

Integrative Healthcare: The Time is Now!

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The University of Vermont



Laura Mann
Integrative Healthcare Lecture Series

#AIHM

**“The power of integrative
healthcare is that it combines the
best of what conventional
medicine and whole system
approaches have to offer...”**

**Daniel Friedland, MD, ABIHM
AIHM Chair**



Integrative Health Defined

- Holistic Health: Philosophy (the whole is greater than the sum of the parts, presence, values/attitude/belief).
- Integrative Medicine/Functional Medicine
- Traditional Healing (Native American, Traditional Oriental Medicine, Ayurveda).
- Complementary Therapies (massage therapy, biofeedback, aromatherapy, guided imagery, healing arts).
- Nutraceuticals/Supplements/Herbals
- Allopathic Healthcare

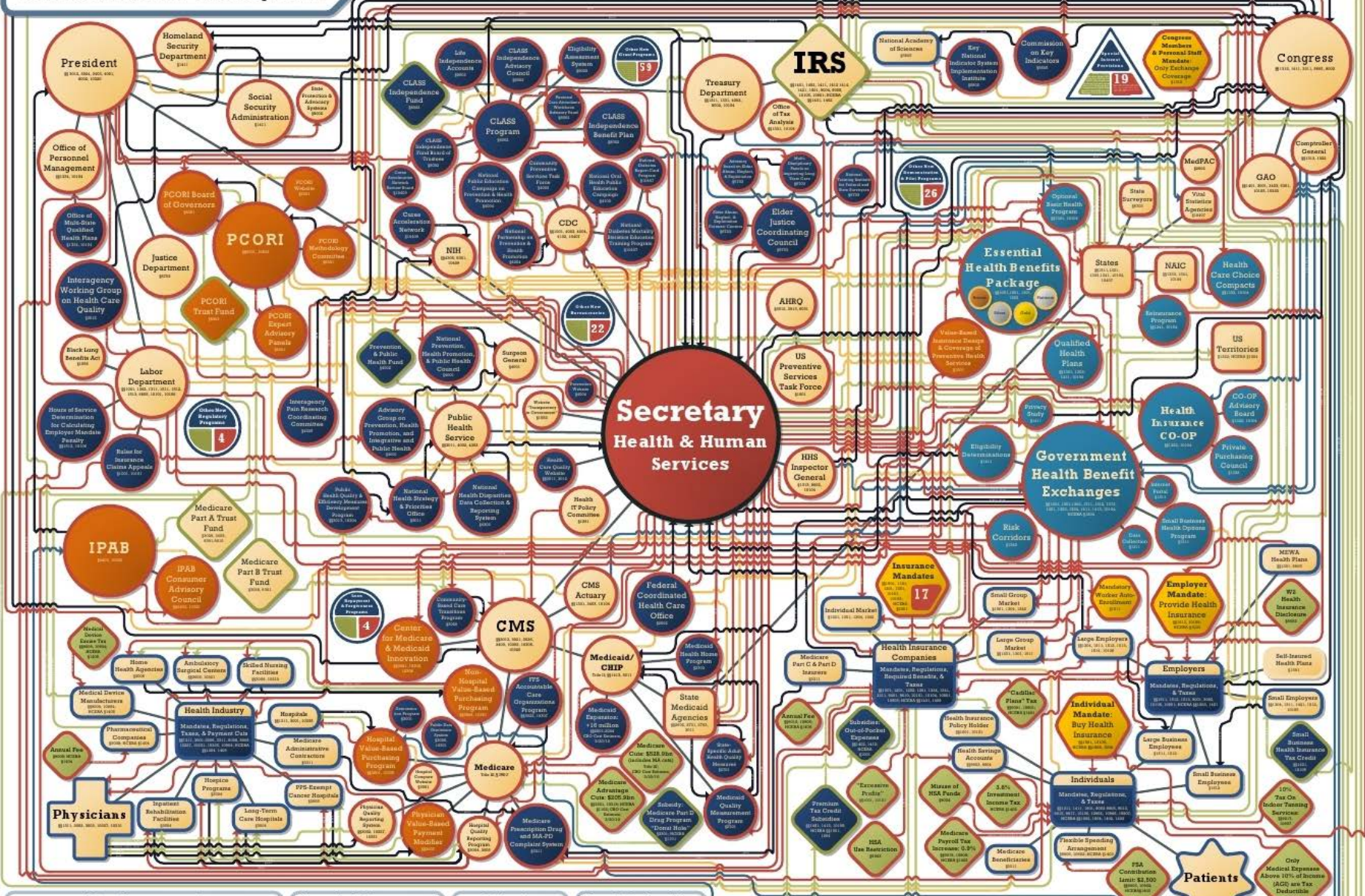
Integrative Health Foundation

- Empowering individuals with the knowledge, skills, tools, and resources for optimal health (Self Care—True Primary Care)
- Nutrition (Food as Medicine)
- Physical Activity (Functional Capacity)/Sleep
- Mind Body Connection (Psychoneuroimmunology/stress response)
- Purpose and Meaning (What Makes Life Worth Living)
- Relationship

Why Now?

Setting the Stage

Your New Health Care System



New Government	Expanded Government	Private	New Relationships
<ul style="list-style-type: none"> ● Rationing Potential ◆ Mandates ◇ Taxes & Monetary Fees/Penalties/Cuts ◇ Trust Fund (Rationing Potential) ◇ Other New Trust Funds/Monetary Benefits 	<ul style="list-style-type: none"> ● Government with Expanded Authority/Responsibility ◆ Government Financial Entity with New Inflows/Outflows ◇ State/Territory with Expanded Authority/Responsibility 	<ul style="list-style-type: none"> ● Private Entity with New Mandates/Regulations/Responsibilities ◆ Unchanged Private Entity ◇ Special Interest Provisions 	<ul style="list-style-type: none"> → Regulations/Requirements/Mandates → Reporting Requirements → Oversight → Money Flows → Consultation/Advisory/Info Sharing → Structural Connections (Includes Existing)

Legend:
 AGI: Adjusted Gross Income
 AHRQ: Agency for Healthcare Research and Quality
 CDC: Centers for Disease Control and Prevention
 CHIP: Children's Health Insurance Program
 CLASS: Community Living Assistance Services & Supports
 CMS: Centers for Medicare & Medicaid Services
 CO-OP: Consumer Operated & Oriented Program
 FFS: Fee-for-Service
 FSA: Flexible Spending Arrangement
 GAO: Government Accountability Office
 HCBIA: Health Care & Education Reconciliation Act
 HHS: Health & Human Services Department
 HSA: Health Savings Account
 IPAB: Independent Payment Advisory Board
 IRS: Internal Revenue Service
 MA-PD: Medicare Advantage Prescription Drug
 MedPAC: Medicare Payment Advisory Commission
 MED: Medical Early Risk Detection
 EALOE: Executive Auxiliary Limited Office Regional Systems
 MEWA: Multiple Employer Welfare Arrangement
 NAC: National Association of Insurance Commissioners
 NIH: National Institutes of Health
 PCORI: Patient-Centered Outcome Research Institute
 FFS: Prospective Payment System

Legislation:
 Patient Protection & Affordable Care Act, P.L. 111-148;
 Health Care & Education Reconciliation Act, P.L. 111-151
 Prepared by: Joint Economic Committee, Republican Staff
 Congressman Kevin Brady, Senior House Republican
 Senator Sam Brownback, Ranking Member

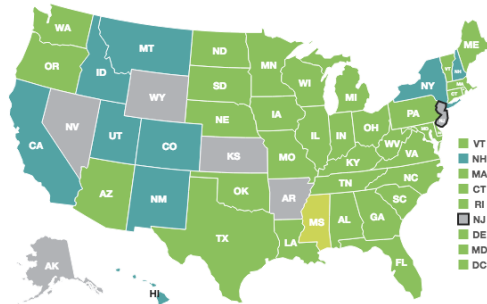
U.S. Obesity Rates 1990-2014

Adult Obesity Rate by State, 1990

Select years with the slider to see historical data. Hover over states for more information. Click a state to lock the selection. Click again to unlock.

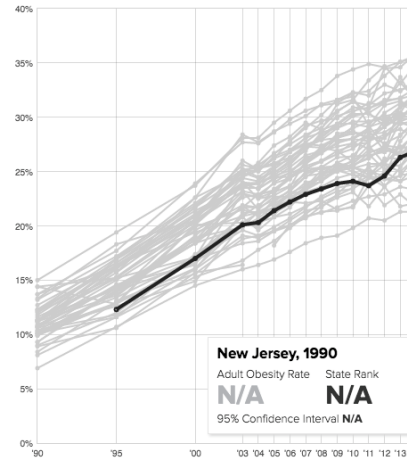
Percent of obese adults (Body Mass Index of 30+)

0 - 9.9% 10 - 14.9% 15 - 19.9% 20 - 24.9% 25 - 29.9% 30 - 34.9% 35%+



All States West Midwest South Northeast

Adult obesity rates, 1990 to 2014

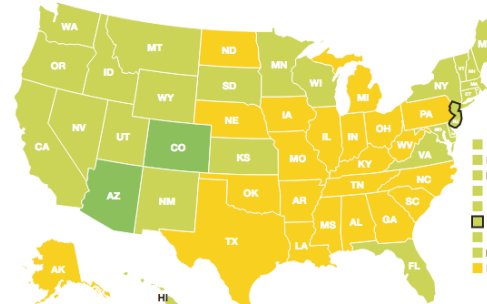


Adult Obesity Rate by State, 2000

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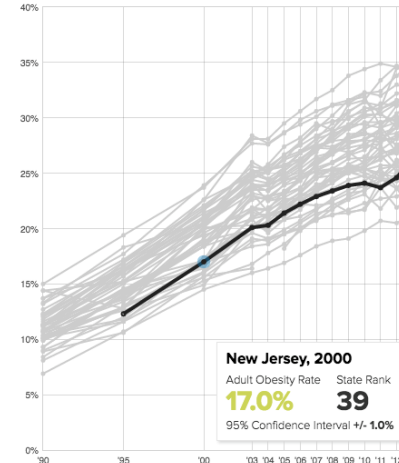
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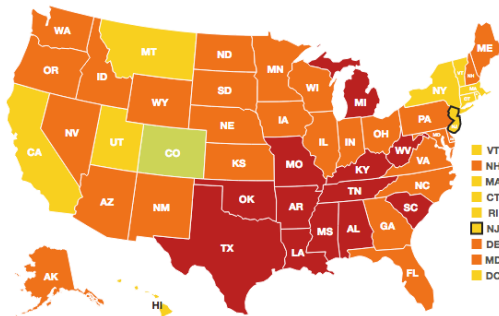


Adult Obesity Rate by State, 2010

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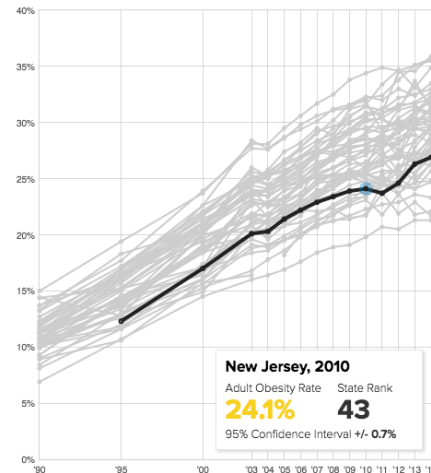
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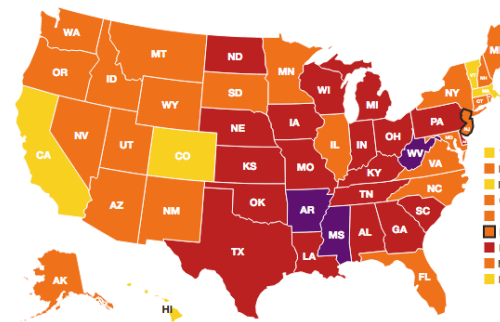


Adult Obesity Rate by State, 2014

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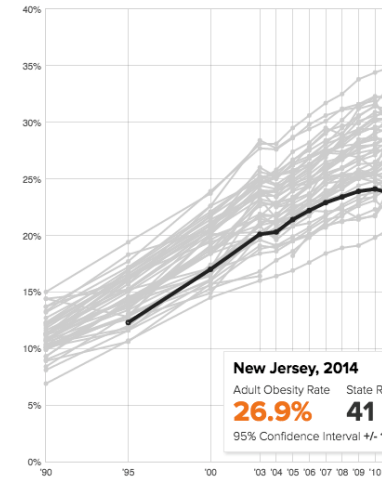
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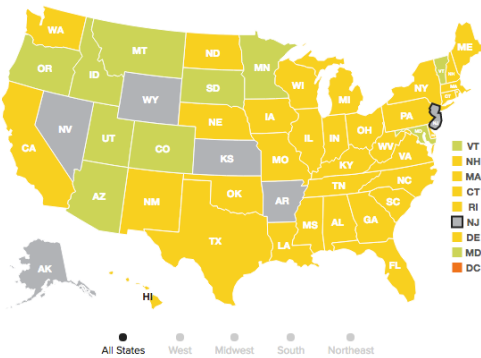
U.S. Diabetes Rates 1990-2014

