

Integrative Health and Medicine: A New Essential Partner in Effective Pain Management

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Integrative Medicine & Health: An Essential Partner for Pain Management

- Describe the factors that have given rise to Integrative Medicine and Health
- Highlight the pathways that have advanced integrative medicine in recent years
- Point to the essential role integrative health and medicine can play in effective pain management



Integrative Medicine & Health: An Essential Partner for Pain Management

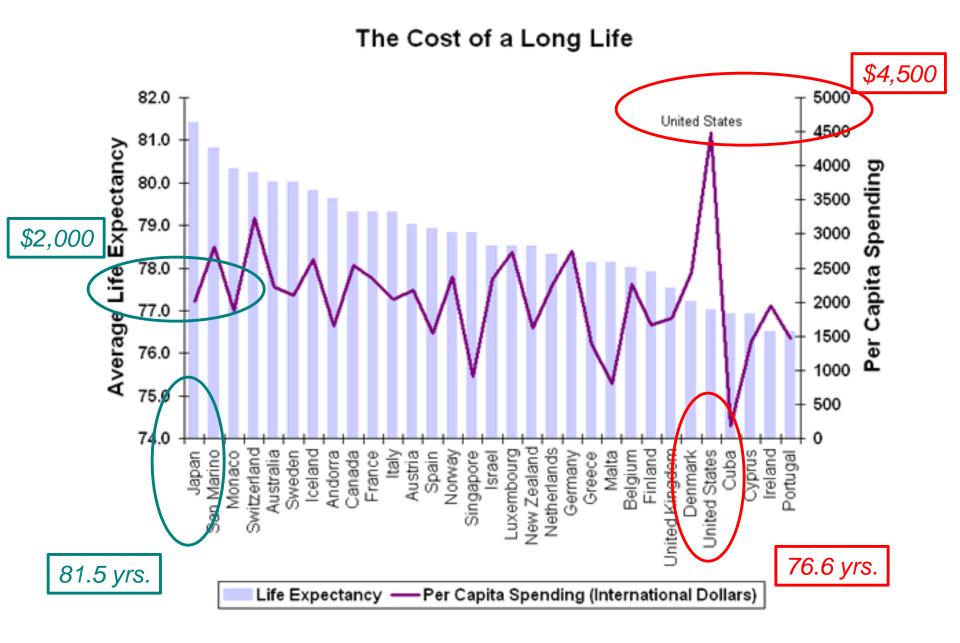
Describe the factors that have given rise to Integrative Medicine and Health

