

HealthePeople®

**Achieving Healthy People, Communities,
Countries and World via Thrive!®**

Ideal Thriving Health System® – Achieving health and
well-being for people, communities, countries and world



by

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DEDICATION

*People who help build, achieve
and sustain a healthy and thriving
future for all forever.*

About the Author

Gary (Chris) Christopherson continues to work countrywide and locally on improving health, reducing vulnerability and building a surviving and thriving future. Currently, he develops strategy, management, and policy for creating, managing and sustaining large positive change and building a better, thriving future for all forever

Thrive![®] and **HealthePeople**[®] draw on his 30+ years' experience creating, managing and sustaining large positive change at country and local levels in public and private sectors. He founded **Thrive!** (building a thriving future) and **HealthePeople** (building a healthy future). ThrivingFuture.org; HealthePeople.com). He served as a senior leader, manager and policymaker responsible for multi-billion-dollar policy, programs and budgets and thousands of employees. His public service includes: Principal Deputy Assistant Secretary and Acting Assistant Secretary of Defense for Health Affairs and Senior Advisor, Department of Defense; Associate Director, Presidential Personnel, Executive Office of the President, White House; Senior Fellow, National Academy of Public Administration; Senior Advisor to Chief Operating Officer and Deputy Director for the Quality Improvement Group, Centers for Medicare and Medicaid Services, DHHS; Senior Advisor to Under Secretary, Veterans Health Administration, VA; Senior Fellow, Institute of Medicine, National Academy of Sciences; Chief Information Officer, Veterans Health Administration, VA; Director of Health Legislation, House Select Committee on Aging, U.S. House of Representatives.

He wrote several public policy and administration books, including **HealthePeople**[®] - **Achieving Healthy People, Communities, Countries and World, First People Thriving Health Systems – Achieving Healthy and Thriving First People, Thrive!** - **Building a Thriving Future, Thrive!** - **People's Guide to a Thriving Future, The Thrive! Philosophy, Behavior Effectiveness Model, Thrive!** – **All Thrive Forever**, and **Thrive! Endeavor**. Available Amazon.com and ThrivingFuture.org.

He is a sculptor of abstract art, focusing on Thrive! sculptures and creating over 150 sculptures. GChris Sculpture at GChris.com.

He wrote several books. **Thrive Sculpture and Thought** highlights Thrive! sculptures and messages each communicates. Science-fiction books include **Xtinct - Universal Justice for Earth, Thrive!** - **Escape from Extinction, Xtinct – Failure to Thrive, black box and The Thrive! Endeavor**. Children's fiction books entitled **Thrive or Not to Thrive?** – **Tale of Two Tomorrows, Angel – Thriving Creator of Artful Things** and **T!rrific (terrific) -What will you do to thrive?** Available Amazon.com and GChris.com.

He received his bachelor's in political science and his master's in urban and regional planning from the University of Wisconsin (Madison), and did doctoral work in health policy and management at John Hopkins University School of Public Health.

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Summary

HealthePeople® - Achieving Healthy People, Communities, Countries and World via Thrive!

Ideal Thriving Health System® – Achieving health and well-being for people, communities, countries and world

Rationale. Throughout the world, including America, we face major challenges and disappointments in achieving healthy people, communities, countries, and world. Health status, causes of good and poor health, personal health behavior, and person-centered health systems for improving health vary widely within communities and countries and across the world. Without a large change in health vision, strategy and execution, our future will be as disappointing as our past.

Vision and Strategy. *Thrive!*® is the overall vision, mission and strategy for achieving and sustaining a thriving future for all. Within that future, **HealthePeople**® is the vision, mission, and strategy for achieving and sustaining a healthy future for all. HealthePeople is a strategy whose near-term vision is to achieve substantially healthier people and substantially healthier communities, countries, and world. The long-term vision is to achieve healthy, thriving people globally and healthy, thriving communities, countries and world.

This HealthePeople strategy was created with the belief that we can reach this vision via a strategy of high performance thriving, health systems for all people that are self-perpetuating, affordable, accessible, “e” enabled, person-centered, prevention-oriented, and producing high health quality, outcomes and status. Such systems, partly physical and partly virtual, matched to community, country and global needs and conditions, and put into place by collaborative private and public partnerships, will greatly improve accessibility, quality, affordability, and health status for all people. Such systems can help achieve a healthy, thriving people, community, country, and world.

Guidance. This strategy is guided by and aligned with the U.S. Institute of Medicine (IOM) recommendations. IOM has six aims for a high performing health system - safe, effective, person/patient-centered, timely, efficient, and equitable. People want even more. What people want from a high performing thriving health and long-term care system is “staying healthy”, “getting better”, “living well with illness or disability” and/or “coping well with the end of life.”

Supportive Strategies. Using HealthePeople strategies and models, we can positively transform health systems and achieve healthier people and a healthier world by successfully applying 15 key strategies and two core elements:

- Achieve affordable, accessible, and high quality/performance health systems.
- Focus on people, in partnership with their health partners, as the center of the health universe.

HealthePeople Strategy Before, During and After Pandemics.

HealthePeople’s primary focus is on people getting and being healthy. And it understands and takes on challenges posed by human pandemics. COVID-19 is just the latest and one of the most challenging.

HealthePeople, as should current health system(s), will succeed by successfully addressing human pandemics simultaneously with achieving and maintaining healthy persons, communities, countries, and world.

Building and Achieving a Healthy Future and Healthy People. This book - HealthePeople® - focuses on why and how to build, achieve and sustain a successful health system, healthy people and a and a healthy future. To achieve this, the book describes, speaks to the importance of, and walks through how to use ideal health systems, healthy behavior and person-centered health. With these and using HealthePeople as a vision, mission and strategy, the book describes how to build, achieve, and sustain healthy communities, countries and world.

Thriving Health Systems. To show what an ideal health system might be for people and their communities, the Thriving Health Systems (THS) model and strategy are detailed. Why THS are different and make a substantial positive difference. How THS are organized. How THS help achieve healthy people and communities. A First People Thriving Health System is offered as one example.

Building and Achieving a Healthy and Thriving Future. We should proceed under the belief that we can reach this vision of a healthy and thriving future. Utilizing HealthePeople and *Thrive!* as strategies, we can build a substantially healthier world and move toward healthy people and a truly healthy and thriving future. People, whoever they are, wherever they live and whatever their status, deserve and should expect nothing less.



Chapter 1. HealthePeople® - Building, Achieving and Sustaining a Successful Health System and Healthy Future

Ideal Health Systems – How to Build, Achieve and Sustain Successful Health System and a Healthy Future¹

Why we (people, community, country, world) can and must have a successful health system and a healthy future.

We (people, community, country, world) can have a successful health system and a healthy future. To build a better future, the HealthePeople strategy and tools have been used successfully at the personal level and on larger scales (community, country). As they have in the past, this strategy and these tools can help us build, achieve, and sustain a healthy future.²

We must have a healthy future. We must do better whether that future appears bad or good. Why? Even if somewhat healthy today, we are not fully healthy, are not likely to be fully healthy in the future, and are still facing uncertainties about the long-term future. We want and need a healthy future.

¹ This HealthePeople approach can be applied at any level – person, community (geographic and/or group), country and/or world. The primary difference is scale.

² This HealthePeople approach to building, achieving and sustaining a healthy future parallels the broader *Thrive!* approach to building a surviving and thriving future. ***Thrive! - People's Guide to a Thriving Future*** available via Amazon.com or ThriveEndeavor.org.

Why we must and can do it together.

To build this healthy future, we as people and leaders should be partners in this endeavor from the beginning and through each step. Success is dependent on positive and effective leadership from us as leaders and people. How that leadership comes about is the subject of some debate. Some people argue for a leader driven approach where the leader creates the vision and motivation and the people join and/or follow. Some argue for bottom-up or self-organizing approaches where the people lead and the traditional leaders may or may not join and/or follow. Some argue for a collaborative approach where the traditional leaders and the people (also serving as leaders) jointly provide leadership, vision, motivation, strategy and successful execution. In general, the latter approach probably has the greater potential to create and sustain large, positive change and a healthy community, country, and world.

Key to success is the strong desire by us to move our current poor health to a healthy future.

How to build, achieve, and sustain a successful health system and a healthy community, country and world.

To build a healthy future, HealthePeople can be helpful as laid out in the following “how-to”, a relatively basic “how-to”. The underlying principles and the strategy, models and tools apply to communities from small size and low complexity to very large size and very high complexity (large communities, countries, world).

Step 1. Assess our current state.

The first major step is to understand our current health.

Who is “us”? First go through who we are today. We can be defined by geography (for example, a neighborhood, a region), by political boundaries (for example, a village, town, city, county, state), or by common population characteristics (e.g. racial/ethnic, gender, economics, political view, similar mission, religion, labor, profession, business). It can be a combination of these.

What are our characteristics? Our gender, age, racial, ethnic make-up. Lifestyle. Type of work. Financial situation. Food and drink. Housing. Protection (crime, environmental hazards). Education. Physical and mental

health. Personal growth and development. Habitat (living environment, neighboring communities, part of what state, country, continent). Producing what. Climate. Sustainability.

How healthy are we? How well are we? In terms of performing well? Being well-off (financially)? Being well nourished (food and drink)? Being well housed? Being well protected (exposures, crime)? Being well educated? Being physically and mentally well? Personally growing/developing well? Living within good habitat? Not being vulnerable? Producing personal and public goods? Living within a stable, positive climate? Being sustained?

Answering “yes” to all indicates being currently healthy. Though all “yes” answers would be very good, it is also unlikely. Even with all “yes”, there would still be future work to make sure this continues. “No” answers are bad and mean there is current and future work to be done.

What positively or negatively impacts our health? What positively or negatively impacts or is likely to impact our health? What impacts our performing well? Being well-off (financially)? Being well nourished (food and drink)? Being well housed? Being well protected (exposures, crime)? Being well educated? Being physically and mentally well? Personally growing/developing well? Living within good habitat? Not being vulnerable? Producing personal and public goods? Living within a stable, positive climate? Being sustained?

Positive impacts improve and/or sustain health. If they will continue, we probably can focus on other things. If they may or may not continue, action is needed to make them continue and/or to develop other things to compensate. Bad impacts prevent or limit health. If they will not continue, we probably can focus on other things. If they may or may not continue, action is needed to stop them or to avoid or minimize their impact.

This includes the health system we currently have. We need to assess to what extent the current health system contributes to our being healthy and to our having a healthy community, country, and world.

What is our near and long-term future behavior? How are we likely to behave in the near and long-term future? For example, will we behave (individual behavior; group behavior, overall community, country, and world behavior) so as to protect and improve health support, help each

other be healthy, maintain/improve our environment, and sustain our health near and long term.³

How will we behave with respect to performing well? Being well-off (financially). Being well nourished (food and drink)? Being well housed? Being well protected (exposures, crime)? Being well educated? Being physically and mentally well? Personally growing/developing well? Living within good habitat? Not being vulnerable? Producing personal and public goods? Living within a stable, positive climate? Being sustained?

Step 2. Strategy to achieve a healthy future.

The next major step is to develop the strategy that will help us build and achieve a successful health system and a healthy future.

How healthy should we be in the near and long-term future? How healthy should we as a whole be in the future? We should be healthy. With this as a guide, we choose the healthy future we want to build and achieve. HealthePeople will help us accomplish that.

Describe how healthy we should be. From our view and to be healthy, indicate to what extent we should be performing well. Be well-off (financially). Be well nourished (food and drink). Be well housed. Be well protected (exposures, crime). Be well educated. Be physically and mentally well. Be personally growing/developing well. Be living within good habitat. Not be vulnerable. Be producing personal and public goods. Be living within a stable, positive climate. Be sustained. Again, we should be healthy.

What must change externally and internally to achieve our healthy future? What must change externally (outside us) and internally (within us) to progress from our current status to achieve the desired future healthy status? Describe all that must change externally and internally for the following. To achieve performing well? Being well-off (financially)? Being well nourished (food and drink)? Being well housed? Being well protected (exposures, crime)? Being well educated? Being physically and

³ Health Support – May include physicians, nurses, dentists, optometrists, pharmacists, clinics, urgent care, emergency departments, hospitals, rehabilitation facilities, home care, nursing homes, assisted living, alternative health/medicine, and others.

mentally well? Personally growing/developing well? Living within good habitat? Not being vulnerable? Producing personal and public goods? Living within a stable, positive climate? Being sustained?

Good changes improve and/or sustain health. Bad changes prevent and/or limit health.

This is where we assess our current health system and what must change to achieve healthy people and a healthy community, country and world.

What actions by us are needed to achieve a healthy future? What internal actions (by us) and external actions (by others) are needed to bring about the needed external and internal changes that improve the community, country, and world's current status enough to achieve the desired health status? (See Figure 1.1. "Achieving a Healthy and Thriving Future".) ⁴

External actions by others. There are very important external actions that are needed to support the HealthePeople strategy. What external actions by others will bring about the needed changes?

Identify external actions by others that support good changes that will help improve and/or sustain health. If good changes are likely to occur, together with others support them. If good changes are not likely to occur, together with others support them and develop other good changes to compensate.

Identify external actions by others that stop bad changes that prevent or limit health. If bad changes are not likely to occur, together with others ensure they do not. If bad changes are likely to occur, together with others change them, stop them or avoid/reduce their impact.

Internal actions by us. There are very important internal actions by us that support the HealthePeople strategy. Individual people and the community, country and world should support the strategy to ensure each person and the community, country and world are healthy.

This is where we decide what actions we must take to ensure our health system will result in healthy people and a healthy community, country and world.

⁴ An action is defined as "who will do what to/with whom, where, when, and with what result."

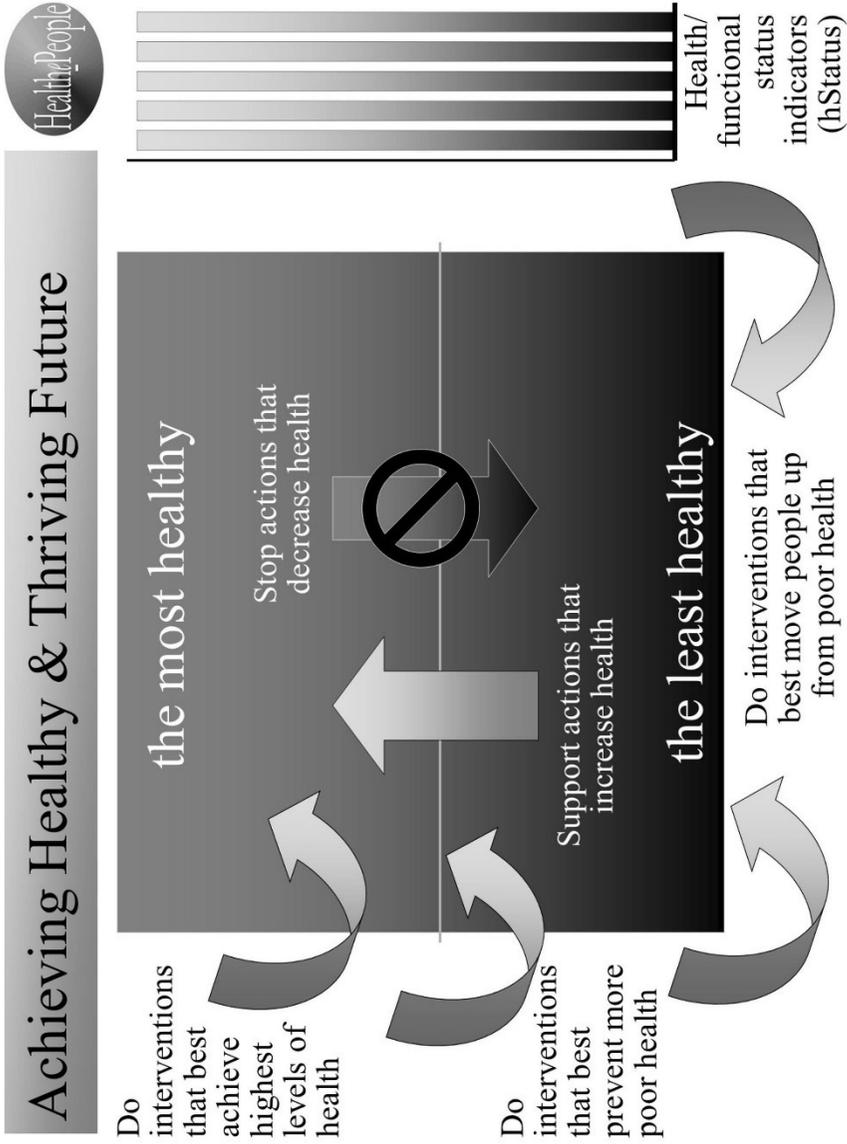


Figure 1.1. “Achieving a Healthy and Thriving Future.”

Identify internal actions by us that support good changes that will help improve and/or sustain health. If good changes are likely to occur, support them. If good changes are not likely to occur, support them and develop other good changes to compensate.

Identify internal actions by us that stop bad changes that prevent or limit surviving and thriving. If bad changes are not likely to occur, ensure they do not. If bad changes are likely to occur, change them, stop them or avoid/reduce their impact.

Overall HealthePeople strategy and actions. The overall HealthePeople strategy and actions need to be documented and agreed to by all of us. This includes what is the successful health system we want to build, achieve, and sustain. This will be the **HealthePeople Strategy and Action Plan**. Different people and public and private organizations will take on different responsibilities. For each action, designate who will do what to/with whom, where, when, and with what result. Make sure all the actions are assigned that are needed to build, achieve, and sustain a healthy future

As the strategy is executed, strategy, actions and results should be updated in the **Strategy and Action Plan**.

Periodically, an evaluation - assessing strategies/actions near and long-term impact on near and long-term health – should be done. When a) strategies and actions are not building and sustaining a healthy future and/or b) there are changes externally and in the community, country, and world, adjust the overall **Strategy and Action Plan**.

The key is to successfully execute the **Strategy and Action Plan** and to build a successful health system and a near and long term healthy future. Each and all must successfully carry out the assigned action. That is, each/all must successfully do what is required to/with whoever is required, where required, when required, and with what needed/desired result. A **HealthePeople Strategy and Action Plan** is only as good as its successful execution and successful achievement of the desired outcome - a successful health system and a healthy future for our people and for our community, country, and world.



Chapter 2. HealthePeople[®] - Achieving Healthy People Via Ideal Health Systems

Ideal Health Systems - Person-Centered, Affordable, Accessible, Quality, Outcomes-Driven Health Systems

An ideal health system is a “**health**” system, not a “health care” or “medical care” system. But health and medical care are key parts of a health system. An ideal health system is **person-centered, affordable, accessible, quality, virtual, integrated and community-focused**. It is “**virtual**” in that not all the elements are owned or managed by any one single organization, not all the elements are in one location, and not all the health support is physically or organizationally connected. It is a virtual, integrated health system in that all the elements are connected functionally, to the person and to support a person’s and community, country, and world’s health. It is a health system in that it supports the health of the person as an individual and the health of the community (whether local, regional, state, countrywide and/or global) of which the person is a part.

An ideal system should achieve healthy people via a strategy of high performance, health systems for all people that are self-perpetuating, affordable, accessible, “e” enabled, person-centered, prevention-oriented, and producing high health quality, outcomes, and status. An ideal health system(s) should succeed anywhere in world and result in healthy people, communities, countries, and world. An ideal health system(s) should minimize time between illness/injury and their best resolution; maximize prevention; minimize inconvenience (time, travel, paperwork); maximize affordability to person, health support, payer and maximize health status.

An ideal health system has the key characteristics in terms of the system, the person whose health is the focus, and health support for the person. In the following table, the ideal health systems' characteristics are addressed as follows:

- a community/country with most limited resources (usually rural/remote; may have only informal health support and may rely on mostly outside health support),
- a community/country with moderate resources (often a mix of rural/remote & urban), and
- a community/country with high resources (such as larger urban).

With limited exceptions, all characteristics apply to every community and country regardless of size, remoteness, and local health resources. They also apply to the world overall. Mix of resources from within and resources from outside varies widely. Rural and/or remote communities/countries are the most dependent on outside resources. (Note: In the appendix, these tables are split out by type of community to make it easier to understand and apply an ideal community health system for a specific community.)