Diabetes Rate by State, 1990

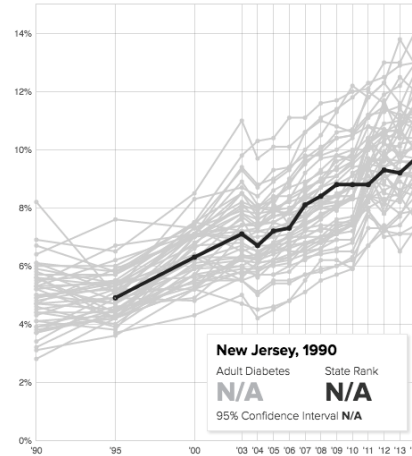
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Percent of adults with diabetes

0 - 3.9% 4 - 7.9% 8 - 11.9% 12 - 15.9% 16%+



Diabetes among adults, 1990 to 2014

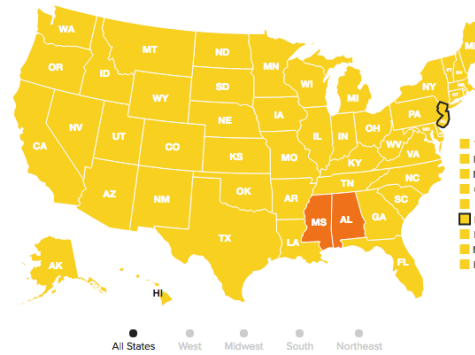


Diabetes Rate by State, 2000

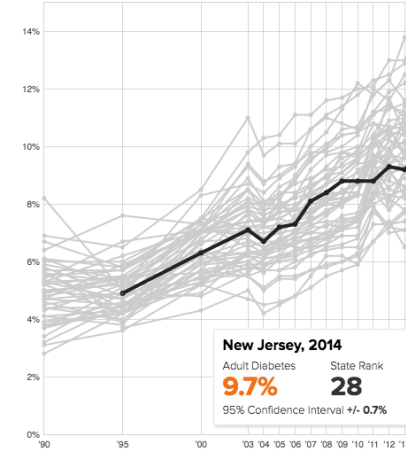
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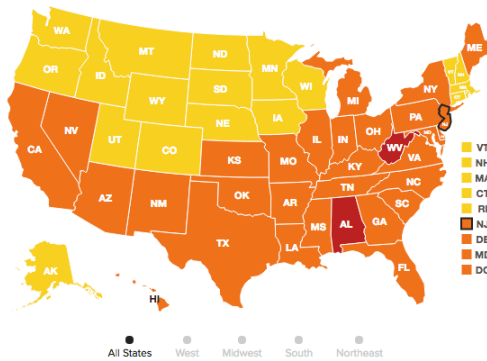


Diabetes Rate by State, 2010

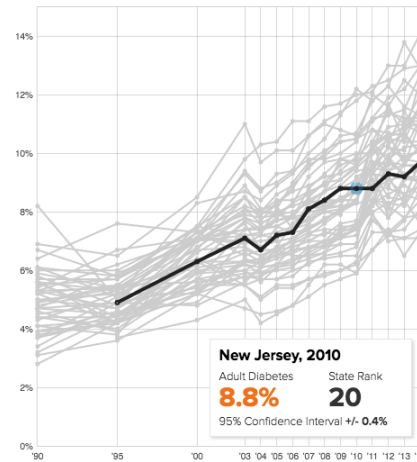
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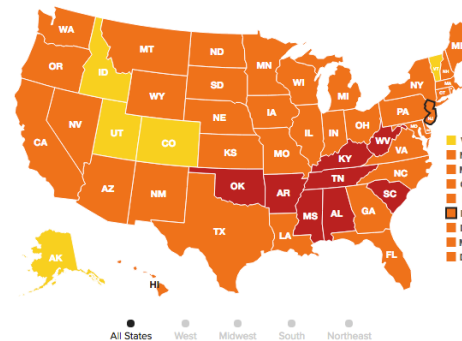


Diabetes Rate by State, 2014

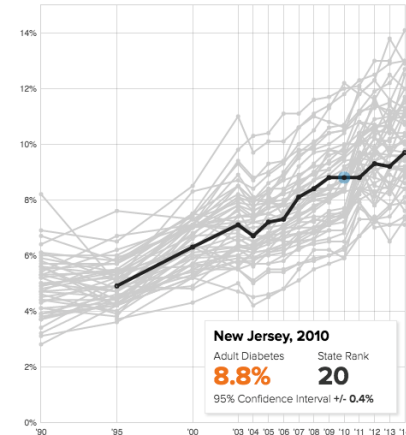
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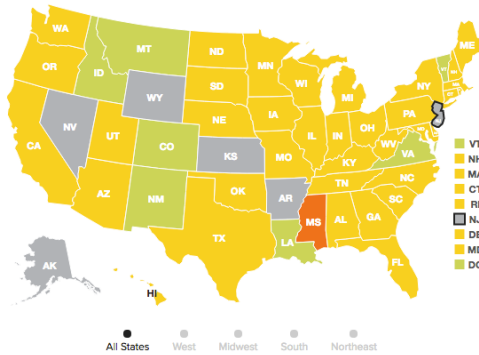
U.S. Hypertension 1990-2013

Hypertension Rate by State, 1990

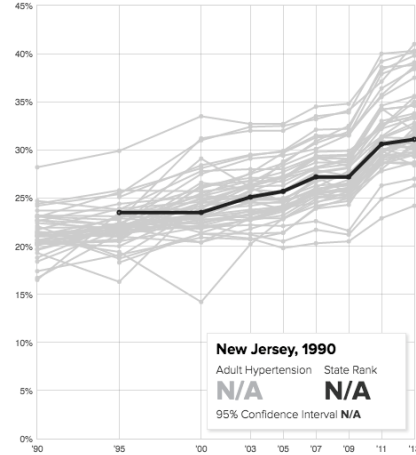
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Percent of adults with hypertension

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Hypertension among adults, 1990 to 2013

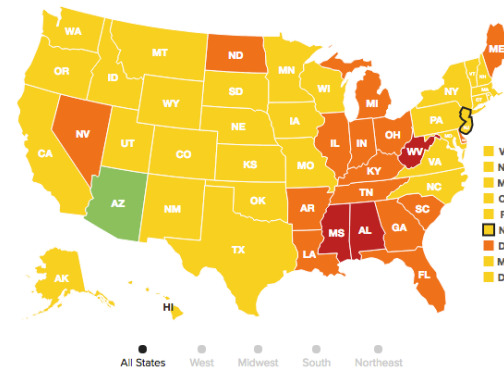


Hypertension Rate by State, 2000

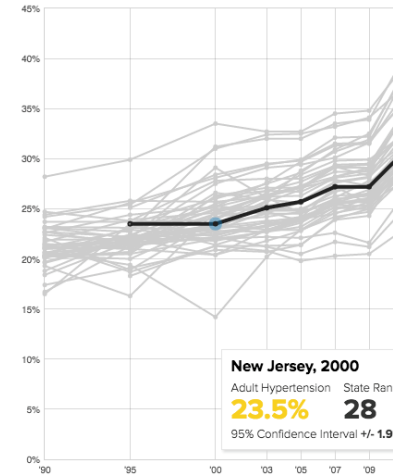
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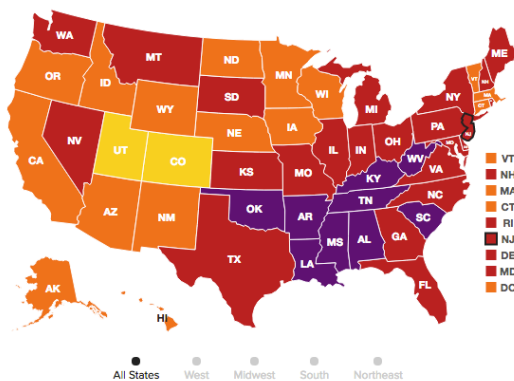


Hypertension Rate by State, 2011

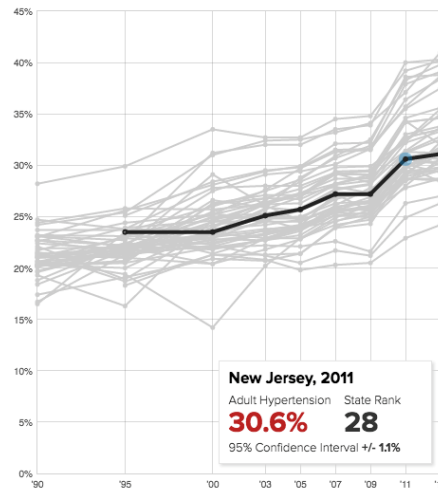
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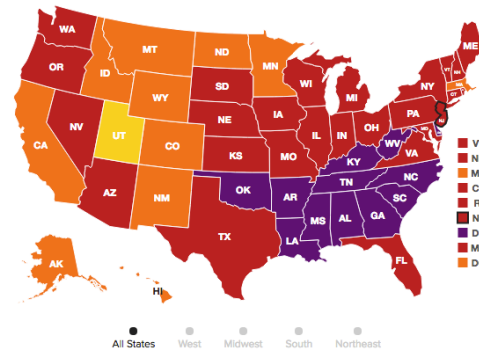


Hypertension Rate by State, 2013

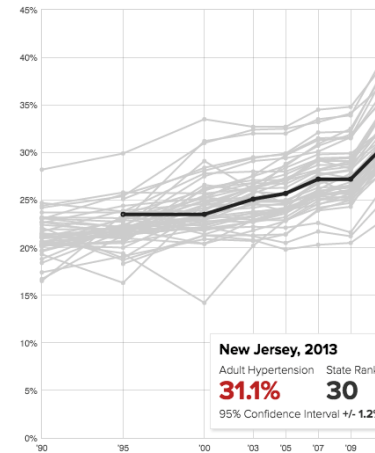
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Hypertension among adults, 1990 to 2013

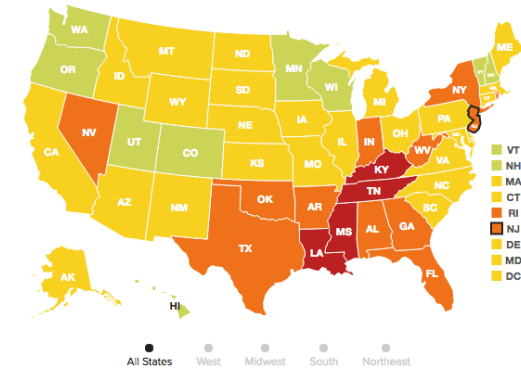


Physical Inactivity by State, 2006

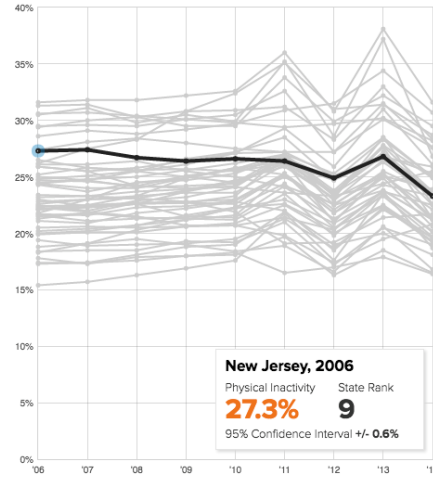
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Percent of adults who are physically inactive

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Physical inactivity among adults, 2006 to 2014



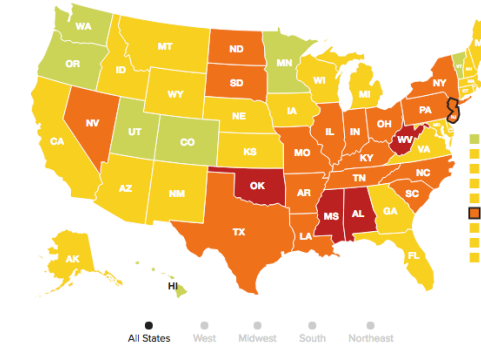
U. S. Inactivity Rates 2006 - 2014

Physical Inactivity by State, 2010

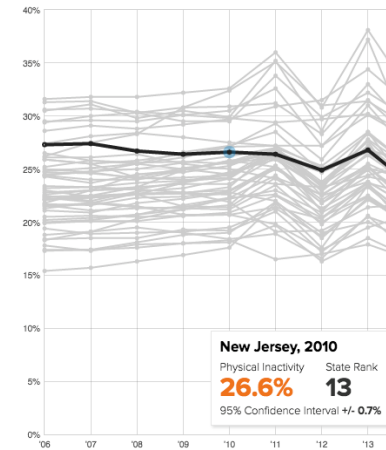
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Physical inactivity among adults, 2006 to 2014

