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- I. Background framing
 - A. Two polarities / tensions
 - 2. Polarity #2

Disease treatment vs Health



If "aim defines the system," what is the aim of health care delivery?

What is the "product or service" that patients seek when they come into a health care delivery setting?



The job to be done in health care delivery

1. Caring always

(heal the spirit; reduce suffering)

2. Curing when possible

(heal the body / mind)

3. Rescue – we did everything possible



#1: Caring

A man stricken with disease today is assaulted by the same fears and finds himself searching for the same helping hand as his ancestors did five or ten thousand years ago. He has been told about the clever tools of modern medicine and somewhat vaguely, he expects that by-and-by he will profit by them, but in his hour of trial his desperate want is for someone who is personally committed to him, who has taken up his cause, and who is willing to go to trouble for him.

D. Emerick Szilagyi, MD: In Defense of the Art of Medicine, 1965 (with thanks to Dr. Steven Kappes, Milwaukee, WI)



The caring professions

The clinician as

- a trusted advisor
- a wise counsellor;

Based on the clinician-patient relationship;

Help relieve mental suffering -

mental discomfort: pain, anxiety; knowledge about what happens next



#2: Curing

Help with and treatment for

specific clinical problems or conditions,

expressed as

mental and physical function (up to and including death)

A continuum:

- from acute self-limited (minor) problems (e.g., a cold)
- to outpatient / same day procedures (including imaging)
- to chronic diseases
- to acute life-threatening problems (e.g., major trauma)



#3: Rule of Rescue (rapid response to critical need)

Jonsen AR, 1986: The imperative people feel to rescue identifiable individuals facing (avoidable?) suffering or death.*

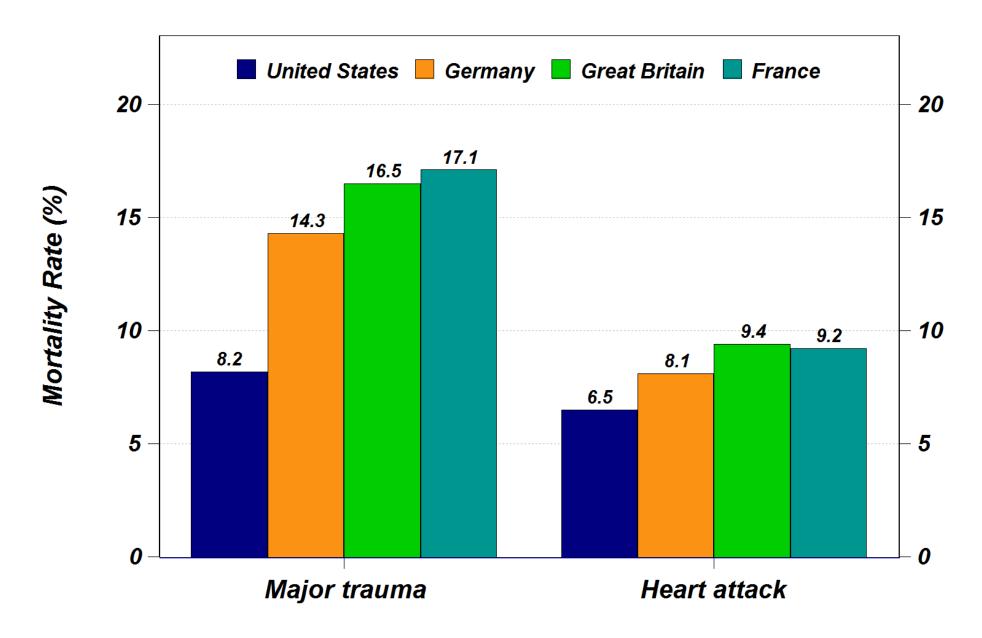
- subconscious personal identification at an emotional level;
- a <u>person</u> instead of 'just a number'; a name and a face
 - > The child down the well
 - Whales trapped in the Arctic ice
 - > The dog on the abandoned boat
 - > "60 Minutes" program on pertussis vaccination
- People respond to stories, not tables of numbers:
 - "A single death is a tragedy, a million deaths is a statistic."

Joseph Stalin (who killed more than 17 million of his own Russian people)

^{*} McKie J & Richardson J. The rule of rescue. *Soc Sci Med* 2003; 56(12):2407-19 (June). Richardson J & McKie J. *Working Paper 112: The Rule of Rescue*. West Heidelberg, Victoria, Australia: The Centre for Health Program Evaluation; 2000.



System performance, by nation



Source: OECD, 2003



Patients primarily seek

Peace of mind

that they are doing the best they can with the hand that they've been dealt ...