For context, I would like to point out

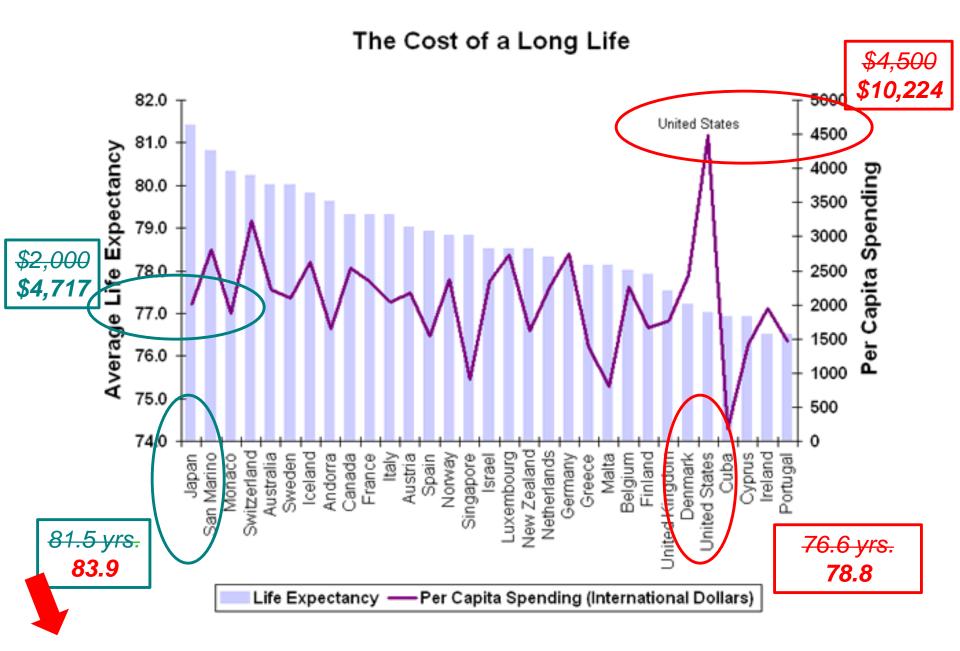


"The mission of the U.S. Department of Health and Human Services (HHS) is to enhance the health and well-being of all Americans"

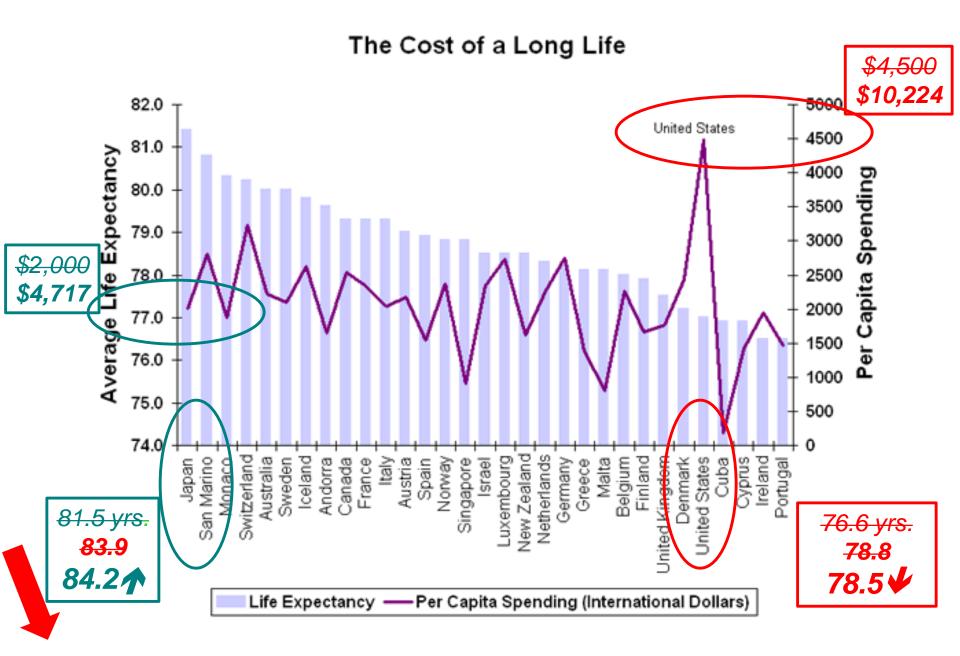
Strategic Goal #1 of HHS – "Affordable health care"



Data from 2000, UC Atlas of Global Inequality, 2014 Organization for Economic Cooperation and Development, 30+ Countries



New 2017 Data – Organization for Economic Cooperation and Development, 35 Countries US Rank 27th of 35



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



Vice Admiral Jerome Adams, MD Surgeon General of the US

- "Every American deserves to live a long, healthy life, but we are falling short of that goal
- "Life expectancy in the U.S. has declined for the second year in a row
- "This decline marks the first time in half a century that American longevity has declined . . .
- . . . "a disturbing problem that faces us as we observe Public Health Week" April, 2018



Healthcare Facts – 35 Countries

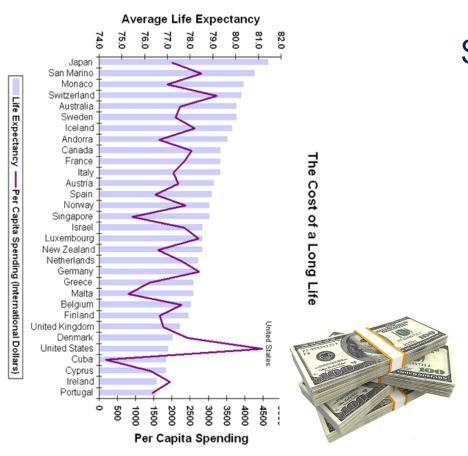
United States

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

Organization for Economic Cooperation and Development – 2018 (Bloomberg News, September 19,2018)



Look at this differently ...