Ideal Health Systems Characteristics

System Element	Community/ Country Most limited resources (rural/remote)	Community/ Country Moderate resources (mix rural/remote & urban)	Community/ Country Most resources (larger urban)
System - person success measure *	I'm healthy and I stay healthy or become very healthy. I'm functioning well and I continue to function well or function even better. I'm ill and/or not functioning well and I get better. I risk getting worse and I don't get worse. I'm	I'm healthy and I stay healthy or become very healthy. I'm functioning well and I continue to function well or function even better. I'm ill and/or not functioning well and I get better. I risk getting worse and I don't get worse. I'm	I'm healthy and I stay healthy or become very healthy. I'm functioning well and I continue to function well or function even better. I'm ill and/or not functioning well and I get better. I risk getting worse and I don't get worse. I'm

	chronically ill and I successfully manage. I have a disability and I successfully cope. I'm near end of life and I successfully cope.	chronically ill and I successfully manage. I have a disability and I successfully cope. I'm near end of life and I successfully cope.	chronically ill and I successfully manage. I have a disability and I successfully cope. I'm near end of life and I successfully cope.
System - success measure	Healthy people, community, country, and world	Healthy people, community, country, and world	Healthy people, community, country, and world
System - drivers for health	Maximize health status, maximize outcomes, maximize abilities, maximize satisfaction, maximize quality, maximize accessibility/portability, maximize affordability, maximize patient safety (drive defects/errors to zero), minimize time between disability/illness and maximized function/health (drive time to zero), minimize inconvenience (drive inconvenience to zero), maximize security & privacy	Maximize health status, maximize outcomes, maximize abilities, maximize satisfaction, maximize quality, maximize accessibility/portability, maximize affordability, maximize patient safety (drive defects/errors to zero), minimize time between disability/illness and maximized function/health (drive time to zero), minimize inconvenience (drive inconvenience to zero), maximize security & privacy	Maximize health status, maximize outcomes, maximize abilities, maximize satisfaction, maximize quality, maximize accessibility/portability, maximize affordability, maximize patient safety (drive defects/errors to zero), minimize time between disability/illness and maximized function/health (drive time to zero), minimize inconvenience (drive inconvenience to zero), maximize security & privacy
System - support for person	Supports “staying healthy”, “getting better”, “living with illness or disability” or	Supports “staying healthy”, “getting better”, “living with illness or disability” or	Supports “staying healthy”, “getting better”, “living with illness or disability” or

	“coping with the end of life.”	“coping with the end of life.”	“coping with the end of life.”
System - characteristics	System is safe, effective, person/patient-centered, timely, efficient, and equitable providing, to extent feasible, comprehensive health support.	System is safe, effective, person/patient-centered, timely, efficient, and equitable providing comprehensive health support.	System is safe, effective, person/patient-centered, timely, efficient, and equitable providing comprehensive health support.
System - affordability	Affordable for person and any other payer. People with limited resource receive needed support from community and/or country.	Affordable for person and any other payer. People with limited resource receive needed support from community and/or country.	Affordable for person and any other payer. People with limited resource receive needed support from community and/or country.
System - accessibility	Accessible (time, distance, availability) for every person.	Accessible (time, distance, availability) for every person.	Accessible (time, distance, availability) for every person.
System - quality	High quality processes produce positive outcomes and high health status. “Right care for every person every time.”	High quality processes produce positive outcomes and high health status. “Right care for every person every time.”	High quality processes produce positive outcomes and high health status. “Right care for every person every time.”
System - safety	Safe an environment as possible in which to receive health support.	Safe an environment as possible in which to receive health support.	Safe an environment as possible in which to receive health support.
System - design and operations	Best systems design and operational thinking is applied to and across the full range of health support.	Best systems design and operational thinking is applied to and across the full range of health support.	Best systems design and operational thinking is applied to and across the full range of health support.

System - dynamic and interactive	System is dynamic as locations for health interventions change, as person changes, as people providing health support change, and as events unfold for person and, her/his “health system” and “health environment”. Is interactive where influences are interacting with each other to change how they impact the person and health.	System is dynamic as locations for health interventions change, as person changes, as people providing health support change, and as events unfold for person and, her/his “health system” and “health environment”. Is interactive where influences are interacting with each other to change how they impact the person and health.	System is dynamic as locations for health interventions change, as person changes, as people providing health support change, and as events unfold for person and, her/his “health system” and “health environment”. Is interactive where influences are interacting with each other to change how they impact the person and health.
System - collaborative partnership	Collaborative partnership of people, public and private payers, and health care organizations substantially improves access, affordability, quality, and health status for all people.	Collaborative partnership of people, public and private payers, and health care organizations substantially improves access, affordability, quality, and health status for all people.	Collaborative partnership of people, public and private payers, and health care organizations substantially improves access, affordability, quality, and health status for all people.
System - public health	Public health approach to community health linking with personal health support.	Public health approach to community health linking with personal health support.	Public health approach to community health linking with personal health support.
System – community and country support	Health system earns and has strong support from community and country.	Health system earns and has strong support from community and country.	Health system earns and has strong support from community and country.

<p>System – health support **</p>	<p>Best mix of resources within and outside of community. The fewer the resources within the more outside resources should be used. Connect with outside resources using full range of virtual means – phone, internet, etc. Share health records as appropriate. Refer to outside resources when outside expertise within community. Many resources will be needed from outside community.</p>	<p>Best mix of resources within and outside of community. The fewer the resources within the more outside resources should be used. Connect with outside resources using full range of virtual means – phone, internet, etc. Share health records as appropriate. Refer to outside resources when outside expertise within community. Many but not all resources likely within community.</p>	<p>Use best mix of resources within and outside of community. The fewer the resources within the more outside resources should be used. Connect with outside resources using full range of virtual means – phone, internet, etc. Share health records as appropriate. Refer to outside resources when outside expertise within community. Most resources likely within community.</p>
<p>System - health records</p>	<p>Sharable, comprehensive health records to extent feasible. Paper if necessary; electronic health records if feasible; standardized data; information share encrypted via internet. Use “virtual health system(s)” of electronic health records (EHR), personal health systems/records (PHS/R), information</p>	<p>Sharable, comprehensive health records to extent feasible. Paper if necessary; electronic health records if feasible; standardized data; information share encrypted via internet. Use “virtual health system(s)” of electronic health records (EHR), personal health systems/records (PHS/R), information</p>	<p>Sharable, comprehensive health records to extent feasible. Paper if necessary; electronic health records if feasible; standardized data; information share encrypted via internet. Use “virtual health system(s)” of electronic health records (EHR), personal health systems/records (PHS/R), information</p>

	exchange (IE) and information standards to extent feasible.	exchange (IE) and information standards.	exchange (IE) and information standards.
Person - person-centered health	Person-centered health support for whole person and maximizing choice and self-care. Special attention to most vulnerable persons.	Person-centered health support for whole person and maximizing choice and self-care. Special attention to most vulnerable persons.	Person-centered health support for whole person and maximizing choice and self-care. Special attention to most vulnerable persons.
Person - healthy partners	Healthy Partners as strong partnership between person and their health support to improve resource use and health outcomes.	Healthy Partners as strong partnership between person and their health support to improve resource use and health outcomes.	Healthy Partners as strong partnership between person and their health support to improve resource use and health outcomes.
Person - family and community support	Family and community support of person helps avoid things that harm health and provides support that improves health.	Family and community support of person helps avoid things that harm health and provides support that improves health.	Family and community support of person helps avoid things that harm health and provides support that improves health.
Person - human behavior	Successfully address human behavior as key to achieving health. Partner with person on motivation and ability that positively affect key behaviors that improve health and avoid harming health.	Successfully address human behavior as key to achieving health. Partner with person on motivation and ability that positively affect key behaviors that improve health and avoid harming health.	Successfully address human behavior as key to achieving health. Partner with person on motivation and ability that positively affect key behaviors that improve health and avoid harming health.
Person - history,	Partner with person to incorporate	Partner with person to incorporate	Partner with person to incorporate

genetics and environment	history, environment and genetic factors into any strategy that improves health and avoids further harming health.	history, environment and genetic factors into any strategy that improves health and avoids further harming health.	history, environment and genetic factors into any strategy that improves health and avoids further harming health.
Health Support - health home	Partnership between person and primary health support creates mutually agreeable “health home providing trustworthy, comfortable provider and place, provides or facilitates a person-accessible repository (actual or virtual) for all of the person’s health information (including the complete health record), and works to monitor and improve the whole health of the whole person across all settings and across all preventive, primary and specialty care.	Partnership between person and primary health support creates mutually agreeable “health home providing trustworthy, comfortable provider and place, provides or facilitates a person-accessible repository (actual or virtual) for all of the person’s health information (including the complete health record), and works to monitor and improve the whole health of the whole person across all settings and across all preventive, primary and specialty care.	Partnership between person and primary health support creates mutually agreeable “health home providing trustworthy, comfortable provider and place, provides or facilitates a person-accessible repository (actual or virtual) for all of the person’s health information (including the complete health record), and works to monitor and improve the whole health of the whole person across all settings and across all preventive, primary and specialty care.
Health Support - use best support	Best health support (prevention, diagnosis, treatment, rehabilitation) for person. Should be safe, efficacious, and effective. Should not be	Best health support (prevention, diagnosis, treatment, rehabilitation) for person. Should be safe, efficacious, and effective. Should not be	Best health support (prevention, diagnosis, treatment, rehabilitation) for person. Should be safe, efficacious, and effective.

	limited to “modern medicine”.	limited to “modern medicine”.	Should not be limited to “modern medicine”.
Health support - care in community	Much of health’s interventions occur outside health care facilities and in the community. Much is self-care.	Much of health’s interventions occur outside health care facilities and in the community. Much is self-care.	Much of health’s interventions occur outside health care facilities and in the community. Much is self-care.
Health support - care coordination	Care coordination helps people with multiple conditions and multiple sources of health support.	Care coordination helps people with multiple conditions and multiple sources of health support.	Care coordination helps people with multiple conditions and multiple sources of health support.
Health Support - prevention	Prevention of illness and injury should be primary strategy at the person and community level.	Prevention of illness and injury should be primary strategy at the person and community level.	Prevention of illness and injury should be primary strategy at the person and community level.
Health Support - evidence-based	Obtain/use evidence-based health support. Obtain via internet and/or as integrated into electronic health record. Use trusted sources. Address co-morbidity. Avoid conflicting therapies.	Obtain/use evidence-based health support. Obtain via internet and/or as integrated into electronic health record. Use trusted sources. Address co-morbidity. Avoid conflicting therapies.	Obtain/use evidence-based health support. Obtain via internet and/or as integrated into electronic health record. Use trusted sources. Address co-morbidity. Avoid conflicting therapies.
Health support - payment	Payment to health support based on effective care and resource use. Payment affordable, fair, and value-based.	Payment to health support based on effective care and resource use. Payment affordable, fair, and value-based.	Payment to health support based on effective care and resource use. Payment affordable, fair, and value-based.
Health support - privacy	Protects privacy of health care and information, especially	Protects privacy of health care and information, especially	Protects privacy of health care and information, especially

	particularly sensitive information such as sexually transmitted diseases, drug and alcohol abuse/misuse, and mental illness.	particularly sensitive information such as sexually transmitted diseases, drug and alcohol abuse/misuse, and mental illness.	particularly sensitive information such as sexually transmitted diseases, drug and alcohol abuse/misuse, and mental illness.
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* Person – person whose health should be optimized and for whom health system and support is being provided

** Health Support – May include physicians, nurses, dentists, optometrists, pharmacists, clinics, urgent care, emergency departments, hospitals, rehabilitation facilities, home care, nursing homes, assisted living, alternative health/medicine, and others.

Person

Person health and function - The ideal system understands a person’s health and function from the person’s perspective and understands and does what it takes to maintain and improve health and function. Ideally, a person spends her/his whole life where “I am healthy and function well.” But almost every person will need a high-performance health system during her/his life as it includes many different health situations. The ideal health system successfully supports a person across the full range:

- I am healthy and I stay healthy or become very healthy.
- I am functioning well and I continue to function well or function even better.
- I’m ill and/or not functioning well and I get better.
- I risk getting worse and I do not get worse.
- I am chronically ill and I successfully manage.
- I have a disability and I successfully cope.
- I am near end of life and I successfully cope.

Person-centered - The ideal health system is “**person-centered**”, meaning that all efforts of the system are centered on the individual person (of which there are over seven billion worldwide) and their staying healthy, getting better, living with illness or disability, and coping with the end of

life.⁵ Each person is different to some greater or lesser degree. She/he can differ in genetics, environment, occupation, family and community support, attitude toward and knowledge of health and health care, ability (including physical ability and knowledge/skills), and motivation (though each person has the need to survive and desire to thrive). Centering the health system on the person and making any health intervention match the individual person helps the system help the person achieve better health and functioning.

Partnership among person and providers - Within the “health support” part of the health system, the “partnership” between the person and her/his health support and payers is key. Ideally, a person spends her/his whole life where “I am healthy and function well.” But for most every person, life includes many different health situations where a partner is important:

- I’m healthy and, together with you, I stay healthy or become very healthy.
- I’m functioning well and, together with you, I continue to function well or function even better.
- I’m ill and/or not functioning well and, together with you, I get better.
- I risk getting worse and, together with you, I don’t get worse.
- I’m chronically ill and, together with you, I successfully manage.
- I have a disability and, together with you, I successfully cope.
- I’m near end of life and, together with you, I successfully cope.

Motivation and Ability - The ideal system and its health support people understand how a person’s motivation and ability affects her/his behavior as it relates to health. But it is more than just the person’s motivation and ability; it is also her/his health support’s motivation and ability. One of the substantial weaknesses in today’s health support is the lack of skills and knowledge with respect to human motivation and ability and how it relates to improving health related behavior. This lack exists even though most of the knowledge exists and it continues to improve. Health support must partner with a person on motivation and ability that positively affect key behaviors that improve health and avoid harming health.

⁵ Institute of Medicine, “Crossing the Quality Chasm: A New Health System for the 21st Century, 2001 and the Foundation for Accountability (FACCT), 2001

Behavior - As with motivation and ability, the ideal system and its people understand how a person's behavior affects health and works successfully with the person and her/his family and health support to improve health. The person's behavior affecting health includes general lifestyle, efforts to reduce risk factors (including obesity, tobacco use, alcohol and drug misuse), rehabilitation, and adhering to care requirements (including taking needed medications and doing rehabilitation, following post-surgical follow-through). But it is more than just the person's behavior; it is also her/his health support's behavior. One of the substantial weaknesses in today's health support is the lack of skills and knowledge with respect to human behavior and how behavior relates to improving health. This lack exists even though most of the knowledge exists and it continues to improve. Health support must partner with a person on the key behaviors that improve health and avoid harming health.

History, genetics and environment - To positively affect health, the system's health support understands the person's genetics and health-related history and environment and how to work with them. Health support must partner with a person to incorporate history, environment and genetic factors into any strategy that improves health and avoids further harming health.

Family and community support -The system and its people understand the key role that family and community support can play in avoiding things that harm health and providing support that improves health. Support can be psychological when a person is sick or has a disability or when a person is trying to improve on a health-related behavior. Support can be physical when a person needs reminding on taking a medication, needs to get to health support, or needs care for a condition which limits the ability to think, move or do basic functions like food preparation or personal hygiene. Support can be provided by family members, friends, neighbors, community volunteers, and private and public sector community organizations.

Financial resources - The ideal system recognizes that a critical aspect of ability is each person's different ability to afford health support based on their financial resources and public and/or private health insurance coverage. It ensures that a lower ability to pay does not prevent a person from receiving needed health support.

“Virtual” integrated health system

Health home - Within the health system, a partnership between the person and her/his health support creates a mutually agreeable “health home” that provides a trustworthy, comfortable health support team and place, provides or facilitates a person-accessible repository (actual or virtual) for all of the person’s health information (including the complete health record), and works to monitor and improve the whole health of the whole person across all settings and across all preventive, primary and specialty care.

Care coordination across settings and across primary care, prevention and specialty care – Care coordination for people with multiple conditions and multiple health support sources is led by the person and her/his Care Coordinator in close partnership with her/his primary health support. Care across all settings and across prevention, primary care, specialty care and non-traditional care is fully coordinated to help achieve the best use of resources and achieve the best outcomes and health and functional status.

Comprehensive services - The health system includes the full range of services needed for prevention, for rehabilitation, and for diagnosis and treatment by primary health support and all needed specialties and in all needed settings. In the case of rural or small communities, this may require partnering with other communities to make comprehensive services available and to help ensure reasonable accessibility, including travel.

Care in the community - Recognizing the value of care in health support organizations and their facilities (hospitals, physician offices, nursing homes), much of health’s future interventions occurs outside health support facilities and in the community. Health support organizations provide some of that care, for example via telehealth. Other organizations provide some health support (for example, promoting positive health behaviors and/or reducing risk factors like obesity, tobacco use and alcohol and drug misuses). Family and the community provide some support like what has been done since before there was formal health care. The person does self-care from prevention to treating minor illnesses and injuries to rehabilitation.

Population and public health - The health system fully integrates with public health agency support at all appropriate levels (including local, state, country, world). The public health agency provides leadership and core services and resources for overall population health for the community, country or world. Working collaboratively with the private

sector and other public health agencies, the public health agency also serves as the lead and coordinator for the community, country and world's population health. Other private and public organizations which have responsibility for a segment of the community, country, and world and their health effectively carry out that responsibility.

Affordability, including insurance - The system ensures that achieving good health for the person and the community is affordable for all payers - self, employer, private insurance, and public insurance (funded by taxpayers). To help ensure affordability for the person and to avoid health-related financial catastrophes, affordable health insurance (public and/or private) is needed that fully addresses a person's ability to pay premiums, coinsurance, and non-covered health care costs.

All payer, affordable, fair, value-based payment - Payment is the same for all payers (private insurance, public programs, employer self-funded plans, and individual persons) for the same service. Payment rates should be fair in that they pay what it appropriately costs to provide high quality health support. Payment is based on value provided whether for an episode of care or per capita for a month or year of health support.

e-enabled - Each person and her/his health support are fully enabled with electronic systems to the extent feasible. Such systems include electronic health records (with decision support) and personal health systems (access to EHRs, personal health data, education, support, communication with health support). They follow standards for content, decision support and exchange. They facilitate accurate, complete, secure, and private exchange of personal health information among each person and any health support at any time in any place.

Partnership among private and public sector - The ideal system is dependent on both the private and public sectors partnering to create, operate and sustain a system that is used effectively by every person, uses valuable resources effectively and efficiently, and achieves the highest health and functional status possible for every person. Private and public sector health support organizations partnering with public health agencies is essential to providing the full range of health support (prevention, primary care, specialty care, inpatient care, nursing home and home care, rehabilitative care, non-traditional care) in the full range of settings, including in the community.

Performance

Good person health - As indicated earlier, the ideal system understands a person's health and function from the person's perspective and understands and does what it takes to help maintain and improve health and function. Ideally, the person and the supportive system together increase the chances that a person spends most of her/his life where "I am healthy and function well." The system's performance is measured by each person's and all persons' health and functional status throughout life.

Good community/country health - The ideal system understands a community, country and world's overall health and functional status, understands the people's perspective, and understands and does what it takes to help maintain and improve health and function for all people. Ideally, the person and the supportive system together increase the chances that the whole community, country, and world spends most of their lives where everyone can say "I am healthy and function well." The system's performance is measured by each and every person's health and functional status throughout their lives. Further, the people and their lifestyles, their work, and their environment (home, neighborhood, work, education, recreation) do minimal harm to health and help improve health and function.

Affordable - The ideal system is affordable for every person and every payer - self, employer, private insurance, and public insurance funded by taxpayers. It ensures that every person gets needed health support without negatively affecting essential food, shelter, transportation, education and other basic necessities of living. The person is responsible for using the health system prudently so as to not waste valuable health resources and is responsible for taking all reasonable steps to live a healthy lifestyle and to partner with her/his health support so as to increase the likelihood that a health problem is successfully diagnosed and treated (including rehabilitation from injury or illness and treatment of injuries and acute and chronic illness).

Accessible - The ideal system is accessible, not just in terms of affordability, but in terms of all aspects of accessibility. This includes physical proximity, physical access into a health care facility (including accessibility and usability for people with disabilities), reasonable hours for non-urgent care, transportation for regular and urgent care, transportation for emergency care, non-discriminatory for any reason, and

reasonable accommodation for special needs (including language, cognitive limitations, cultural needs).

High quality - The ideal system provides high quality health support and produces good outcomes reflecting the best knowledge available on how best to prevent and treat health problems and maintain and improve function.

Safe - The ideal system provides as safe an environment as possible in which to receive health support. This includes successfully minimizing misdiagnosis, inadequate or wrong care, negative drug-drug interaction, infectious agents, and illnesses acquired while at a health care facility.

Minimized inconvenience - The ideal system minimizes inconvenience for the person needing health support. Having to spend too much time in waiting rooms or having trouble getting into care (for example, getting an appointment) can be a major inconvenience, especially for a sick or injured person. When a person is sick or worried, time between visits and tests can be especially inconvenient, even more when the time span is days or weeks. In rural and some urban areas, travel time and distance can be inconvenient. The ideal system minimizes inconvenience to as close to zero as is possible.

Privacy protected - The ideal system protects the privacy of personal health information, especially particularly sensitive information such as sexually transmitted diseases, drug and alcohol abuse/misuse, and mental illness. Personal health information becoming public can be embarrassing, compromise trust, increase insurance rates or prevent insurability, threaten or prevent employment.

Private and public sector supportive actions and interventions

For a person and the community, country and world, there are actions that improve health or make it worse. In a systematic and coordinated manner, the ideal health system improves health status by helping support actions that increase health and helping stop actions that decrease health. People (including the person and her/his health support and other parts of the private and public sectors) who are part of the system do interventions that best:

- a) achieve the highest levels of health,
- b) prevent more poor health, and

c) move people up from poor health.

To improve health most, we need to execute a "systematic strategy" – a "system" of actions that continuously stops actions that push people down to less healthy states and supports actions that lift people out of poor health and toward being healthy. This "system" of actions, when well designed and executed, can perpetually prevent much poor health and support people moving up from poor health to being healthy. (See Figure 2.1 "Achieving a Healthy and Thriving Future")

The overall strategy is built upon a strategic improvement and behavior model for health. We need to set the target health and functional status we are trying to achieve under the vision "healthier/healthy people". Given the target status, we can decide on the target outcomes needed and on the target health system needed to achieve those outcomes. Comparing the optimized outcomes and health system with the current health system and its performance, we can determine the "delta", i.e., the needed improvements in the current health system and its outcomes to achieve the ideal health system and its much better outcomes.

Knowing what needs to be improved, we can then determine what personal and health support behaviors should change. Human behavior, both by a person and her/his health providers, is key to making and sustaining the improvements. Existing behavioral models helps us think through how we bring about the behavior change necessary to make the improvements.⁶ Together, the system and behavior changes are intended to produce improved health and functional status for all.