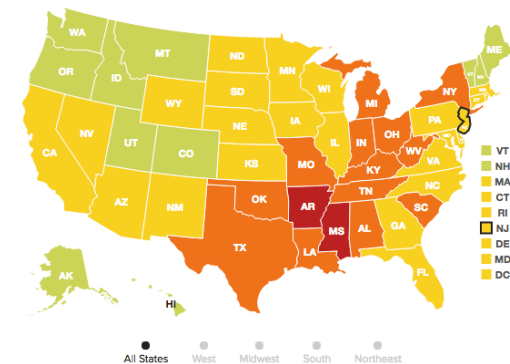


Physical Inactivity by State, 2014

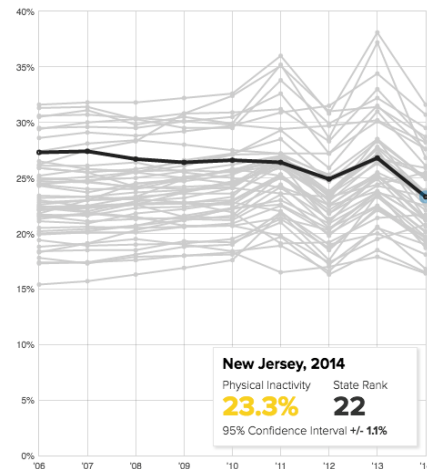
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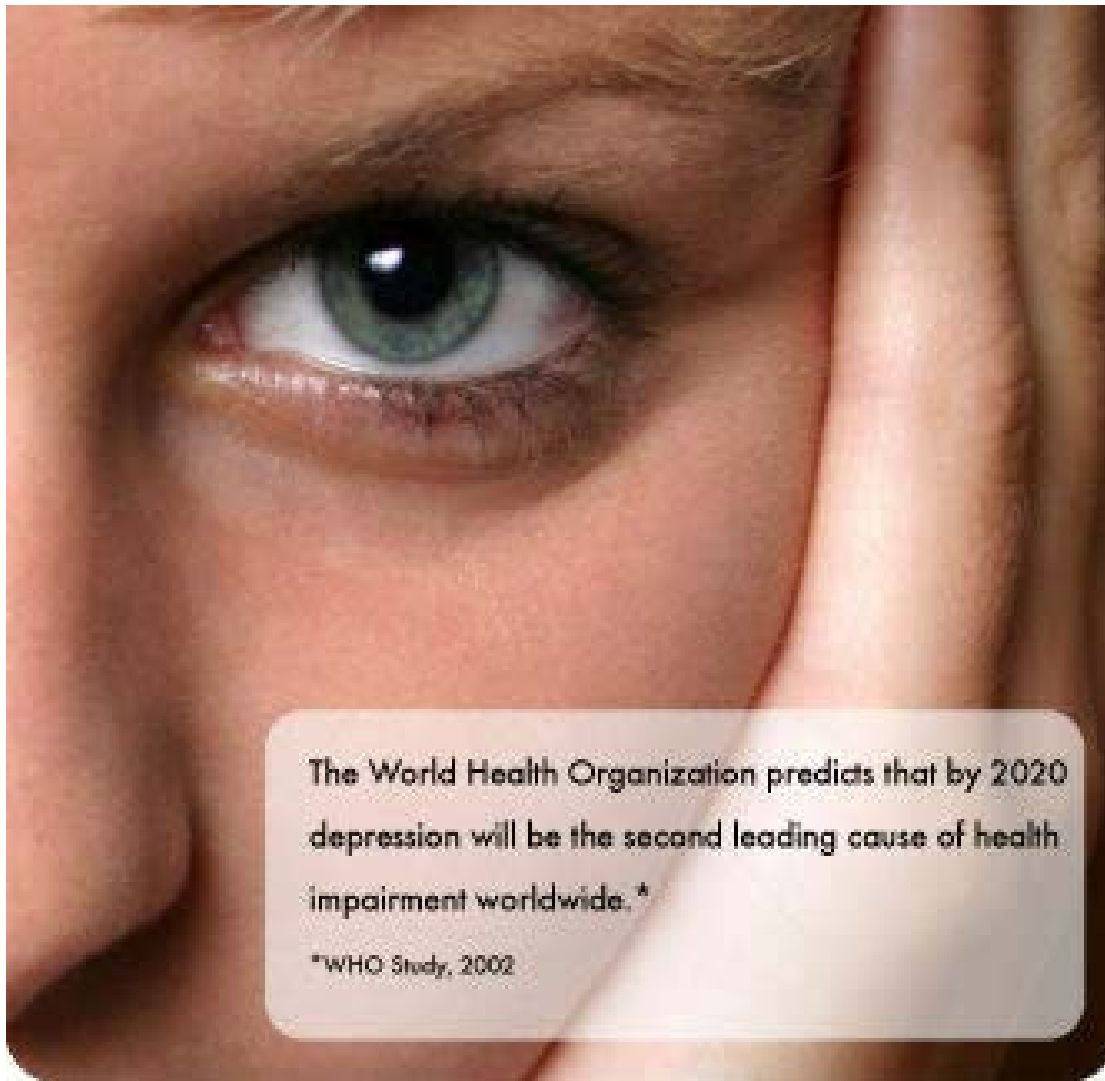
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Physical inactivity among adults, 2006 to 2014





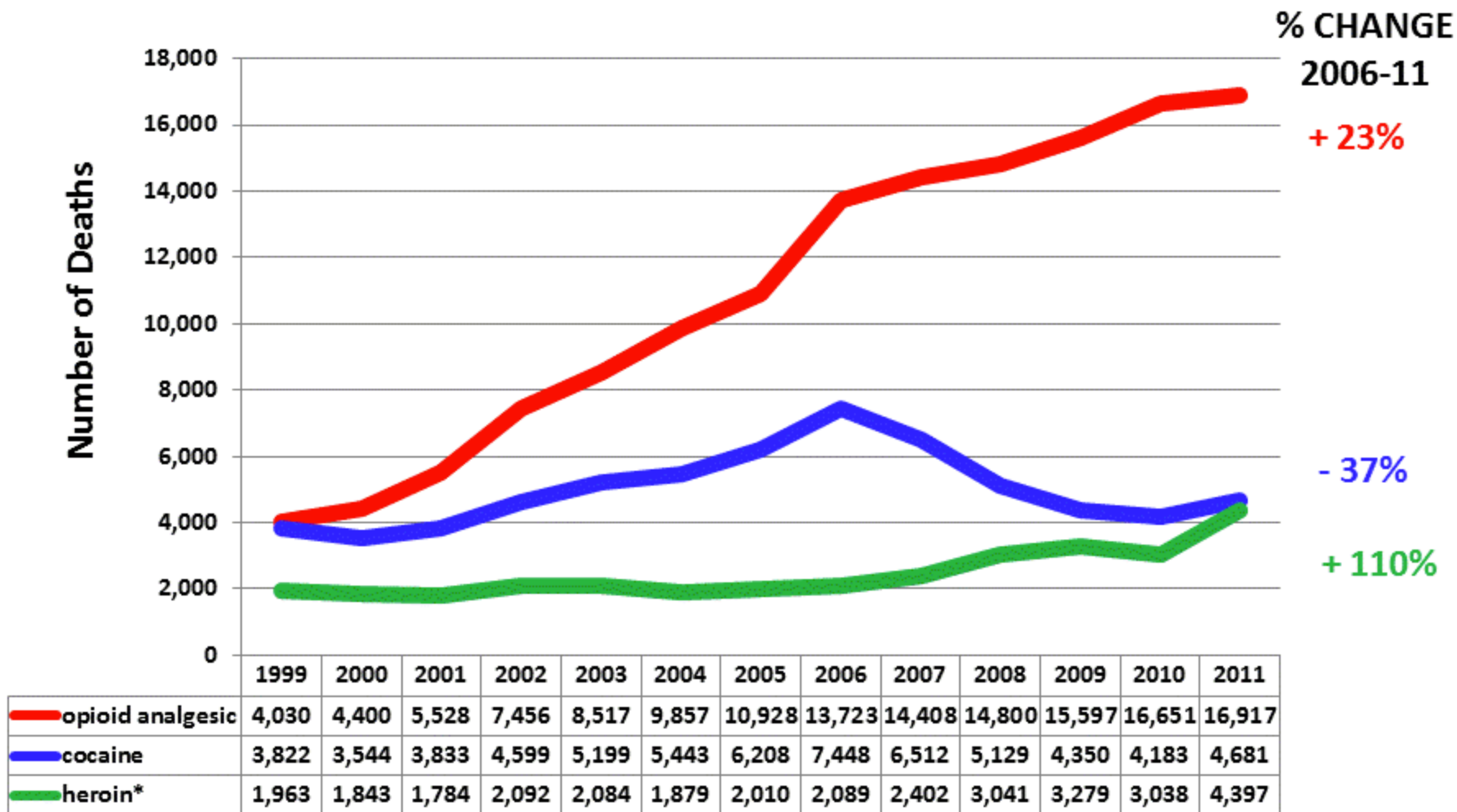
The World Health Organization predicts that by 2020 depression will be the second leading cause of health impairment worldwide. *

*WHO Study, 2002

Depression results in more absenteeism than almost any other physical disorder and costs employers more than \$51 billion per year in absenteeism and lost productivity, not including high medical and pharmaceutical bills. *

*According to a 2004 Rand Corporation report.

Drug Poisoning Deaths Involving Opioid Analgesics, Cocaine and Heroin: United States, 1999–2011



Note: Not all drug poisoning deaths specify the drug(s) involved, and a death may involve more than one specific substance. The rise in 2005-2006 in opioid deaths is related to non-pharmaceutical fentanyl (see <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5729a1.htm>). *Heroin includes opium.

Source: National Center for Health Statistics/CDC, *National Vital Statistics Report*, Final death data for each calendar year (June 2014).

New CDC Opioid Prescribing Guidelines
Improving the Way Opioids are Prescribed
for Safer Chronic Pain Treatment



The problem:

Existing guidelines vary in recommendations, and primary care providers say they receive insufficient training in prescribing opioid pain relievers. It is important that patients receive appropriate pain treatment, and that the benefits and risks of treatment options are carefully considered.



259 million

In 2012, health care providers wrote 259 million prescriptions for opioid pain relievers – enough for every American adult to have a bottle of pills.¹



300% increase

Prescription opioid sales in the United States have increased by 300% since 1999², but there has not been an overall change in the amount of pain Americans report^{3,4}.



2 million

Almost 2 million Americans, age 12 or older, either abused or were dependent on opioid pain relievers in 2013.⁵



16 thousand

In 2013, more than 16,000 people died in the United States from overdose related to opioid pain relievers, four times the number in 1999.⁶

CDC Guideline for Prescribing Opioids for Chronic Pain — United States, 2016



Continuing education information available at <http://www.cdc.gov/mmwr/rra/rra.html>



U.S. Department of Health and Human Services
Centers for Disease Control and Prevention

GUIDELINE FOR PRESCRIBING OPIOIDS FOR CHRONIC PAIN

IMPROVING PRACTICE THROUGH RECOMMENDATIONS

CDC's *Guideline for Prescribing Opioids for Chronic Pain* is intended to improve communication between providers and patients about the risks and benefits of opioid therapy for chronic pain, improve the safety and effectiveness of pain treatment, and reduce the risks associated with long-term opioid therapy, including opioid use disorder and overdose. The Guideline is not intended for patients who are in active cancer treatment, palliative care, or end-of-life care.