\$10,224 per capita

Do the math:

US Population = 328,559,915

\$3.36 Trillion

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	\$500	
2	Exxon Mobil	\$244	
3	Berkshire Hathaway	\$242	
4	Apple	\$229 M	CKESSON
5	United Health Group	\$201	
6	McKesson	\$199	
7	CVS Health	\$185	CVS
8	Amazon	\$178	Health

UNITEDHEALTH GROUP®



Follow the Money

- Unfortunately, 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 = 17.9% (2018)
- 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."

IOM Summit, 2009 IOM - Now NAM - National Academy of Medicine





Disease-driven care

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

Integrative Health Care

- an integrated team offering best of conventional and Integrative Medicine
- focuses on lifestyle and health promotion
- reaffirms relationship between practitioners, each patient and his or her personal life goals



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1998 – NCCAM/NCCIH is founded to Support Complementary and Alternative Medicine (CAM) Research & Education*

- Natural Products, Diets Dietary supplementsSpecial diets
- Mind and Body
 Deep Breathing
 Relaxation/Meditation
 Yoga/Tai Chi
 Therapeutic Massage
 Acupuncture





1998 – NCCAM / NCCIH What was the <u>impetus</u> for NCCAM?

Natural Products, DietsDietary supplementsSpecial diets

Mind and Body
 Deep Breathing
 Relaxation/Medita

Yoga/Tai Chi

Therapeutic Massage

Acupuncture



NCCAM created in response to:

- ✓ Congressional &
- ✓ Public Interest





How Many Use "CAM"?

- National Health Interview
 Survey in 2002
- National random sample

% Use

2002: 31,044 adults 36.6%

2004: Looking ahead to 2007 Survey





How Many Use "CAM"?

National Health Interview
 Survey in 2002, 2007 & 2012

National random sample <u>% Use</u>

2002: 31,044 adults

2007: 23,393 adults

9,417 children

2012: 34,525 adults

10,218 children

36.6%

38.3%

11.8%

Similar Levels



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



Why Do So Many Use "CAM"?

 Pain management is the #1, 2, 3, & 4 reason for using complementary medicine



 25.3 million American adults reported daily pain during 3 months before survey

But the survey also showed:

American adults who take supplements or practice yoga do so for <u>wellness</u>.





How Many Use Integrative Health and Why?

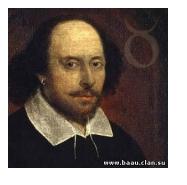
- Pain management is the reason for using
- Pathway to Policy Change #1 Gather key data for policy makers

Focus on public interest The public cares about children

actice yoga wellness.

NCCIH 2012 and 2017 Surveys

Wellness



"What's in a name?"

- 1. Holistic Medicine
- 2. Alternative Medicine
- 3. Complementary & Alternative Medicine NIH NCCAM 1998
- 4. "Integrative Medicine"
- Complementary and Integrative Health NIH - NCCIH - 2014

Now: Integrative Health,
Whole Health, Whole Person Health



Survey of Infectious Disease Physicians

Survey of 311 infectious disease physicians

Believe "Mildly" to "Very Effective"

		Artemisinin/malaria	80%
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Cranberry for UTI 54%

<u>Interest</u>

Interest in CAM? 56%

Interest in Integrative Med.? 80%







(Shere-Wolf*, Tilburt, Chesney, Evidence Based CAM, 2013, *Fellow, University of Arizona Center for Integrative Medicine)

Survey of Infectious Disease Physicians

Survey of 311 infectious disease physicians Believe "Mildly" to Pathway to Policy Change #2 Artemisi Choose the right words to describe the field of Integrative Health and Medicine Integrative Health ~ Whole Person Health 00%

