REDUCING COST AND ENHANCING WELL BEING THROUGH PAYMENT REFORM AND UPSTREAM INVESTMENTS: WHICH PATH, OR BOTH?

Len M. Nichols, Ph.D., George Mason University for CAPH/SNI Annual Conference

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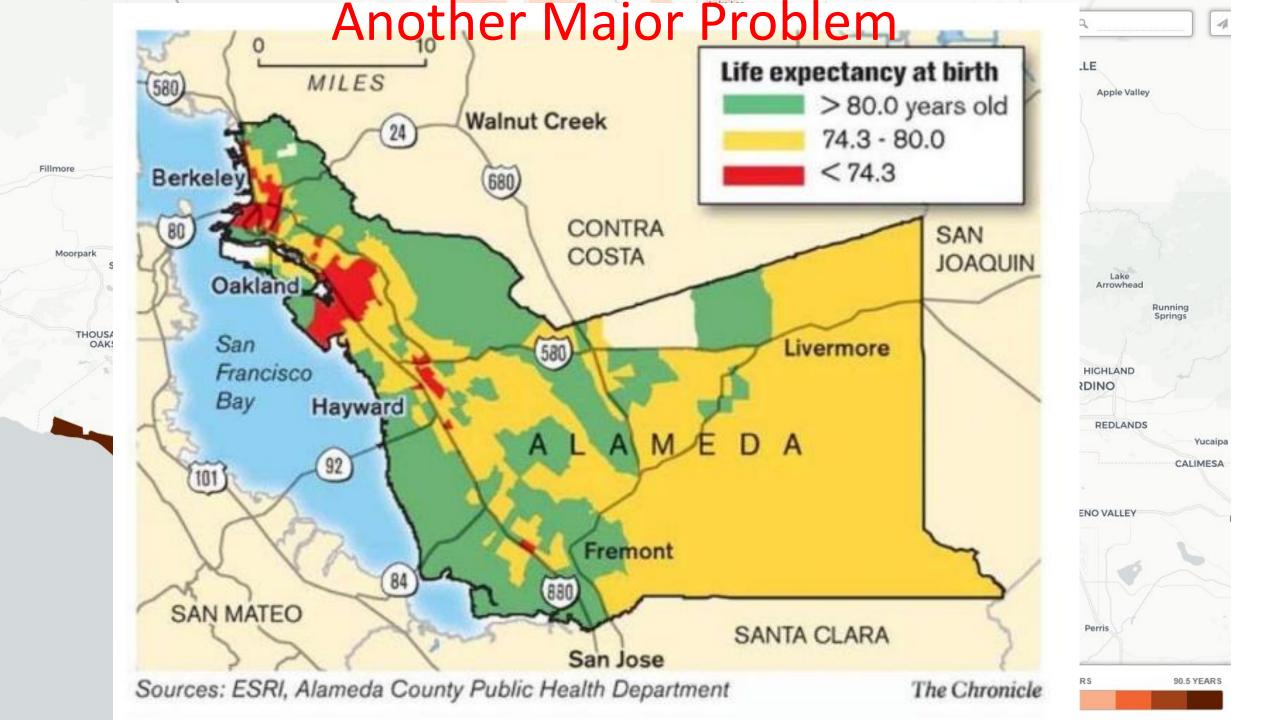
Overview