DETERMINING WHEN TO INITIATE OR CONTINUE OPIOIDS FOR CHRONIC PAIN

NONOPIOID TREATMENTS FOR CHRONIC PAIN

PRINCIPLES OF CHRONIC PAIN TREATMENT

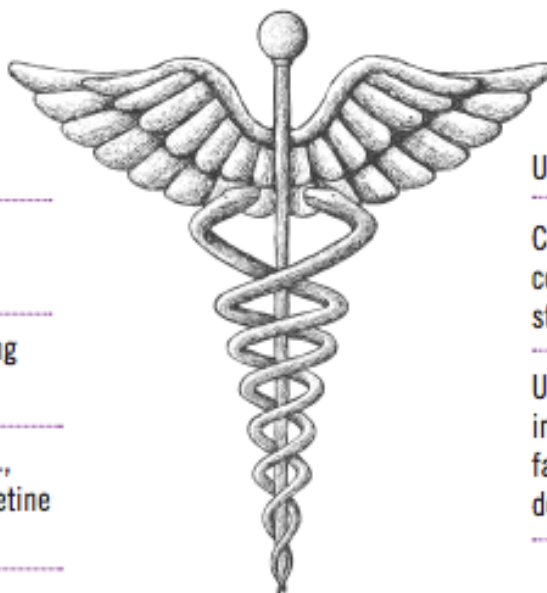
Patients with pain should receive treatment that provides the greatest benefit. Opioids are not the first-line therapy for chronic pain outside of active cancer treatment, palliative care, and end-of-life care. Evidence suggests that nonopioid treatments, including nonopioid medications and nonpharmacological therapies can provide relief to those suffering from chronic pain, and are safer. Effective approaches to chronic pain should:

Use nonopioid therapies to the extent possible

Identify and address co-existing mental health conditions (e.g., depression, anxiety, PTSD)

Focus on functional goals and improvement, engaging patients actively in their pain management

Use disease-specific treatments when available (e.g., triptans for migraines, gabapentin/pregabalin/duloxetine for neuropathic pain)



Use first-line medication options preferentially

Consider interventional therapies (e.g., corticosteroid injections) in patients who fail standard non-invasive therapies

Use multimodal approaches, including interdisciplinary rehabilitation for patients who have failed standard treatments, have severe functional deficits, or psychosocial risk factors

HCAHPS – Survey/Structure:

- **Two “global” questions:**
 - Overall rating of hospital
 - Likelihood of recommending hospital
- **Seven focus areas “domains”:**
 - Communication with nurses
 - Responsiveness of hospital staff
 - Communication with doctors
 - Physical environment (cleanliness and noise)
 - Pain control
 - Communication about medicines
 - Discharge information

[Medicare](#)

[Medicaid/CHIP](#)

[Medicare-Medicaid
Coordination](#)

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Insurance](#)

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Shared Savings Program

[ACOs in Your State](#)

[News and Updates](#)

[How to Calculate Your Primary
Service Areas](#)

[How to Apply](#)

[Shared Savings Program ACO
Agreement](#)

[Financial and Beneficiary
Assignment Methodology](#)

[Quality Measures, Reporting and
Performance Standards](#)

[Statutes/Regulations/Guidance](#)

[Frequently Asked Questions](#)

[CMS Regional Office Contacts for
ACOs](#)

Quality Measures, Reporting and Performance Standards

Quality data reporting and collection support quality measurement, an important part of the Shared Savings Program. Before an Accountable Care Organization (ACO) can share in any savings generated, it must demonstrate that it met the quality performance standard for that year. There are also interactions between ACO quality reporting and other CMS initiatives, particularly the Physician Quality Reporting System (PQRS) Physician Value-Based Payment Modifier, and the Electronic Health Record (EHR) Incentive Program.

2015 Reporting Year Documentation

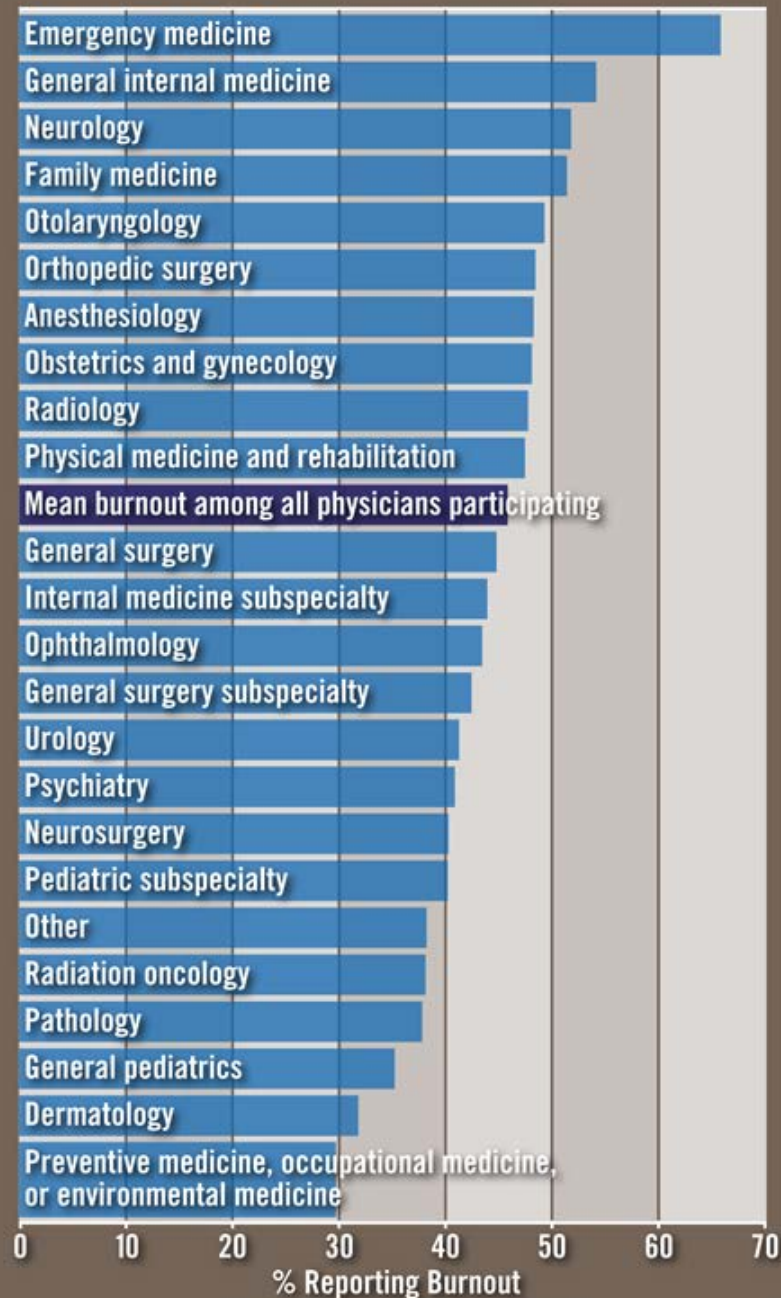
The sections below provide resources related to the program's 33 quality measures for Reporting Year 2015, which span four quality domains: Patient / Caregiver Experience, Care Coordination / Patient Safety, Preventive Health, and At-Risk Population. Of the 33 measures, 8 measures of patient / caregiver experience are collected via the CAHPS survey, 7 are calculated via claims, 1 is calculated from Medicare and Medicaid EHR Incentive Program data, and 17 are collected via the Group Practice Reporting Option (GPRO) Web Interface.

Narrative Specifications for all 33 Measures

2015 reporting period narrative measure specifications for the 33 quality measures are available and can be accessed in the following file:

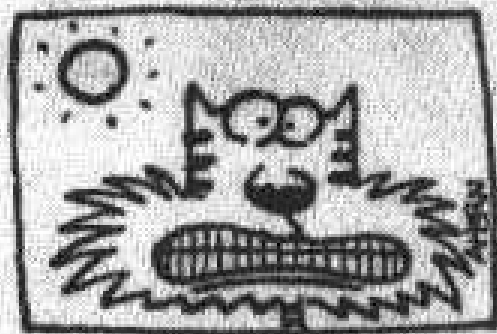
- [2015 Reporting – ACO Measure Narratives \[PDF, 485KB\]](#) 

Figure **Burnout by Specialty**



Source: Adapted from: Shanafelt TD, et al. *Arch Intern Med.* 2012;172:1377-1385.

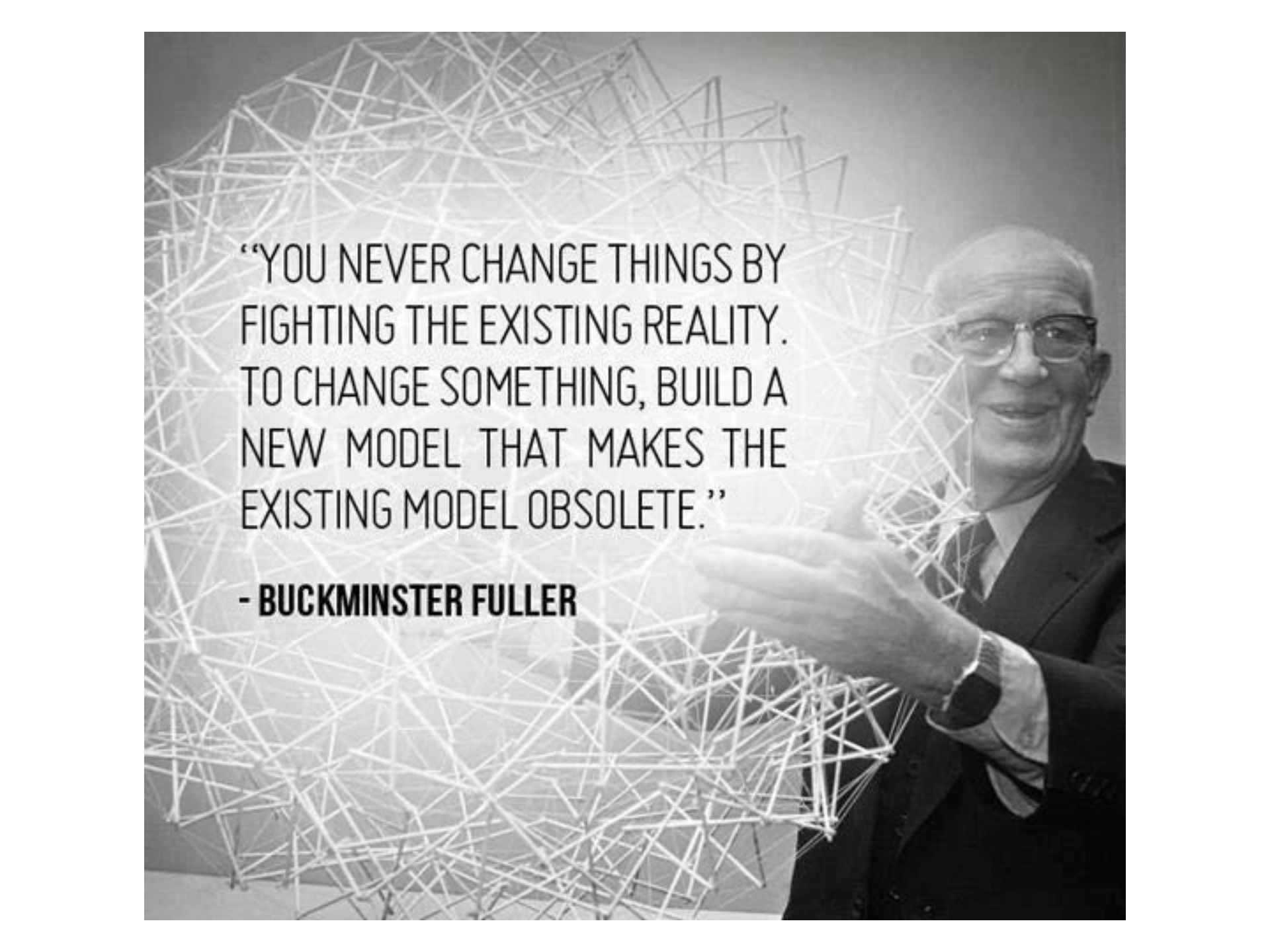
THERE ARE ONLY
TWO TIMES
I FEEL STRESS:



DAY AND NIGHT.

The Perfect Storm



A black and white photograph of Buckminster Fuller. He is an older man with glasses, wearing a dark suit, white shirt, and tie. He is smiling and gesturing with his right hand towards a large, complex geodesic dome structure made of thin rods. The dome is the central focus of the image, with Fuller positioned to its right. The background is a plain, light-colored wall.

“YOU NEVER CHANGE THINGS BY
FIGHTING THE EXISTING REALITY.
TO CHANGE SOMETHING, BUILD A
NEW MODEL THAT MAKES THE
EXISTING MODEL OBSOLETE.”

- BUCKMINSTER FULLER

Emergence of a New Model

“Upstream Solutions”