Integrative Medicine in US Hospitals – Another Trend

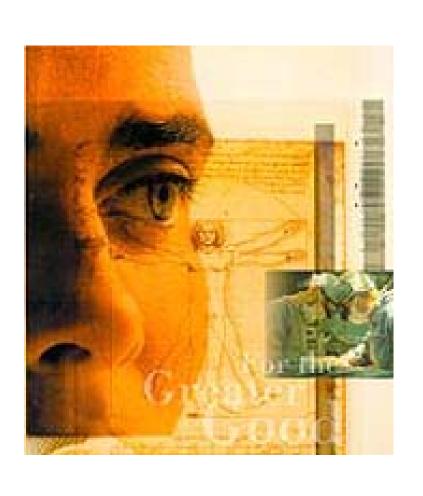
- Hospitals offering Integrative Medicine services
 - 8% in 1998
 - 17% in 2002
 - 27% in 2005
 - 37% in 2008
 - 42% in 2011
- Key reasons
 - **→** Patient demand 85%
 - Clinical evidence 74%



Integrative Medicine in US Hospitals

- Pathway to Policy Change #3 Hospitals offering In the US, health care is a "business" Highlight that patient demand matters ... and gather the clinical evidence
 - Key reasons
 - Patient demand 85%
 - Clinical evidence 74%

Integrative Health and Medicine has been building the evidence base



- Safety
- Efficacy
- Mechanisms
- Evidence is essential...but not sufficient



Yoga for Chronic Low Back Pain (cLBP)

- 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 by insurance



Yoga for Chronic Low Back Pain (cLBP) – 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 (cLBP) - Results

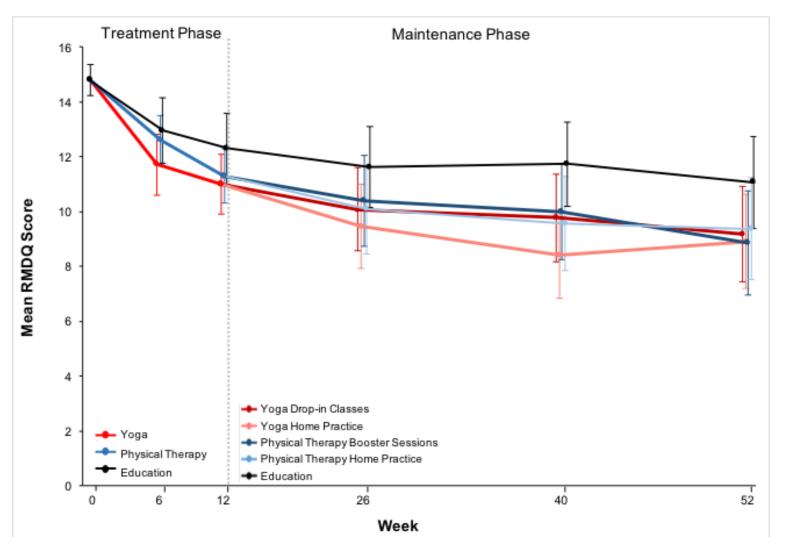
- Primary Outcome:
 Improvement in RMDQ by those in Yoga was not inferior to improvement by those in PT
 - Yoga Decrease in disability: -1.7
 - PT Decrease in disability: -2.6
- Compared to Education:
 - Yoga and PT less likely to use medications
 - Yoga and PT more satisfied with the intervention