- Fundamental Problems
- Options
- Results So Far
- Promising Ideas
- Tasks

Federal Debt Held by the Public

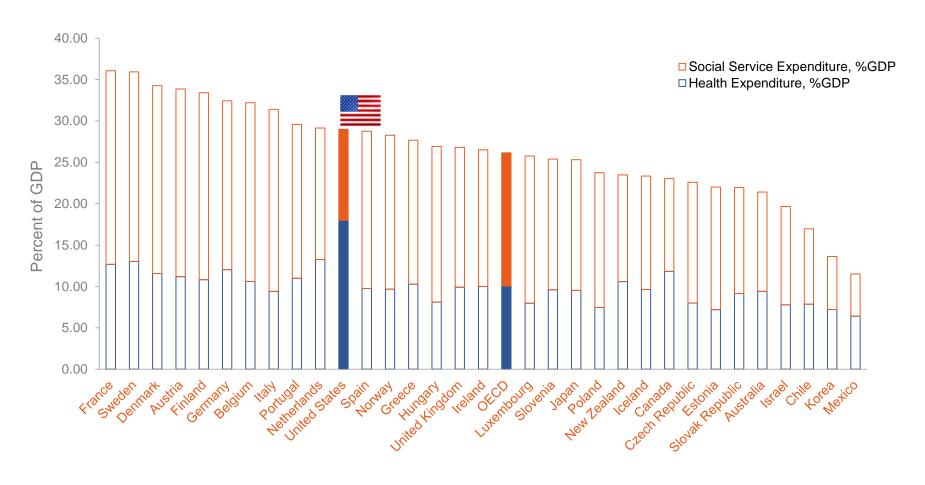


Source: Congressional Budget Office. For details about the sources of data used for past debt held by the public, see Congressional Budget Office, Historical Data on Federal Debt Held by the Public (July 2010), www.cbo.gov/publication/21728.



Total Expenditures as a %GDP

(Slide borrowed from Lauren A. Taylor)



POPULATION HEALTH

DOI: 10.1377/hlthaff.2015.0814 HEALTH AFFAIRS 35, NO. 5 (2016): 760-768 ©2016 Project HOPE— The People-to-People Health Foundation, Inc. By Elizabeth H. Bradley, Maureen Canavan, Erika Rogan, Kristina Talbert-Slagle, Chima Ndumele, Lauren Taylor, and Leslie A. Curry

Variation In Health Outcomes: The Role Of Spending On Social Services, Public Health, And Health Care, 2000-09

EXHIBIT 4

Adjusted associations between the ratio of social to health spending with a one-year lag and health outcomes across the fifty states and the District of Columbia, 2000-09

	Model 1 ^a		Model 2 ^b	
Health outcome	Estimated coefficient ^c	p value	Estimated coefficient ^c	p value
PERCENT OF ADULTS WHO:				
Were obese (body mass index ≥30) Had asthma Reported 14+ days in past 30 days as mentally unhealthy days Reported 14+ days in past 30 days with activity	-0.33 -0.11 -0.43	0.014 0.041 0.007	-0.16 -0.12 -0.24	0.101 0.012 0.035
limitations	-0.37	<0.001	-0.25	0.002
MORTALITY RATE FOR:				
Acute myocardial infarction (per 100,000 population) Lung cancer (per 100,000 population) Type 2 diabetes (per 100,000 population) Postneonatal infants ^d (per 100,000 live births)	-4.02 -2.72 -0.45 -4.15	0.032 0.001 0.004 0.325	-0.64 -2.35 -0.51 -6.56	0.649 0.002 <0.001 0.037

CONSIDERING HEALTH SPENDING

CONSIDERING HEALTH SPENDING

By Irene Papanicolas, Liana R. Woskie, Duncan Orlander, E. John Orav, and Ashish K. Jha

The Relationship Between Health Spending And Social Spending In High-Income Countries: How Does The US Compare?

Fundamental point: you won't necessarily lower health spending by shifting aggregate dollars from health to social purposes

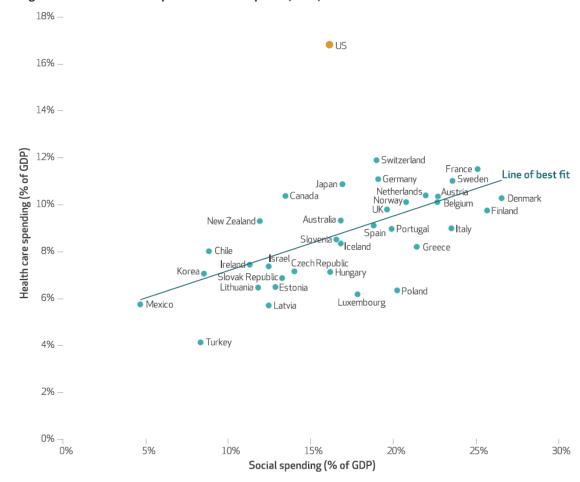
Finally, it is important to note that our findings explore aggregate trends in spending patterns at the national level. These findings should not be interpreted as suggesting that social spending might not be effective at lowering health care costs for subpopulations, such as frail elderly or homeless people. Indeed, other research has shown that investment in specific social interventions can result in a decrease in health spending for a subset of high-need patients, such as chronically homeless people with severe alcohol problems or asthma patients