⁶ Such a behavioral model is the "Behavior Effectiveness Model (BEM)", Gary A. Christopherson, 1974, 2012 and 2015

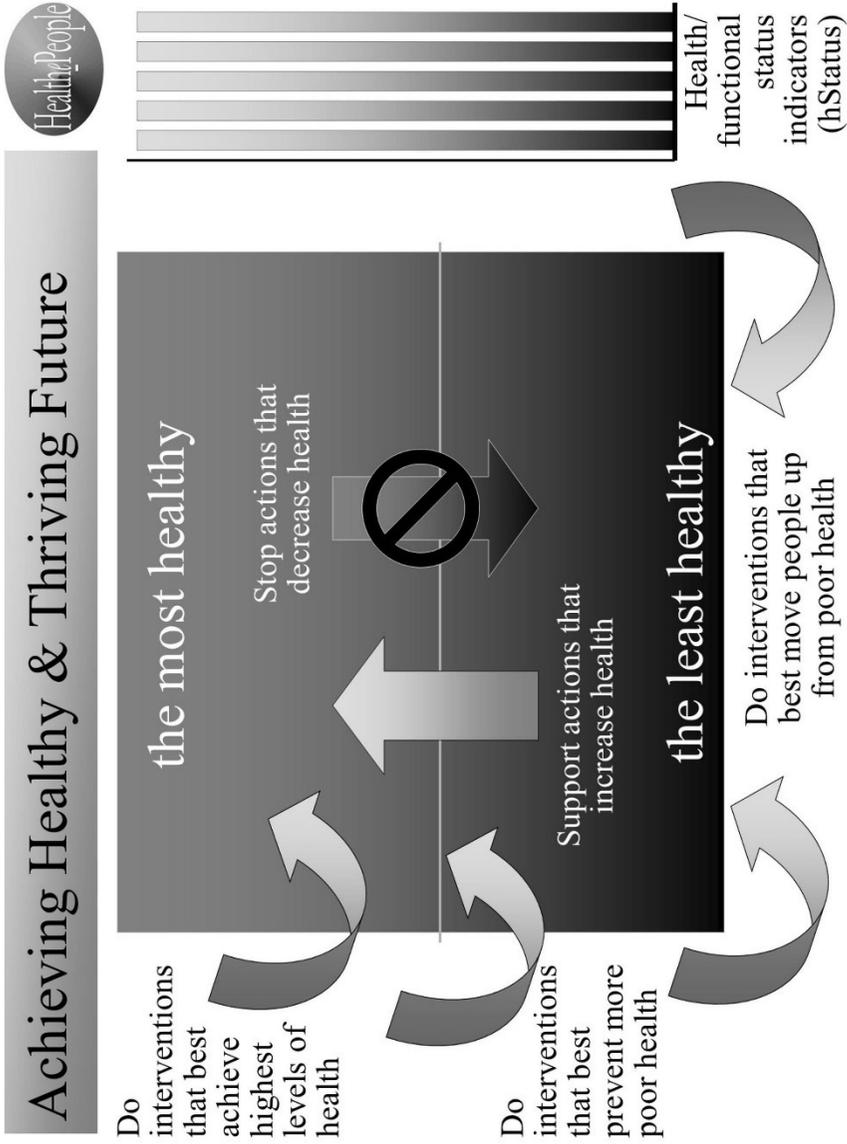


Figure 2.1 “Achieving a Healthy and Thriving Future.”

Outcomes-Based Health System

An ideal outcomes-based health system successfully supports a person is ill, injured or has a disability and/or is just trying to maintain or improve health. The person has health support partners in this effort. For this person and her/his health support partners, they know, specifically for this person, what diagnostic procedures and treatments are most likely to work or not work and what is safe and what is not safe. For treatments that are riskier (the evidence is less definitive), they know the risks and benefits. They have this information in real time and at the point of care. For treatments that are most likely to work and are sufficiently safe, they know how best to apply the treatment. The person has a personal health record/system that uses this information together with the person's specific factors and treatment plan. They have an electronic health record system with automated decision support that uses this information together with the person's specific factors and health support expertise. They share their successes and failures back with the rest of the community, country and world for the greater good.

To fully achieve this system, we need to successfully execute the following strategies. A free and publicly available database of outcomes-based evidence is created and maintained in perpetuity. This database includes the worldwide knowledge on prevention, diagnostic procedures and treatment safety, efficacy, and effectiveness. To access the database, a core set of user-friendly tools are free and publicly available for use by individual persons (e.g., patients, consumers, family, friends) and their health support. A larger pool of outcomes-based evidence is created that goes beyond controlled clinical trials. This larger pool addresses a broader number and range of people (gender, race, age, family history, environmental exposure, socio-economic factors) and enables more person-specific diagnostic procedures and treatment. To the extent feasible, electronic health record systems (EHRs) are in place that bring together the person's individual factors, prevention information, diagnostic information, treatment information for this and historical care (prevention, acute, chronic, long-term). These EHRs incorporate automated decision support including clinical guidelines and the available outcomes-based evidence. The EHR and associated systems are able to exchange information with other health support EHRs in ways that are real time, secure, safe and effective.

Health care is personalized, incorporates the best outcomes-based evidence, and learns every time care is provided or a new study is completed. Putting outcomes-based evidence into practice helps achieve healthier people, and healthier communities, countries and world.

Design and Operation an Ideal Health System

What is an ideal health system design? An ideal health system is designed to be person-centered, affordable, accessible, quality, virtual, integrated and community-focused. It is a “virtual health system” for the purpose of achieving the highest level of personal and community, country, and world health and function by integrating the health support of many supportive organizations and services working together under both formal and informal relationships. (See Figure 2.2 “An Ideal Person-Centered, Affordable, Accessible, Quality, Virtual, Integrated Health System”)



An Ideal Person-Centered, Affordable, Accessible, Quality, Virtual, Integrated Health System

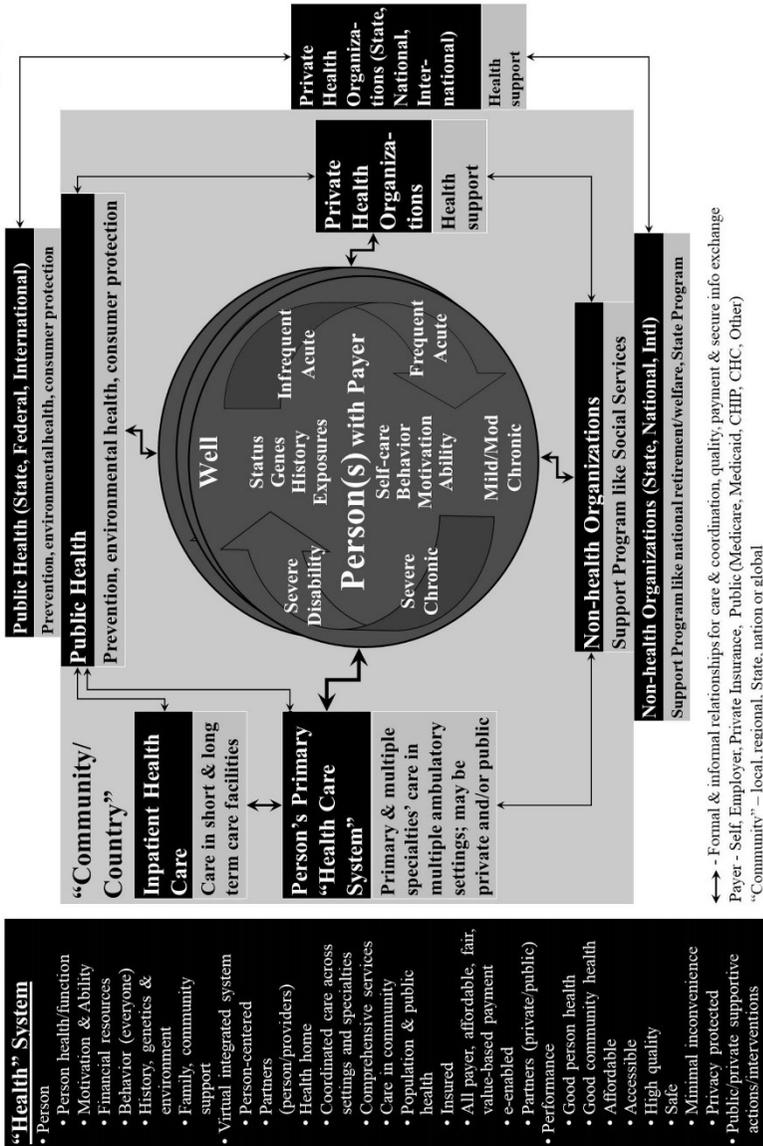


Figure 2.2. “An Ideal Person-Centered, Affordable, Accessible, Quality, Virtual, Integrated Health System.”

For communities, country and world, the health system should consist of the following elements engaged in the related behaviors:

- Person partnering with her/his payer (self, employer, private insurance, public insurance)
 - Behavior, self-care, “community” support
- Person’s primary “Health System”
 - Primary & multiple specialties’ support in multiple settings; may be private and/or public
- Inpatient health care
 - Care in short & long-term care facilities
- Public health at the local level partnering with public health at the state and country levels.
 - Prevention, environmental health, consumer protection
- Private health organizations at the local level which may also be partnering with private health organizations at the state and country levels.
 - Health support
- Non-health organization at the local level which may also be partnering with non-health organizations at the state and country levels.
 - Support program like social service, public and private retirement and income support, national/state/local programs

The ideal health system has the person and the community, country and world as its center. Everything it does and achieves is centered on them.

The health system understands and accepts that the person and the community, country and world are focused on their (and the people they care about) need and desire to be healthy. Most people and most communities/countries do not have health support as their primary interest. Most people just want to live and enjoy their lives. Health support is something the person needs as a means to remove or minimize any health or function problems that get in the way of living and enjoying her/his life.

The health system understands and accepts that, in general, a person, a community and a country are better off (health, best use of resources) to the extent to which each and every person stays as healthy and highly functional as possible and only uses the health system when there is an

unavoidable injury, illness or disability or when it is possible to prevent injury, illness or disability.⁷

The health system understands and successfully addresses the full range of a person's health - being well and/or having infrequent acute illness, frequent acute illness, mild/moderate chronic illness, severe chronic illness, and severe disability. At any given time, a person may be well. Or a person may be somewhat well but may be dealing with a disability or managing a non-severe chronic disease. Or a person may not be well and experiencing multiple health problems - a disability, a chronic disease, an injury and/or an acute illness.

The health system understands and successfully addresses that, over time from before birth until death, a person's personal status and health and functional status may change many times. The needs of the mother and infant are different than that of an older child than that of a young adult than that of a middle-aged adult than that of an older adult. Over time, the health and functional issues are often different but not necessarily so. Severe disability can occur at any age and can span a little or much of a person's life.

In a community, all combinations of personal status and health and functional status may exist at any time and over time and at any phase of life. They need to be successfully addressed by the health system.

As detailed earlier, the ideal health system understands and helps achieve affordability, quality, accessibility and high levels of health and functional status for the person. It understands and helps achieve affordability for the person's payer. This is essential whether the payer is the person her or himself, an employer, private insurance, and/or public insurance. Cost and cost increases are kept as low as possible without compromising quality and access. Only needed health support is provided. Health support is consistent with generally accepted practice and best available evidence. Health support is provided in the most effective and efficient manner

⁷ The system recognizes and accepts that, for most communities and countries, health care is a desirable necessity to help keep its people healthy but not a major economic force. For a small number of communities and countries, health care is a major economic force. Health care can be an economic plus if the net benefit from health care payers outside the community/country exceeds what the community/country and its people pays itself for health care.

consistent with producing the best outcomes and health and functional status.

How does the ideal health system operate? In many ways, it is the mostly informal health system that we have today but it performs at a much higher level. The relationships among health support continue but are more person-centered, are more integrated, are more effective and efficient, and better share a person's care-related information.

Starting at the beginning of a person's life, a formal partnership begins with primary health support (e.g. a pediatrician, family practice physician). There are already formal partnerships with the other family members. These partnerships not only address the individual family member but do so in the context of the whole family. The family may have a "family" partnership with a family practice. As a person progresses through life, the person's health support partner changes, including from a pediatrician for children to a different physician for adults. That change is done seamlessly as the person chooses different health support, health records are transferred, and the two sources of health support collaboratively transition the person's care. The same may happen later in life if a person chooses to partner with a geriatrician. During a person's life, a person may change health support and the same seamless transition occurs.

The health system starts with a partnership between a person and her/his primary health support (for example, a primary care physician). Almost every person benefits from a successful partnership with primary health support in the primary health system who understands and helps address a person's health from being well through acute illness through chronic illness through a disabling condition. The focus of the partnership is to understand and address the whole person's health and to keep the person as healthy as possible.

Since a person may experience any health problem over her/his lifetime, the partnership must have available and, as needed, successfully use a wide range of health resources. These resources include primary care, preventive and wellness care, specialty care, inpatient care, rehabilitative care, nursing home care, palliative care, home and community care and support, alternative care and non-traditional care. These resources may be provided by the private sector (non-profit and for-profit organizations and individuals) and/or public sector. Most services and support are provided within the community but some services and support will come from outside the community. For example, the internet provides access to a wide

range of services and support from anywhere at any time. Through a good partnership between a person and her/his primary health support, these resources can be used most effectively and efficiently to the benefit of the person and her/his payer.

But the community/country changes and so must the ideal health system if it is to stay “ideal”. People change. Health support changes. Health care and its delivery change. The science changes. Further, the ideal health system itself needs to be proactive and help bring about positive change through actions and interventions available to it and that are consistent with its mission.

In a systematic and coordinated manner, the ideal health system improves health status by helping support actions that increase health and helping stop actions that decrease health. People (including the person and his/her health support and other parts of the private and public sectors) who are part of the system do interventions that best a) achieve the highest levels of health, b) prevent more poor health, and c) move people up from poor health.

The ideal health system recognizes the following as key health drivers and uses them as guidance and as measures of our progress toward a healthy community.

- Maximize health status
- Maximize outcomes
- Maximize abilities
- Maximize satisfaction
- Maximize quality
- Maximize accessibility/ portability
- Maximize affordability
- Maximize patient safety (drive defects/errors to zero)
- Minimize time between disability/illness and maximized function/health (drive time to zero)
- Minimize inconvenience (drive inconvenience to zero)
- Maximize security & privacy

Achieving a healthy and thriving future for people and their communities, countries and world is what we need and want. Achieving healthy communities, countries and world is what we need and want. Achieving healthy people is what we want. Achieving ideal health systems - person-

centered, affordable, accessible, quality - is what will achieve healthy communities, countries, and world and healthy people.



Chapter 3. HealthePeople® - Achieving Healthy People Via Person-Centered Health

Ideal Person-Centered Health Systems - Person-Centered, Affordable, Accessible, Quality, Outcomes-Driven Health Systems

“Person-centered health”, in its entirety, is very different than almost any care provided today by any health support or health system. But if “health” and “healthy people” is what we want to achieve, then “person-centered health” is how we need to operate.

It is different in attitude, culture, design and operation. It is different in that it is a “health system” rather than a health care or medical care system. It is different in using the term “person” rather than terms like patient, consumer, or enrollee. It is different in that it views the person and her/his “self-care” as necessary to the successful achievement of health. It is different in using the term “health” rather than the term medicine. It is different in its focus on “health” rather than illness, injury and disability. It is different in its focus on health status rather than illness or disease burden. It is different in focusing on “health outcomes” rather than treatment outcomes. It is different in using the term “electronic health record” versus electronic medical record. A “health” system integrates care inside and outside of medical/health care facilities while a medical care system focuses more on the care provided within medical/health care facilities. It is not just about “care” but is about all factors that determine a person being healthy or not. The focus is on what is trying to be

accomplished (outcome) rather than on what is being done (process) or what is being corrected or prevented. All these other terms have value but should not be the primary drivers or define the end goal or how we get to that end goal. Healthy people is the end goal.

Health Support – When Is It Not Person-Centered and When Is It?

While many providing health support today believe they are providing “person-centered health,” many of them and many others, in the true sense of the term, are not. What are indications that health support is not truly person-centered?

1. Not putting the person at the center of health care plan development and delivery.
2. Not an optimized involvement of the person in self-care.
3. Not a partnership between the person and his/her health support.
4. Not making a person’s satisfaction with care a critical success factor.
5. Not addressing the critical role that a person’s behavior plays (especially for chronic care and prevention) nor how to achieve target behaviors (e.g. medication adherence, smoking cessation, weight reduction, post-surgery follow-up).
6. Not optimizing health outcomes and status for the person.
7. Not providing health support between episodes of illness.
8. Not providing health support in a way in which the person is better willing and able to succeed.
9. Not sharing the right information at the right time in a way usable by the person.
10. Not having an electronic health record (EHR) covering all of a person’s care by that health support and by other health support.
11. Not having an electronic personal health system (PHS/R) that a person can use to get information, make transactions, self-enter information, access the health record, message with health support, access eHealth support services (e.g. risk reduction programs, moderated group sessions) or help coordinate care.
12. Not sharing/exchanging (when appropriate and authorized) a person’s electronic health record information with another health support involved in the person’s health support.

13. Not checking for and avoiding conflicting therapies (e.g. drug-drug interaction).
14. Not doing prevention or early intervention well.
15. Not truly personalizing (not doing “mass personalization”) population-based health programs.
16. Not addressing co-morbidity (e.g. multiple illnesses requiring multiple medications) well.
17. Not taking a good personal and family history nor fully incorporating it into the care plan.
18. Not taking into account the family, friends, coworkers and other parts of a person’s community that impact health or involving them when appropriate.
19. Not coordinating across all settings (self-care, clinic, hospital, nursing home, community care).
20. Not coordinating across all health support (primary care, specialty and subspecialty care).
21. Not taking into account the person’s environment (home, work, school, community)
22. Not incorporating genetics into prevention and health care.
23. Not operating at the convenience of the person but instead primarily operating at the convenience of the health support.
24. Not paying sufficient attention to persons without financial access and putting all the care and attention on those with financial access.
25. Not worrying about the affordability of health support to the person or her/his payer(s).
26. Not helping with the “portability” of health support and the information necessary to make care portable.
27. Not taking the extra steps to ensure the provided health support is safe.
28. Not appreciating a person’s privacy concerns.

What is person-centered health? We would suggest that person-centered health is “The person a) is supported as a unique and whole person who changes over time, b) is at the center of self-care, formal health support and informal health support, b) has, receives and provides necessary health-related information, c) has health support coordinated via an effective

person and health support partnership, and d) achieves good health outcomes and high health status.

To be truly person-centered, all of the above indicators need to be turned around into a “positive” direction (e.g. the person is put at the center of the development and delivery of a person’s health support plan) as follows:

1. Puts the person at the center of health support plan development and delivery.
2. Optimizes involvement of the person in self-care.
3. Has a partnership between the person and her/his health support.
4. Make a person’s satisfaction with health support a critical success factor.
5. Addresses critical role that a person’s behavior plays (especially for chronic care and prevention) and how to achieve target behaviors (e.g. medication adherence, smoking cessation, weight reduction, post-surgery follow-up).
6. Optimizes health outcomes and status for the person.
7. Provides health support between episodes of illness.
8. Provides health support in a way in which the person is better willing and able to succeed.
9. Shares the right information at the right time in a way usable by the person.
10. Has and uses an electronic health record (EHR) covering all of a person’s health support by that health support and by other health support.
11. Has (makes available) and uses an electronic personal health system (PHS/R) that a person can use to get information, make transactions, self-enter information, access the health record, message with health support, access eHealth support services (e.g. risk reduction programs, moderated group sessions) or help coordinate care.
12. Shares/exchanges (when appropriate and authorized) a person’s electronic health record information with another health support involved in the person’s health support.
13. Checks for and avoids conflicting therapies (e.g. drug-drug and drug-allergy interaction).
14. Does prevention or early intervention well.

15. Truly personalizes (does “mass personalization”) population-based health programs.
16. Addresses co-morbidity (e.g. multiple illnesses requiring multiple medications) well.
17. Takes a good personal and family history and fully incorporates it into the health support plan.
18. Takes into account the family, friends, coworkers and other parts of a person’s community that impact health and involves them when appropriate.
19. Coordinates across all settings (self-care, clinic, hospital, nursing home, community care).
20. Coordinates across all health support (primary care, specialty and subspecialty care).
21. Takes into account the person’s environment (home, work, school, community)
22. Incorporates genetics into prevention and health support.
23. Operates at the convenience of the person instead of primarily operating at the convenience of the health support.
24. Provides attention and “care” to persons with and without financial access.
25. Makes health support affordable to the person and his/her payer(s).
26. Helps with the “portability” of health support and the information necessary to make care portable.
27. Takes the extra steps to ensure the provided health support is safe.
28. Appreciates a person’s privacy concerns and protecting privacy, including the security of health records and messages.

Model for Person-Centered Health System.

What is the design for a person-centered health system (e.g. one that includes care in the community) and how does it function? How does it ensure that it has the characteristics described above? A model for a person-centered health system. (See Figure 3.1. “Model for a Person-Centered Health System.”)

