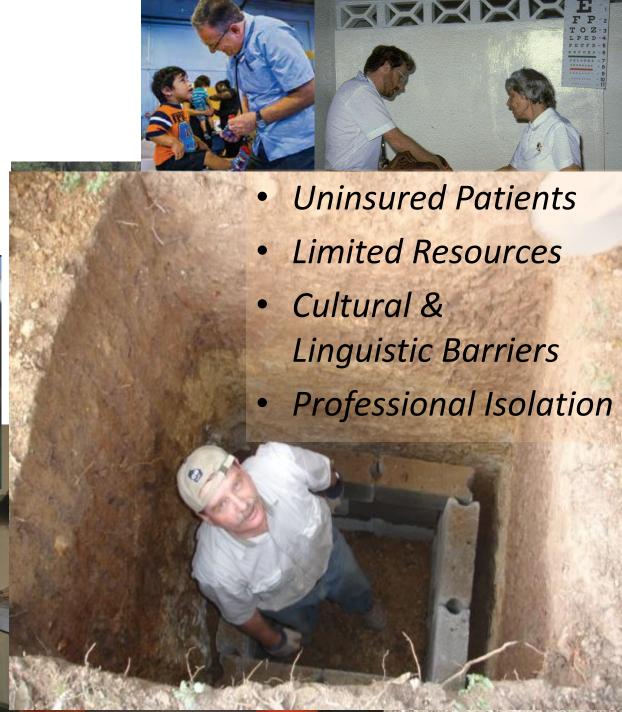


George Rust, MD, MPH, FAAFP, FACPM
Father of Dan & Christina, Husband of Cindy,
Grandfather of Gracie
Professor of Behavioral Sciences & Social Medicine
Director, FSU-COM Center for Medicine & Public Health



Limitations of a Primary Care Clinician Serving High-Disparity Populations

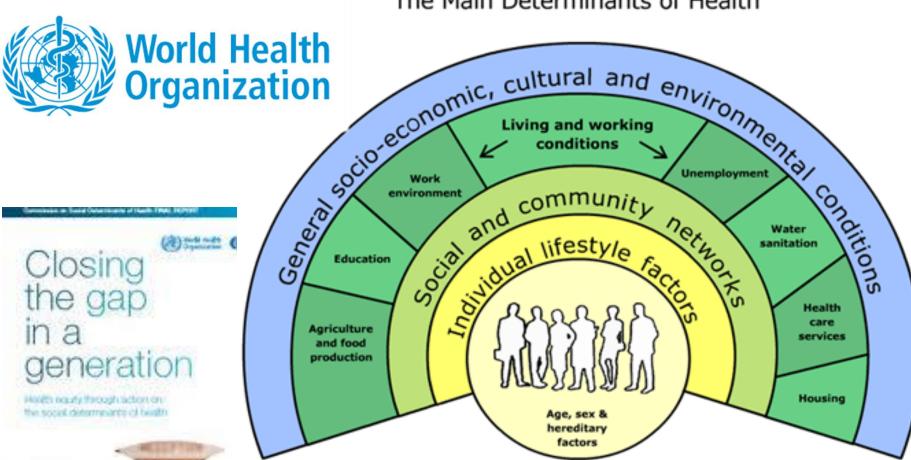




Health Behaviors



The Main Determinants of Health





Social "Determinants"

Poor Outcomes are Rooted in Clinical & Social Complexities



Upstream Downstream "Determinants" of Health

A Cascade of Causation, but **not** Unidirectional

J Public Health Manag Pract. 2008 November; 14(Suppl): S8-17. doi:10.1097/01.PHH

Moving Upstream: How Interventions that Address the Social Determinants of Health can Improve Health and Reduce Disparities

David R. Williams, PhD, MPH^{1,2}, Manuela V. Costa, MPH¹, Adebola O. Odunlami, MPH¹, and

Midstream

Upstream

Policy and Programs

- Corporations and other businesses
- Government agencies
- Schools

Social inequities

- Class
- Race/ethnicity
- Gender
- Immigration status
- Sexual orientation

Physical environment

- Housing
- Land use
- Transportation
- Residential Segregation

Behavior

- violence

Disease and

Injury

Infectious disease

Downstream

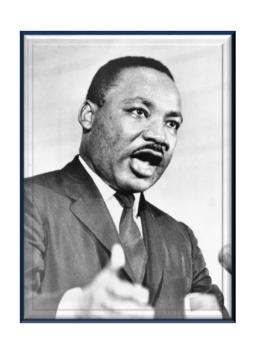
- Chronic disease
- Injury

- Smoking
- Nutrition
- Physical activities

Mortality

- Infant mortality
- Life expectancy

Government, Schools, CBOs → Parks & Housing → Hospitals & Clinics



Health Disparities

"Of all the forms of inequality, injustice in health care is the most shocking and inhumane."

"More than one-quarter of the American Indian and Alaska Native population is living in poverty, a rate that is more than double that of the general population and one that is even greater for certain tribal groups (e.g., approaching 40%)."

Am J Public Health. 2006 Aug;96(8):1478-84. Epub 2006 Mar 29.

A nationwide population-based study identifying health disparities between American Indians/Alaska Natives and the general populations living in select urban counties. Castor ML¹, Smyser MS, Taualii MM, Park AN, Lawson SA, Forquera RA.