DOI: 10.1377/hlthaff.2018.05187 HEALTH AFFAIRS 38,

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EXHIBIT 3

Percent of gross domestic product (GDP) devoted to social spending and health care spending in the US and other Organization for Economic Cooperation and Development (OECD) countries

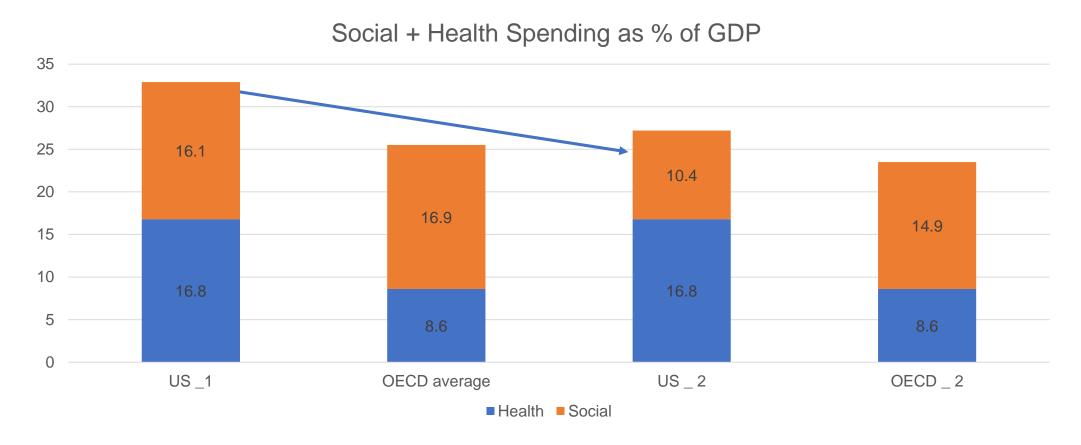


SOURCE Authors' analysis of data from the OECD's Social Expenditure Database (SOCX). **NOTES** Health-related social spending is excluded. Data are from 2015 for all countries apart from Poland. The line of best fit shows that countries that spend more on health tend to spend more on social spending (Pearson's r: = 0.54; p = 0.00).

Some thoughts on Papanicolas et al

- OECD Social Spending data, used by Papanicolas, et al, include private pensions = private social spending
- Growth in private pensions is biggest difference in US social spending since Bradley et al did their work
- For US, private social spending now = 5.7% of GDP
- If you take private social spending out of total social spending, the picture changes

Health and Social Spending as % of GDP, with and without private pensions = private social \$



Maybe what really matters is social spending on social gaps, not aggregate social OR health \$\$\$

- US Poverty rate 17%, OECD 11.2 (8.9 for UK, FR, GR, SW)
 - > 56m US citizens live in poverty, 13m children 17% of kids live in poverty
- US Inequality (Gini = 41.5, avg. for UK, FR, GR, SW = 31.6)
- Homelessness
 - > US has over 500k homeless
 - Would cost approximately \$7-10B annually to house the homeless IF there was space, (but they need supportive housing, which costs more)
- Hunger, in 2017 40m food insecure in US, including 12m kids
- Transportation: 2.3% of pop is challenged, 7.6m in 2019

Figure 1

Social Determinants of Health (Healthy Opportunities)