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



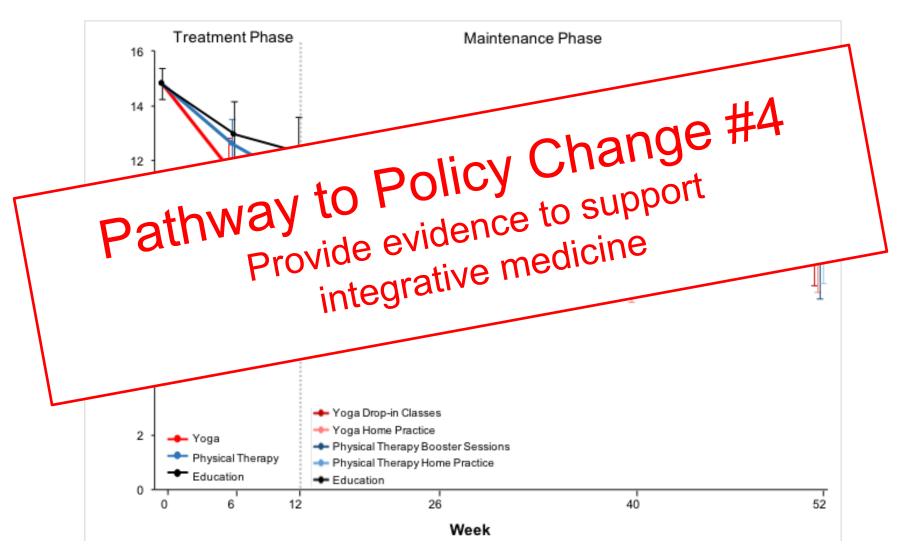
Yoga for Chronic Low Back Pain

Roland Morris Disability Questionnaire





Yoga for Chronic Low Back Pain Roland Morris Disability Questionnaire





Academic Centers: "Home" for Medical Research, Education, Clinical Care



Consortium Founded in 1999 – 8 members



2019 - 75 Members*

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

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 Health Center

Thomas Jefferson University



Tufts University of Alberta University of Arizona

University of Calgary

University of California (UC) Irvine

UCLA, UCSF, UCSD University of Chicago

* Apologies to Canada & Mexico

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

Yale University



2019 - 75 Members*

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

Oregon Health & Science University Pennsylvania State Univ., Hershey Rutgers New Jersey Medial School

Scripps Health

Sutter Health

Stanford University

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Cornell Duke U

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Mayo Clini McMaster U

MD Anderso

Medstar Hea Memorial SI

Meridian Hea

Mount Sinai Medical Center

New York University Northwestern University

Ohio State University

Pathway to Policy Change #5

Point out that integrative health is gaining traction across the country, state by state, each with Senators & Representatives ... Federal & State Level ... zunern Ca.

no University of Alberta

University of Arizona University of Calgary

University of California (UC) Irvine

UCLA, UCSF, UCSD University of Chicago

* Apologies to Canada & Mexico

miversity of Texas, MB University of Utah University of Vermont University of Washington University of Wisconsin, Vanderbilt University **Veterans Administration** Wake Forest University

Yale University

University of Chicago

University of Cincinnati

University of Colorado

University of Connecticut

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Highlight the Pathways that Integrative Medicine

- Gather key data for policy makers, focusing on public interest, and integrative approaches for healthy children pain management and wellness
- Choose the right words to describe integrative health and medicine offers ... whole health, whole person care.
- Focus on the public demand for integrative medicine
- Provide evidence to support integrative medicine.
- Point out that integrative medicine is gaining traction
 - Watch for opportunities to take action:

Opioid Crisis



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Pain Management and the Opioid Epidemic

- 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 70,000
- 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 provides a major impetus to examine nonpharmacological approaches to 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..."



"Nonpharmacological Approaches" for Pain



Early in 2017, the largest hospital accrediting association announced it was planning to require hospitals to <u>promote</u> <u>nonpharmacological</u> approaches to pain management starting January 1, 2018



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



Beginning January 1, 2018, the largest hospital accrediting association required that hospitals PROVIDE nonpharmacological approaches to pain management





Both recommend nonpharmacological modalities for pain



Surgeon General Vivek Murthy Puts out a Physician's Pocket Guide



2 CONSIDER IF NON-OPIOID THERAPIES ARE APPROPRIATE

Such as: NSAIDs, TCAs, SNRIs, anti-convulsants, exercise or physical therapy, cognitive behavioral therapy.

Question: Acupuncture, osteopathic manipulation, other nonpharmacological approaches to pain?