Likelihood to recommend ("top box" response) depends upon:

- 1. Confidence in clinicians (good people, top of field)
- 2. How well the clinical team works together (consistent messages, mutual respect)
- 3. Clinicians (in order)
 - (a) show concern for worries
 - (b) listen carefully
 - (c) demonstrate high courtesy and respect to patient and family



The job to be done in health care delivery

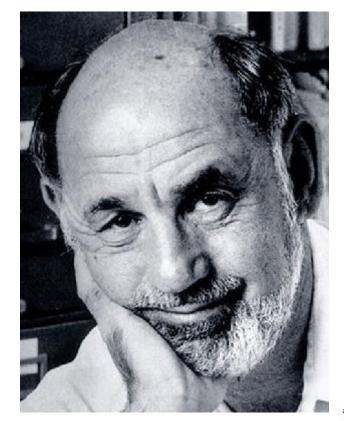
Disease treatment –

reduce pain & discomfort; restore function

for specific conditions that a patient directly experiences.



Aaron Wildavsky



AARON WILDAVSKY

Doing Better and Feeling Worse: The Political Pathology of Health Policy

According to the Great Equation, Medical Care equals Health. But the Great Equation is wrong. More available medical care equals reastn. But the Great corington are that the medical care does not equal better health. The best Equation is wrong. More available medical care does not equal netter nealth. The nest care of the medical system (doctors, drugs, hospitals) affects about 10 per measuring health, whether was line at all findant cent of the usual indices for measuring health: whether you live at all (infant to circline) how long you live (dayle lost does to circline) how long you live (dayle lost does to circline) how long you live (dayle lost does to circline) how long you live (dayle lost does lost does lost lost long you live (dayle lost) how long you live (dayle lost) mortality), how well you live (days lost due to sickness), how long you live at all furant are determined by fastore over which doctare mortality), how wen you live (days lost due to sickness), now long you live (adult have little or no control from individual life style (emoking evercise worry), to social mortality). The remaining 90 per cent are determined by factors over which doctors over w conditions (income, cating habits, physiological inheritance), to the physical environment (air and water quality). Most of the bad things that happen to people are at

Everyone knows that doctors do help. They can mend broken bones, stop Everyone knows that doctors do nelp. They can mend broken oones, stop infections with drugs, operate successfully on swollen appendices. Innoculations, the analysis of the property of the pr internal infections, and external repairs are other good reasons for keeping doctors, and some of the came however is constant doctors. drugs, and hospitals around. More of the same, however, is counterproductive. drugs, and hospitals around. More of the same, nowever, is counterproductive.

Nobody needs unnecessary operations; and excessive use of drugs can create dependent of the nation's prine. dence or allergic reactions or merely enrich the nation's urine.

More money alone, then, cannot cure old complaints. In the absence of medical knowledge gained through new research, or of administrative knowledge to convert knowledge gained through new research, or of administrative knowledge to convert marking if more monative noticed on it. No one is causing that medicine, it will not burn brighter if more money is poured on it. No one is saying that medicine is Bood for nothing, only that it is not good for everything. Thus the marginal value of good for nothing, only that it is not good for everything. I has the marginal value of hoolist. And for number of mildle notices is in not the half. Of numbering markets. health. And, for purposes of public policy, it is not the bulk of present medical content of purposes of public policy. The proposed former conditions which do have value here the public policy is not the bulk of present medical content of the public policy. expenditures, which do have value, but the proposed future spending, which is of

When people are polled, they are liable, depending on what they are asked, to say that they are getting good care but that there is a crisis in the medical-care system. Three-quarters to four-fifths of the population, depending on the survey, are satisfied A nree-quarters to four-nitus of the population, depending on the survey, are satisfied that their doctors and the care they give; but one-third to two-thirds think the system. that produces these results is in bad shape. Opinions about the family doctor, of course, are formed from personal experience. "The system," on the other hand, is an abstract entity—and here people may well imitate the attitudes of those interested an aostract entity—and here people may well imitate the attitudes or those interested and vocal elites who insist the system is in crisis. People do, however, have specific the rich don't like traiting the poor don't and vocal elites who insist the system is in crisis. People do, however, have specing like kinds arrives and those in the middle don't like waiting, the poor don't representation in the middle don't like waiting, the poor don't like waiting the poor don' complaints related to their class position. The rich don't like waiting, the poor don't like both. Everyone would like easier



The Great Equation:

Health = medical care = "access to care" = health insurance

"But the Great Equation is wrong ..."



Disease treatment

shows a relatively weak association with

health ...

how long and how well someone lives

(usually measured as life expectancy)



Actual Causes of Death in the United States 3. Michael McGinnis, MD, MPP, William H. Foege, MD, MPH

Objective -- To identify and quantify the major external (nongenetic) factors the contributes to death in this livered science. CONTROURS to dearn in the United States.