MORTALITY DISPARITY RATES

American Indian Disparities

American Indians and Alaska Natives (Al/AN) in the IHS Service Area 2009-2011 and U.S. All Races 2010 (Age-adjusted mortality rates per 100,000 population)

	AI/AN Rate 2009-2011	U.S. All Races Rate - 2010	Ratio: Al/AN to U.S. All Races
ALL CAUSES	999.1	747.0	1.3
Diseases of the heart (Heart Disease)	194.7	179.1	1.1
Malignant neoplasm (cancer)	178.4	172.8	1.0
Accidents (unintentional injuries)*	93.7	38.0	2.5
Diabetes mellitus (diabetes)	66.0	20.8	3.2
Alcohol-induced	50.0	7.6	6.6
Chronic lower respiratory diseases	46.6	42.2	1.1
Cerebrovascular diseases (stroke)	43.6	39.1	1.1
Chronic liver disease and cirrhosis	42.9	9.4	4.6





Racial
Disparities
are Severe
and Persistent

TRENDS

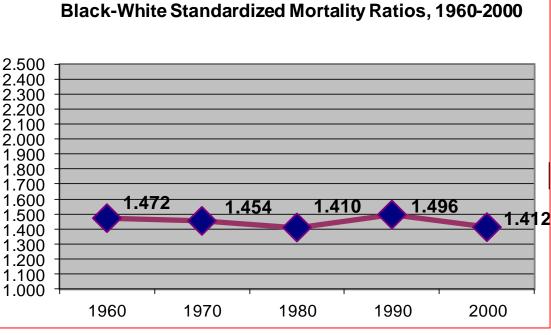
What If We Were Equal? A Comparison Of The Black-White Mortality Gap In 1960 And 2000

Closing this gap could eliminate more than 83,000 excess deaths per year among African Americans.

by David Satcher, George E. Fryer Jr., Jessica McCann, Adewale Troutman, Steven H. Woolf, and George Rust

ABSTRACT: The United Starights, housing, education, amined trends in black-whi 2.500 from 1960 to 2000. The b 2.400 2.300 1960 and 2000 and actu 2.200 thirty-five and older. In condata, an estimated 83,570 States if this black-white mi

and minority health 1.500 1.500 1.400 concern that 60,000 1.300 were occurring annually b 1.200 disparities, primarily among 1.100

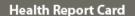


Georgia **Health Equity Initiative**

Health Disparities Report 2008: A County-Level Look at Health Outcomes for Minorities in Georgia

First Edition

Black-White racial inequalities in health outcomes cost Fulton County 28,022 excess years of potential life lost due to premature deaths.



Minority Health Outcome Category	County Grade	
Social and Economic Indicators	С	
Mortality (Deaths)	F	
Illness Events (Hospital Admits & Emergency Visits)	D	
Prenatal Care & Birth Outcomes	D	
Primary Care Access	В	
Physician Racial-Ethnic Diversity	F	
Mental Health Care Access	С	
Oral Health Care Access	Partial- County HPSA	
% Speaking non-English Language at Home	13.3%	
% Estimated to Have No Health Insurance	15.5%	



Insurance, quality of care blamed for racial disparity in breast cancer mortality

BY HALLIE D. MARTIN

FEB 28, 2008

The breast cancer mortality rate for black women is 68 percent higher than for white women in Chicago, a study by Sinai Urban Health Institute found, and while the reasons for the disparity are complicated, experts said insurance is a major factor.

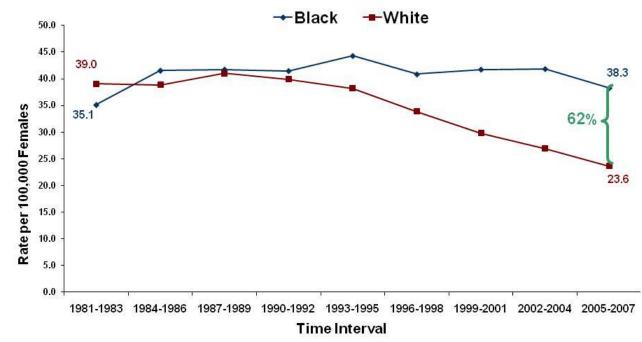
"Black women are two years behind," said Sharon Brown, supervisor at the Breast Imaging Center at Rush Medical College. "[Doctors] don't catch it early, and it tends to be more aggressive."

BY <u>HALLIE D. MARTIN</u>, MEDILL REPORTS CHICAGO FEB 28, 2008

HTTP://NEWS.MEDILL.NORTHWESTERN.EDU/ CHICAGO/NEWS.ASPX?ID=79861

Unequal Benefit: Breast Cancer Disparities Widen

Black and White Breast Cancer Mortality Chicago, 1981-2007



Age-Adjusted Female Breast Cancer Mortality for Chicago, Per 100,000 Population

Deficits

Disparities

Despair





Disparities Sparities

Deficits

OVERWHELMED

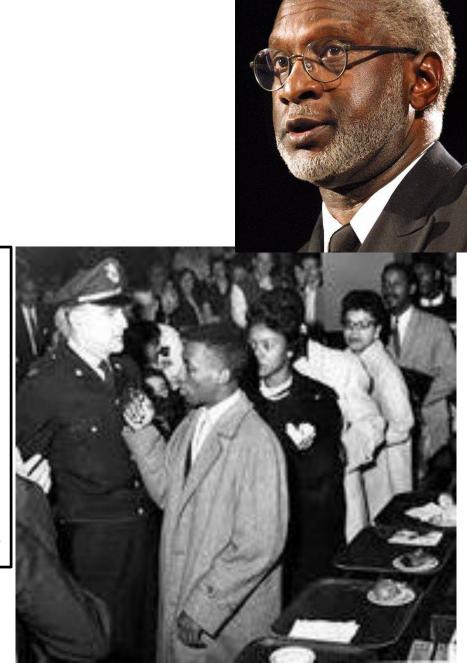
SURE, I CAN HANDLE THE LOAD. NO PROBLEM.