"Carpe Diem" ~ Seize the Day Get the Word Out

Opioid Epidemic

Integrative Medicine & Health Groups

Joined forces to present Non-Pharm. Approaches to Pain



Non-Pharmacological Approaches to Pain Management and Well-Being

In response to the current public health crisis of opioid abuse, overdose, and death, many organizations have issued guidelines and recommendations for treating pain, including the former Surgeon General's "Turn the Tide" campaign. Similar to other guidelines, this campaign recommends non-pharmacological approaches as first line pain treatment, with opioids to be considered only if these and non-opioid pharmacological treatments are ineffective. This document expands upon those recommendations to help primary care clinicians and their patients with this approach.

Assess Patient's Pain and Well-Being

Set Goals Jointly with the Patient

Educate the Patient about Integrative Pain Management Options

Perform a thorough assessment of the patient's pain condition, treatments, lifestyle and overall health status

- Ask the patient to describe the pain, including word descriptors, location, duration, aggravating and alleviating factors, intensity, and functional impact
- Ask about the patient's psychological status (e.g., depression, anxiety, ineffective coping styles), nutritional health, sleep pattern, and social and environmental contributors to the pain experience
- Ask the patient what he or she would like to do, if pain treatment is successful
- Jointly decide on 2-3 SMART (Specific, Measurable, Attainable, Relevant, Time Bound) goals as measures of progress. Set goals for outcomes important to patient, not for the measure alone

Jescribe evidence-informed non-pharmacological and self-care approaches to managing pain and promoting wellness, including but not limited to:

- Acupuncture
- Chiropractic, Osteopathic and Myofascial Manipulation, Massage Therapy, and Physical Therapy
- Cognitive Behavioral Therapy, Stress Management, and other psychological therapies
- Mind-Body Approaches, Meditation, Biofeedback, Guided Imagery
 Yoga, Tai Chi, and other movement therapies

Pased on tinical assessment and discussion with the



"Carpe Diem" ~ Seize the Day Get the Word Out

Opioid Epidemic

Integrative Medicine & Health Groups

Join forces to present Non-Pharm. Approaches to Pain

Develop a Treatment



- Based on your clinical assessment and discussion with the patient, develop a treatment plan
- Discuss potential challenges, and ways to overcome them, with the patient
- Reinforce that 1) chronic pain is a complex problem with no simple solutions; 2) each patient's path is a little different and you will be there to support your patient along their path; 3) just as the tide causes all boats to rise, getting healthier overall helps all medical conditions improve--even chronic pain
- Obtain patient's commitment to carry out the treatment plan
- See the patient regularly; assess progress toward identified goals at each appointment
- . Encourage changes they have made and urge them to continue the good work
- Problem-solve to help overcome barriers to treatment plan adherence
- Modify treatment plan to maximize progress toward goals

Resources for Information on Nonpharmacological Approaches to Pain Management and Wellbeing

ACADEMIC COLLABORATIVE **FOR INTEGRATIVE** HEALTH The Collaborative

www.integrativehealth.org



www.imconsortium.org





www.ihpc.org





More progress: HHS Task Force on Pain Management Best Practices:

Calls for an 'Integrative' Treatment Plan*

Recommendations include:

- Balanced pain management should be based on a biopsychosocial model of care.
- Individualized, patient-centered care is vital to addressing the public health pain crisis.
- Recommends complementary and integrative health Acupuncture, yoga, tai chi, meditation



Representative Judy Chu (D-California, 27th District)



 Representative Jackie Walorski (R-Indiana, 2nd District)

March 2018 & 2019 - Briefings on the Hill

What's Missing from Medicine? ...

HEALTH!

Opioid Crisis: Essential Role of Integrative Medicine





Division of Integrative Medicine

Center of Excellence For Integrative Health





When we think of health care...

Optimal Health

Resilience

Reduced vulnerability

to daily stress

Treatments that promote healing prevent illness

Health

"Neutral"

intellegitains

The goal of Integrative Medicine go the distance, to achieve optimal health

III-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 know you will help make this possible!



Acknowledgments

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