities to Address Determinants of Health



Petaluma

HealthCenter

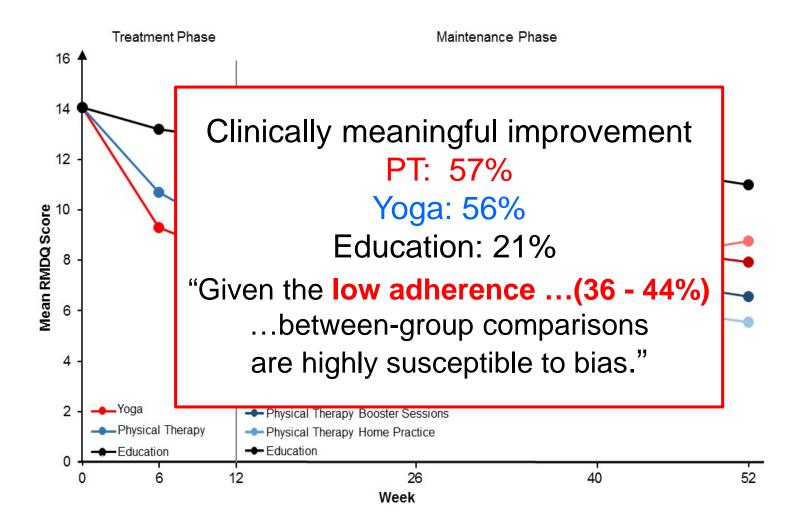


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Yoga for Chronic Low Back Pain Roland Morris Disability – Per Protocol



Chronic Low Back Pain MBSR vs CBT vs Usual Care - Adherence

- Participants
 - Mean age 49.3
 - 65.7% female
- Adherence

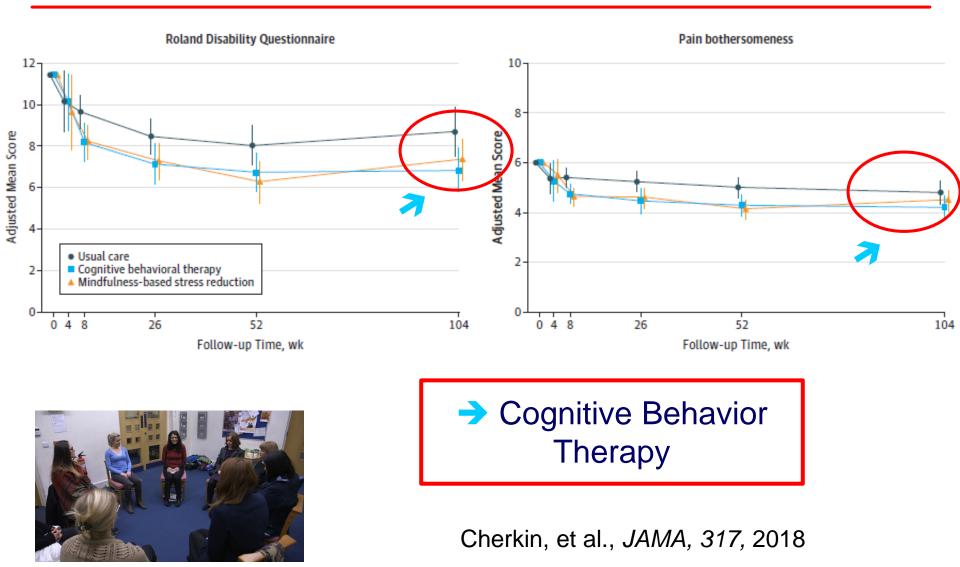


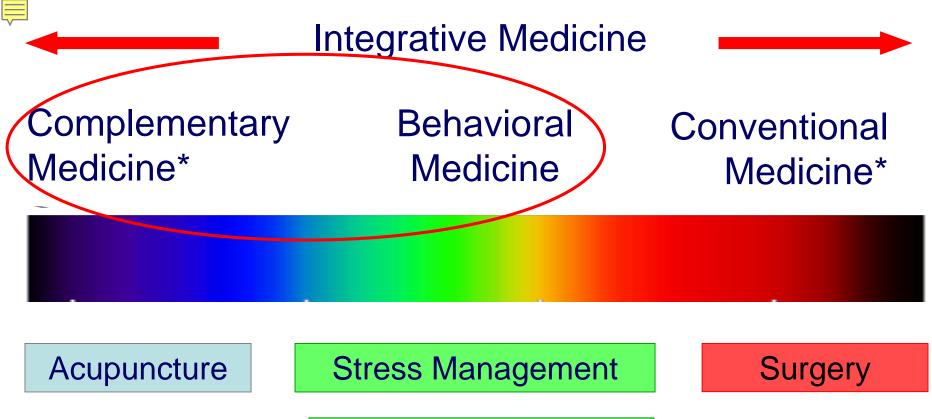
- 53.7% attended 6 or more of the 8 weekly sessions
- 86% completed 26 wk follow-up
- 85% completed 52 wk follow-up