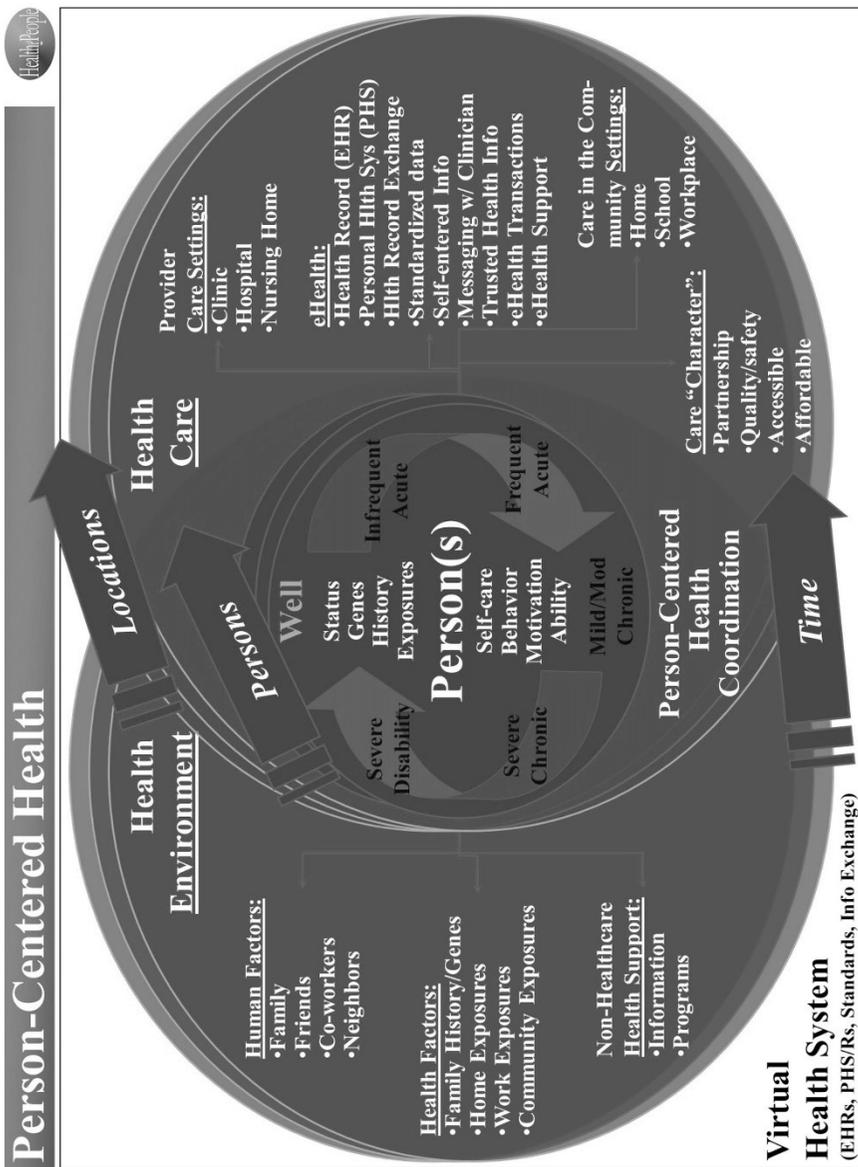


Figure 3.1. "Model for a Person-Centered Health System."

Person at the Center. The person-centered health system starts with the person at the center. Key information on the person is collected, accessed and incorporated into the person’s health plan (what will be done by the person and their health support together to optimize health outcomes and maximize health status). The system and its health support know the person’s current health status, person’s and the family’s health-related history, genetic information, and relevant exposures (home, workplace, community). Also, the person’s health related behavior, motivation and ability is known and incorporated. The person’s ability and willingness to do appropriate self-care and partner with her/his health support is built into the person’s health plan.

The health system recognizes how history, current status and potential future health status will play a role in the person’s health plan. It recognizes that at any time, the person may be in one or more states (well, infrequent or frequent acute episodes, mild or moderate chronic illness, severe chronic illness, have a temporary or permanent disability). For example, the person might be well but have a disability with which they have learned to cope well. The person might have a severe chronic illness and be hit with frequent acute illnesses as well. The mix of these states is likely to change over time.

Health Support. The health system accesses the full range of facility-provided health support, including clinics, hospitals, and nursing homes. But what is the “character” of that health support? Such health support, in a person-centered system, creates a partnership between the person and her/his health support, using the best of both and creating a synergy by bringing them together. It makes quality and safety high priorities to avoid doing harm to the person and to optimize health outcomes and status for the person. It understands “accessibility” from the person’s perspective and successfully tackles the full range of access issues (physical, social) to ensure the person gets what health support is needed whenever and wherever needed. It recognizes the importance of affordability and takes the necessary steps to ensure affordability for the person and for whoever is the person’s payer.

But a person-centered health system goes beyond facility-based health support and accesses and integrates in the full range of community-based health support, including home care and assisted living environments. It reaches further and accesses workplace, schools, and other community settings as is appropriate. Linking to home, school, workplace, and other community health capabilities provides a total health system of health

support that recognizes that the person spends most of his/her life outside of health care facilities. This linking also brings to bear key people who can provide health support, including formal health providers and community programs. More will be said later about the role for and value of the person's family, friends, co-workers, and neighbors.

Within a particular system, the eHealth system provides and integrates an electronic health record (EHR), a personal health system (PHS/R), electronic health record exchange with other health support, standardized data, self-entered information from the person, electronic messaging and phone contact between the person and her/his health support, trusted health information on issues relevant to the person's health, eHealth transactions (e.g. prescription drug refills, scheduling) and eHealth program support.

The health system provides or accesses eHealth program support that includes the full range of supportive services that a health system can provide using electronic devices, a computer, the Internet and a phone. They include risk reduction programs, pre-work or follow-up to acute care, and chronic disease management. They provide the opportunity for "mass personalization" whereby eHealth programming can be targeted to those who will benefit most and the programming can be individualized to the person's specific target behaviors, motivation, ability, and community support system, and to changes over time.

Healthy Partners.

In all our efforts to do health reform and build a healthy community, country and world, we seem to be getting lost in the complexities of health care organizations and payment mechanisms. In America, the alphabet soup includes acronyms like ACO, PPO, HMO, MCO, etc. Instead, we should go back to the future by combining the strengths of a simpler time with the strengths of current and future time. Think of the best (not the shortcomings) of television's Dr. Welby with the best of what we know about high performance health (high accessibility, quality, affordability, outcomes). I'll put a simple label on it - "**Healthy Partners**". Put another way, it is more of "person-centered health".

Why **Healthy Partners**? Let me respectfully suggest that it may be the only approach that offers hope to billions of people desperately looking to

improve and sustain their health without breaking everybody's bank.⁸ It may be the only approach that we already know how to do, is relatively simple and easy to execute in every community, country and worldwide, is acceptable and desirable to people, is acceptable (maybe desirable) to the vast majority of health providers, greatly improves health and health support quality, and is affordable to the person, the payer, the community, and the country.

The available evidence supports the view that high quality and highly accessible health support saves money while improving health. If this is true and we believe it, then this is the quickest, easiest, and best way to get to high performance (high accessibility, quality and affordability) health for all people. If we believe this, then now is the time to act accordingly.

What is **Healthy Partners**? Very simply, it is the long-lost partnership of the person (and family and friends), the health support (matched to the needs of the person) and the payer (involving the person as self-payer, taxpayer, employee).⁹ In many ways, the fictional Dr. Welby had it right. He had a partnership with the person for whom he cared (not only did he provide health support but he truly cared about the person). He included family and friends when appropriate and available. He provided preventative and therapeutic care. He knew about the person's environment (for example, home, work, school, and neighborhood). He knew the person's behavior. He knew about the person's history. He was the person's partner in health.

But he did not know everything. He did not know the person's genetics, except for what he knew about the person's parents and grandparents. He was not able to fully keep up with the latest medical breakthroughs and best evidence-based care. He did not have as effective or broad a range of therapeutic interventions. He did not have as timely, effective or broad a range of diagnostic information. He did not have electronic health records. He did not have an easy way to track and manage care across time or across persons. He did not have an easy way to share information with other health support caring for the person. He did not have as strong a network of other health support to team with as can and should exist today

⁸ Note: This is not at all to diminish the need for payment support and mechanism like health insurance. However, even if everyone has sufficient health insurance or other financial support, an approach like **Healthy Partners** is needed.

⁹ In some cases, there may be multiple payers. As is done today, there will need to be coordination of payment.

and for the future. He did not have an appropriately incentivized payment system.

So how do we combine the best of Dr. Welby with the best of current and future time? **Healthy Partners** is a three-part partnership between the person, his/her primary health support and her/his payer. The primary and voluntary partnership is between the person and her/his primary health partner. The primary health partner is not a “gatekeeper” but is a facilitator and coordinator of care. When there are multiple conditions and providers, the health partner may partner with another health partner, a Care Coordinator. The person and the primary health partner recognize and respect this partnership. All health support is organized around the person and this essential partnership. Again, this is “person-centered health”. The payer supports this primary partnership and is part of a larger partnership. All the other health partners (for example, specialists, hospitals, nursing home, home and community care, pharmacists, labs, imaging, public health, mental health providers and rehabilitation) involved in a person’s health support this primary partnership and are part of a larger partnership. They recognize and respect this primary relationship. The person and his/her primary health partner recognize and respect the value of all these other health partner and involve them appropriately. (See Figure 3.2. “Healthy Partners”)

So, how do this partnership and a person’s health improvement and sustainment get paid? It is relatively simple. The person, his/her primary health partner and the payer create the voluntary partnership. It starts with the person choosing a primary health partner who agrees to be a health partner, provide primary health support and, preferably, to coordinate the overall care for the person. Again, in certain cases, a Care Coordinator will be important. The payer recognizes and respects that partnership and pays the primary health partner appropriately. For example, the payer provides a monthly payment for coordinating care and pays higher for primary care. The payer recognizes and values the partnership and the high value of primary health partner by raising current payment levels by a substantial percentage. The primary health partner recognizes and values the higher payment, the payment for coordination of care, and the new partnership with the person and the payer. Key is that the primary health partner and the payer move from an adversarial relationship to a partnership. Key is that the person now has partners in ensuring accessibility, quality and affordability and improving and sustaining health.

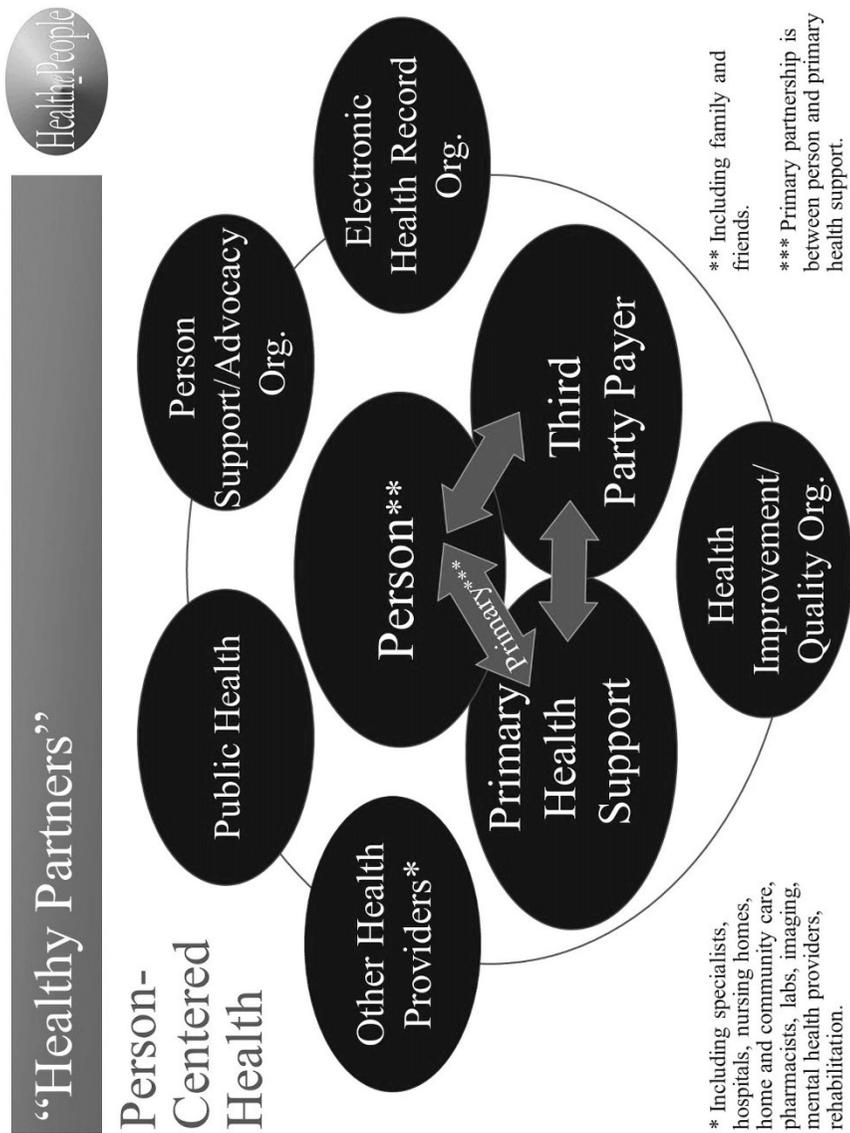


Figure 3.2. “Healthy Partners”

What are the action steps to make this happen successfully?

1. Every person is strongly encouraged to improve and sustain his/her own health and to help ensure health care quality, affordability, and accessibility consistent with the best ways to improve and sustain health. Every person is strongly encouraged to enter into a partnership with a primary health partner to improve and sustain health, jointly do primary care, and jointly coordinate care. When there are multiple conditions and providers, a Care Coordinator is important. Payers may want to provide incentives for a person's behavior that increases affordability, reduces health risks and increases successful treatment.
2. Every primary health partner who a) has a current agreement with a person to be the primary health partner, and b) acts as the primary health partner receives a substantial percentage increase in payment from the respective third party payer.
3. Every primary health partner who a) agrees to coordinate care across all of a person's providers and b) coordinates that care receives a monthly payment from the respective third party, public or private payer.
4. Every primary health partner who receives any of the above payments agrees to a) partner with a self-pay person who wants to have a primary health partner and b) provide primary care and coordinated care to the person at no additional charge beyond normal charges.
5. Every primary health partner who receives any of the above payments agrees, to make all reasonable effort to use the best available, evidence-based health support consistent with the needs of the person receiving health support. Every other health support is strongly encouraged to make all reasonable effort to use the best available, evidence-based health support consistent with the needs of the person receiving it.
6. Every primary health partner who agrees to be a primary health support partner and effectively use a fully functional electronic health record system (EHR) receives a fully functional EHR, including hardware, software, training, and installation. Operating, updating and replacement costs are the responsibility of the primary health partner. A fully functional EHR must be certified and meet functional, data and exchange standards, provide clinical decision support, be able to exchange information with other

providers, and include full information and tools important to effective and efficient primary and coordinated care. The cost is either funded by the country's national and/or state government or is proportionately funded by the respective third party, public and private payers. Every other provider is encouraged to use a fully functional EHR (as above) that includes full information and tools important to effective, efficient, and coordinated care. Payers are encouraged to help with the EHR funding for these providers as well.

7. Every health support is expected to effectively and efficiently share the information that supports a person's health and health support and is consistent with the person's preferences and consents.
8. Organizations and individuals working to improve health and health support quality, and the country's government and other third-party payers partner to provide all providers with the latest information on how to ensure accessibility and affordability, provide effective and efficient health support, and improve and sustain health.
9. Using the best available means, providers and other public and private organizations and individuals should support persons by adopting "person-centered health" that organizes health support around the person and helps a person stay healthy, get better, live reasonably well with illness or disability, and cope with the end of life.
10. Public health agencies, other public organizations, and private sector health organizations should partner to build healthy communities as necessary to building healthy countries and world. All levels of government and private sector, should partner to appropriately resource, design and implement these efforts to ensure accessibility, affordability and quality and to improve and sustain health for all people.

For all the reasons noted, **Healthy Partners** may well be the best primary health model. It may well be the model on which we should focus our support. It may well be the model on which we should bet our payers' support and money. It may well be the model on which we should bet our health support's support. It may well be the model on which we should bet our, our families, our friends, and our community's health. It may well be

the model on which we should bet our achieving healthy people and a health and thriving future.

Care Coordination.

Care Coordination is best used to optimize (improve and sustain) health of a person or persons who have multiple health-related issues and multiple sources of health support that affect health status. The more health-related issues and the more complex the person's health-related situation, the more valuable is the Care Coordinator. It is helpful for persons receiving care from more than one health support (e.g. primary care provider(s), specialty care provider(s)), in more than one setting (e.g. clinic, hospital, nursing home, assisted living, home care), and/or involving more than one health related factor¹⁰ (e.g. performance, finances, nourishment, housing, security, education, illness or injury, development, habitat, other vulnerability). It is not intended to help manage what is primarily a single health condition by a single health provider in a single setting with only one health-related issue. The only exclusionary criteria are that and that the person does not want care coordination. It is best done by a high-quality professional (e.g. physician, nurse, health social worker, physician assistant) who can effectively partner with a person and a person's health support and has a high commitment to optimizing person-centered health.

An effective Care Coordinator partners with the person and the person's health support to optimize a person's health. To accomplish this, the Care Coordinator listens to, observes, and learns about the person and what needs to be done to optimize health. This involves connecting with the person's relevant health support and gathering the necessary information from them and the person's health record(s). With the necessary information and collaboratively, the Care Coordinator develops the appropriate strategy and actions that will best optimize the person's health. Actions are then taken in partnership with the person and the person's health support. The Care Coordinator periodically reviews progress, strategy and actions and make the necessary adjustments in concert with the person and the person's health support. Together, the Care Coordinator,

¹⁰ Health-related factors: performing poorly or badly, being poor (financially), being poorly nourished, being poorly housed, being poorly protected (exposures, crime), being poorly educated, being physically or mentally ill (people), growing and developing poorly or badly, living within poor or bad habitat, being excessively vulnerable, not being sustained.

the person, and the person's health support can and should best optimize the person's health.

Care Coordination is not a new concept. In some ways, it dates to the early days of health care when a health provider in small communities knew and acted upon a person's total health-related situation. It was understood that the chances of a person being healthy decreases when multiple health-related issues interfere with a person's health. One later example was an inner-city health system in Milwaukee (WI) in the late 1970s that created care coordinators (primarily nurses and social workers) to partner with and coordinate the care of higher risk persons who needed and received health support from multiple health-related providers (including preventive health, primary care, specialty care, hospital care, public health, dental, mental health, social services and financial assistance).¹¹

In today's complex health world, Care Coordinators have an especially valuable role to play and have more information and better tools to help them and the person and the health support they support. Today, person and health support behavior are playing a more critical role and require Care Coordinators and health support who understand and support a person's behavior that will best optimize health. Care Coordinators are essential to optimizing personal health for persons with multiple health related issues. To best optimize personal health, it is essential that effective Care Coordinators are in place and are strongly supported by the health organizations for whom they work.

Care in the Community.

In America today, much of what impacts health occurs outside the direct health support system. This includes the impact of self-care, personal behavior, and the environment. Further, four forces are changing how we support health for Americans. First, more and more care is being provided in non-hospital settings for a number of reasons. Second, eHealth is developing quickly as a means to extend health support outside of and with health support facilities. Third, personal involvement in and control over health is increasing as people understand a) the impact of personal health behavior and health environment on health status and b) the tools and information available to help improve health status. Fourth, given that sustaining and improving health is increasingly about chronic illnesses and

¹¹ This inner city system was developed and directed by the author.

behavior change, the need for a continuing “partnership” between people and their health support is growing. With this developing future, what we are choosing to call “care in the community” offers a model for improving the use of scarce health resources and for improving personal health.

The purpose and desired outcome of this effort is to help improve health status via the enhanced system of care that makes use of effective “care in the community” and “personal health systems/records”, such as the concept of a “My HealthePeople.”¹²

Potential “Care in the Community” Model. What is the model? How might it function to improve health? Care in the Community is built on the principle that the person is the center of the “health universe.” All health support should be person-centered and be coordinated to improve their personal health and the health of those in their own “personal community.” It recognizes and addresses that a person’s health status and needs change over time as people move through periods of wellness, acute episodes and chronic illness and disability. A person may be experiencing both acute and chronic illnesses at the same time. A person may be relatively well and, at the same time, have a well-managed chronic illness. A person may have a disability and still be functioning well due to prosthetics use or other care. Care in the community seeks to support the whole person and their own “personal network” and the full scope of needs over time. Care in the community builds upon clinic and hospital resources, enhances them with care outside those care settings, helps bring all health resources together and coordinates care in a person-centered way and with an effective partnership between the person and their health support.