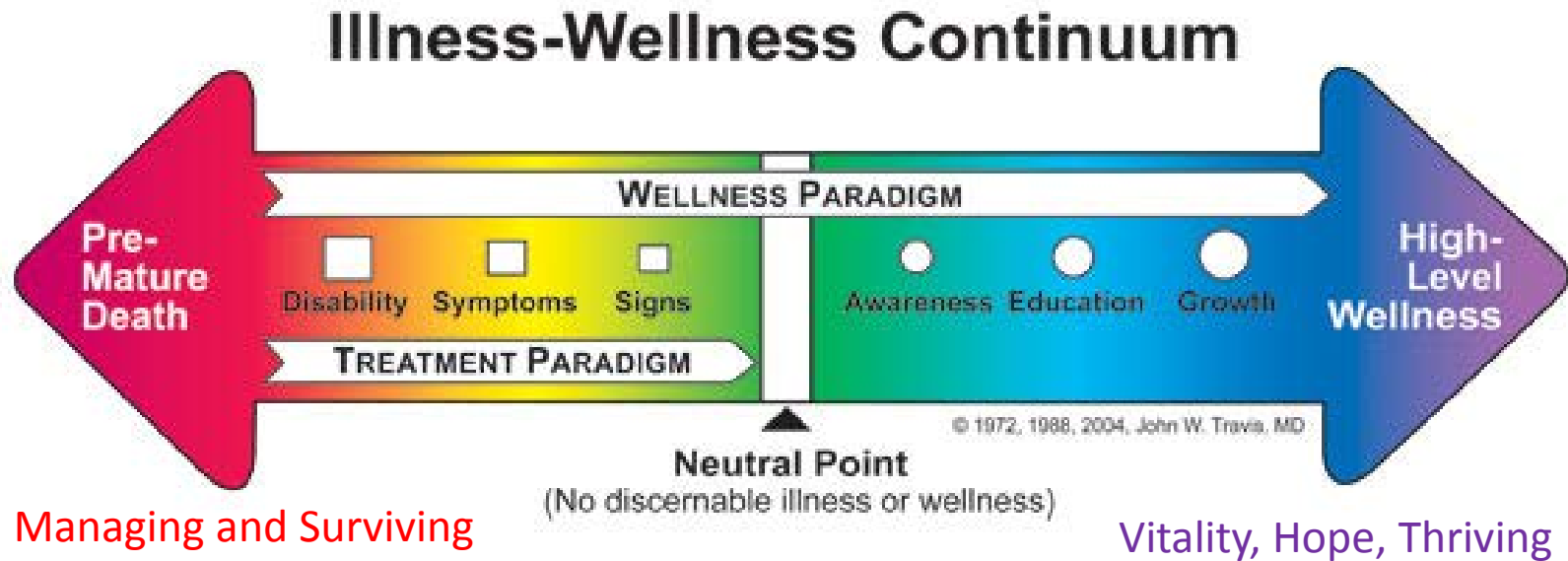
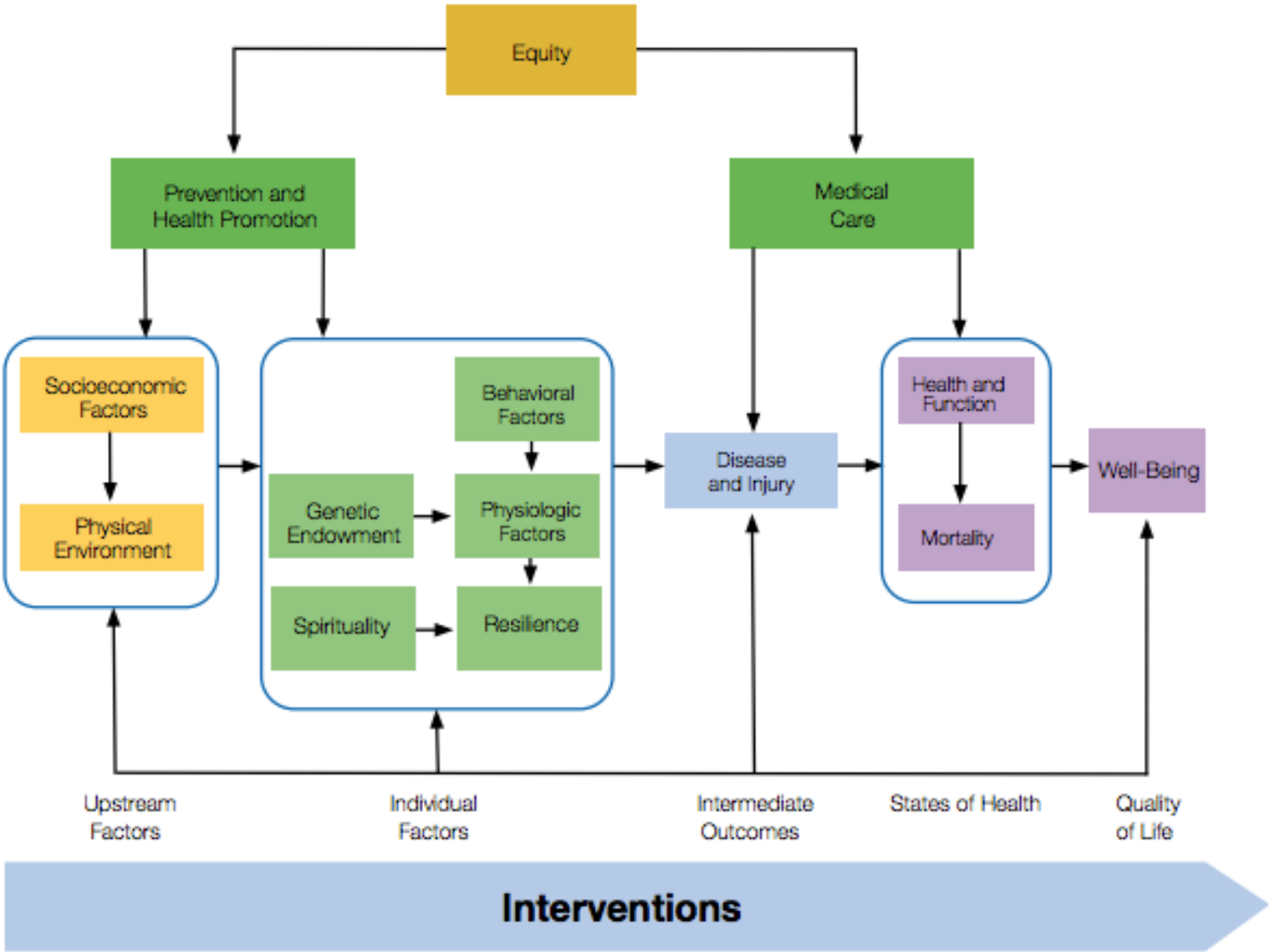
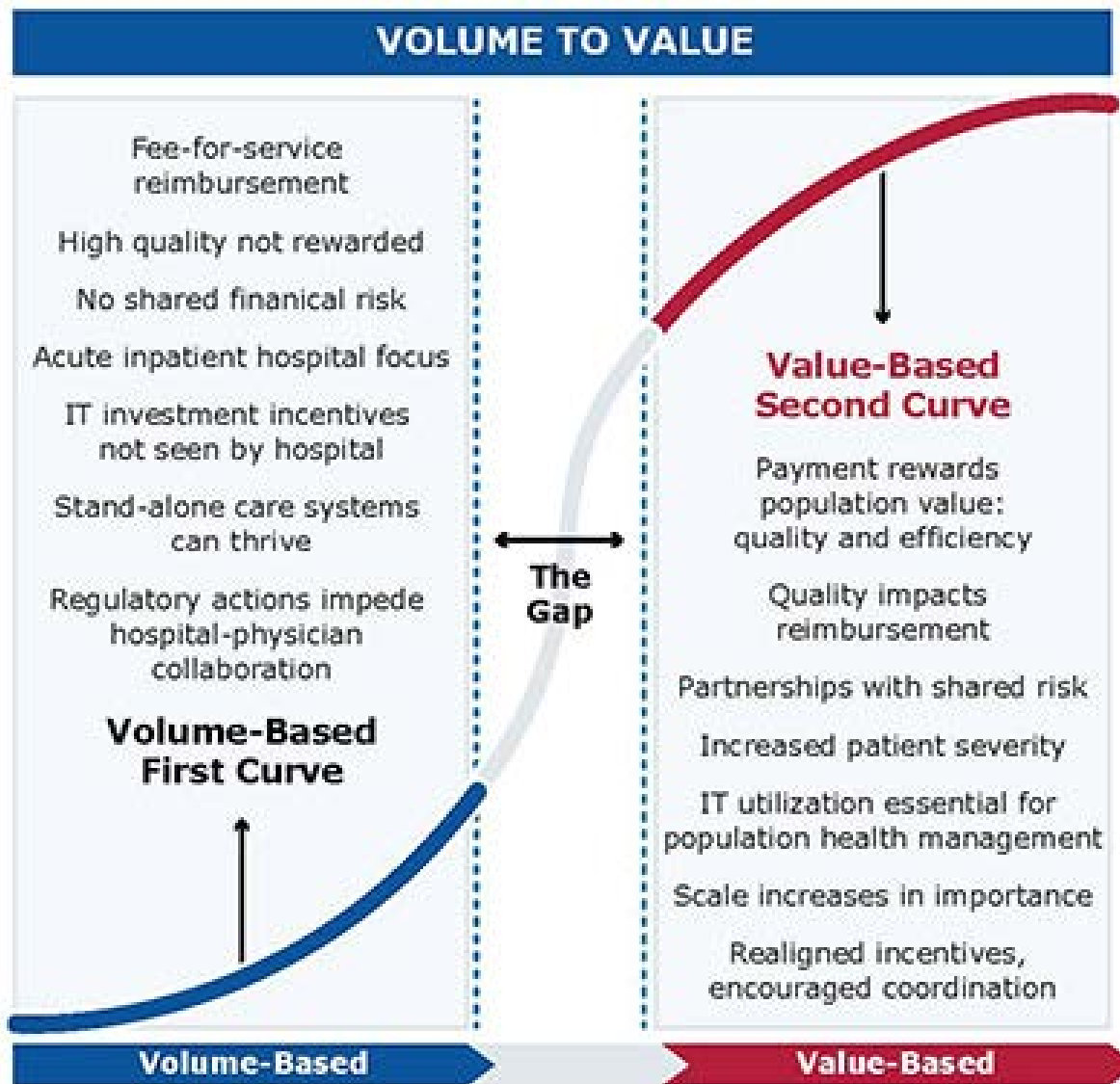


Figure 1. IHI Population Health Composite Model



Source: Adapted from Stiefel M, Nolan KA. Guide to Measuring the Triple Aim: Population Health, Experience of Care, and Per Capita Cost. IHI Innovation Series white paper. Cambridge, Massachusetts: Institute for Healthcare Improvement; 2012. (Available on www.IHI.org)

Integrative Health: The Gap Opportunity





Integrative Health National Impact

- The U.S. government recently announced that it will spend \$21.7 million over five years to investigate non-drug approaches to pain, PTSD, substance use, and sleep disorders.
- The U.S. Health Resources and Services Administration, Bureau of Health Professions, Division of Public Health and Interdisciplinary Education, recently awarded \$1.7 million grant to establish a Center for Integrative Medicine in Primary Care.
- Effective January 2015, the Joint Commission standards for pain management in ambulatory settings now include non-pharmacologic strategies such as acupuncture, massage therapy, relaxation therapy, and cognitive behavioral therapy.

Section 2706

“Non-Discrimination in Health Care”

“expressly forbids health insurance providers to discriminate.....against any health care provider who is acting within the scope of that providers license or certification under applicable State law”

© Health Research and Education Trust

DOI: 10.1111/j.1475-6773.2011.01304.x

RESEARCH BRIEF

Personal Use of Complementary and Alternative Medicine (CAM) by U.S. Health Care Workers

Pamela Jo Johnson, Andrew Ward, Lori Knutson, and Sue Sendelbach

Objective. To examine personal use of complementary and alternative medicine (CAM) among U.S. health care workers.

Data. Data are from the 2007 Alternative Health Supplement of the National Health Interview Survey. We examined a nationally representative sample of employed adults ($n = 14,329$), including a subsample employed in hospitals or ambulatory care settings ($n = 1,280$).

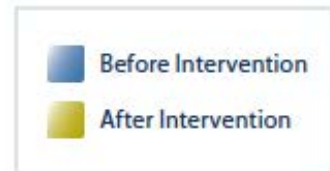
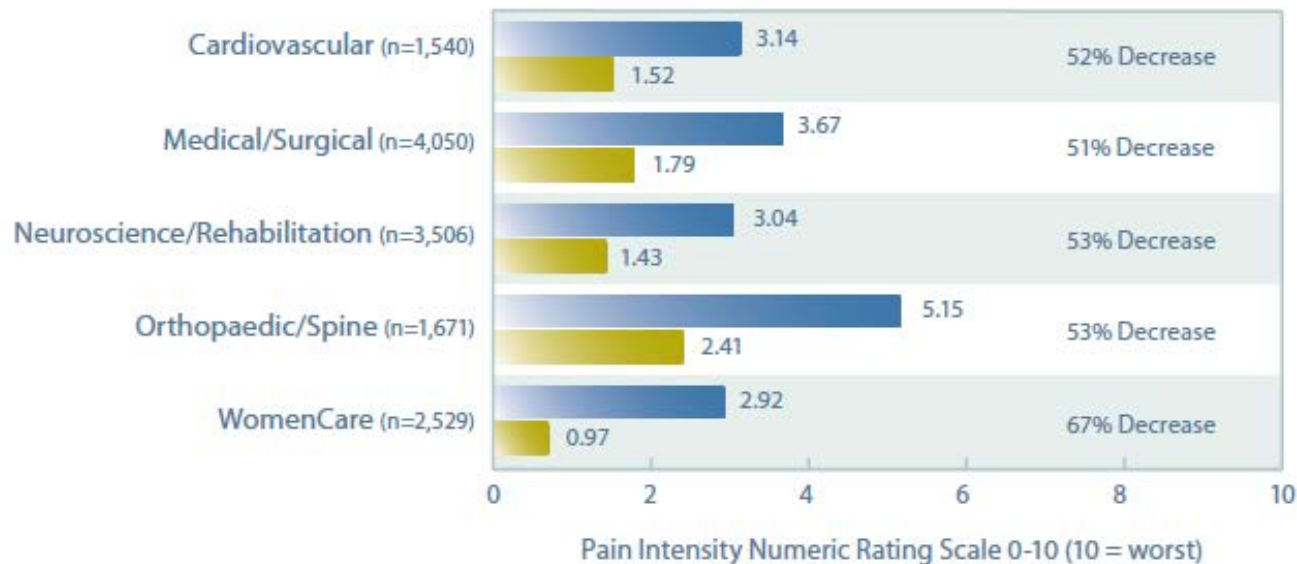
Study Design. We used multivariate logistic regression to estimate the odds of past year CAM use.