Believe in the Possible!

"Living through the Civil Rights movement showed me that I could be a part of change. I realized then that you don't have to accept things the way they are."

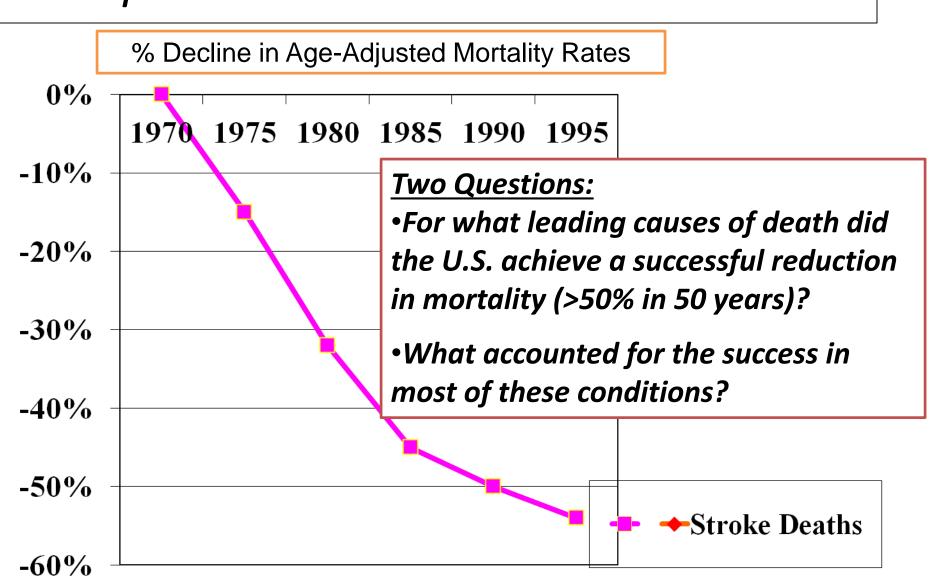
-- David Satcher, MD, PhD

The Community Foundation for Greater Atlanta; http://www.cfgreateratlanta.org/Giving/Donor-Stories/The-David-Satcher-Fund1.aspx



Triangulating on Success to Improve America's Health

Rust G, Satcher D, et al. AJPH, 2010



Triangulating on Success to Improve America's Health

Rust G, Satcher D, et al. AJPH, 2010

Cardiovascular:

- Heart Disease
- Stroke

Cancer:

- Uterine/Cervical Cancer
- Gastric (Stomach) Cancer

• Traumatic Injuries

Unintentional Injuries

Infectious Disease:

- HIV-AIDS
- Tuberculosis
- Syphilis
- Influenza / Pneumonia

What accounted for the successful reduction in mortality (>50% in 50 years) for most of these conditions?



The American Journal of Medicine



Volume 126, Issue 1, January 2013, Pages 76-80

Brief observation

1200

1000

800

400

200

Deaths per

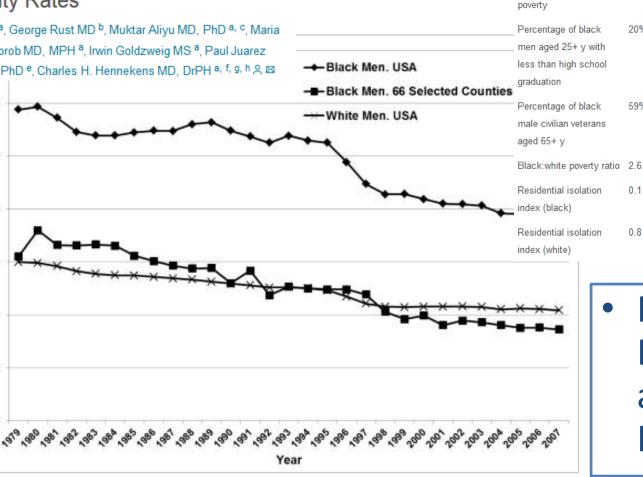
100,000

Population

United States Counties with Low Black Male Mortality Rates

Robert S. Levine MD a, George Rust MD b, Muktar Aliyu MD, PhD a, c, Maria Pisu PhD d, Roger Zoorob MD, MPH a, Irwin Goldzweig MS a, Paul Juarez PhD a, Bagar Husaini PhD e, Charles H. Hennekens MD, DrPH a, f, g, h & 🗷





Racial Disparities are not Inevitable!