¹² “My HealthePeople” is a concept (developed by the author with the help of others at the Veterans Health Administration) for an electronic personal health system that a) is owned and controlled by the person, b) serves as a web portal, and c) enables coordination of care, trusted health information access, electronic health record access and sharing, transactions, messaging among persons and health support, and eHealth program health support (e.g., moderated discussions, chronic disease management and monitoring, risk reduction)

In terms of a model for such a “care in the community” system, one model for building a system is person centered incorporating a) direct interactions with one or more health support and b) utilization of a personal health system (e.g., like the concept of a My HealthePeople) for self-care and shared care management with one or more health support. (See Figure 3.3. “Person Centered View of “Care in the Community” including “My HealthePeople”)

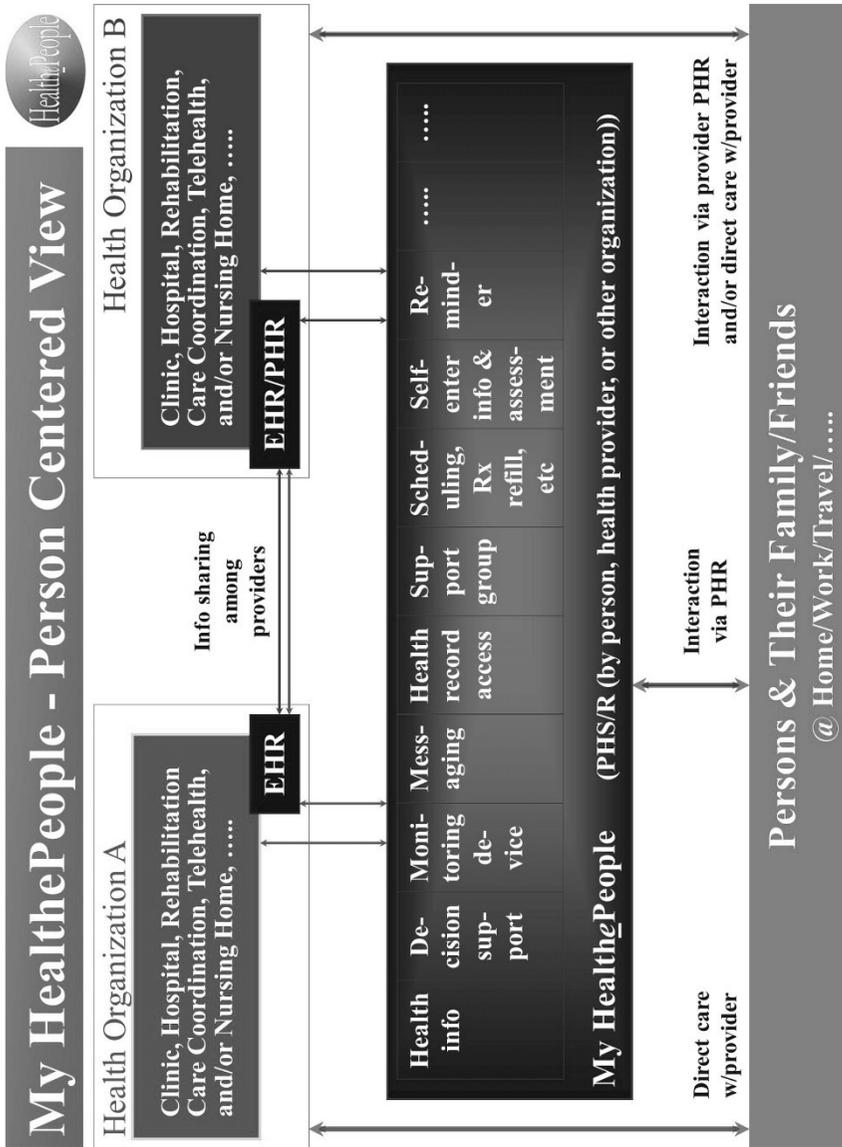


Figure 3.3. “Person Centered View of “Care in the Community” including “My HealthePeople”

Potential “Care in the Community” Supportive Services. This model can help improve self and shared care and brings to bear, via a My HealthPeople type personal health system, a wide range of supportive services, including health record access, self-entered health information, messaging between health support and person, trusted eHealth information, automated eHealth program transactions, and eHealth program support (electronic health services targeted at managing and improving health). A personal health system could potentially support the person and coordinate care in the following ways:

- Health Record
 - Access part of or whole electronic health record
 - Self-enter personal health information
 - Share person’s electronic health record among health providers
 - Share persons’ electronic health record w/ family or “delegate”
- Messaging (with health provider)
 - (See Health Support” services for additional “messaging” opportunities)
- eHealth Program Information
 - Receive trusted information via access to website
 - Receive trusted information via health provider programs and facilities
 - Access links to health-related sites
- Automated eHealth transactions
 - Check and/or fill prescriptions
 - Check, confirm and /or make appointments
 - Check co-payments; make co-payments
 - Register for benefits and/or care; communicate change in registration status
- eHealth Program Support
 - Coordination of care
 - Self-assess health (e.g. self-monitoring; identify health problems)

- Access basic “diagnostic/therapeutic” tools appropriate for self-management
- Monitor health (e.g. report blood pressure, glucose, pain, weight, wounds)
- Participate in sponsored support or discussion groups
- Receive health behavior reinforcement (e.g. reduce smoking and alcohol use)
- Have telehealth consult with health provider
- Access safety services (e.g. drug-drug interaction checks)
- Receive electronic reminders (e.g. taking pills on time; upcoming appointments)
- Use “check in”, for those living alone and at risk, to report they are “okay”
- Bi-directional question/answer between providers and persons
- Receive notification of non-sensitive test results
- Track progress on treatment

Potential “Care in the Community” Impact on Health and Health Care. In envisioning the results of this effort, the “care in the community” strategy substantially changes how we support health. Under this strategy, we move to a person and population centered health system. We create a partnership between people and their health support. We enhance self and shared care already being done. We strengthen and expand care provided in the community. We tightly coordinate and integrate care in health care facilities with care outside health care facilities. And, we use eHealth personal health systems (e.g., like My Health_ePeople) that includes records, messaging, transactions, information, and services to support and tie together the full range of care.

Care in the community lends support to optimizing health, abilities and satisfaction of the people targeted by the strategy. It moves from a reactive “safety net” mode into a proactive “intervene early” and “keeping people healthy” mode. It supports targeted interventions to specific populations (an “enrolled” population, people who are relatively well, people with acute episodes, people with chronic illnesses and people with severe chronic illness and/or disability). Through mass personalization of eHealth, it supports targeted interventions to specific individuals based on their individual needs and preferences. For organizations that see themselves as

taking responsibility for the health of their population (a “public health” perspective), “care in the community” helps. For organizations that are trying to get more benefit for the same dollars, it can help stretch those dollars further. For those trying to use all the available care settings to their best advantage, care in the community adds settings. Care in the community also can help health support organizations better use best practices and more ideal systems. It also brings to bear a more optimal use of health and information technologies to improve people’s health.

Health Environment.

Moving outside the health care system and formal community programs, there are many influential factors and much potential health support outside the traditional health care system. The “health environment” plays a major role in health outcomes and health status and in how the traditional health support system impacts outcomes and status. It plays key roles in a person-centered health system.

As alluded to earlier, it starts with the people who surround the person, the human factors. These are the people with whom the person spends the greatest proportion of her/his time. The family, at many points in the person’s life, impacts health positively and negatively. It can be a source of positive health influences (e.g. positive reinforcement of positive health behaviors) and it can be a source of negative influences (e.g. poor food choices, stress). The same is true for friends, co-workers, and neighbors. A person-centered health system recognizes the importance of all these people to the person’s health, takes these influences into account, and works to reduce the impact of negative influences and engage the positive influences.

With respect to the family, there are historical influences. Family history - the influences being behavioral, environmental, and genetic - plays a major role in the person’s health. These influences are critical to understanding the person’s health, why it is what it is, and how to positively change it. Research continues on the influence of genetic factors and on what interventions can harness the positive factors and reduce the negative factors.

Beyond the family, there are many other environmental factors – home exposures, work exposures, school exposures and community exposures. Some are historical. Some are current or future. To improve health requires

understanding these exposures, their impact on the person's health, and their potential for positively or negatively impacting health.

Outside self-care and outside the formal health support system are non-health-care community resources. These have many forms and differing value. Some resources are not-for-profit and some are for-profit. Some are relatively informal and some are formal. Some do evidence-based interventions; some do not. Some are trustworthy and some are not. Some are tied to specific illnesses or injuries (e.g. cancer, Alzheimer's); some are non-health related affinity groups (e.g. senior citizens, religious groups, co-workers). Many of these have health impacts, some negative and some positive. A person-centered health system trying to improve health takes them into account and helps to minimize the negative impacts and maximize the positive impacts.

These environmental factors (outside the person and outside of the formal health support system) are built into a person-centered health system and its efforts to improve health outcomes and status. Failing to address these factors reduces the probability of improving the person's health.

Dynamic, Interactive System.

If all of this was static and independent, it would be challenging enough. But it is not. The system is dynamic because the locations for health interventions change. It is dynamic because the person changes in many, many respects. It is dynamic because the people providing health support change. It is dynamic because time comes into play as events unfold for the person and, her/his "health system" and "health environment". Beyond being dynamic, it is interactive where influences are interacting with each other to change how they impact the person and her/his health.

Understanding that this is the reality gives the person and his/her health support a better understanding of why some interventions work better than others and why interventions need to be dynamic and interactive.

Virtual Health System.

Wrapping around this health system and the other health and non-health systems is the eHealth capability to make it a "virtual health system", bringing together all parts of the formal and informal health system. Part the responsibility for the virtual health system lies with each particular health system and part of this responsibility lies with other parties outside

the particular health system. A strong virtual health system “connects the dots” and provides a wide range of support to the person, his/her clinicians and community health support both within a particular health system and across health systems. A person-centered, virtual health system “breaks down the walls” and enables the person and his/her health support to better bring to bear the full health resources appropriately, affordably, anytime, anyplace and in real time.

Today, four forces are changing how we support health. First, more and more care is being provided in non-clinic and non-hospital settings for a number of reasons. Much of this care focuses more on the person and his/her community. Second, eHealth is developing quickly as a means to extend health support within and outside of health support facilities. Third, personal involvement in and control over health is increasing as people understand a) the impact of personal health behavior and health environment on health status and b) the tools and information available to help improve health status. Fourth, given that sustaining and improving health is increasingly about chronic illnesses and behavioral change, the need for a continuing, effective “partnership” between the person and her/his health support is growing. With this developing future, what we are choosing to call “person-centered health” offers a model for improving the use of scarce health resources and for improving health outcomes and status.



Chapter 4. HealthePeople[®] - Achieving Healthy People and Communities Via Healthy Behavior

Ideal Health Systems for Healthy Behavior - Person-Centered, Affordable, Accessible, Quality, Outcomes-Driven Health Systems

If we want to achieve healthy people, we have a very big problem receiving very little attention. It is the one thing that could best improve health, health support and health reform. It is the one thing that the health world knows and does the least about. What is it? People's behavior. This can change. This must change.

Why must we make this change? Our inability and unwillingness to deal with people's behavior means we waste more money, keep health support more inaccessible and unaffordable, deliver less high-quality care, and fail to adequately improve health.

Healthy Behavior

When we smoke or eat unhealthy foods, do not get needed vaccinations, do act to prevent illness or injury, go to an emergency room when a physician's office is more appropriate, or don't manage a chronic condition well, we hurt ourselves and we hurt everyone else. When a physician orders the wrong or too many tests, makes the wrong diagnosis, prescribes

a treatment less effective than other treatments, or fails to follow-up on a treatment's outcome, the treated person is hurt and so is everyone else. When a major health reform effort fails to understand the problem and the role of people's behavior, designs and legislates less effective programs that do not address behavior, and fails to manage a program effectively because of how people actually behave in the real world, everyone is harmed.

How can we make this change? We address the behaviors of each person, hundreds and thousands of people, and billions of people, such as how healthy they live their lives, when and where they use health support, how well they "partner" with their health support, and how well they follow treatments.

We address health support behaviors, such as how they train and continue to learn, how well they "partner" with people needing care, how well they collect information, diagnose, treat and follow-through, and how well they "partner" with other health support caring for a person.

We address health policymaker, program manager and health care manager behaviors, such as learning about the population and people's behavior in that population, building people's health support behavior into those systems, designing programs and policies that take into account behavior, helping people and health support achieve more successful behavior, and learning about and designing more effective systems for improving health.

Today we have the necessary behavioral and systems knowledge, models, tools and strategies. They will get even better over time. We know how to apply them to individual people and sources of health support, to their partnerships and to community, state and country policymakers and managers. We just need to start using them. We need to use them across the full spectrum of health and health support. We need to apply them at the individual level and at the community, country, and world level.

Consider just one current issue –health reform anywhere in the world. By applying behavioral and systems models, strategies, and tools, we can greatly improve our understanding of our current health systems and the need for their transformation. We can better understand people's behavior in that system and how to improve that behavior in a transformed health system. We can better design, legislate and manage a transformed and healthy system. We can create and sustain effective health systems that are affordable, are accessible, are high quality and, most importantly, substantially improve the health of all people.

Behavior Effectiveness Model (BEM) for Healthy Behavior ¹³

Much of the ineffectiveness of achieving healthy behaviors and building a better and preferably a healthy future can be traced to the inability and often lack of motivation to deal positively with human behavior. Traditionally, people trying to effect positive change (e.g., building a better and healthy future) are not sufficiently capable of or motivated toward dealing with human behavior. Effective dealing with human behavior is a critical skill that can be acquired and is enhanced through experience. People can achieve healthy behavior by learning to use behavioral skills and by using experience to increase effectiveness.

Building a healthy future, in part, can be measured in terms of human behavior. For example, we refer to the person's lack of ability or lack of motivation to do some behavior. When a community wants to achieve some positive change and outcome, people must be able (e.g., have sufficient funding, have no legal restrictions, have requisite knowledge and skills) and motivated (e.g., see it as desirable, see it filling a need). For a community, country and world, implementers of change must be able and motivated to accept and execute the change. Implementers must see the change as effective in achieving personal and/or community, country, and world outcomes. We need to better assist and/or affect decisions and actions and better design and evaluate change strategies in terms of behavior requirements.

When we wish to understand, assist and/or affect the person's or persons' behavior in a specific decision or action or over a series of decisions or actions, we need a "handle" which identifies discrete determinants of behavior and provides a model which indicates how these determinants affect near and long-term behavior.

One such model, the Behavior Effectiveness Model (BEM), assumes that behavior determinants can be identified for behavior objectives and provides more effective models and tools for achieving behavior objectives.

BEM's value lies in 1) being relatively parsimonious, 2) incorporating key aspects of other behavioral models, 3) being "computable" (i.e., it can use databases (personal and environmental characteristics, desired behaviors

¹³ For more on the BEM, see **Behavior Effectiveness Model** book available via [Amazon.com](https://www.amazon.com) or [ThriveEndeavor.org](https://www.thriveendeavor.org) In other publications, this is referred to as the Behavioral Effectiveness Model.

and tailored interventions)), 4) tailoring applicability to more than one person simultaneously by using individual characteristics and desired behavior(s) and 5) using evidence-based interventions that can be tailored to those characteristics and the desired healthy behavior.

How does it work? As shown in the following table (“Behavior Effectiveness Model (BEM) – Improving Healthy Behavior”), BEM is designed to 1) apply interventions that help achieve the desired target healthy behavior, 2) learn more about the person or population involved, 3) learn more about interventions and 4) learn more about the “system” in which intervention are used. It can also be used for prediction, analysis and program development and evaluation. The model can be applied to 1) an individual person, 2) populations whose characteristics are sufficiently the same, and/or 3) populations of individuals for which each individual gets a personalized and tailored intervention. The model can be linked to a database so that it can use and produce information and support personalized and tailored interventions:

- For any number of individuals and over any period of time
- For one-time behavior(s) and behavior(s) over time
- For change in a single behavior and multiple behaviors.

Table. “Behavior Effectiveness Model (BEM)” – Improving Healthy Behavior

BEM use for achieving desired behavior is as follows:

1. Identify the person or population whose behavior is targeted.
2. Decide what is the desired behavior or behaviors. Note that some behavior is one-time and some is recurring.
3. Assess motivation in terms of its current and future characteristics.
4. Assess ability in terms of its current and future characteristics.
5. Assess environmental variables, both controllable and uncontrollable and both perceived and real.
6. Assess how motivation, ability and environmental variables are likely to affect future behavior without further intervention.
7. Assess what are likely to be the intrinsic (internal to the person or population) and extrinsic (external to the person or population)

consequences of projected behavior and what is likely to be the person or population's satisfaction.

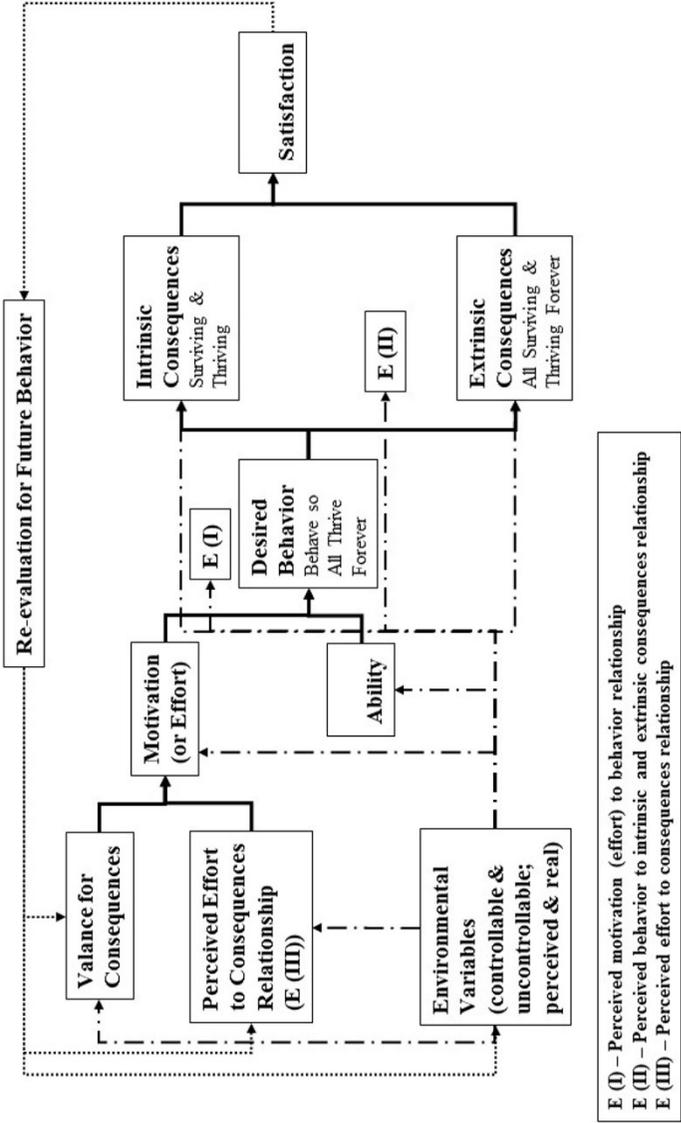
8. Assess how consequences and satisfaction are likely to affect future behavior
 9. Assess how projected behavior, without further intervention, matches to desired behavior.
 10. Assess what interventions will best move projected behavior to desired behavior for the near and long term.
 11. Apply the interventions and assess their effect.
 12. Adjust the interventions as needed over time and based on result.
 13. Feed the interventions into overall strategy and supporting strategies.
-

BEM has several elements that operate as inputs to or outputs from the intervention models used and can help change behavior. (See Figure 4.1. Behavior Effectiveness Model (BEM) (Christopherson, 1974, 2015).” The elements include the following:

- 1) Valence (value) of consequences is how the person(s) values the consequences that the person may or will face. They may be intrinsic (internal to person(s)) or extrinsic (external to person(s)).
- 2) Expectancy III (E (III)) is the person's or persons' perception (or the actual projected) probability that the person's or persons' effort will result in each consequence.
- 3) Motivation (effort) is what the person(s) is expected to try to do (that is, try to do the behavior) and is calculated using the “valence of consequences” and E (III) above.
- 4) Ability is the person's or persons' capability to do the behavior. Any ability that is essential to the behavior and is at low levels means that the person(s) is unlikely to be able to do the behavior even if other less essential ability factors are high.
- 5) Behavior is the desired behavior to achieve the desired vulnerability/thriving outcome. Behavior probability is calculated using motivation and ability probabilities.

- 6) Consequences are the expected results of effort to do the behavior or the behavior itself. Valence is modified to reflect the actual valence when the consequence occurred.
- 7) Expectancy I (E (I)) is the person's or persons' perception (or the actual projected) probability that the person's or persons' effort will result in desired behavior.
- 8) Expectancy II (E (II)) is the person's or persons' perception (or the actual projected) probability that the person's or persons' behavior will result in intrinsic and/or extrinsic consequences.
- 9) Satisfaction is the person's or persons' level and direction (positive/negative) of satisfaction with what happens, especially as compared to expectations. It is especially key when the behavior is recurring or when a future behavior is related.
- 10) Environmental factors (EF) are those outside influences affecting motivation and ability and may be current or projected. They include program interventions to improve probability of desired behavior initially and over time. They may be controllable or uncontrollable and may be real and/or perceived. They are factors outside the factors in the model. Environmental factors can impact the model at several points as noted by the "EF" arrows depicted in the model figure above.

Thrive! - Using "BEM Model"



Based on Behavioral Effectiveness Model (BEM), Gary Christopherson, 1974, 2004, 2015, 2016

Figure 4.1. "Behavior Effectiveness Model (BEM) (Christopherson, 2015)."

There are several outputs provided by the model that predict what will happen initially and over time, including:

- Ability -- Given the person's or persons' own abilities and the impacting environmental factors (factors that negatively and/or positively impact the person's or persons' ability), how able is the person(s) to do the desired healthy behavior?
- Motivation -- Given how the potential consequences are valued and how effort is expected to result in consequences, what is motivation direction at what intensity?
- Behavior -- Given motivation, ability, consequences, and expectations, what is the expected health behavior, its likelihood, its intensity, and its direction?
- "Pre" Satisfaction -- Given expectations, motivation, ability, health behavior and consequences, what is the expected satisfaction?
- "Post" Satisfaction -- Given what health behavior and consequences actually happened, what is the actual satisfaction and what is its implication for subsequent behavior?

BEM, as noted below, is designed and used here to 1) apply interventions that help achieve the desired target healthy behavior, 2) learn more about the person(s) involved, 3) learn more about the intervention itself and 4) learn more about the "system" in which the intervention is used. Examples of the potential uses include:

- Impact behavior
 - Analyze current behavior and the factors that impact that behavior
 - Predict future behavior and the factors that impact that behavior
 - Support interventions that impact behavior and incorporate the factors that impact behavior
- Learn more about the person(s).
 - Information on ability and motivation.
 - Information that was initially incomplete or inaccurate.
 - Information that changes over time due to changes from the intervention, from the environment independently, and/or from the person independently.

- Learn more about the intervention.
 - On what individual person(s) does the intervention work and not work and what degrees in between (works X% of the time; produces Y% of the desired result)?
 - How can the intervention best be targeted for use by/with different individual persons?
 - How does the intervention need to be changed to match changes in individual persons?
 - How can the intervention be improved generally and for individual persons based on lessons learned?
- Learn more about the system in which the model is being used and the environment in which it and its persons operate.

BEM can be and is used here used for prediction, analysis, and program development, including:

- It can be used as a predictive model for motivation/effort, health behavior and satisfaction.
 - The person's or persons' characteristics (valence or value of potential consequences; expectations that effort will lead to specific consequences; cognitive and physical ability) are entered into the model and predicted results (expected level of motivation/ effort, expected behavior and expected level of satisfaction) are processed through the model.
 - The model also can utilize environmental factors that influence any the person's or persons' characteristics. The model also can then use the predicted results and environmental factors to predict subsequent effort, behavior and satisfaction.
- It can be used and is used here as an analytic model to better understand what is working and not working, why, and what changes are needed.
 - If there is a lack of motivation, the model can help work through the perceived consequences, the perceived linkages of effort to those consequences and provide options for what needs to be changed.
 - If the desired health behavior is not occurring, the model helps work through what factors (e.g., persons' or

persons' ability, their expectations about consequences, their general motivation, their satisfaction with previous efforts with an intervention, the effects of environmental factors) need to be changed.