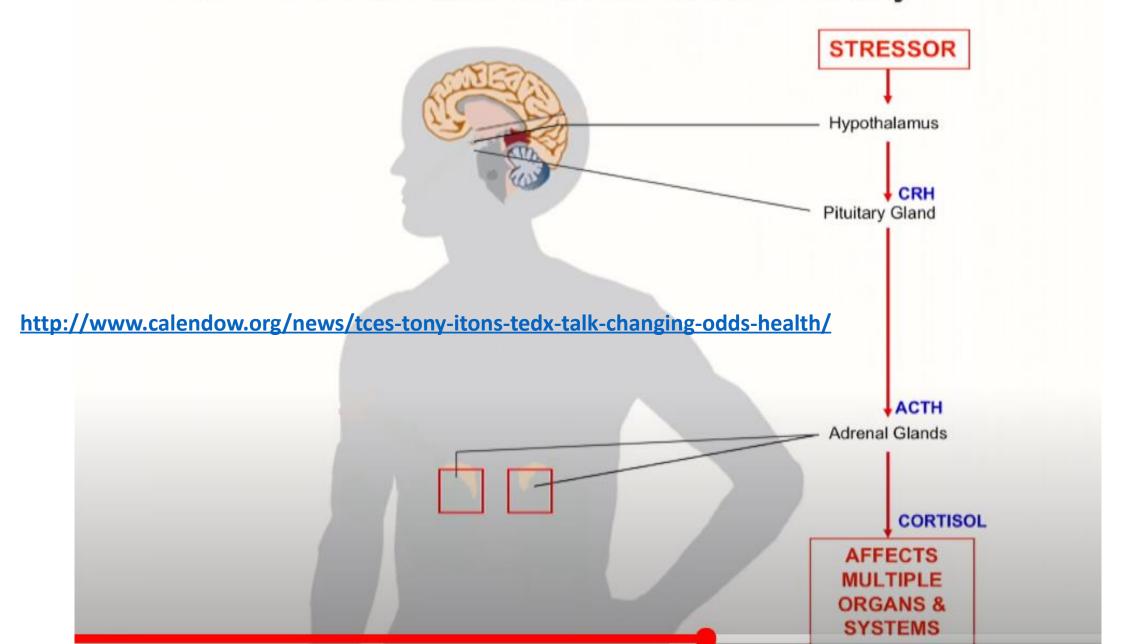
Income Expenses Debt Park Playgr Walkability Higher Income Language Access to healthy Support Provided train Discrimination Integration Support Provided train Discrimination Support Provided train Discrimination Street Street Support Provided train Discrimination Street Street Support Provided train Discrimination Street Stree	Economic Stability	Neighborhood and Physical Environment	Education	Food	Community and Social Context	Health Care System
Expenses Debt Park Park Park Provided train Medical bills Support Provided train Prov				Ū		Health coverage
geography	Expenses Debt Medical bills	Safety Park Playgroude Walkability Zip code /	Early childhood ucati cati train Higher	healthy	Syst Com ity g em t	Provider availability Provider linguistic and cultural competency Quality of care

Health Outcomes

Mortality, Morbidity, Life Expectancy, Health Care Expenditures, Health Status, Functional Limitations



STRESS PATHWAY from brain to body



Options to Deal with Fundamental Problems

- To Reduce Cost
 - > Cut Coverage and Eligibility
 - > Reduce Prices
 - > Re-orient advanced illness care
 - > Eat and drink healthier + exercise
 - > Re-align incentives (VBP etc)
 - Targeted Investments in "Healthy Opportunities" (SDOH)

- To Enhance Well-Being
 - Tax and Spend Enough to Take Care of People thru current delivery mechanisms
 - > Tax and spend more than we do now on social services
 - Find ways to invest in "Healthy Opportunities" COLLABORATIVELY
 - Targeted Investments
 - Enhanced and coordinated services
 - Optimize VBP for health stakeholders and social service providers
 - {Will require some policy changes}

Results So Far: Payment Reform

ACOs

- ➤ MSSP program, N = 548, hit net savings in 2017, 2019 with push to downside risk saved 0.67% of benchmark spending level, MD-led did the best
- > https://www.healthaffairs.org/do/10.1377/hblog20191024.65681/full/
- > Next-Gen, N = 41, savings about 1.9% in 2018
- > Pioneer, N = 8 at the end (2017), saved about 2.2% in last year