Principal Findings. Health care workers are more likely than the general population to use CAM. Among health care workers, health care providers are more likely to use CAM than other occupations.

Conclusions. Personal CAM use by health care workers may influence the integration of CAM with conventional health care delivery. Future research on the effects of personal CAM use by health care workers is therefore warranted.

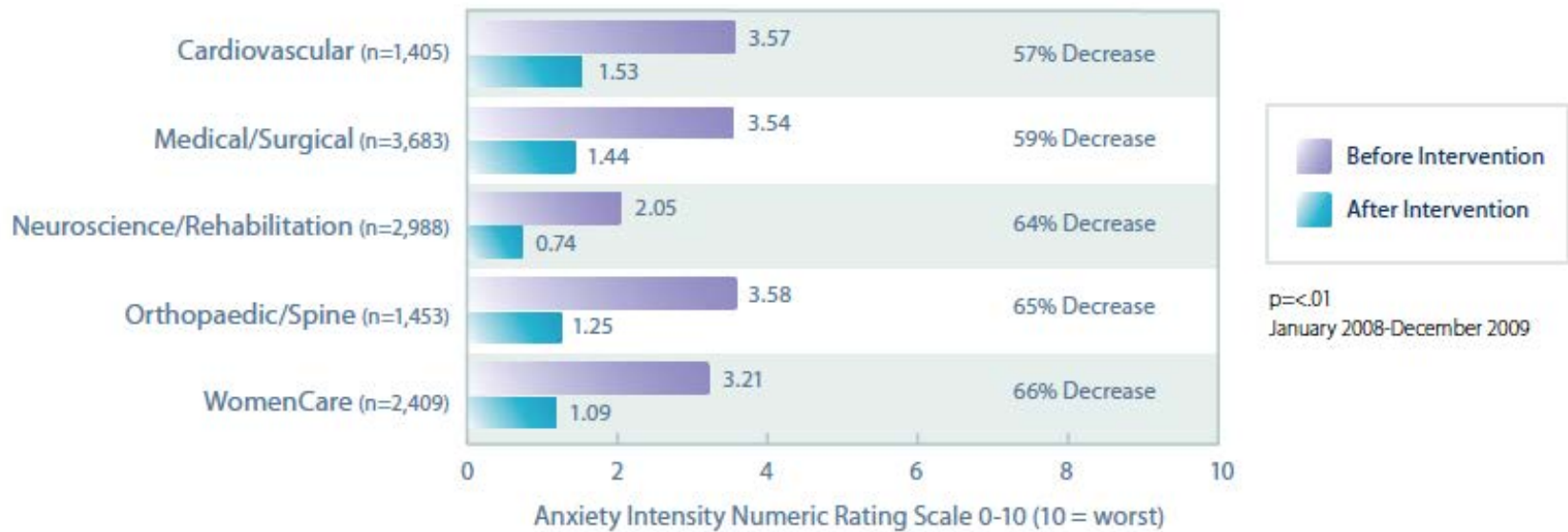
Key Words. Complementary and alternative medicine, health care workforce, National Health Interview Survey

Inpatient Self-Reported Pain Scores by Type of Patient Served, 2008-2009



p<.01
January 2008-December 2009

Inpatient Self-Reported Anxiety Scores by Type of Patient Served, 2008-09



Impact of integrative medicine therapies on immediate pain and anxiety scores at Abbott Northwestern Hospital

Jeffery A. Dusek PhD, Lori Knutson RN, Gregory A. Plotnikoff MD

PENNY GEORGE INSTITUTE FOR HEALTH AND HEALING, ABBOTT NORTHWESTERN HOSPITAL, ALLINA HOSPITALS & CLINICS, MINNEAPOLIS, MN 55407

SUPPORTED BY ABBOTT NORTHWESTERN HOSPITAL AND THE GEORGE FAMILY

Introduction

Integrative Medicine (IM) emphasizes the patient-caregiver relationship by blending complementary and alternative medicine and conventional medicine to meet patients' needs.

IM has routinely been shown to reduce pain and anxiety in the highly controlled environment of the randomized controlled trial. However, its impact has been less studied in observational studies.

Research Objectives

To evaluate the effectiveness of IM on:

- pain & anxiety scores after IM service.
- patient's satisfaction with IM services at discharge.

Setting

The George Institute is the Integrative Medicine Department at Abbott Northwestern Hospital, a 629 bed flagship hospital of Allina Hospitals & Clinics.

Inpatient IM services are conducted individually in patients' rooms, initiated by hospital staff providing direct patient care (physicians and nurses) and documented using the hospital's EPIC-based electronic health record system.

Intervention

IM is provided to patients in all departments across the hospital: oncology, cardiovascular, neurology, rehabilitation, medical/surgical services, orthopedics, spine care, women's health.

22 Practitioners (19 FTE) provide individualized care that may be a combination of therapies:

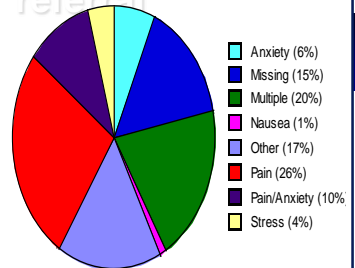
- acupuncture
- therapeutic massage (including reflexology)
- energy healing (Reiki, healing touch)

Assessments

- Practitioners collected verbal pain & anxiety (0-10 scale) just before and immediately after IM therapy.
- Patient satisfaction with IM services was assessed by questionnaire at discharge.

Referrals/ Reasons for referral

From 7/05 to 12/08, 15,596 pts were



Results

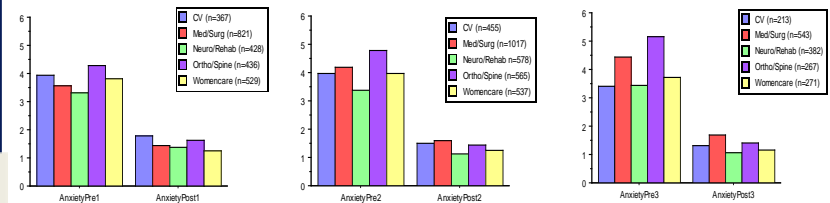
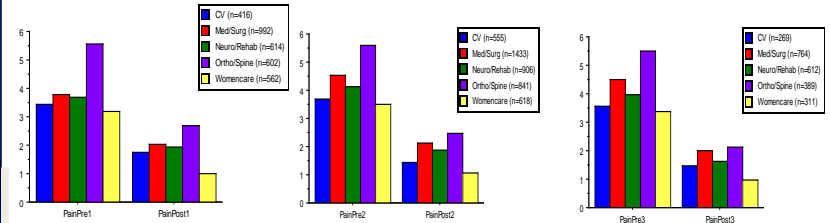
Pre/Post Pain scores collected from:

- 3,196 pts after initial IM therapy,
- 4,367 pts after second IM therapy,
- 2,355 after third IM therapy

Pre/Post Anxiety scores assessed in:

- 2,590 pts after initial IM therapy,
- 3,162 pts after second IM therapy,
- 1,682 pts after third IM therapy

Results: Pain/Anxiety



Conclusions

- Significant reductions in pain and anxiety indicate a positive patient response.
- The impact on use of pain medications is being evaluated.
- Cost effectiveness studies will use EHR data to determine if pain/anxiety reductions mediate shorter LOS and overall reduced costs.



NCIPH

National Center for
Integrative
Primary Healthcare

[Learn about the Online Curriculum Pilot >](#)

[Review the Competencies >](#)

FOCUSING ON INTERPROFESSIONAL EDUCATION, COLLABORATIVE PRACTICE, AND EVALUATION.

NCIPH Goals

Under the leadership of a national [interprofessional team \(InPLT\)](#) the NCIPH will focus on achieving the following goals over the next 3 years:

1. Develop core [IH competencies](#) for interprofessional primary care teams.
2. Develop a 45 hour interprofessional IH online curriculum for primary care educational programs —[Foundations in Integrative Health](#).
3. Create an accessible and interactive online infrastructure that will house:
 - IH curricula and other educational resources
 - Best IH practices for primary healthcare professions
 - Links to partner organizations and IH resources for healthcare professionals
 - Patient portal
4. Develop patient education IH materials and facilitate access to IH practitioners.



ACADEMIC CONSORTIUM
FOR **INTEGRATIVE**
MEDICINE & HEALTH

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Academic Collaborative for Integrative Health



ACIH is the ICIMH Education
Partner - Be There!



We've changed our name! The Academic Consortium for Complementary and Alternative Health Care (ACCAHC) is now the Academic Collaborative for Integrative Health (ACIH).

A new website is in development!



Some of the 80 professionals gathering at the ACIH Biennial Meeting, June 2013, at the



PLEASE VISIT OUR MEMBER SITES

Councils of Colleges





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Section 2706

CoverMyCare



Healthcare Reform

The Integrative Healthcare Policy Consortium stands for access for all people to the full range of safe and regulated conventional, complementary and alternative healthcare professionals.



**Integrative Care
for Employers: A
Webinar Nov. 17**

**A CALL TO ACTION
Report from 2014
Harkin Symposium**



**IHPC REPORT:
Financial Benefits
of Integrative Care**



**CoverMyCare:
Critical Fall 2015
State Actions**



CoverMyCare

Integrative Health in the U.S.



Integrative Wellness in the Workplace

Research comparing the cost effectiveness of integrative therapies has significant potential for improving employee wellness but also for the care defined by company insurance plans.

THE CASE FOR INTEGRATIVE HEALTH CARE FOR EMPLOYERS

In case your regular physician, employer or anyone else (your insurance company) scoffs at the idea of using holistic / integrative therapies “because there’s no proof,” the attached sheet may help bring them up to speed on state-of-the-art research describing the benefits of integrative health, notably in workplace settings.



Create a culture of well-being.

Manage healthcare costs. Win the war for talent. Retain top employees. Maximize performance and productivity. It's time to move past wellness and engage your employees in what matters most to them — their well-being.



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**Easy Access to Complementary and Alternative Medicine,
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iorahealth

It's a whole new patient experience.

Iora changes primary care as we know it. Our care team, which includes a dedicated advocate for each patient, works together to treat the whole person. We see people when they're sick, but also when they're well, so that we can keep them healthy. Here, the environment is caring and patients have a voice. It's our job to give them everything they need to live happier and healthier lives.

CARE TEAM
WORKING
TOGETHER



WARM
AND CARING
ATMOSPHERE



FORUM TO
BE HEARD



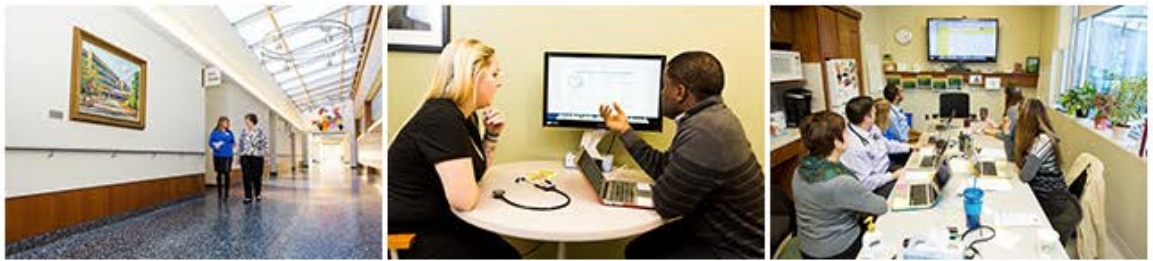
HEALTH
COACH





SPONSOR: NEW ENGLAND CARPENTERS BENEFITS FUNDS

Carpenters Training Center Vision
Center, 2nd Floor
750 Dorchester Avenue
Dorchester, MA 02125



Iora Primary Care opened its doors to members of the New England Carpenters Benefits Funds in March 2013 and has been serving them ever since. Beyond a team-based primary care focus, the Iora Primary Care teams provide wellness classes and groups designed for the Carpenters and their families including Hammer Time.



SPONSOR: CULINARY HEALTH FUND
1961 South Las Vegas Blvd, Suite 101
Las Vegas, NV 89104

Culinary Extra Clinic serves the hotel and restaurant workers who participate in the Culinary Health Fund in Las Vegas, NV. Sponsored by the Culinary Health Fund, the Clinic is open to those participants in the Fund who experience severe and chronic illness. The Culinary Extra Clinic is located at St. Louis Square on the north end of "the Strip" in Las Vegas, Nevada.



SPONSOR: GRAMEEN PRIMACARE
82-11 37th Avenue,
7th floor Queens, NY 11372



Grameen VidaSana is a membership-based primary care and health promotion program for Grameen America members beginning in the summer of 2014. This health promotion program combines Iora Health's enhanced primary care model with Grameen PrimaCare's peer educational group model to improve the health and well-being of hard-working, low-income women in immigrant communities.

VISIT WEBSITE



OPTUMHealth™

< What metrics capture the value of health and wellness programs?