- If the desired satisfaction is not achieved, the model can help work through why not and provide options for what needs to be changed.
- It can be used and is used here for program development to develop or modify a program intervention for particular individuals and/or generally.
 - Based on the person's or persons' characteristics and the desired health behavior, the program intervention can be designed or modified to improve likelihood of successfully achieving the desired health behavior. For some persons, the focus might be on ability, motivation or both.

The model can be applied and is applied here to 1) an individual, 2) persons or populations whose characteristics are sufficiently the same, and/or 3) persons or populations of individuals for which each individual gets a personalized/customized/tailored intervention.

The model can be linked to a database so that it can produce information and support personalized/customized/tailored interventions:

- For any number of persons and over any period of time
- For one-time behaviors and behavior over time
- For change in a single behavior and multiple behaviors.

How has it been used and helped? BEM's primary use to date has been for improving health. Its earliest use was in the middle 1970's, helping develop a high blood pressure control program in Milwaukee, Wisconsin. The desired behavior was adherence to methods for controlling high blood pressure. These methods could be medication use and/or life style change (e.g., diet, exercise, stress reduction). Through use of BEM, the program was better able to get people to get their blood pressures checked and controlled and to determine the likely success of particular methods with a specific person and with persons with similar characteristics. The blood pressure control program was seen as a national model for community blood pressure control.

Person Model. The Person Model helps us to understand that each person goes through several life stages depending on how long they live and how that impacts behavior. If status (e.g. health) is to be improved, it is seldom a one-time intervention and generally should be done across the life span. As a result, the Person Model works by applying BEM over an individual person’s time and life stages. (See Figure 4.2. “Person Model” – Applying BEM Over Each Person’s Time and Life Stages.)

The Person Model, with BEM as the underlying model, recognizes that each person is different at the beginning, throughout the life stages, and near the end. For health status to be improved, the strategy needs to be both specific to each person across the life span and effective for all persons across the life span. (See following table “Person Model – Applying BEM Over Each Person’s Time and Life Stages”)

Table. “Person Model – Applying BEM Over Each Person’s Time and Life Stages”

The Person Model use for achieving desired behavior is as follows:

1. Identify the person, persons, or population whose behavior is targeted.
2. Decide what is the time frame or life stage(s) to be addressed. The preferred time frame is the whole life.
3. Decide what is the desired behavior or behaviors over time and through life stages.
4. Apply BEM as a recurring model (running the model as many times as necessary) adjusting to changes in motivation, ability, and environmental variables.
5. Assess what interventions will best move projected behavior to desired behavior for the covered time and life stage(s).
6. Apply the interventions and assess their effect on an ongoing basis.
7. Adjust the interventions as needed over time and based on result.
8. Feed the interventions into the overall strategy and supporting strategies.

The model has been used to design the **HealthPeople** strategy to improve health and health care across America. The same design has applicability in a person, communities, countries, and world.

At the Centers for Medicare and Medicaid Services (CMS), the model was used in 2005 to enhance the overall strategy for national quality improvement for health care. The desired behavior was of effective health support over time. The model helped identify what target health support personnel behaviors, on an ongoing basis, could produce the best health outcomes. Based on that, an approach was laid out using current and new interventions to improve health support behavior in a way that would produce improved outcomes and health status for the foreseeable future and over the health care providers' careers (life stages). These interventions were used to improve the overall quality improvement program for CMS. It was also used at the Centers for Medicare and Medicaid Services to help with the draft strategic and operational plan.

The model was used in the early 2000s to create a new model called "person-centered health". The Person-Centered Health Model has been used to refine the programs of the Veterans Health Administration, including overall care, care in the community and the VHA health information system (electronic health record and personal health record systems).

Population Model. The Population Model addresses health status from the perspective of what is happening at any point in time and the effect on a diverse or non-diverse population. BEM is the underlying model for adjusting strategy to address points in time across persons and their life stages. This model also applies to other differences (e.g., racial, ethnic, income, vulnerability) in the target population (See Figure 4.3. "Population Model – Applying BEM at a Point in Time across Persons and Their Life Stages.")

The Population Model, with BEM as the underlying model, recognizes that strategy, at any point in time, must be both specific to each applicable person across the life span and effective across all persons across the life span. (See Table. "Population Model – Applying BEM at a Point in Time across Persons and Their Life Stages.") Taking a time slice, the model recognizes that at any specific time, the target population likely includes persons from all different stages of life (pre-birth, birth, child, adolescent, early adult, middle adult and senior adult). At that time, each person has different status levels, different factors affecting status, and different

responses to efforts at improving status. This can be seen in how major disasters (e.g., tsunamis, earthquakes, disease outbreaks, crop failures, and drought) affect people differently. This can be seen in how program interventions (e.g., health) affect people differently.

Table. Population Model – Applying BEM at a Point in Time across Persons and Their Life Stages

The Population Model use for achieving desired behavior is as follows:

1. Identify the population whose behavior is targeted.
 2. Decide what are the point(s) in time and life stage(s) to be addressed.
 3. Decide what is the desired behavior or behaviors at different points in time across persons and their life stages.
 4. Apply the BEM model across time and across populations and their life stages taking into account their differing motivation, ability and environmental variables.
 5. Assess what interventions will best move projected behavior to desired behavior across time and across populations and their life stages.
 6. Apply the interventions and assess their effect on a population on an ongoing basis.
 7. Adjust the interventions as needed over time and based on result.
 8. Feed the interventions into the overall strategy and supporting strategies.
-

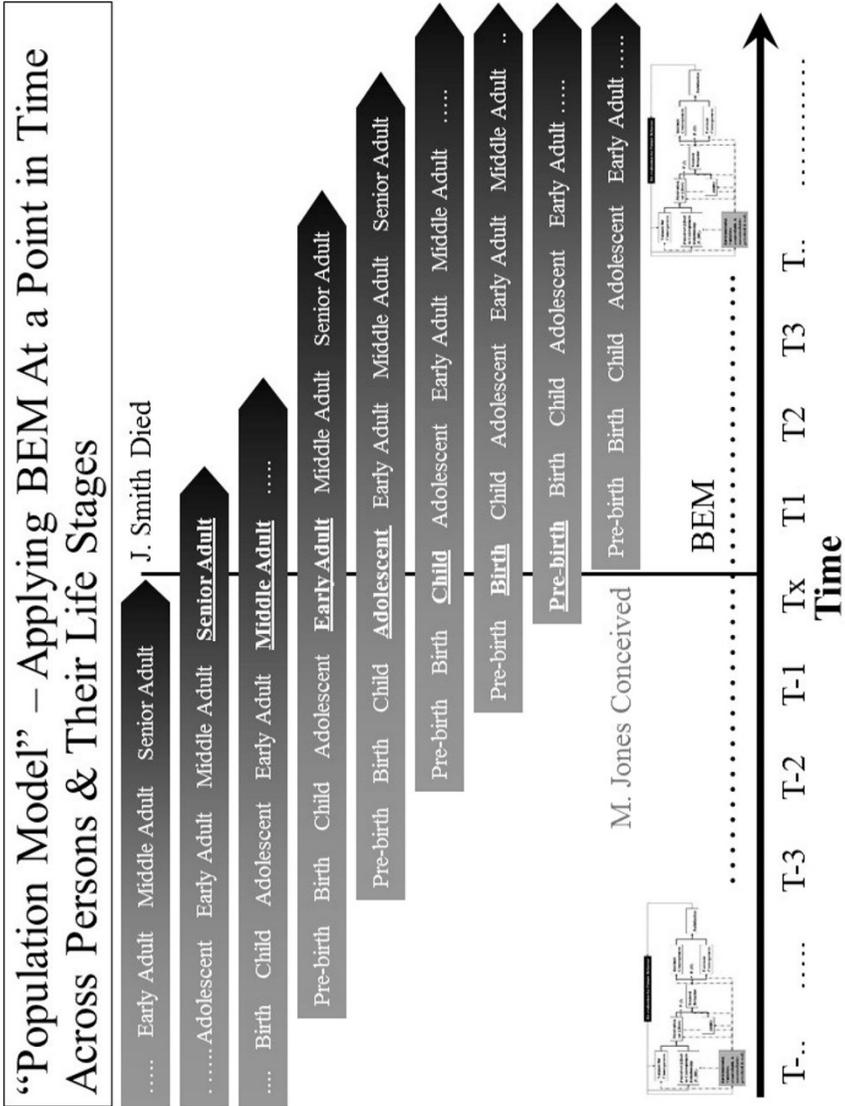


Figure 4.3. “Population Model – Applying BEM at a Point in Time across Persons and Their Life Stages.”

At the Centers for Medicare and Medicaid Services (CMS), the model was used in 2006 to design the draft CMS Strategic and Operational Plan for 2007-12. It was used to address CMS's disparate beneficiary population and the timing and design of program interventions. The plan was designed to address the needs of both younger and older Medicaid beneficiaries, beneficiaries with disabilities, and healthier and severely ill Medicare beneficiaries. It also addressed the populations that are pre-Medicaid and pre-Medicare. The plan recognized that over time, these populations change as new age cohorts moved into the program. These Population Model interventions were then used to develop the draft overall Strategic and Operational Plan for CMS.

For the DoD Military Health System (MHS), the model was used in the 1990s to work with pre-military, active service, Guard and Reserve, veterans, retirees and their families. All are the responsibility of the MHS. Key points in time greatly affect how the health programs work and their effect. Earlier wars (and their effects) such as the two World Wars and the Korean War are very different than the Vietnam War than the first Iraq War, as well as the second Iraq War and then the Afghanistan operations. They are all likely to be different than future wars and other military actions. All of these factors were built into the overall strategy for the future Military Health System that was re-engineered to improve performance, enhanced with a force health protection program, and was made more flexible to adjust to different futures.

The model has also been used to design a **Health~~g~~People** strategy to improve health and health care across America. The same design has applicability in communities, countries, and world.

When we successfully build people's behavior into our health support and health reform models, we will more successfully deliver high quality health support producing better health outcomes, design and implement health reform and transformation, and improve people's health status. Further, we will greatly reduce waste, improve access, and produce better outcomes. Importantly, we will have a healthier, more effective, and sustainable health systems. More importantly, we will have healthier people. Most importantly, we have the means to have healthy people in our communities, our countries and our world.



Chapter 5. HealthePeople® - Achieving Healthy People and Communities¹⁴

Ideal Community Health Systems - Person-Centered, Affordable, Accessible, Quality, Outcomes-Driven Community Health Systems

In every community, we face major challenges and disappointments in achieving healthy people and healthy communities. Without a large change in health vision, strategy and execution, our future will be as disappointing as our past. To positively change that future, HealthePeople is a strategy whose near-term vision is to achieve substantially healthier people and substantially healthier communities. The long-term vision is to achieve healthy, thriving people and healthy, thriving communities. This HealthePeople strategy was created with the belief that we can reach this vision via an endgame strategy of high performance, health systems for every community that is self-perpetuating, affordable, accessible, “e” enabled, person-centered, prevention-oriented, and producing high health quality, outcomes, and status. Such systems, partly physical and partly virtual and put into place by collaborative private and public partnerships, will greatly improve accessibility, quality, affordability, and health status for every community. Such systems can help achieve healthy people and healthy, thriving communities.

¹⁴ Note the chapters on the world, countries and communities have some redundancy. Each chapter stands on its own when combined with the chapter on person-centered health.

Rationale.

Today in almost every community worldwide, we are spending a substantial portion of the community's economy on health without producing healthy people or a healthy community. Without a large change in health vision, strategy and execution, every person and every community's future will be as disappointing as in the past.

We still do not have and are not on the track to achieve the community health systems we need. While much good work has been done on the issue of a high-performance health system by organizations like the Commonwealth Fund, there is still not a clear idea of what should be the ideal community health system that will achieve healthy people and health communities.¹⁵

HealthPeople is an attempt to describe such a health system. The characteristics of ideal community health systems are suggested. The design of an ideal health system is suggested as it might apply to a "community". Key is to have a system that is desirable to people, ensures affordability, quality and accessibility, and achieves healthy people and a healthy community.

When achieving healthy people and communities, every community today has much to offer on both how to do it and how not to do it. Communities in America are important examples of both and provide useful lessons for every community wanting to achieve healthy people and a healthy community.

Some American communities are well thought of when it comes to specialty and super-specialty diagnostics and treatment for a single condition. Beyond that, their reputation for best health support is mixed.

There is and should be little disagreement over the need for every community to have a substantially better health system. None of the key indicators – health status, accessibility, quality, affordability – are at acceptable levels for communities spending substantial amounts of their economy on health.

- **Accessibility** – Every community has accessibility issues, especially in inner city and rural areas. A collaborative partnership

¹⁵ Commission on a High Performance Health System, The Commonwealth Fund, 2006-2012

of people, public and private payers, and health organizations can substantially improve access for all people.

- **Quality** – Health status and outcomes produced by every community’s health “system” are inadequate given the needs of the people and the proportion of the economy expended. Too little of our medical and health knowledge is being effectively applied to prevent and treat health problems and to ensure health support is safe. A collaborative partnership of health organizations and the people they serve can substantially improve health support quality and health outcomes for all people.
- **Affordability** – The unaffordability of health support is challenging every community and their people as individuals and families (inhibiting needed access and causing bankruptcies). These problems continue to grow. A collaborative partnership (health organizations, the people they serve, and the people and organizations who pay) can much more effectively use a community’s valuable health resources and ensure affordability.

Some communities are spending enough money. Some are spending too much for the benefit received. Some are spending too little because of choice or lack of community financial resources. In every community, we are not getting the requisite payoff in terms of health outcomes/status or satisfaction.

Guidance

HealthPeople is a community strategy guided by and aligned with the Institute of Medicine (IOM) recommendations. IOM provides a way of viewing the health system’s performance through the eyes of people themselves. IOM’s quality reports have six aims for a high performing health system. They stress it should be safe, effective, person/patient-centered, timely, efficient, and equitable. What people want from a high performing health and long-term care system is that they are “staying healthy”, “getting better”, “living well with illness or disability” and/or “coping well with the end of life.” Some people may experience more than one of these at the same time.

Utilizing their guidance, a very high performing health and long-term care system would perform well from the person’s perspective and achieve the IOM aims. As depicted in the attached table, that very highly performing

health system would “check all the boxes.” (See Figure 5.1. “U.S. Institute of Medicine Six Aims & Person’s Perspective on Health.”)

We need to recognize the following as key health drivers and use them to guide our work and measure our progress toward a healthy community:

- Maximize health status
- Maximize outcomes
- Maximize abilities
- Maximize satisfaction
- Maximize quality
- Maximize accessibility/ portability
- Maximize affordability
- Maximize patient safety (drive defects/errors to zero)
- Minimize time between disability/illness and maximized function/health (drive time to zero)
- Minimize inconvenience (drive inconvenience to zero)
- Maximize security & privacy

Third, we need to understand and successfully deal with a community’s health system complexity if we want to substantially improve health outcomes and health status for all people. The Figure below lays out the complexity gauntlet which must be successfully run. (See Figure 5.2. “Strategy for a Complex Community’s “Health” System.”) To be fully successful, we must address the people factors (population, diversity, insurance status, health factors, health-related factors) and the non-people factors (health resources, health support, health-related environmental factors). We must focus on a) affecting the actions that improve/reduce health quality to b) create a strong partnership between the person and their health support to c) improve health support quality and effective resource use those results to d) substantially improve health outcomes and status.

Institute of Medicine Six Aims & Person's Perspective on Health



Supportive of IOM principles and aims, HealthPeople supports health professionals/providers, persons/patients, and the rest of the health care system in continuing to innovate and find better ways to achieve key goals more effectively.

Person's Perspective on Health & LT Care Needs	Aims for Health & LT Care Performance/Quality					
	Safe	Effective	Person/Patient-centered	Timely	Efficient	Equitable
Staying healthy	+	+	+	+	+	+
Getting better	+	+	+	+	+	+
Living with illness or disability	+	+	+	+	+	+
Coping with the end of life	+	+	+	+	+	+

Figure 5.1. “U.S. Institute of Medicine Six Aims & Person’s Perspective on Health.”

HealthPeople
Strategy for Community's Complex "Health" System

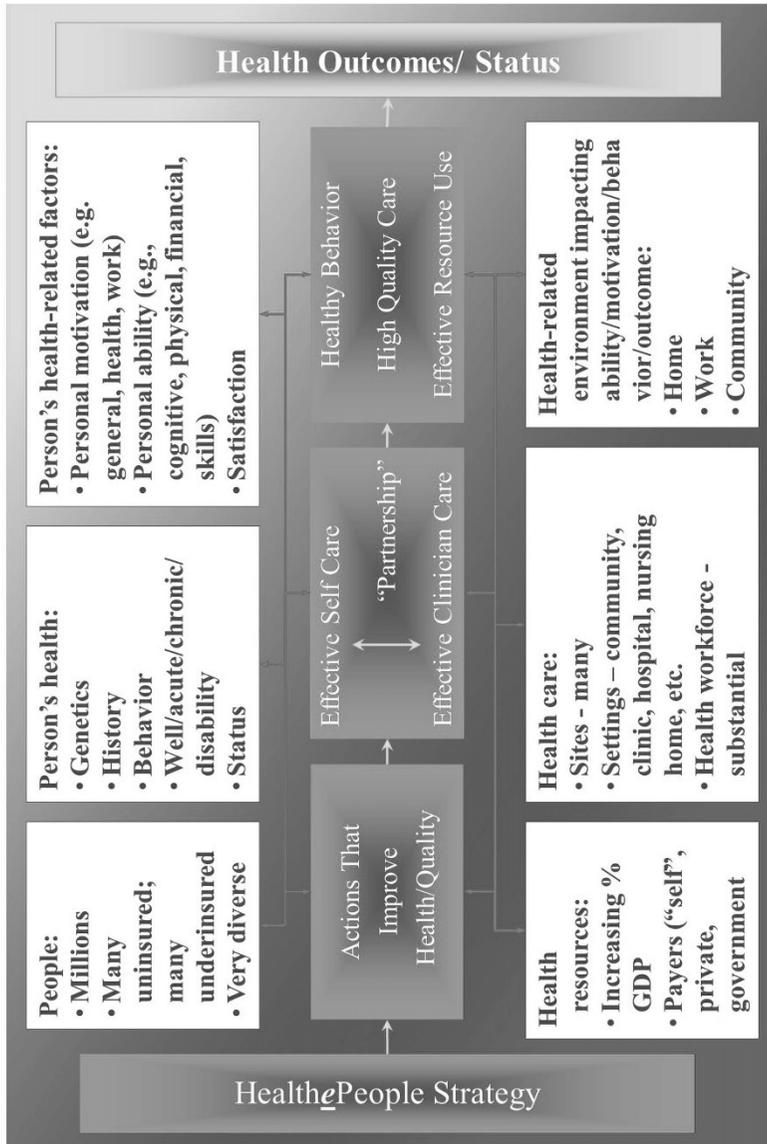


Figure 5.2 "Strategy for a Community's Complex "Health" System."

Vision, Endgame Strategy and Mission

The HealthePeople **near-term vision** – achieve substantially healthier people and a substantially healthier community - is far different than the one we can expect from our current glidepath. Much more so is the **long-term vision** - achieve healthy people and a healthy community. All current indicators and trends point to a future where access, quality and affordability continue to be unacceptable. Under a better vision and strategy with the same resource commitment, communities can achieve substantially healthier people and a substantially healthier community.

To reach this vision, the **endgame strategy** is to achieve a high performance, communitywide health and long-term care system for all people that is self-perpetuating, affordable, accessible, “e” enabled, and producing high health quality, outcomes, and status. A community’s health system should bring together and to bear the full force of people and their health support, their payers, their communities and their governments.

To reach this vision and endgame strategy, the **mission** is to create and support collaborative partnerships that help build a high performance, communitywide health and long-term care system for all people that is self-perpetuating, affordable, accessible, “e” enabled, and producing high health quality, outcomes and status. This unprecedented collaboration can achieve great progress as we have seen communities achieve historically on other national issues. HealthePeople achieves full success when a community’s health system achieves and sustains healthy people and a healthy community.

Strategy for a Healthy Community

HealthePeople is a collaborative strategy to transform to affordable, person-centered, outcomes-driven, and “e” enabled health systems that help achieve better health. Succeeding with this strategy across all health support will positively transform health support. We can use a community’s valuable health resources much more effectively, reduce vulnerability, and achieve much healthier people and a much healthier community. Within this strategy are two core elements:

- First, achieve affordable, accessible, and high quality/performance health systems. This involves more than medical interventions or traditional healthcare services. It requires a full range of health-related resources from across the community and beyond.

- Second, focus on people—consumers, patients, enrollees, and members. They are the center of the health universe and must be treated as such, forming strong partnerships between individual persons/patients and their health support.

To build out the strategy and supportive strategies, this strategy utilizes a public health intervention model designed to help increase the number of healthy people and reduce the number of vulnerable and/or unhealthy people. (See Figure 5.3. “Achieving High Level of Health/Function & Effective Resource Use – Public Health Model.”) It targets interventions that best achieve the highest level of health and function, best prevent more poor health, and best move our most vulnerable people up from poor health. The success of the interventions is measured by the degree to which we stop actions that decrease health and support actions that improve health. Success is also measured by how well the private and public sectors, including health professional leadership, “move the numbers”, i.e., substantially improve the key status indicators of health and function.

Within the model, there are interventions that improve health or make it worse. To improve health, there are the overall key strategic areas – stop those interventions/actions that make health worse support those interventions/actions that improve health. To improve health most, we need to execute a "systematic strategy" – a “system” of actions that continuously stops actions that push people down to less healthy states and supports actions that lift people out of poor health and toward being healthy. This “system” of actions, when well designed and executed, can perpetually prevent much poor health and support people moving up from poor health to being healthy.