Bundled Payments

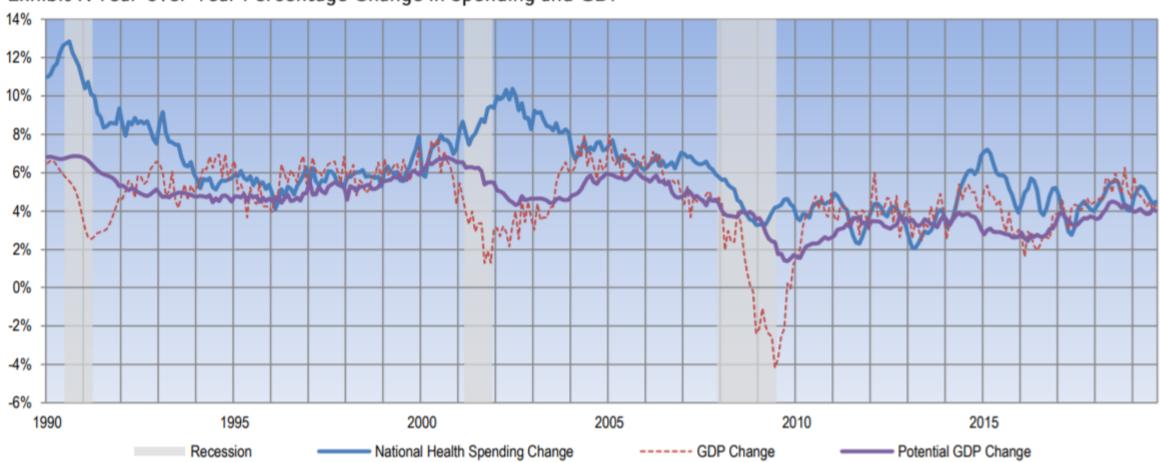
- > Total Joint Replacement saved a bit
- > BPCI did not save money on medical conditions, did save a little in post-acute for surgeries

Primary Care

- > CPCI did not save \$, CPC+ cost Medicare 2-3% in year one (2017)
- > Private sector PCMHs do sometimes save 1-3%

TIME SERIES TRACKER

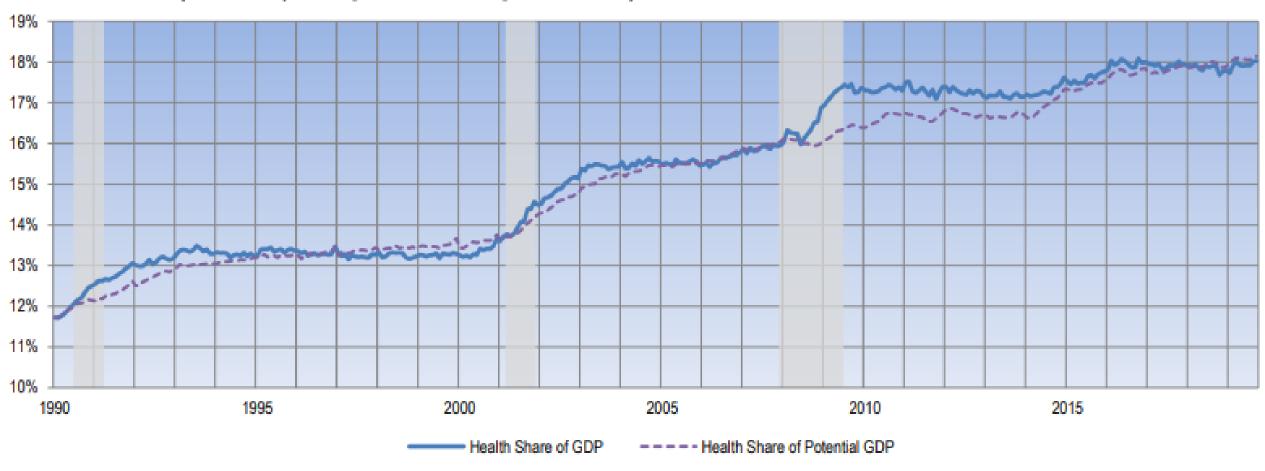
Exhibit 7. Year-over-Year Percentage Change in Spending and GDP



Source: Altarum monthly national health spending estimates. Monthly GDP is from Macroeconomic Advisers and Altarum estimates.

https://altarum.org/publications/october-2019-health-sector-economic-indicators-briefs

Exhibit 8. Monthly Health Spending as a Percentage of Monthly GDP



Source: Altarum monthly national health spending estimates. Monthly GDP is from Macroeconomic Advisers and Altarum estimates. PGDP is from the U.S. Congressional Budget Office and has been converted to monthly estimates.