Data Sources — Articles published between 1977 and 1993 were identify

Data Sources — Articles published between 1977 and 1993 were identified for the state of the state o Data Sources.—Articles published between 1977 and 1993 were identifications of through MEDLINE searches, reference citations, and expert consultation. Goy through MEDLINE searches, reference citations, and surveillance data were also ment reports and compilations of vital statistics and surveillance data were also the search of the sear contribute to death in the United States.

Study Selection.—Sources selected were those that were often cited are study selection.—Sources selected were those that were often cited and the selection of the control of the control

Study Selection.—Sources selected were those that were often cited at that indicated a quantitative assessment of the relative contributions of variety in mortality and morbidity. Data Extraction.—Data used were those for which specific methodoly uras municipus a quantitative ase tors to mortality and morbidity.

Data Extraction.—Data used were those for which specific methodo; unpolicing were stated. A table quantifying the contributions of leading the contributions are stated extractions and call contributions are stated extractions are contributed union actual extract enemerally account of the contributions are contributed in the contributions of the contribution of the contributions of the contributions of the contribution sumptions were stated. A table quantifying the contributions of leading to constructed using actual counts, generally accepted estimates, and calculate the contribution of the country of constructed using actual counts, generally accepted ostimates, and ca timates that were developed by summing various individual estimates ing to avoid double counting. For the factors of greatest complexity and clief and activity catterns and trivic anents. I a conservative anencer's clief and activity catterns and trivic anents. ing to avoid double counting. For the factors of gleafest complexity a did and activity patterns and toxic agents), a conservative approach did and activity patterns and toxic agents), a conservative approach to the control of the carriers and toxic agents. (diet and activity patterns and toxic agents), a conservative choosing the lower boundaries of the various estimates.

Data Synthesis.—The most prominent contributors to mortalify Data Synthesis.—The most prominent contributors to mortally States in 1990 were tobacco (an estimated 400 000 deaths), diel states in 1990 were tobacco (an estimated 400 000 deaths), toxin terms (300 000), already (100 000), microbial agents (95 000), sexual behavior (30 000), motor vehioles (25 of freeming (55 000), sexual behavior (30 000), motor vehioles (15 of freeming (50 000), socioconomic status and access to medical freeming (30 000), socioconomic status and access to the freeming (30 000), socioconomic status and access to the freeming (30 000), socioconomic status and access to the freeming (30 000), socioconomic status and access to the freeming (30 000), socioconomic status and access to the freeming (30 000), socioconomic status and access to the freeming (30 000), porrant communors, but amount to quantity independent of the Because the studies reviewed used different approaches to) because the studies reviewed used different approximations, stated numbers should be viewed as first approximations.

Conclusions - Approximately half of all deaths that ooch Conclusions.—Approximately half of all deaths that occi-attributed to the factors identified. Although no attempt was the impart of these factors on morbidate and according to attributed to the factors identified, Amough no attempt Was impact of these factors on morbidity and quality of the temperature of these factors on morbidity and quality of the temperature of the second of me impact at these factors on morbidity and quality of life, they impose is considerable and offers guidance for shaping they impose is considerable and offers guidance for shaping they impose is considerable.

IN 1990, approximately 2 148 000 US residents field. Certificates filed at the residents find a factor for their Academic for the first form of the first fo These con combinati residents died. Ceruncates liten at hie time of death indicate that their deaths were most commonly due to heart disand extern were most commonly one to neart dis-ease (720 000), cancer (505 000), cerc-Becau ease (/20 uvu), cancer (305 uvu), cere-brovascular disease (144 000), accidents multifa (92 000), chronic obstructive pulmonary is sort (92 000), chronic obstructive putmonary disease (87 000), prietimonia and influence (88 000), disbetes mellius (48 000), disbetes 2256 eriza (80 uuu), chanic liver disease and suicide (31 000), chronic liver disease and smerde (31 000), ettronic liver disease and cirrhosis (26 000), and human immuno-deficiency virus (HIV) infection (25 000) deficiency virus (HIV) intection (25 000)' Often referenced as the 10 leading causes of death in the United States, they gen or nearn in the Outrot autros ways

AMA, November 10, 1993—Vol 270, (

Contributions of Health Care to Longevity: A Review of 4 Estimation Methods

Robert M. Kaplan, PbD Arnold Milstein, MD, MPH

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ABSTRACT

PURPOSE Health care expenditures and biomedical research funding are often justified by the belief that modern health care powerfully improves life expecpositive of the benefit that movem throughout and powering improves the exper-tancy in wealthy countries. We examined 4 different methods of estimating the