31%

49%

25

0.1

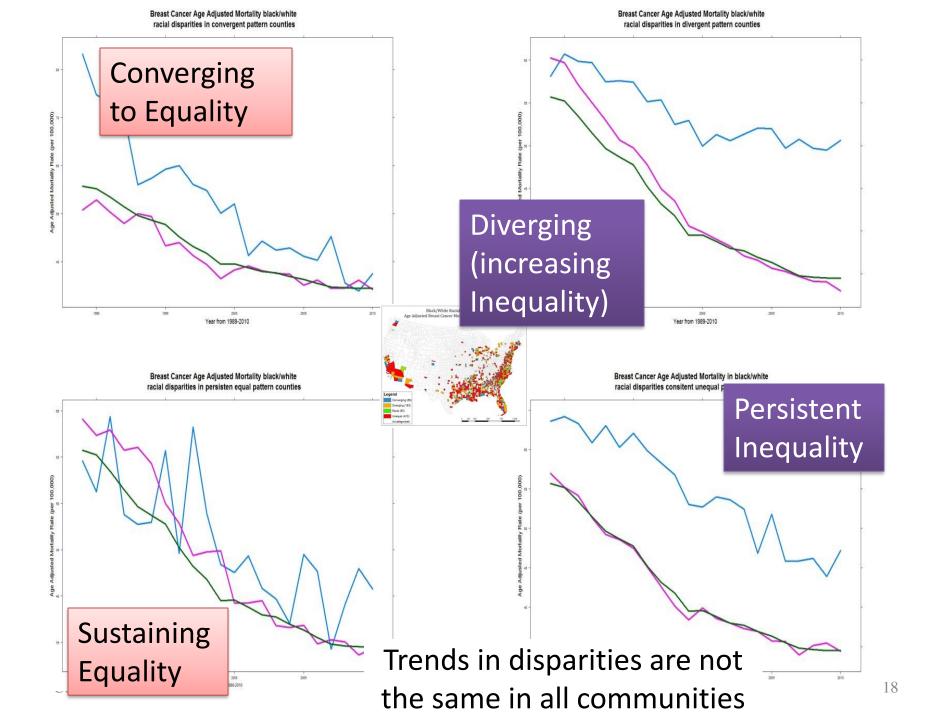
1.1

8.0

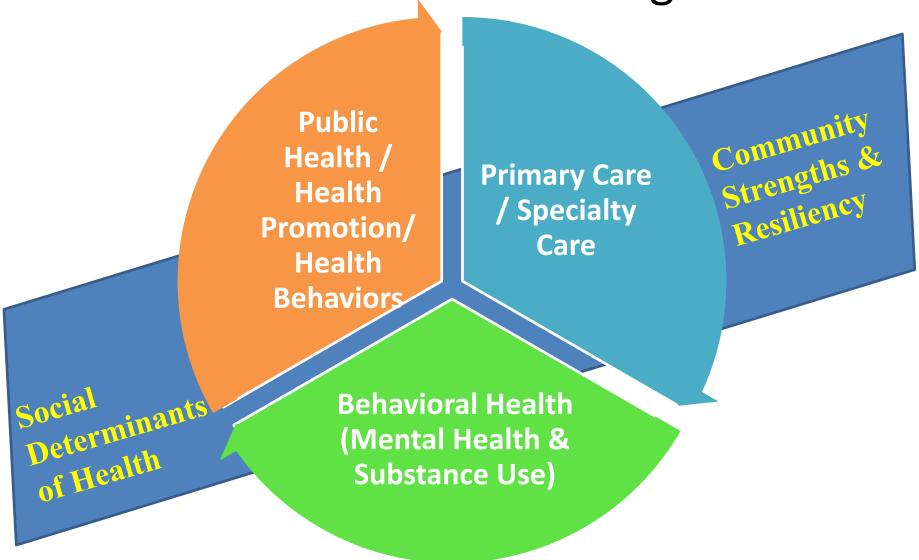
550

416

526



Stretching the Boundaries of Health Care & Health Outcomes Management



Why Blend Primary Care & Community Health?

Example: To prevent complications of obesity and diabetes, all you have to do is modify a person's health beliefs and attitudes, daily habits, eating preferences, daily activities, exercise habits, grocery stores, neighborhood walk-ability, food advertising, self-care, employability, economic empowerment, access to medical care, clinical inertia, provider quality, and medication adherence, all in the context of his or her family and social relationships.