Note: Lightly shaded bars denote recession periods.



Lessons Learned -> Payment Reform 3.0

- ID which patients on which to focus care coordination/integration
- Hospitals/systems/MD groups see bearing risk (and consolidation) as way to get leverage v. health plans
- BUT, many plans reluctant to share data and risk with providers
- Information systems not ready for prime time
- PTAC tried to get ideas from the field into practice, but has failed
- Trump Admin Hospital Price Transparency Rule => ???
- Focus on price levels, PROMs, and identifying target patients is coming; win-win reductions in "unnecessary" utilization not enough
- Maybe Look "UPSTREAM" to "Healthy Opportunities" ???



Some Promising Ideas

- What if we COMBINED value based payment and a specific upstream focus? (include upstream service in cap rate)
- Need CMS/State Medicaid "permission," (or forgiveness)
- Need to separate opportunities for collaboration from areas of necessary competition
- AND remember, health care can't pay for ALL of what is needed upstream

HUMANA

Is targeting loneliness as A high need indicator

United Health Care

Housing for Chronically Homeless

Centene's Social Bridge

https://www.socialhealth bridge.com/

SOCIAL DETERMINANTS AND SOCIAL NEEDS: MOVING BEYOND MIDSTREAM



Kaiser Permamente's

THRIVE LOCAL

Using *Unite Us* to connect

Social services and EHRs

https://healthitanalytics.c om/news/kaiserpermanente-launches-fullnetwork-socialdeterminants-program

North Carolina's Medicaid 1115 waiver allows

Healthy Opportunity Pilots

Leveraging What Works

- Evidence is strong that upstream interventions can affect health outcomes (from Lauren Taylor, Laura Gottlieb, and others)
 - https://bluecrossmafoundation.org/sites/default/files/download/publication/Social_Equity_Report_Final.pdf
 - https://www.commonwealthfund.org/sites/default/files/2019-07/ROI-EVIDENCE-REVIEW-FINAL-VERSION.pdf
- Specific interventions targeted investments in SDOH, or Healthy Opportunities – may have net financial payoffs
 - Housing First for homeless with SMI, SUD, other CCs
 - Food through WIC, SNAP, Meals on Wheels
 - Complex Case management and navigation for high need adults and children (ex., Nurse Family Partnership, Community Health Workers, etc.)
 - > Non-emergency transportation for people with chronic conditions
 - Not every intervention will save money, may still be "worth doing"

Motivations for Collaborative Approach

- Our nation suffers from underinvestment in upstream SDOH deficits / Healthy Opportunities
- Underinvestment stems from 5 distinct causes
 - People who could benefit have not been able to make their voices heard
 - Leaders of institutions which could benefit financially are often not aware of the evidence on ROI from upstream investments
 - > Health care systems and social service delivery systems are somewhat like Mars and Venus
 - ➤ Governments have restrictions on how money can be <u>blended and braided</u>, and are often constrained from funding novel projects
 - > Upstream investments are "public good" like => "free rider" financing problems

COMMUNITY HEALTH

By Len M. Nichols and Lauren A. Taylor

POLICY INSIGHT

Social Determinants As Public Goods: A New Approach To Financing Key Investments In Healthy Communities

DOI: 10.1377/hlthaff.2018.0039 HEALTH AFFAIRS 37, NO. 8 (2018): 1223-1230 ©2018 Project HOPE— The People-to-People Health Foundation, Inc.