The overall strategy is built upon a strategic improvement and behavior model for health. Using the model depicted below, we need to set the target health and functional status we are trying to achieve under the vision “healthier/healthy people”. (See Figure 5.4. “Building High Performance, Virtual Health System – Strategic Improvement and Behavior Model.”) Given the target status, we can decide on the target outcomes needed and on the target health system needed to achieve those outcomes. Comparing the optimized outcomes and health system with the current health system and its performance, we can determine the “delta”, i.e., the needed improvements in the current health system and its outcomes.

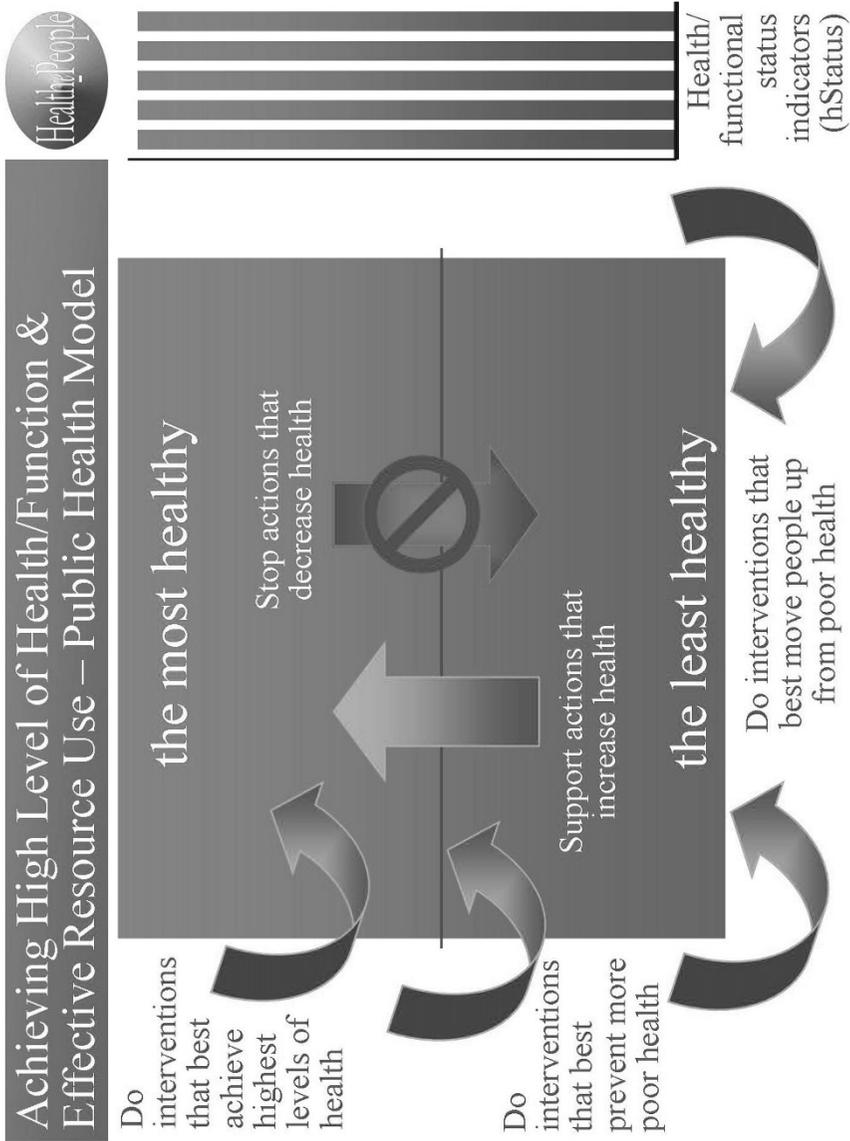


Figure 5.3. “Achieving High Level of Health/Function & Effective Resource Use – Public Health Model”

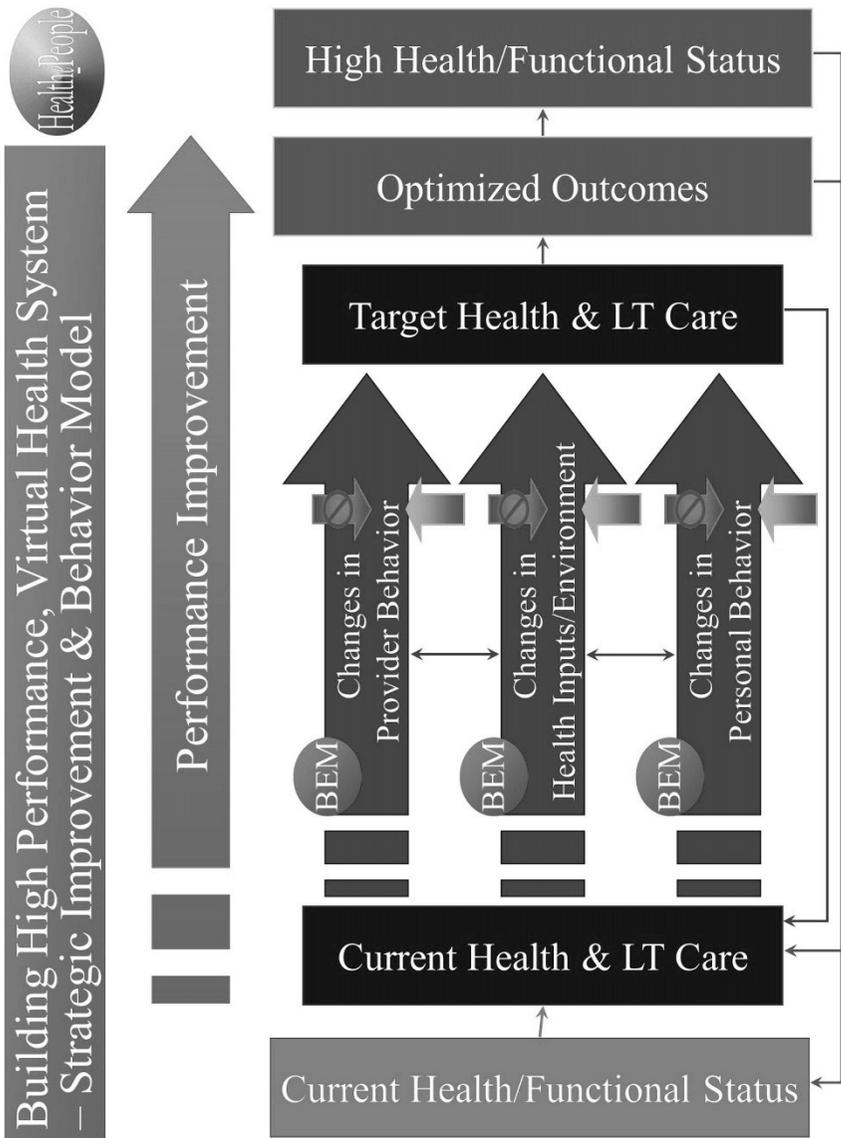


Figure 5.4. “Building High Performance, Virtual Health System – Strategic Improvement and Behavior Model”

Knowing what needs to be improved, we can then determine what personal and health support behaviors should change. Human behavior, both by persons (beneficiaries, enrollees, consumers, patients) and health support, is key to making and sustaining the improvements. The behavioral model BEM helps us think through how we bring about the behavior change necessary to make the improvements. Together, the system and behavior changes are intended to produce improved health and functional status for all of a community's people.

Under the HealthePeople vision and overall strategy and using supportive strategies and models, we can positively transform a community's overall health system and achieve a healthier community by successfully applying the following 15 supportive strategies:

1. Create a supportive environment for high performance, quality, affordability, accessibility
2. Support strong person-centered health with high personal choice, self-care and a strong partnership between the person and their health support to improve resource use and health outcomes
3. Support strongly and collaboratively applying "public health" model
4. Support all needed care reasonably accessible financially
5. Support the most vulnerable persons being provided all needed health and long-term care (LTC) support
6. Support strong core health benefits
7. Support strong core LTC benefits
8. Support strong person-centered care coordination/management
9. Support effectively using prevention to avoid illness and disability and associated cost
10. Help ensure long term affordability
11. Support pay for effective care & effective resource use
12. Support aligned high performance measures for all/across care settings
13. Support strong quality/performance improvement for all/across care settings
14. Support all care settings being reasonably accessible physically

15. Support strong virtual health (info) system with EHRs, PHS/Rs, standards & interoperability/exchange

The following Figure lays out from right to left how a) high health and functional status is produced by b) optimizing health outcomes which are produced by c) an affordable, accessible, “e” enabled and high-quality health system which is produced and enhanced by d) a supportive health environment and high person-centered and health care performance which is produced by e) the successful application of 15 strategies. (See Figure 5.5. “Strategies for Achieving a Healthy and Thriving Future.”)

Building Healthy Communities Vision and Strategy

As communities, we should proceed under the belief that communities can reach this vision via an endgame strategy of a high performance, communitywide health and long-term care system for all people that is self-perpetuating, affordable, accessible, “e” enabled, and producing high health quality, outcomes, and status. Such a communitywide system, partly physical and partly virtual and put into place by collaborative private and public partnerships, will greatly improve accessibility, quality and affordability for all people.

Utilizing HealthePeople as an organizing strategy, we can build substantially healthier communities and move toward truly healthy communities. People deserve and should expect nothing less.

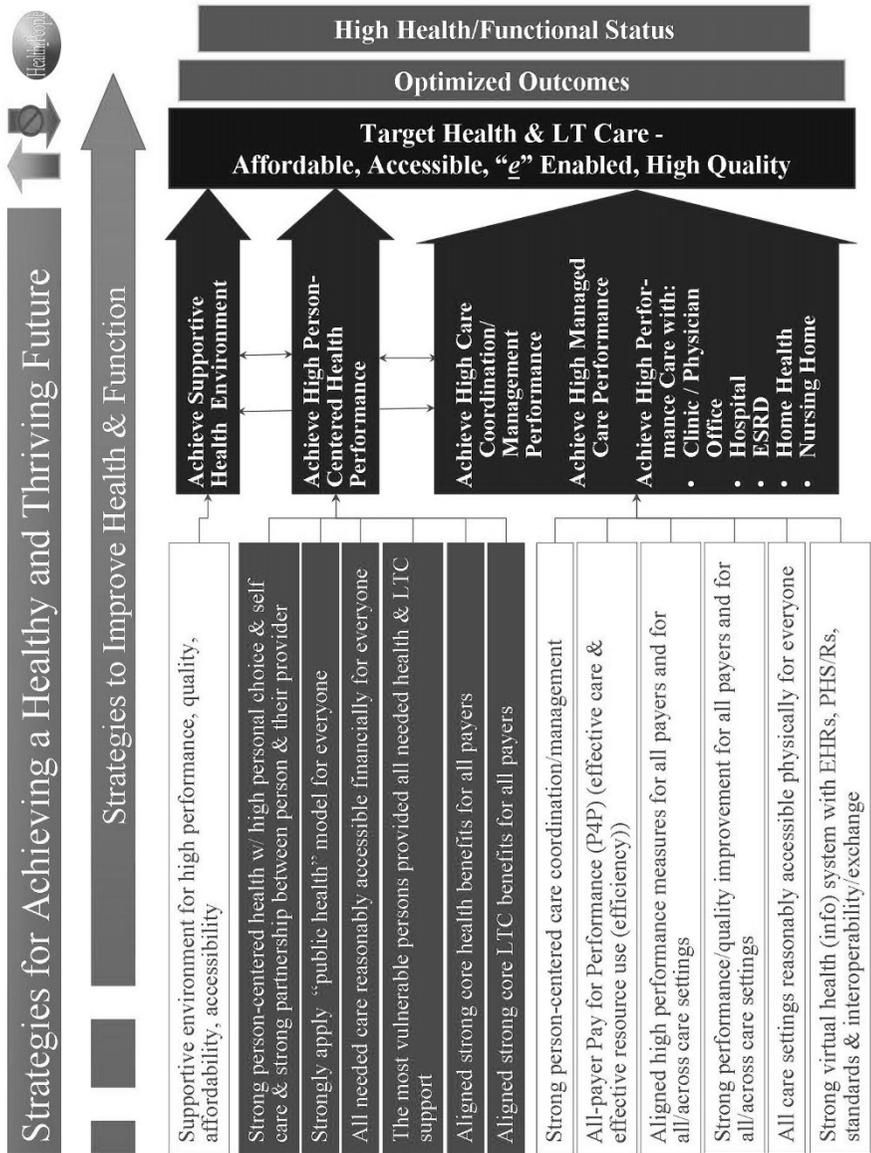


Figure 5.5. "Strategies for Achieving a Healthy and Thriving Future."



Chapter 6. HealthePeople® - Achieving Healthy People and Countries ¹⁶

Ideal Country Health Systems - Person-Centered, Affordable, Accessible, Quality, Outcomes-Driven Country Health Systems

When achieving healthy people and countries, every country today has much to offer on both how to do it and how not to do it. America is an important example of both and provides useful lessons for every country wanting to achieve healthy people and a healthy country.

America is well thought of when it comes to specialty and super-specialty diagnostics and treatment for a single condition. Beyond that, America's reputation for the best health support is mixed. America spends over 1/6th (about \$3.6 trillion in 2018) of its national economy on health without producing healthy Americans or a healthy America. The 2010 Health Reform law is very helpful but is not enough. Without a quantum change in health vision, strategy and execution, America's future will be as disappointing as its past.

To achieve healthy people and healthy countries anywhere in the world, HealthePeople is a proposed national strategy whose near-term vision is to achieve substantially healthier people and a substantially healthier country. The long-term vision is to achieve healthy people and a healthy country.

¹⁶ Note the chapters on the world, countries and communities have some redundancy. Each chapter stands on its own when combined with the chapters on person-centered health and ideal health systems.

This HealthePeople strategy was created with the belief that a country can reach this vision via an endgame strategy of a high performance, countrywide health and long-term care system for all people that is self-perpetuating, affordable, accessible, “e” enabled, and producing high health quality, outcomes, and status. Such a country health system, partly physical and partly virtual and put into place by collaborative private and public partnerships, will greatly improve accessibility, quality, and affordability for all of a country’s people. Such a countrywide system can greatly improve health and help achieve healthy people and a healthy country.

Rationale

There is and should be little disagreement over the need for every country to have a substantially better health system. None of the key indicators – health status, accessibility, quality, affordability – are at acceptable levels for countries spending substantial amounts of their economy on health.

- **Accessibility** – Every country has accessibility issues, especially in inner city and rural areas. A collaborative partnership of people, public and private payers, and health organizations can substantially improve access for all people.
- **Quality** – Health status and outcomes produced by every country’s health “system” are inadequate given the needs of the people and the proportion of the national economy expended. Too little of our medical and health knowledge is being effectively applied to prevent and treat health problems and to ensure health support is safe. A collaborative partnership of health organizations and the people they serve can substantially improve health support quality and health outcomes for all people.
- **Affordability** – The unaffordability of health support is challenging every country and their people as individuals and families (inhibiting needed access and causing bankruptcies). These problems continue to grow. A collaborative partnership (health organizations, the people they serve, and the people and organizations who pay) can much more effectively use a country’s valuable health resources.

Some countries are spending enough money. Some are spending too much for the benefit received. Some are spending too little because of choice or

lack of country financial resources. In every country, we are not getting the requisite payoff in terms of health outcomes/status or satisfaction.

Guidance

HealthPeople is a country strategy guided by and aligned with the Institute of Medicine (IOM) recommendations. IOM provides a way of viewing the health system's performance through the eyes of people themselves. IOM's quality reports have six aims for a high performing health system. They stress it should be safe, effective, person/patient-centered, timely, efficient, and equitable. What people want from a high performing health and long-term care system is that they are "staying healthy", "getting better", "living well with illness or disability" or "coping well with the end of life." Some people may experience more than one of these at the same time.

Utilizing their guidance, a very high performing health and long-term care system would perform well from the person's perspective and achieve the IOM aims. As depicted in the attached table, that very highly performing health system would "check all the boxes." (See Figure 6.1. "U.S. Institute of Medicine Six Aims & Person's Perspective on Health.")

We need to recognize the following as key health drivers and use them to guide our work and measure our progress toward a healthy country:

- Maximize health status
- Maximize outcomes
- Maximize abilities
- Maximize satisfaction
- Maximize quality
- Maximize accessibility/ portability
- Maximize affordability
- Maximize patient safety (drive defects/errors to zero)
- Minimize time between disability/illness and maximized function/health (drive time to zero)
- Minimize inconvenience (drive inconvenience to zero)
- Maximize security & privacy

Institute of Medicine Six Aims & Person’s Perspective on Health



Supportive of IOM principles and aims, HealthzPeople supports health professionals/providers, persons/patients, and the rest of the health care system in continuing to innovate and find better ways to achieve key goals more effectively.

Person’s Perspective on Health & LT Care Needs	Aims for Health & LT Care Performance/Quality					
	Safe	Effective	Person/Patient-centered	Timely	Efficient	Equitable
Staying healthy	+	+	+	+	+	+
Getting better	+	+	+	+	+	+
Living with illness or disability	+	+	+	+	+	+
Coping with the end of life	+	+	+	+	+	+

Figure 6.1. “U.S. Institute of Medicine Six Aims & Person’s Perspective on Health.”

We need to understand and successfully deal with a country's health system complexity if we want to substantially improve health outcomes and health status for all people. The Figure below lays out the complexity gauntlet which must be successfully run. (See Figure 6.2. "Strategy for a Complex Country's "Health" System.") To be fully successful, we must address the people factors (population, diversity, insurance status, health factors, health-related factors) and the non-people factors (health resources, health support, health-related environmental factors). We must focus on a) affecting the actions that improve/reduce health quality to b) create a strong partnership between the person and their health support to c) improve health support quality and effective resource use those results to d) substantially improve health outcomes and status.

Vision, Endgame Strategy and Mission

The HealthePeople **near-term vision** – achieve substantially healthier people and a substantially healthier country - is far different than the one we can expect from our current glidepath. Much more so is the **long-term vision** - achieve healthy people and a healthy country. All current indicators and trends point to a future where access, quality, and affordability continue to be unacceptable. Under a better vision and strategy with the same resource commitment, countries can achieve substantially healthier people and a substantially healthier country.

To reach this vision, the **endgame strategy** is to achieve a high performance, countrywide health and long-term care system for all people that is self-perpetuating, affordable, accessible, "e" enabled, and producing high health quality, outcomes, and status. A country's health system should bring together and to bear the full force of people and their health support, their healthcare payers, their communities and their governments.

To reach this vision and endgame strategy, the **mission** is to create and support collaborative partnerships that help build a high performance, countrywide health and long-term care system for all people that is self-perpetuating, affordable, accessible, "e" enabled, and producing high health quality, outcomes, and status. This unprecedented collaboration can achieve great progress as we have seen countries achieve historically on other national issues. HealthePeople achieves full success when a country's health system achieves and sustains healthy people and a healthy country.

HealthPeople
Strategy for a Country's Complex "Health" System

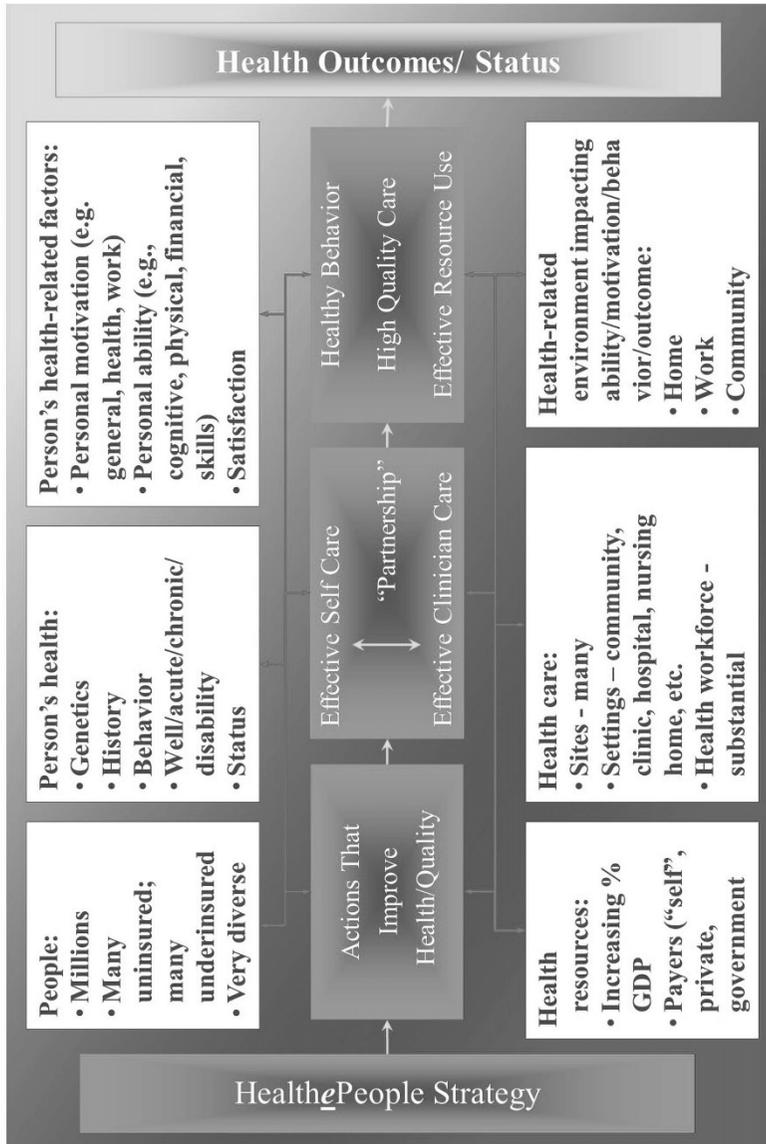


Figure 6.2. "Strategy for a Country's Complex "Health" System."