Two Seemingly Contradictory Ideas

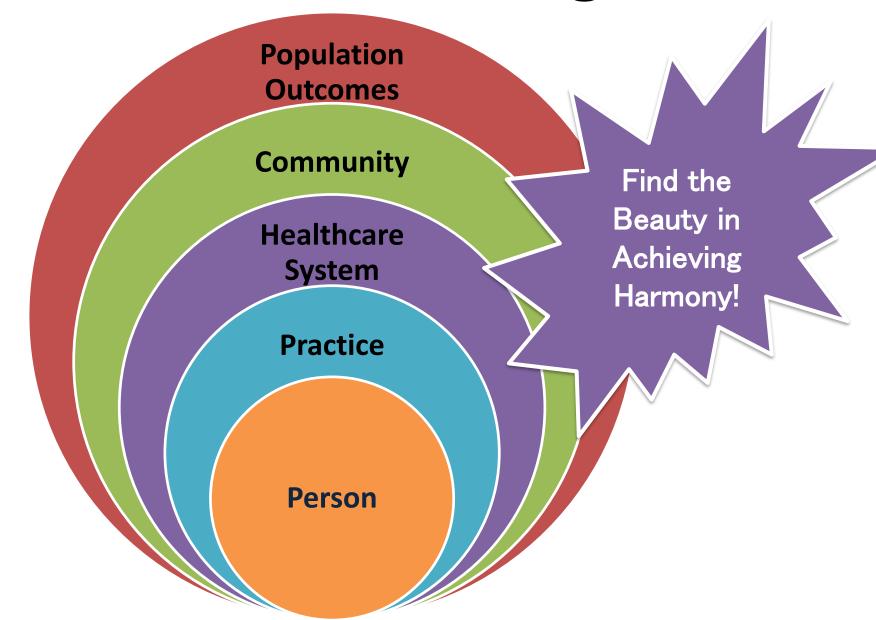


Focusing on One Person at a Time

Focusing on the Whole Community



Five Levels of Integration

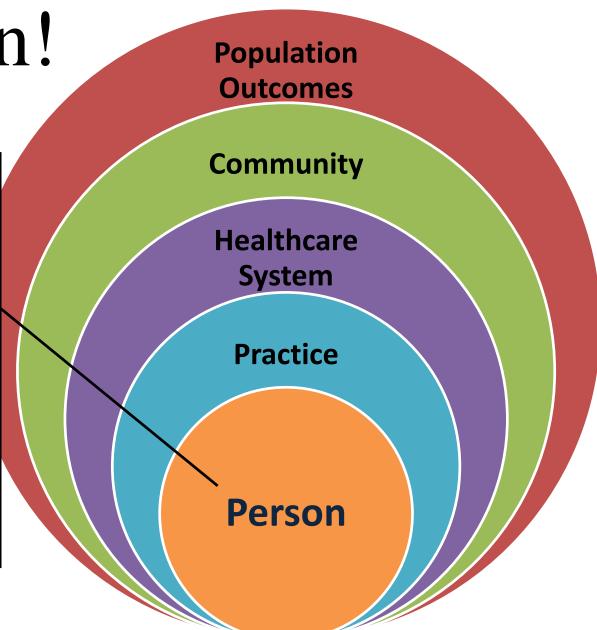


Integration!

Person-Level

Integrating
Behavioral Health
& Primary Care

- Behavior Change
- Mental Health
- Substance Use



Managing Clinical and Social Complexities for Whole Persons

One Diabetic Patient:

• Diabetes

Pneumonia

Arthritis

Cancer

• COPD

Depression

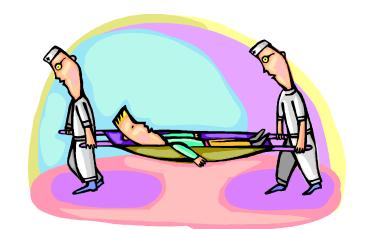
• CHF

Alcohol / substance abuse

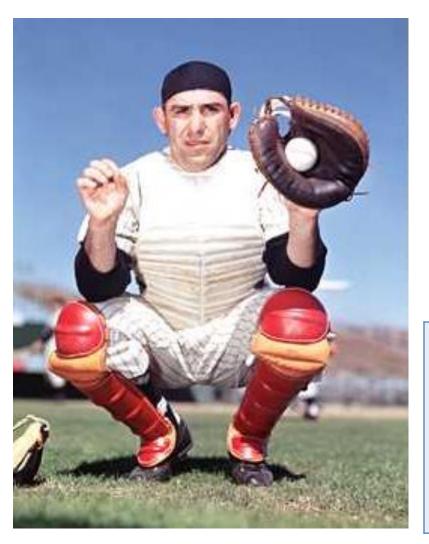
Stroke

* 21 ER Visits * 143 hospital bed-days

ip	ор	md	ot	m2	dg	total
\$217,657	\$7,105	\$29,756	\$10,498	\$3,155	\$12,182	\$280,353



Mental Health ←→Physical Health



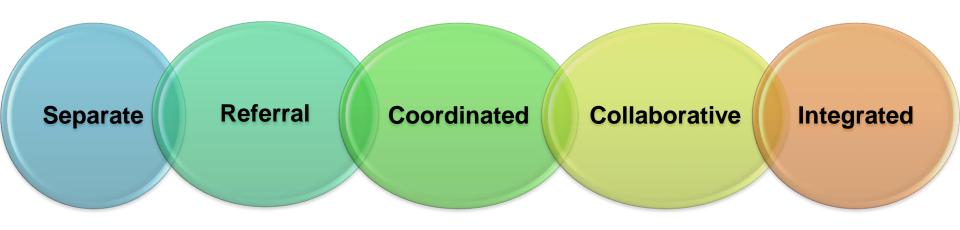
 "Baseball is 90% mental -- the other half is physical."

-- Yogi Berra

- Stress
- Depression
- Anxiety
- Substance Abuse
- Domestic Violence
- Schizophrenia
- Bipolar Illness

- Nervios
- Susto
- Mal de Pelea
- Social Isolation
- Migration Stress
- Acculturation Stress

Behavioral Health + Primary Care Continuum of Integration





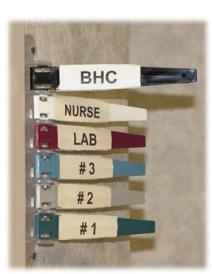
Relational Integration

= Collaborative Team

<u>Cherokee Health Systems</u> <u>"Integrated Care" Model:</u>

- Biopsychosocial approach
- Addresses the whole person by integrating behavioral services into primary care.
- Combines the best traditions of primary care and mental health services in an integrated health care team to treat the whole person
- Services include education, behavioral management, assessments, brief interventions, as well as treatment for mental health disorders.

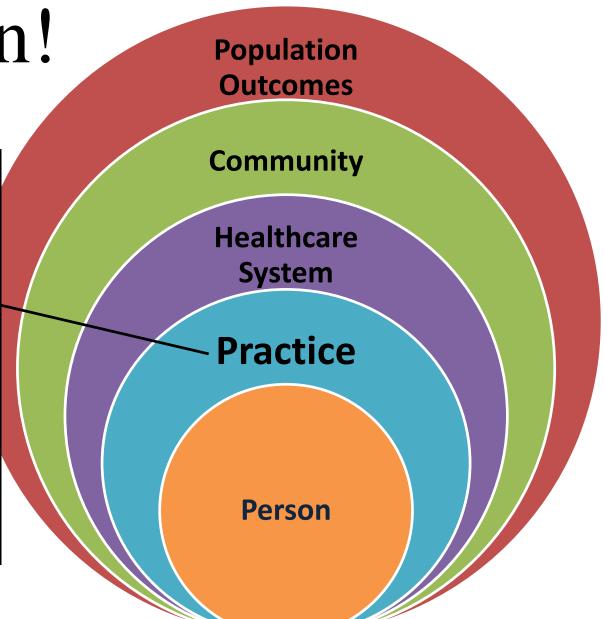




Integration!