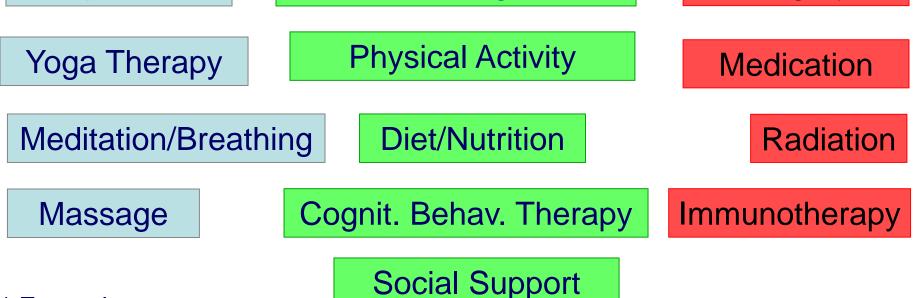
Low Adherence? ...and only to sessions What about home practice?

Cherkin, Sherman et al., JAMA, 315, 2016

Chronic Low Back Pain – MBSR vs CBT vs Usual Care – *Two Year Follow-up*







* Examples



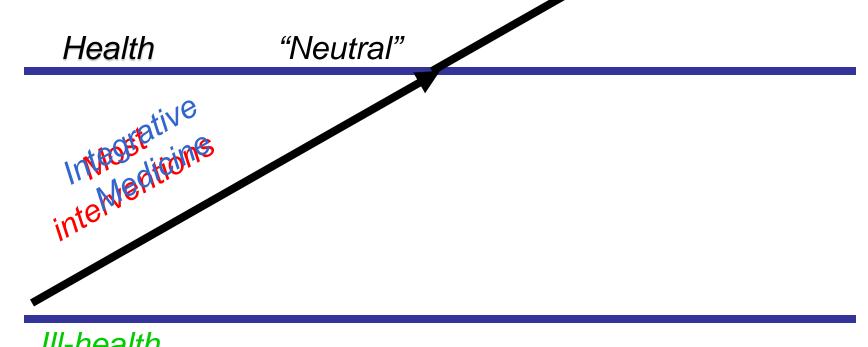
Overview

- Consider the context that is giving rise to *increased interest* in integrative health – *Public Interest*
- Highlight how the opioid crisis opens the door to *integrative approaches* to pain – *Unfunded mandate*
- Present examples of integrative models of care for pain; focus turns to FQHCs – IM is an optimal fit for pain for the underserved and beyond
- Discuss potential challenges Adherence ... and opportunities to increase the effectiveness of integrative therapies for the underserved and beyond
 - Indeed community clinics "4 the US" offer a potential model for delivering IM to the general population



When we think of health care...

Optimal Health Resilience Reduced vulnerability to daily stress



Ill-health

The Goal of Integrative Medicine

To create *healthier communities*

Where individuals, families, and groups



- Have access to healthy choices that enhance resilience
- Prevent disease
- And enhance the quality of their lives

... and, I believe IM4US is making this possible!

Thank you!

I wish to thank my many mentors and colleagues, including *Liza Goldblatt, Fasih Hameed, Constance Earl, Rob Saper, Katherine Gergen-Barnett, Steve Woolf, Andrew Weil, Victoria Maizes, Anne Marie Chiasson, George Kaplan, Penny George, Leonard Wisneski, Jude Bornstein-Chau, Sharad Kohli, Bob Twillman, Paula Gardner, and so many others*

As well as the Integrative Healthcare Policy Consortium, the National Academy of Medicine and NIH for helping me stretch my boundaries.