Read the expert perspective on value of investment.

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The Optum Resource Center for Health and Well-being helps employers improve workplace productivity, health care costs and employee quality of life through research-driven insights, innovative perspectives and ideas focused on driving a culture of health ownership among employees.



Beyond ROI: Building employee health & wellness value of investment

Optum™ & National Business Group on Health:
Value of Investment Study results



Well-Being Index

The Gallup-Healthways Well-Being Index

Gallup and Healthways have developed a comprehensive, definitive source of well-being measurement, the Gallup-Healthways Well-Being Index. This scientific survey instrument measures, tracks and reports on the well-being of populations. The five essential elements of well-being are:



Purpose: liking what you do each day and being motivated to achieve your goals



Social: having supportive relationships and love in your life



Financial: managing your economic life to reduce stress and increase security



Community: liking where you live, feeling safe and having pride in your community



Physical: having good health and enough energy to get things done daily

How to Realize Returns on Health



After demonstrating in [Maximizing Healthy Life Years](#) that health can have a positive return on investment, the 2016 report [How to Realize Returns on Health](#) shows how to tackle the silent NCD pandemic: why we should focus on Maximizing Healthy Life Years (MHLY) instead of just treating disease, why we need to act boldly now and how investments into health can have healthy returns in a multi-stakeholder environment by creating Ecosystems of Health.

Health-Creation Value-Based Proposition

$$\begin{array}{c} \text{SROI} \\ \text{Social Return On} \\ \text{Investment} \end{array} = \frac{\left(\begin{array}{cc} \text{Tangible} & + & \text{Intangible} \\ \text{Value to the Community (TV)} & & \text{Value to the Community (IV)} \end{array} \right)}{\left(\begin{array}{cc} \text{Clock} & + & \text{Dollar} \\ \text{Total} & & \text{Total} \end{array} \right)}$$

While in financial management the term ROI refers to a single ratio, SROI analysis refers not to one single ratio but more to a way of reporting on **value creation**. It bases the assessment of value in part on the perception and experience of stakeholders, finds indicators of what has changed and tells the story of this change and, where possible, uses monetary values for these indicators

JANUARY 28, 2013

Joe Klein:
The CIA's
Afghan Disaster

Yemen: The
New Center
Of Terror

Why the Recession
Hasn't Been Cool
To Teens

TIME

WHY YOUR DNA ISN'T YOUR DESTINY

The new science of epigenetics reveals how the choices you make can change your genes—and those of your kids

BY JOHN CLOUD

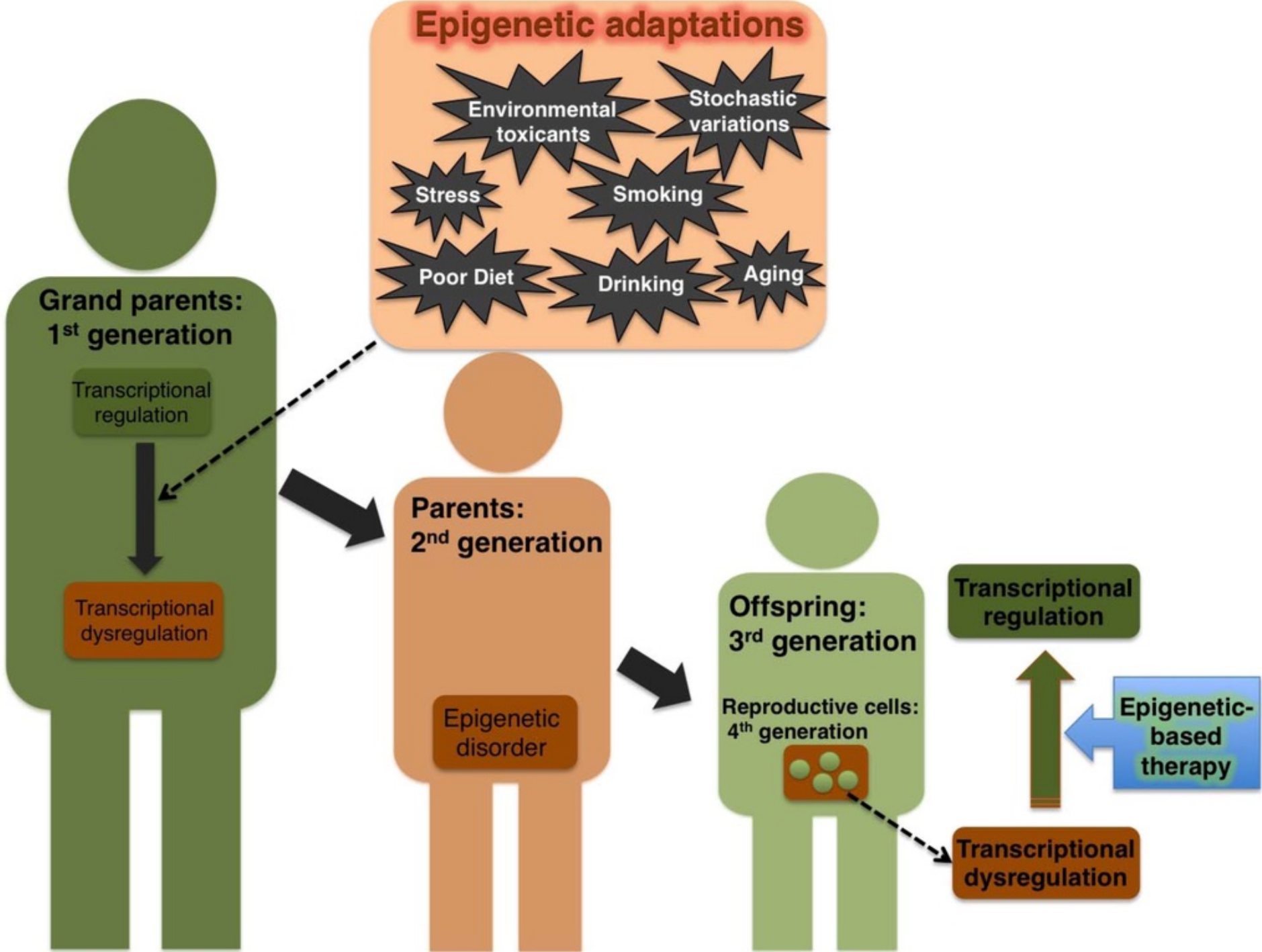


www.time.com

“The only person you are destined to become is the person you decide to be.”

~ Ralph Waldo Emerson





Epigenetics and Gene Activation for Improved Health and Longevity



Exercise

- BDNF



Nutritional Factors

- Calorie Restriction
- Mediterranean Diet
- Polyphenols



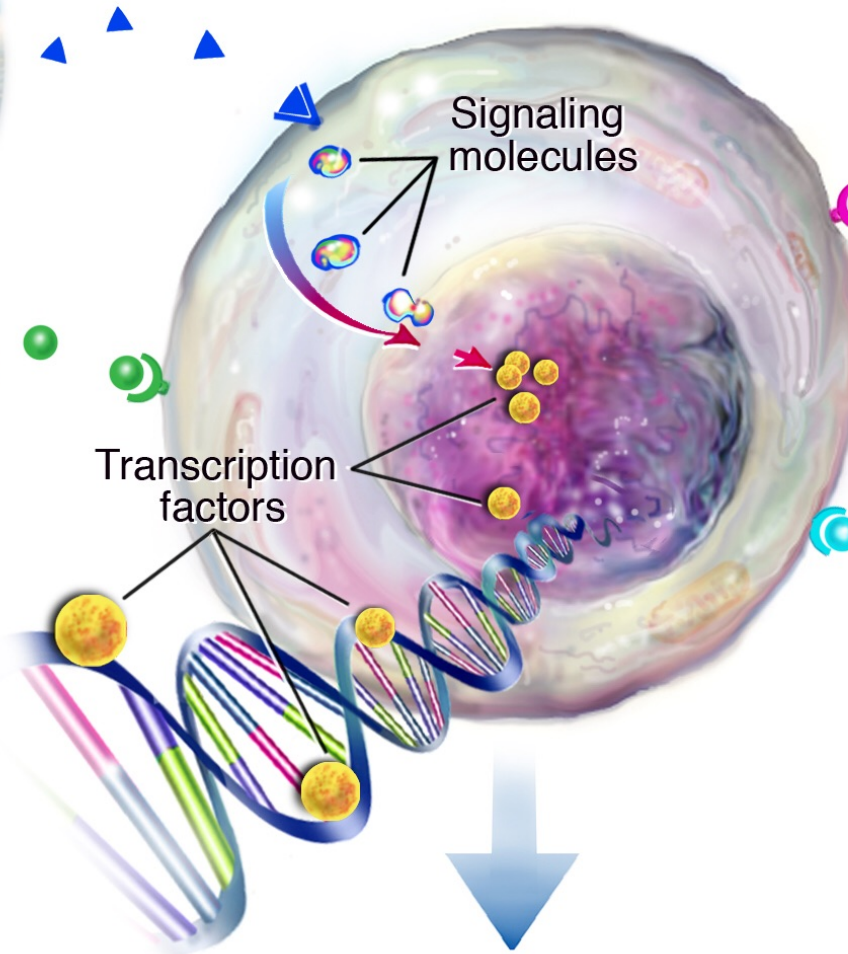
Environment

- Clean air, water and soil
- No smoking



Emotional Health

- Religion
- Meditation
- Spirituality



Anti-Inflammatory
Anti-oxidant, Anti-mutation



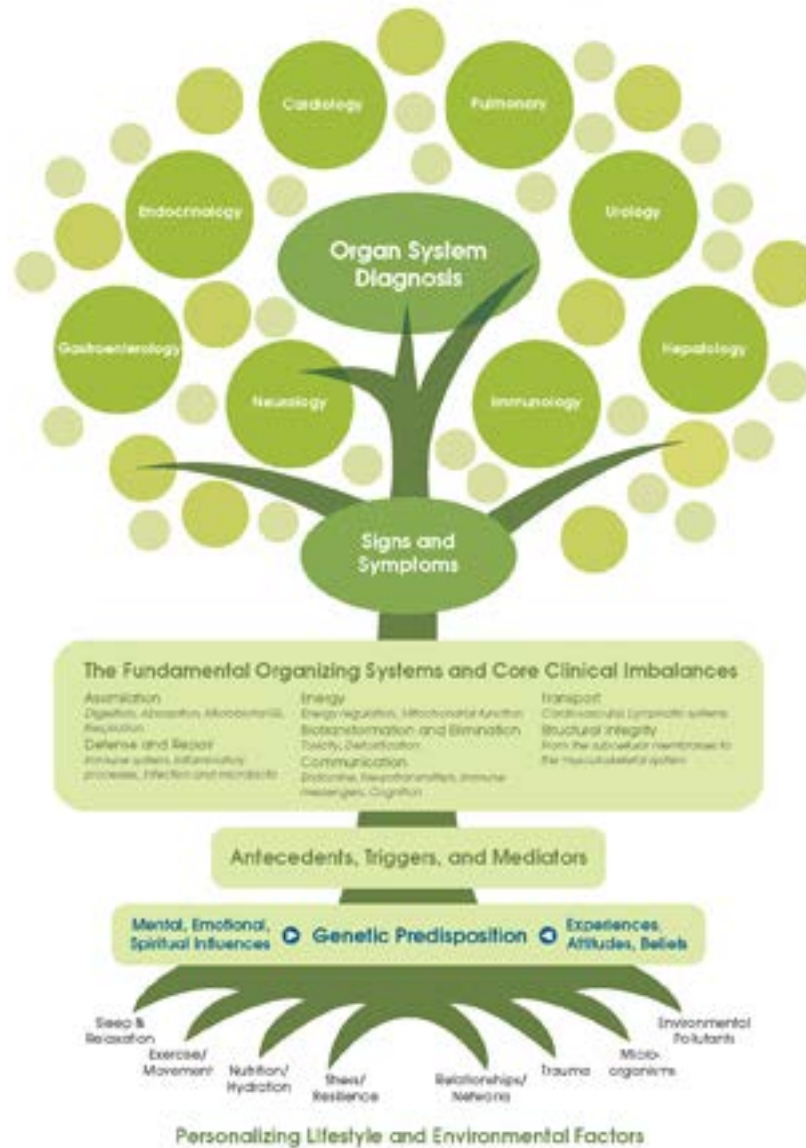
DISEASES

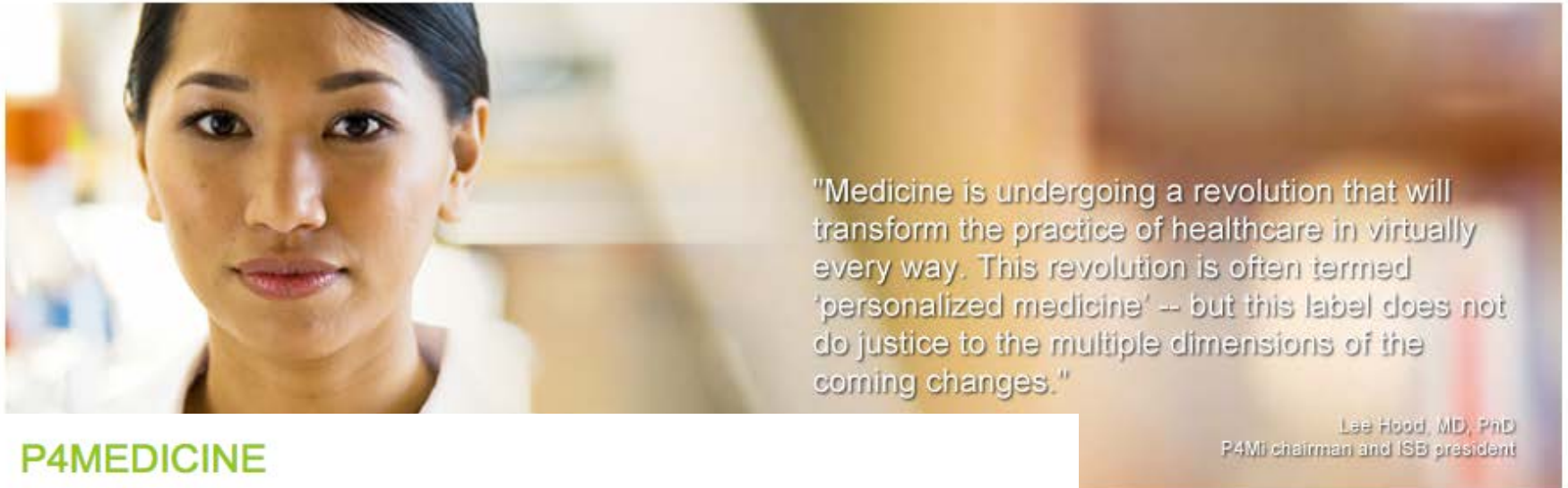
Diabetes
Cancer Heart disease
Arthritis Auto-Immune diseases
Fibromyalgia Obesity