Practice-Level

Patient-Centered,
Panel-based,
Team-Driven
Care & Outcomes
Management

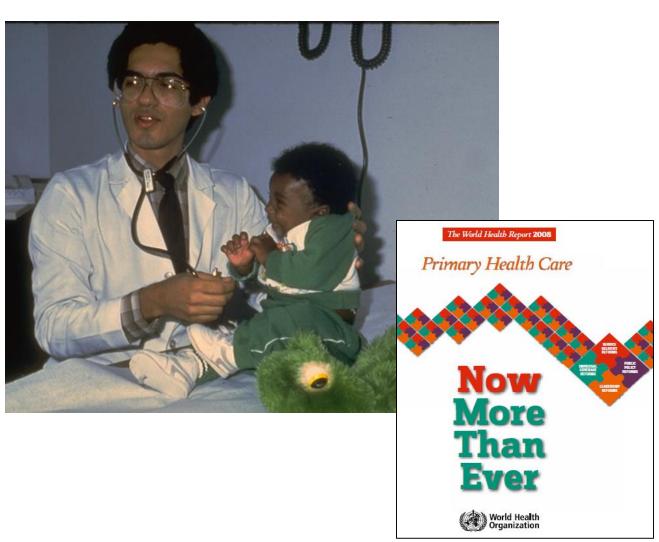


Primary Care -- Healing Whole Persons with our "Radical Human Presence"

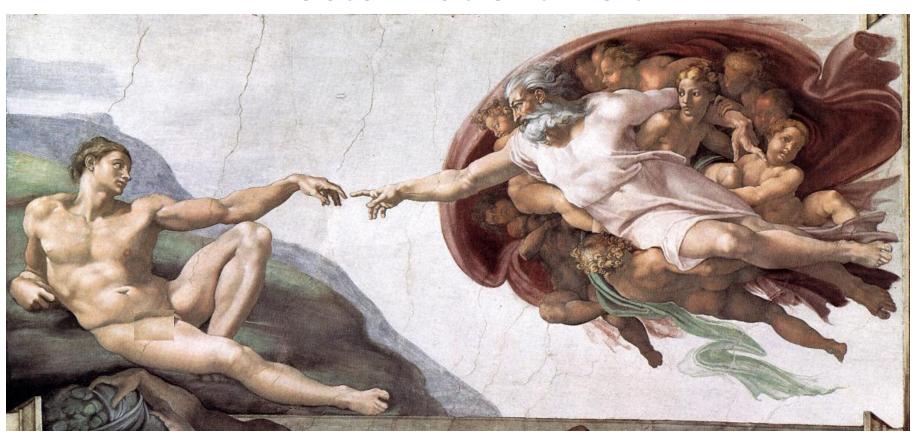
"Radical Human Presence", phrase used in a presentation called "How the Heart Learns" by Landon Saunders; AAMFT, 2004 annual mtg.



- Listening
- Touching
- Affirming
- Comforting
- Diagnosing
- Treating
- Grieving
- Supporting
- Healing



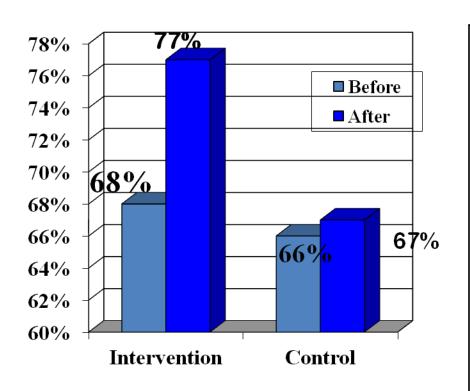
Doctor-Centered Medical Home: the Exam Room and the Doctor-Patient Visit



Personalismo, Familismo, & Confianza



Teamwork: Everyone works up to the Level of their License



- Example: Empower
 More Clinical Staff
 to Initiate Preventive
 Services
- Medical assistants and Licensed Practical Nurses offer mammography as a routine part of the clinic encounter

 McCarthy BD, Yood MU, Bolton MB, Boohaker EA, MacWilliam CH, Young MJ. Redesigning primary care processes to improve the offering of mammography. The use of clinic protocols by nonphysicians. Gen Intern Med 1997 Jun;12(6):357-63

Staffing Models: (8,000 patient panel)

- 5 MD's
- 2 PA's
- 1 RPH



- 2 MD's
- 3 PA's
- 1 NP/Care Mgr
- 1 LCSW or Psychol/Behav
- 1 RPH /Pharm D (+ pharm tech)
- 3 Promotoras

Group Visits and Panel-Based Care Mgt





 Who says group visits have to happen in the clinic?

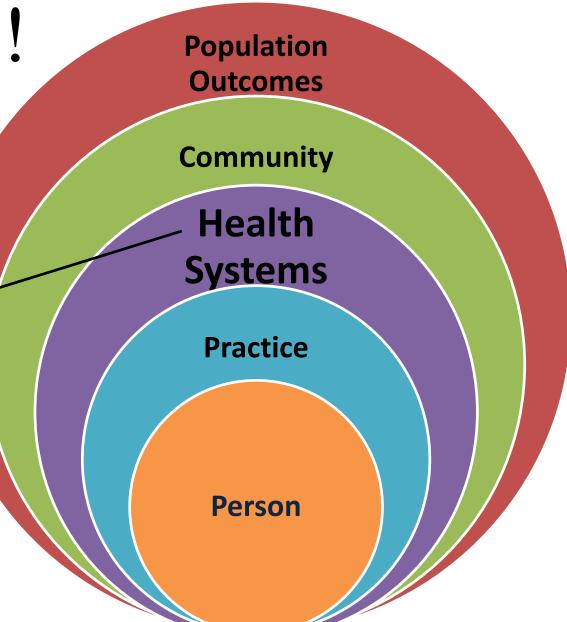




Integration!