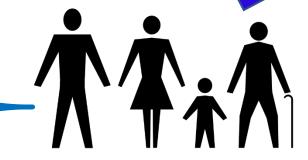
https://www.healthaffairs.org/doi/full/10.1377/hlthaff.2018.0039

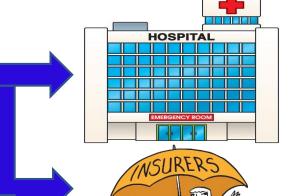
Value Creation from Upstream Interventions



















Fundamental Insights

- SDoH investments have public good-like properties => free rider problems
- Economics profession worked out a functional solution to the free-rider problem in the 1970s, Vickrey-Clarke-Groves (VCG), which works under 2 conditions
 - Operational local stakeholder coalition
 - "Trusted Broker"
- Those conditions are likely to be present in many communities grappling with SDOH/HO deficits today
- Key elements of VCG auction model:
 - Reveal willingness to pay to the trusted broker only
 - If project is economically feasible, it's possible to have all pay less than they are willing to pay, and still collect enough to pay for the intervention
 - Contributions and Sustainability are based on enlightened self-interest

Example of Pricing for Upstream Investments

Cost: \$180 for Complex Case Management by CHWs and Social Workers



= \$200

Value Expressed



Initial Bid: \$110



Initial Bid: \$50



Initial Bid: \$40

Sum of Bids (Collective Valuation) = \$110 + \$50 + 40 = \$200

But We only Need \$180 to Cover the Cost

We need 90% (180/200) of Total We can allow 10% "Discount" or ROI to All Bidders

Prices Assigned



Price Charged: \$99 (\$11 less than Bid)



Price Charged: \$45 (\$5 less than bid)

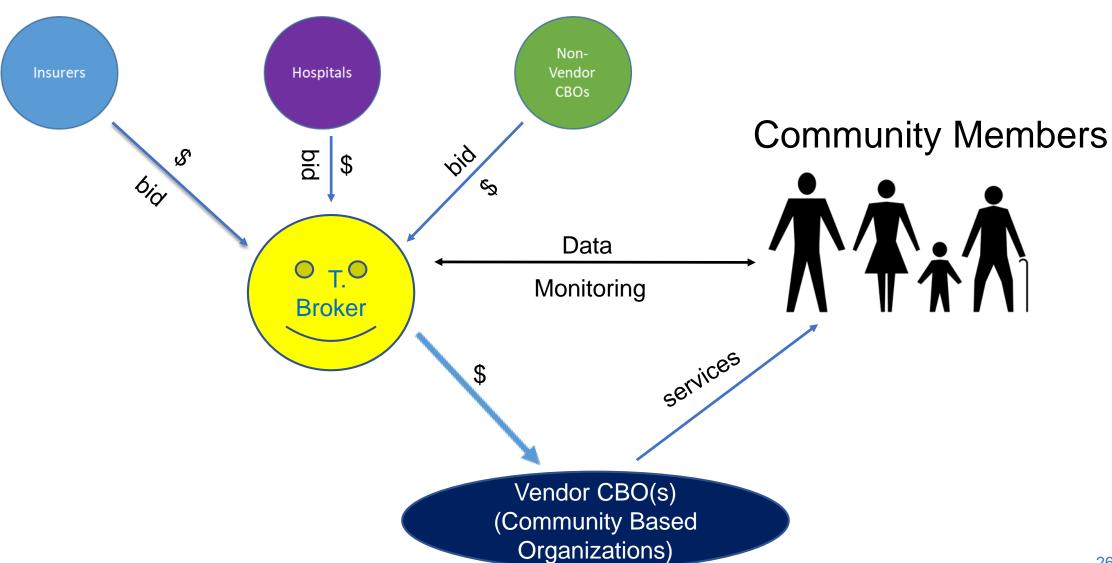


Price Charged: \$36 (\$4 less than bid)

= \$180

Total Collected = \$180 = Cost of Intervention = \$180, but *VALUE delivered = \$200*