UNDERLYING CAUSES

Inflammatory imbalances
Structural imbalances
Immune imbalances
Digestive, absorptive, and
microbiological imbalances
Toxic emotions
(anger, fear, resentment, etc.)

Hormonal imbalances
Detoxification imbalances
Mitochondrial dysfunction
Toxic chemical exposure



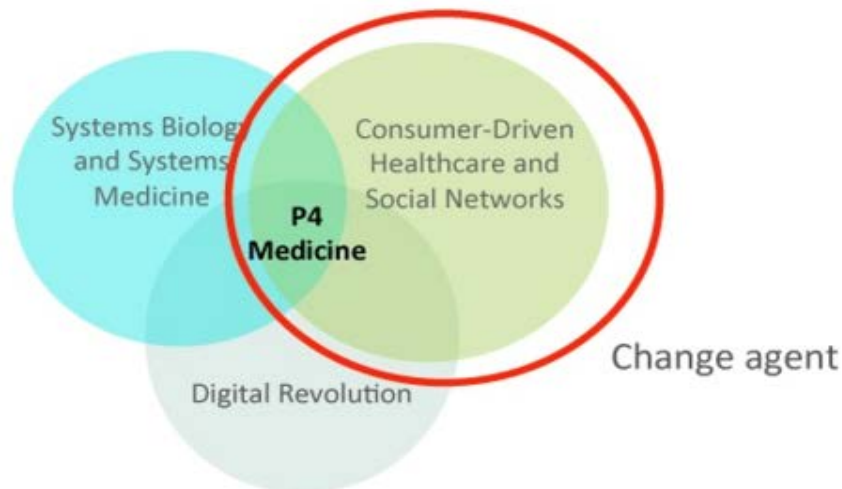


"Medicine is undergoing a revolution that will transform the practice of healthcare in virtually every way. This revolution is often termed 'personalized medicine' -- but this label does not do justice to the multiple dimensions of the coming changes."

Lee Hood, MD, PhD
P4Mi chairman and ISB president

P4MEDICINE

The convergence of systems biology, the digital revolution and consumer-driven healthcare is transforming medicine from its current reactive mode, which is focused on treating disease, to a P4 Medicine mode, which is medicine that is predictive, preventive, personalized and participatory.



P4 MEDICINE

THE 4 PS

SYSTEMS BIOLOGY

THE DIGITAL REVOLUTION

CONSUMER DRIVEN
HEALTHCARE

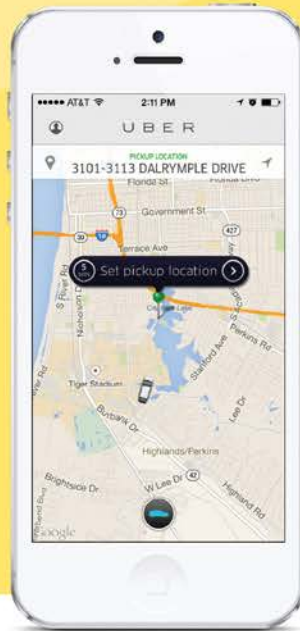


HOW UBER WORKS



Users download a **free app** that asks for your basic information and a credit card number, to which it will bill all future rides.

To request a ride, click on the app and a map appears, asking if you want to request a ride. If you click yes, the map indicates your location and the location of all nearby Uber cars. If you select one, it gives you the **estimated time of arrival** and information about the driver, including his name, the type of vehicle and how others have rated him.



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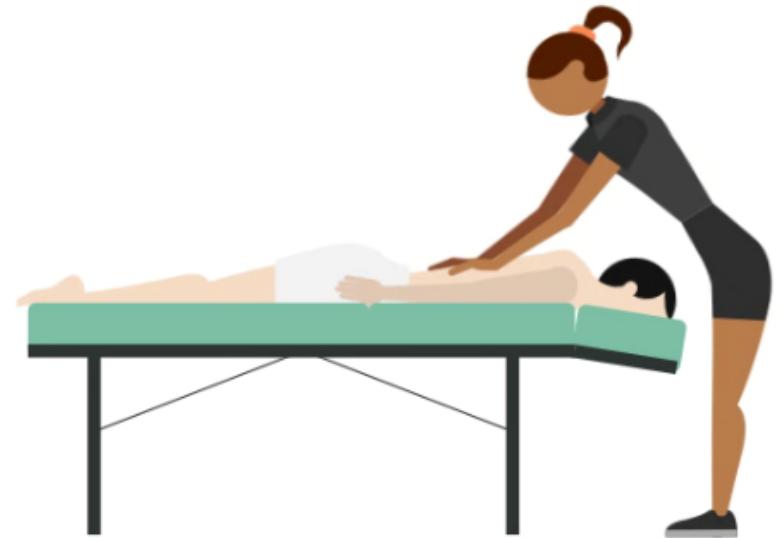
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Health and Wellbeing Technology



HOW IT WORKS

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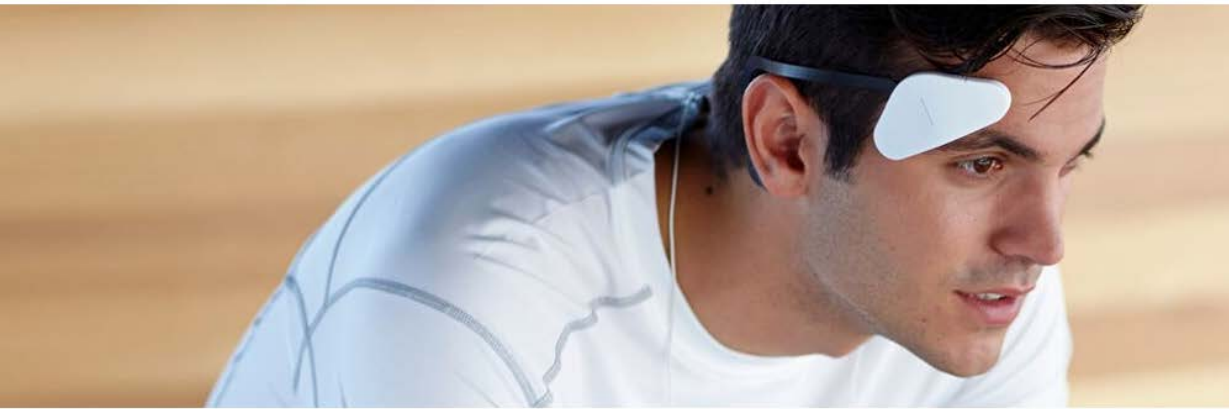
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VISIONEERS

FAQ

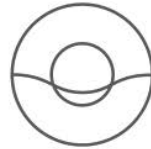
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WHAT IS
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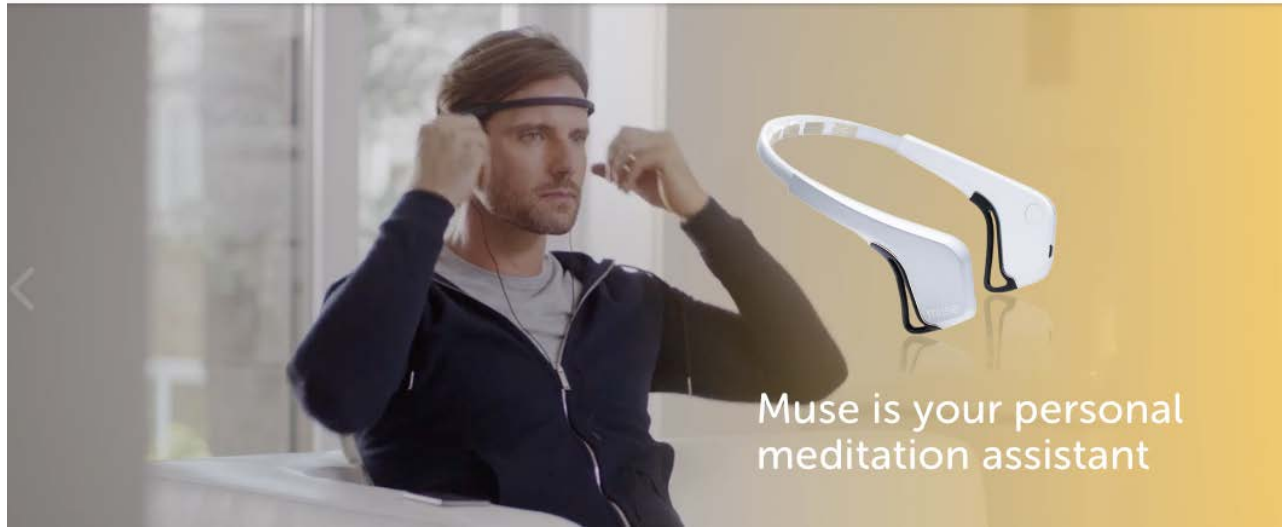
THE PEOPLE
BEHIND MUSE
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Muse is your personal
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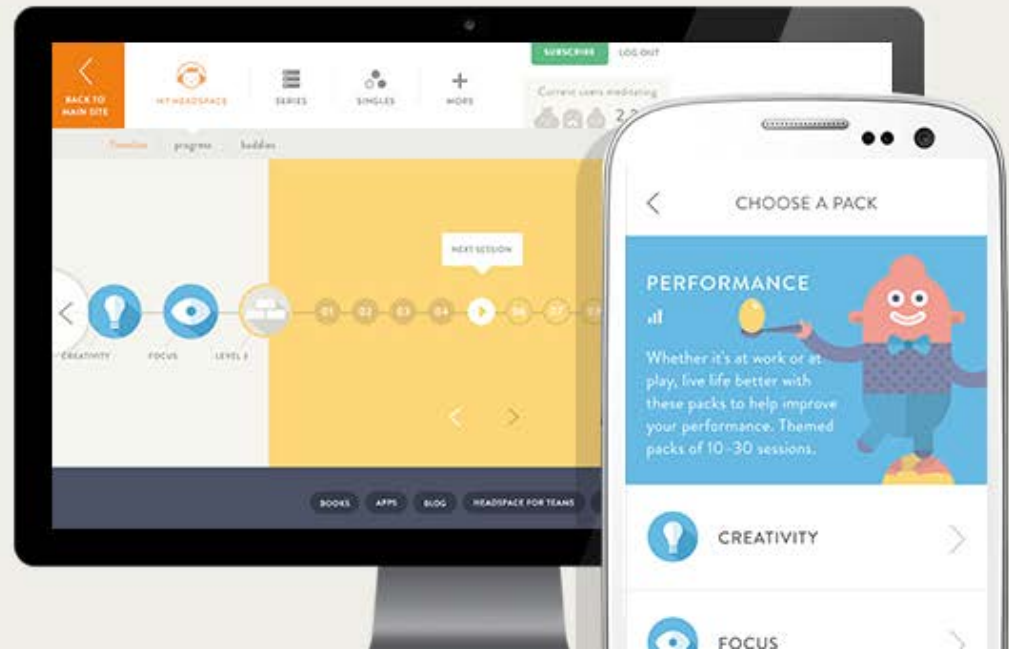


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Headspace is meditation made simple. Learn online, when you want, wherever you are, in just 10 minutes a day.

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Blue Ocean



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