Healthcare Systems Level:

- Information Systems
- •Delivery Systems (Pharmacy, Specialty Care, Emergency Dept, Hospital, etc.)



Health Information Systems







Individual Level:

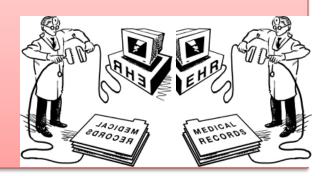
- Flags or triggers to promote compliance at each visit and to decrease missed opportunities
- Evidence-based guideline alerts

Practice Level:

- Average A1c level in all diabetics
- % of Patients with A1c > 8
- Lists of patients
 with A1c > 8 for
 outreach / action

From Uncoordinated Care to Full Information Exchange

- Jane Doe -- 37 y/o F w/ Bipolar Disorder
 - Lithium (Lithobid[®])
 - Aripiprazole (Abilify®)
 - Divalproex Sodium (Depakote[®])
- Jane Doe 37 y/o fertile female smoker with HTN & two-weeks of productive cough
 - Azithromycin (Zithromax Z-Pack[®])
 - ACE + HCTZ (Zestoretic[®])
 - OCP's (Yaz[®])
 - Bupropion (Zyban[®])



Health Advocate Benefits Gateway

Health Information Dashboard

XYZ Company **Client Screen**

Client Profile Screen 12-Month Activity Snapshot Screen

Guidelineconcordant prescribing



Patient Rx-**Adherence**







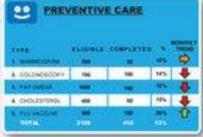






mun	X \$100 Pt	COSTS
5200	\$390	5200 5210

Acti	Action Alerts		
J Smith	Elevated A1c		
Mary Lin	Rx not refilled		



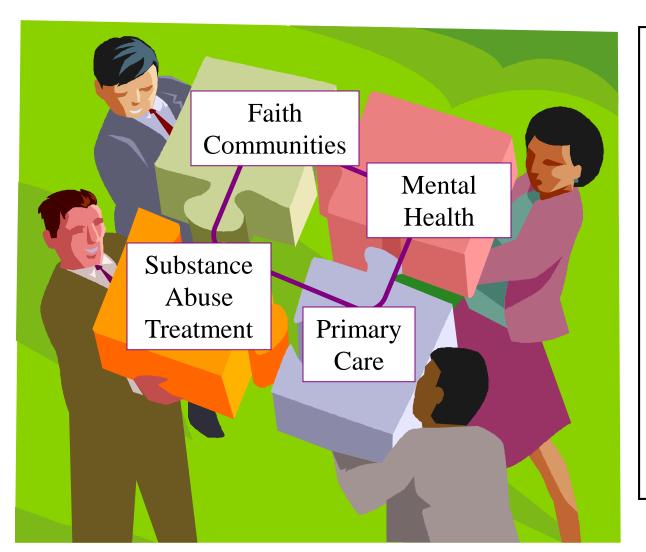
PISE	EASE MANAGEMENT			
Major Consultations (High TOPR)	100 Gard) at 100 K	PROBLEM TO SERVICE STREET	s	MONTH.
E ADTHUM	1000	-	*	
A CHARLES		16	*	
6 CONCERTIFICATION	- 39	.10	10	-
A CHICE	March 1	- 10	11	8
& ORBITY -	1.100		.6	合
TOTAL	1000	-	10	100
-	-		_	

-	AN COMPLET PERCENT	E9 68 575	12%
RIGI CONSISTE LTDS:	AT ALSO	DESCRIPTION OF THE PERSON OF T	V.
COMBITTER.	200	26	
ACCRECATE TO	198	196.	AND RANGE FROM
	100	380	
A STREET	100	- 100	3.1 🏗
A 379038	100	*	3.1 🕏

Cohesive, Comprehensive, Integrated Local Health Systems



The Power of Integration



What would happen if all the health folks came together and created a therapeutic community of healers for whole people?

Integration!

Community-Level:

- Patient at home
- Family and culture
- Social Determinants

Population Outcomes Community Healthcare **System Practice Person**

Free-Range Humans

(when patients escape from the exam room!)



Cultural Relevance / Community Ownership / Team-Based Care



South Central Foundation – Anchorage, Alaska

Promotores / Promotoras & Community Health Workers

- ↑ Enhanced Use of Complex Health Systems (Navigators)
- **↑** Immunization Rates
- **↑** Healthy Eating & Exercise
- ↑ Control of Household Asthma Triggers
- **↑** Farmworkers Eye Safety
- **↑** Compliance with TB Treatment
- ♠ Breast & Cervical Cancer Screening
- **↑** Blood Pressure Control





Healthy People Need Healthy Communities

Healthy Community

- People Out & About
- Safety
- Sense of "Community"
- Culture of Healthy Behaviors
- Resiliency
- Hope

Positive Health Factors

- Produce Markets
- Parks
- Sidewalks
- Worship
 Centers
- Primary Care Health Homes

Negative Health Factors

- Unhealthy Fast-Food
- No Safe Place to Walk or Play
- Liquor Stores
- Mini-Marts
- Crime
- Joblessness

Unhealthy Community

- Unsafe, Insecure
- Fragmented
- Economically-Depressed
- Drug-Infested
- Despairing



The Continuum of Community Health

Addressing Social "Determinants" of Health, Community Cohesiveness, Health Behaviors, Behavioral Health, and Medical Care all at the same time!