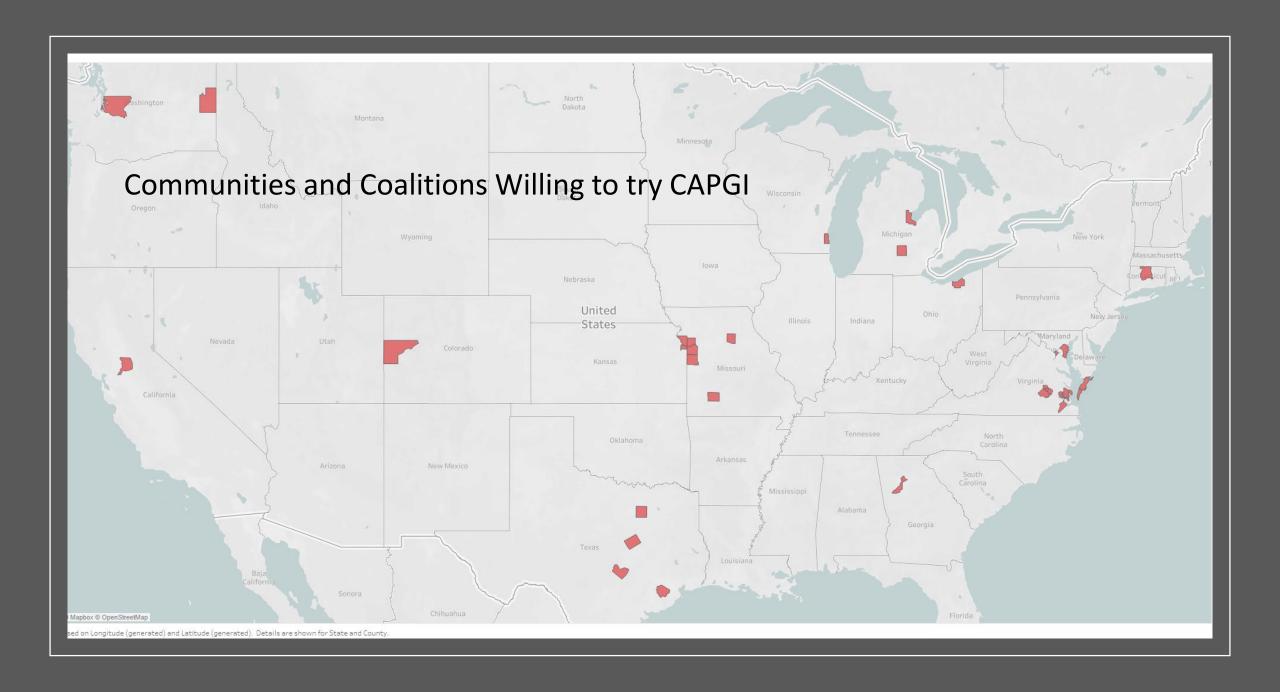
CAPGI Roles





Teaching the Model and Processes





Next Steps

- We're devising a continuum of support activities for each of 3 classes of coalitions/sites
 - ➤ Those that appear "shovel ready" (10)
 - > Those that need to add one structural element (4)
 - > Those that need more than element or time for their coalitions to mature (8)
- Site visits will occur in late 2019/early 2020
- In Winter-Spring of 2020 we will help write proposals for TA funding to implement and evaluate the model
- Virtual+ support will be provided at least until the end of Feasibility Study period (May 2020)
- We hope to begin implementation in mid-2020, bring coalitions on line through 2021, wrap up final evaluations in 2024

Other Approaches to Upstream Investment besides CAPGI

- Pay for Success
 - Private capital bears risk, takes home some return, could jump start project where local resources limited
- Whole Person Care, NC Healthy Opportunities Pilots
 - > Very much right idea, great ways to start
- CalAIM
 - > Appears to be attempt to achieve upstream goals by coupling flexibility and \$ with requirements on plans, both God and the Devil are in the details to be worked out
- CMMI's Accountable Health Communities
- CACHIs and Wellness Funds

Challenges and Tasks for us all

- Can sufficient trust, and willingness to share the surplus/ROI, be nurtured, enhanced, and channeled into collaborative efforts?
- Can we define precisely enough what health care should and should not pay for upsteam?
- Will CMS/State Medicaid agencies let Medicaid MCOs and MA plans, and FFS Medicare, spend \$ upstream to the extent that they may come to want to?
 - > For MCOs: in lieu of, value added, explicit VBP requirements, link profit rate increase with upstream investment requirement
 - > For MA plans: let upstream spending count in bids/MLR/benchmarks
- Will state Medicaid agencies sabotage efforts by cutting PMPM instead of sharing savings with MCOs and providers?
- Will MCOs and MA plans share savings with providers to make them whole if necessary?
- Will CFOs believe the intervention literature applies to their people/data?
- Will people believe they can and should work collaboratively, again? (The world is not zero sum !!!)