METHODS We reviewed the contributions of medical care to health outcomes me trous we reviewed the communions of meantal care to neutro outcomes using 4 methods; (1) analyses by McGimis and Schroeder, (2) Wernberg and using a mentions. (1) unaryses by arcaleurs and active costs, (2) area and colleagues, studies of small area variation, (3) Park and colleagues, analysis of concupues moures or small area variation, (2) Fork and conseques amore a county Health Rankings and Roadinaps, and (4) the RAND Health Insurance

RESULTS The 4 methods, using different data sets, produced estimates ranging results (see 4 memors, using uniform usits sets produced enumers damping from 0% to 17% of premature mortality attributable to deficiencies in health care access or delivery. Estimates of the effect of behavioral factors ranged from

CONCLUSIONS The results converge to suggest that restricted access to medical care accounts for about 10% of premature death or other undesirable health cate accounts for about 1029 or premature death or other ordermance deaths outcomes, Health care has modest effects on the extension of US life expectancy. while behavioral and social determinants may have larger effects.

Ann Fani Med 2019;17:267-272. https://doi.org/10.13/0/a/m.2362.

INTRODUCTION

 Γ is often argued that improvements in population health, 12 and life expectancy in particular, are best purered via investments in medical Services. Over the last few decades evidence has accumulated, showing that more powerful determinants of health and life expectancy lie elsethat more powerful determinants of freatht and the eapersancy in con-where. Making high-yield investments to extend life expectancy requires an understanding of the relative contributions of health care and other

It is estimated that a lack of access to medical care accounts for only about 10% of premature deaths. The methodology underlying these estimates, however, remains obscure. In this article we review 4 different estimates of the contributions of health care to premature mortality and METHODS

Conflicts of interest; authors report none

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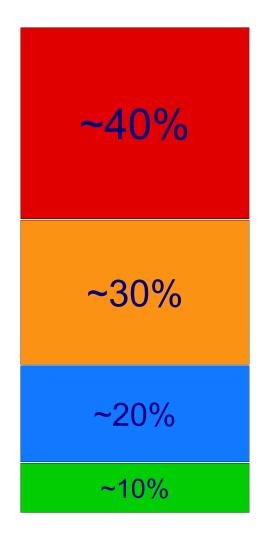
Using Coogle Scholar, we searched for articles about the relationship between medical care and life expectancy. In addition, we considered reports from the National Academy of Medicine, that reviewed estimates of the contributions of health care to health outcomes. Two articles with high citation rates were identified. McGinnis and Forges has been cited nearly 4,000 times, and their estimates were updated in 2004. And a report by Schroeders that built on their method, has been cited over 800 times. We reviewed articles that cited these 2 milestone works to identify other attempts to produce similar estimates that had achieved high citation rates.

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Health: How long, how well we live



Behavior:

Tobacco

Obesity (diet and exercise)

Ethanol (and other recreational drugs)

Sexually-transmitted disease (AIDS)

Unwed pregnancy (weak support network)

Suicide, violence, & accidents (young men)

Genetics

Physical environment, social environment, public health (control of epidemic infectious disease through immunization & sanitation)

Health care delivery (hospitals and clinics)

McGinnis JM & Foege WH. Actual causes of death in the United States. *JAMA* 1993; 270(18):2207-12 (Nov 10). McGinnis JM, Williams-Russo P, & Knickman JR. The case for more active policy attention to health promotion. *Health Affairs* 2002; 21(2):78-93 (Mar).

Kaplan RM & Milstein A. Contributions of health care to longevity: A review of 4 estimation methods. Ann Fam Med 2019; 17(3):267-72 (May/June).



NRC evidence review

- Compared 22 high-income countries
- Differences in life expectancy dominated by what happens after 50 years of age
- IHD and cancer U.S. does better than other countries

Smoking = 78% of survival gap for women, 41% for men Obesity = 20-33% of survival gap in general Social networks = questionable relationship, evidence not clear

... these contextual factors are not randomly distributed in the population; rather, they are more likely to affect the health of people of lower social status and those who are less likely to have lifetime access to health care.

It is clear ... that failures to prevent unhealthy behaviors are costing Americans years of life compared with their counterparts in other wealthy countries.

National Research Council Panel on Understanding Divergent Trends in Longevity in High-Income Countries. *Explaining Divergent Levels of Longevity in High-Income Countries*, Crimmins EM, Preston EH, and Cohen B, editors. Washington, DC: National Academy Press, 2011.



Disease treatment vs health

- > Traditional "Population Health"

 means "total health" (expressed as life expectancy).
- ➤ Disease treatment focuses on (a) caring, (b) curing, and (c) rescue the things patients actively seek when they approach the health care delivery system (and are willing to pay for).
- > Both are legitimate goals.