Community Health as Community Development

- Leadership Development
- Economic Development
- Health Development
- Educational Empowerment
- Political Empowerment

H. Jack Geiger (L), John W. Hatch (b1928)(R) construction of Delta Health Center, Bayou Mound, Mississippi 1968



John Hatch: Head of community organizing Delta CHC; first African-American endowed chair UNC School of Public Health.

Jack Geiger: used "health care as an instrument of social justice and empowerment for those oppressed by racism and poverty."

"The Flint Disaster: Why Doesn't Black Health Matter?" (Geiger. Feb 3 2016 physicansforhumanrights.org/blog)

Proto: Dan Bernstein
Collaborative For Health Equity Cook County WHERE PEOPLE PLACE AND POWER MATTER

11

https://www.slideshare.net/JimBloyd/phyisicans-health-reform-and-health-equity-when-we-fight-we-win

Beyond Deficits: Asset-Based Community Development

True partnership builds on community strengths to work seamlessly together on a shared agenda!





Integration!

Population Level Outcomes

- Clinical
- Economic

Population **Outcomes**

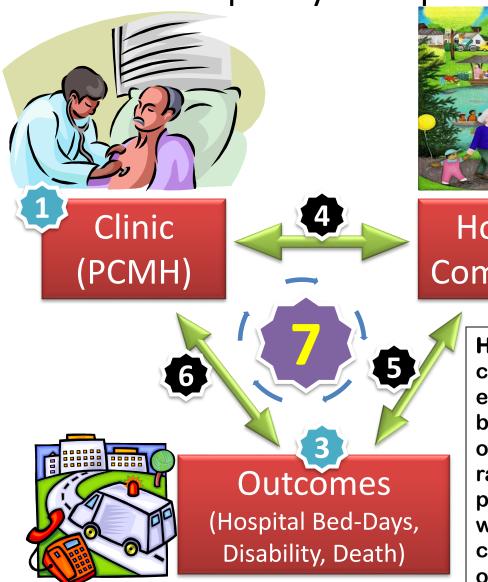
Community

Healthcare System

Practice

Person

Tying it All Together in a Rapid-Cycle Improvement Process



Home & Community

How Do We Tie it All Together? Can we continuously improve interventions in each domain and in the spaces inbetween the practice and the community or between the hospital and home, with a rapid-cycle outcomes feedback loop and provider-community coalitions all working together to keep improving connections and processes and outcomes until we achieve more optimal and equitable outcomes for all?

Holding Ourselves Accountable to <u>Achieve Equality in Outcomes</u>

- Community Level Metrics
 - Mortality
 - Hospital Bed-Days
 - Preventable Adverse Events (e.g., amputations)
- Practice-Level Data
 - ED Visits
 - Hospital Bed-Days
- Person-Level Feedback
 - Missed refills
 - Inadequate Care
 - ED Visit yesterday!





Collective Action = Collective Impact

John Kania & Mark
Kramer first wrote
about collective impact
in the Stanford Social
Innovation Review in 2011
and identified five key
elements:

Operationalizing real-world hope requires an affirmative vision, an expectation of success, broad coalitions taking action cohesively, and frequent measures of collective impact to drive rapid-cycle improvement.

Rust G. Hope for Health Equity. Ethnicity & Disease, 2018. http://www.collaborationforimpact
.com/collective-impact/

Common Agenda

Keeps all parties moving towards the same goal

Common Progress Measures

Measures that gert to the TRUE outcome

Mutually Reinforcing Activities

Each expertise is leveraged as part of the overall

Communications

This allows a culture of collaboration

Backbone Organization

Takes on the role of managing collaboration

Moving Toward Optimal Health for All in the Agalto Valley, Honduras

In the 1980's, Infant Mortality

Central Honduras was over 70

per 1,000 (7%); Since 2006,

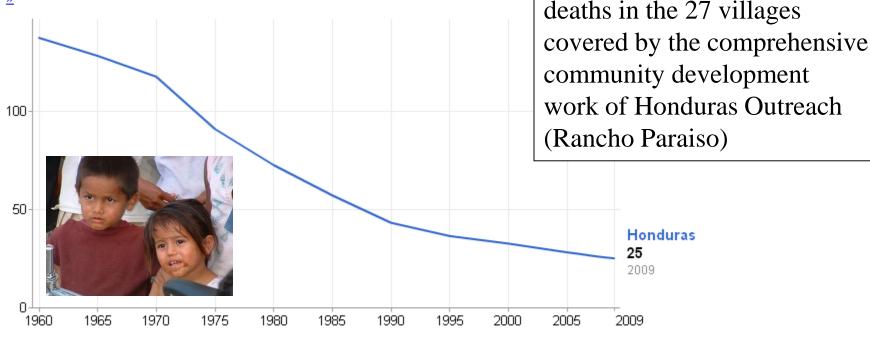
there have been no infant

in the Olancho state of





Infant mortality rate is the number of infants dying before reaching one year of age, »



Data source: World Bank, World Development Indicators - Last updated Apr 26, 2011

What Accounts for Success in the Agalto Valley, Honduras?









Human chain rescues trapped swimmers

Morning Express with Robin Meade

A family stuck in a rip current narrowly avoided a tragedy when a crowd of strangers linked together in a human chain to bring them back to land at a Florida beach. Source: HLN



ROSALIND BECKTON E

Humility in Working Together



"We are all as angels, with only one wing;

We can only fly when we embrace each other.

-- Luciano de Crescenzo