Strategy for a Healthy Country

HealthPeople is a collaborative strategy to transform to affordable, person-centered, outcomes-driven, and "e" enabled health systems that help achieve better health. Succeeding with this strategy across all healthcare will positively transform health care. We can use a country's valuable health resources much more effectively, reduce vulnerability, and achieve much healthier people and a much healthier country. Within this strategy are two core elements:

- First, achieve affordable, accessible, and high quality/performance health systems. This involves more than medical interventions or traditional healthcare services. It requires a full range of health-related resources from across the community and beyond.
- Second, focus on people—consumers, patients, enrollees, and members. They are the center of the health universe and must be treated as such, forming strong partnerships between individual persons/patients and their health support.

To build out the strategy and supportive strategies, this strategy utilizes a public health intervention model designed to help increase the number of healthy people and reduce the number of vulnerable and/or unhealthy people. (See Figure 6.3. "Achieving High Level of Health/Function & Effective Resource Use – Public Health Model.") It targets interventions that best achieve the highest level of health and function, best prevent more poor health, and best move our most vulnerable people up from poor health. The success of the interventions is measured by the degree to which we stop actions that decrease health and support actions that improve health. Success is also measured by how well the private and public sectors, including health professional leadership, "move the numbers", i.e., substantially improving the key status indicators of health and function.

Within the model, there are interventions that improve health or make it worse. To improve health, there are the overall key strategic areas – stop those interventions/actions that make health worse support those interventions/actions that improve health. To improve health most, we need to execute a "systematic strategy" – a "system" of actions that continuously stops actions that push people down to less healthy states and supports actions that lift people out of poor health and toward being healthy. This "system" of actions, when well designed and executed, can perpetually prevent much poor health and support people moving up from poor health to being healthy.

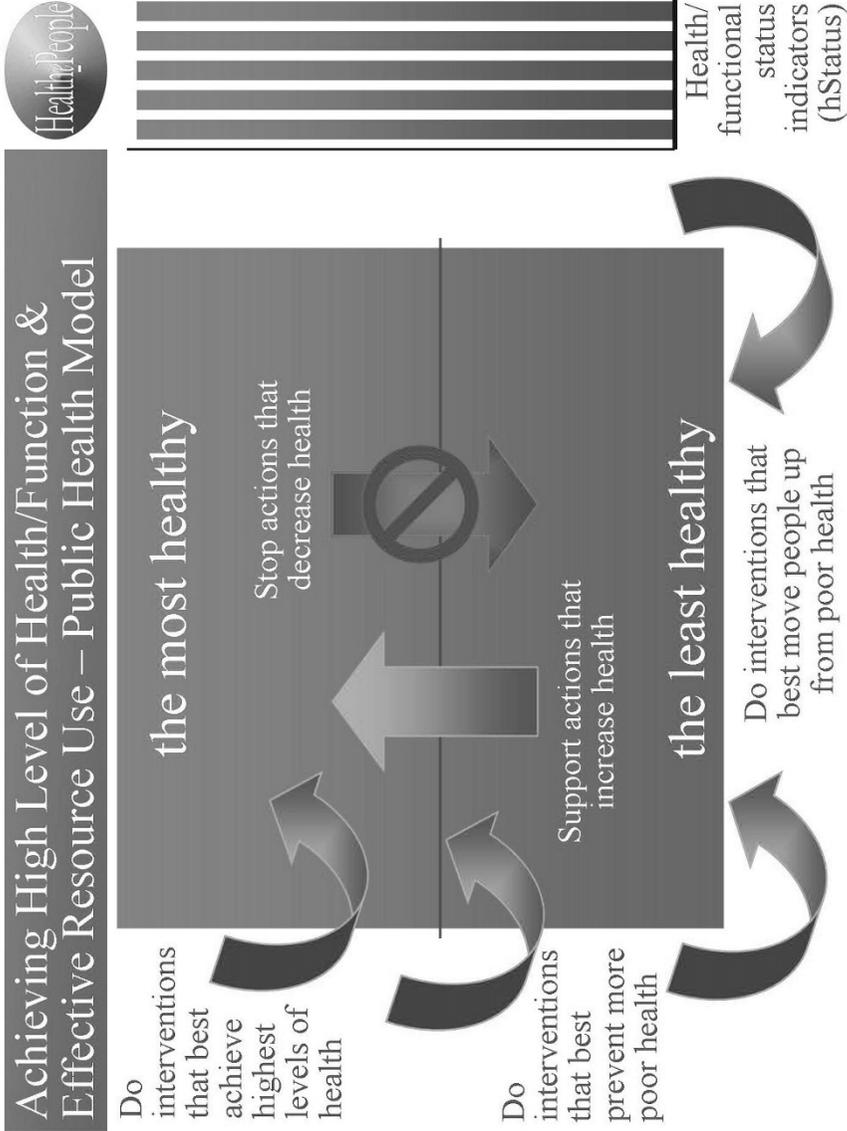


Figure 6.3. “Achieving High Level of Health/Function & Effective Resource Use – Public Health Model.”

The overall strategy is built upon a strategic improvement and behavior model for health. Using the model depicted below, we need to set the target health and functional status we are trying to achieve under the vision “healthier/healthy people”. (See Figure 6.4. “Building High Performance, Virtual Health System – Strategic Improvement and Behavior Model.”) Given the target status, we can decide on the target outcomes needed and on the target health system needed to achieve those outcomes. Comparing the optimized outcomes and health system with the current health system and its performance, we can determine the “delta”, i.e., the needed improvements in the current health system and its outcomes.

Knowing what needs to be improved, we can then determine what personal and health provider behaviors should change. Human behavior, both by persons (beneficiaries, enrollees, consumers, patients) and health providers, is key to making and sustaining the improvements. The behavioral model BEM helps us think through how we bring about the behavior change necessary to make the improvements. Together, the system and behavior changes are intended to produce improved health and functional status for all of a country’s people.

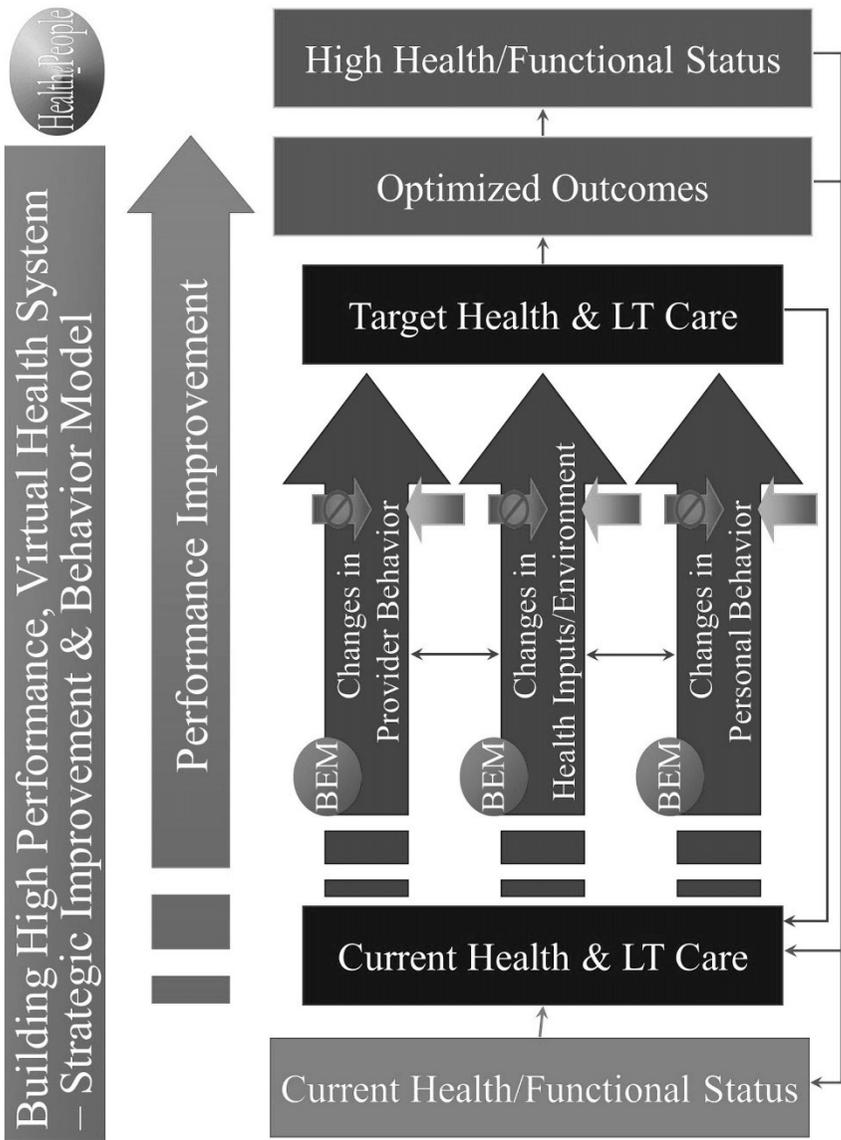


Figure 6.4. “Building High Performance, Virtual Health System – Strategic Improvement and Behavior Model.”

Under the HealthePeople vision and overall strategy and using supportive strategies and models, we can positively transform a country's overall health system and achieve a healthier country by successfully applying the following 15 supportive strategies:

1. Create a supportive environment for high performance, quality, affordability, accessibility
2. Support strong person-centered health with high personal choice, self-care and a strong partnership between the person and their health support to improve resource use and health outcomes
3. Support strongly and collaboratively applying "public health" model
4. Support all needed care reasonably accessible financially
5. Support the most vulnerable persons being provided all needed health and long-term care (LTC) support
6. Support strong core health benefits
7. Support strong core LTC benefits
8. Support strong person-centered care coordination/management
9. Support effectively using prevention to avoid illness and disability and associated cost
10. Help ensure long term affordability
11. Support pay for effective care & effective resource use
12. Support aligned high performance measures for all/across care settings
13. Support strong quality/performance improvement for all/across care settings
14. Support all care settings being reasonably accessible physically
15. Support strong virtual health (info) system with EHRs, PHS/Rs, standards & interoperability/exchange

The following Figure lays out from right to left how a) high health and functional status is produced by b) optimizing health outcomes which are produced by c) an affordable, accessible, "e" enabled and high-quality health system which is produced and enhanced by d) a supportive health environment and high person-centered and health support performance

which is produced by e) the successful application of 15 strategies. (See Figure 6.5. “Strategies for Achieving a Healthy and Thriving Future.”)

While all 15 supportive strategies are essential, there are several strategies that have unique potential and deserve elaboration and greater attention:

- Person-Centered Health - where the person a) is at the center of self-care, formal health support and informal health support and b) has that health care/support coordinated via an effective person and health support partnership.
- High Performance Health Systems - where the best systems design and operational thinking is applied to and across the full range of health support settings from individual clinics to hospitals to integrated health systems.
- Care in the Community – where care coordination and eHealth are utilized as means to better support people’s health outside (“in the community”) and with health care facilities in real time at anytime and anywhere.
- Quality/Health Improvement - where we build upon IOM work on quality, better use evidence-based care, and develop and use behavioral models for person and health support behavior to improve health care quality and health outcomes and status. One key focus is “right care for every person every time.” Another key focus to more effectively use prevention and early intervention to avoid illness and disability.
- Un- and Underinsured - where we build upon IOM work on uninsured and develop and execute strategies that ensure affordability and solve the un- and under-insured problem in way supportable by key leaders and public.
- Virtual Health Systems - where we develop and use “virtual health system(s)” of electronic health records (EHR), personal health systems/records (PHS/R), information exchange (IE) and standards. Though “virtual health systems” are only part of the answer, creating countrywide health system requires the enabling “e”.

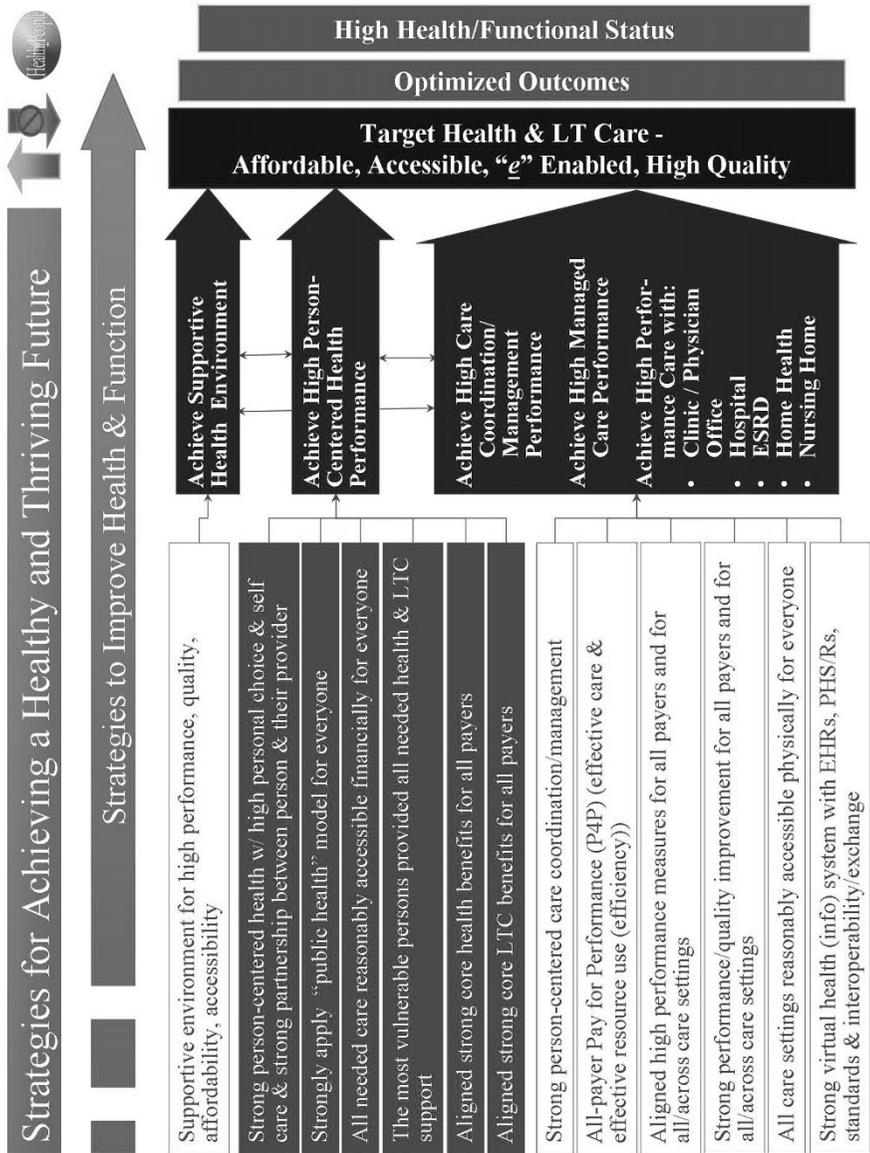


Figure 6.5. "Strategies for Achieving a Healthy and Thriving Future."

Building Healthy Countries Vision and Strategy

As countries, we should proceed under the belief that countries can reach this vision via an endgame strategy of a high performance, countrywide health and long-term care system for all people that is self-perpetuating, affordable, accessible, “e” enabled, and producing high health quality, outcomes and status. Such a countrywide system, partly physical and partly virtual and put into place by collaborative private and public partnerships, will greatly improve accessibility, quality, and affordability for all people.

Utilizing HealthePeople as an organizing strategy, we can build substantially healthier countries and move toward truly healthy countries. People deserve and should expect nothing less.



Chapter 7. HealthePeople[®] - Achieving Healthy People and World ¹⁷

Ideal Global Health System - Person-Centered, Affordable, Accessible, Quality, Outcomes-Driven Global Health System

Throughout the world, we face major challenges and disappointments in achieving healthy people, communities, countries, and world. Without a large change in health vision, strategy and execution, our future will be as disappointing as our past. To positively change that future, HealthePeople is a strategy whose near-term vision is to achieve substantially healthier people, communities, countries, and world. The long-term vision is to achieve healthy, thriving people globally and a healthy, thriving world. This HealthePeople strategy was created with the belief that we can reach this vision via an endgame strategy of high performance, health systems for all people that are self-perpetuating, affordable, accessible, “e” enabled, person-centered, prevention-oriented, and producing high health quality, outcomes and status. Such systems, partly physical and partly virtual and put into place by collaborative private and public partnerships, will greatly improve accessibility, quality, affordability, and health status for all people. Such global systems can help achieve healthy people and a healthy, thriving world.

¹⁷ Note the chapters on the world, countries and communities have some redundancy. Each chapter stands on its own when combined with the chapter on person-centered health.

Rationale

There is and should be little disagreement over the need for the world to have substantially better health and supportive health systems and to better integrate them. Every country has its own set of issues that fail to produce a sufficient level of health. Health issues do not just affect a particular country and can easily spill across country borders.

- **Accessibility** – Globally, needed health (including long term care) services are insufficiently available and/or accessible to many people, communities and countries, especially rural and inner-city communities. A collaborative partnership of people, public and private payers, and health support organizations can substantially improve access for all people.
- **Quality** – Globally, health status and outcomes produced by current health systems are inadequate given the needs of people. Too little of our medical and health knowledge is being effectively applied to effectively prevent and treat health problems, to ensure health support is safe and to achieve high health status.¹⁸ A collaborative partnership of health support organizations and the people they serve can substantially improve health support quality, health outcomes and health status for all people.
- **Affordability** – The unaffordability of health support is particularly challenging throughout the world. Without further action, these problems will continue to grow. Some countries (like America) are spending enough money. Other countries vary widely on the relationship between spending and need. We are not getting the requisite payoff in terms of health outcomes/status or satisfaction. A collaborative partnership (health support organizations, the people they serve, and the people and organizations who pay) can much more effectively use valuable health resources and ensure affordability.
- **Global Health Support** – Many illnesses, especially infectious diseases, do not respect country borders. The ease and amount of international travel, the movement of food and other goods, and the movement of infectious disease carriers increase the risk of

¹⁸ Health Support – May include physicians, nurses, dentists, optometrists, pharmacists, clinics, urgent care, emergency departments, hospitals, rehabilitation facilities, home care, nursing homes, assisted living, alternative health/medicine, and others.

infectious disease spread. Further, people do not always experience illness or injury in their home country and must depend on another country's health system for health support. Across the world, a collaborative partnership of health support organizations and the people they serve can substantially improve health support to improve health support quality, health outcomes and health status for all people.

Guidance

HealthPeople is a strategy guided by and aligned with the U.S. Institute of Medicine (IOM) recommendations. IOM provides a way of viewing a global health system's performance through the eyes of people themselves. IOM's quality reports have six aims for a high performing health system. They stress it should be safe, effective, person/patient-centered, timely, efficient, and equitable. What people want from a high performing health and long-term care system is that they are "staying healthy", "getting better", "living well with illness or disability" or "coping well with the end of life." Some people may experience more than one of these at the same time.

Utilizing their guidance, a very high performing global health and long-term care system would perform well from the person's perspective and achieve the IOM aims. As depicted in the attached table, that very highly performing health system would "check all the boxes." (See Figure 7.1. "U.S. Institute of Medicine Six Aims & Person's Perspective on Health.")

We need to recognize the following as key health drivers and use them to guide our work and measure our progress toward healthy people and a healthy world:

- Maximize health status
- Maximize outcomes
- Maximize abilities
- Maximize satisfaction
- Maximize quality
- Maximize accessibility/ portability
- Maximize affordability
- Maximize patient safety (drive defects/errors to zero)
- Minimize time between disability/illness and maximized function/health (drive time to zero)

- Minimize inconvenience (drive inconvenience to zero)
- Maximize security & privacy



Institute of Medicine Six Aims & Person's Perspective on Health

Supportive of IOM principles and aims, HealthPeople supports health professionals/providers, persons/patients, and the rest of the health care system in continuing to innovate and find better ways to achieve key goals more effectively.

Person's Perspective on Health & LT Care Needs	Aims for Health & LT Care Performance/Quality					
	Safe	Effective	Person/Patient-centered	Timely	Efficient	Equitable
Staying healthy	+	+	+	+	+	+
Getting better	+	+	+	+	+	+
Living with illness or disability	+	+	+	+	+	+
Coping with the end of life	+	+	+	+	+	+

Figure 7.1. “U.S. Institute of Medicine Six Aims & Person’s Perspective on Health.”

We need to understand and successfully deal with every community and country's health system complexity from a global perspective if we want to substantially improve health outcomes and health status for all people worldwide. The Figure below lays out the complexity gauntlet which must be successfully run for a country. (See Figure 7.2. "Strategy for a Global Complex Health" System.") To be fully successful, we have to address the people factors (population, diversity, insurance status, health factors, health-related factors) and the non-people factors (health resources, health support, health-related environmental factors). We should focus on a) affecting the actions that improve health quality to b) create a strong partnership between the person and their health support to c) achieve healthy behavior, high health support quality and effective resource and to use these to d) substantially improve health outcomes and status.

Vision, Strategy and Mission

Thrive![®] is the overall vision, mission, and strategy for achieving and sustaining a thriving future across the world. Within that future, **HealthPeople**[®] is the vision, mission and strategy for achieving and sustaining health and well-being across the world.

The HealthPeople **near-term vision** – achieve substantially healthier people and a substantially healthier world - is far different than the one we can expect from our current glidepath. Much more so is the **long-term vision** - achieve healthy and thriving people and a healthy and thriving world. All current indicators and trends point to a future where access, quality, affordability, and health status continue to be unacceptable. Under a better vision and strategy with the same resource commitment, we can achieve healthy people and a healthy world.

To reach this vision, the **strategy** is to achieve high performance, health systems for all people that are self-perpetuating, affordable, accessible, "e" enabled, person-centered, prevention-oriented, and producing high health quality, outcomes and status. Effective health systems should bring together and bring to bear the full force of people with their health support, their healthcare payers, their communities, and their governments.

HealthPeople

Strategy for a Global Complex “Health” System

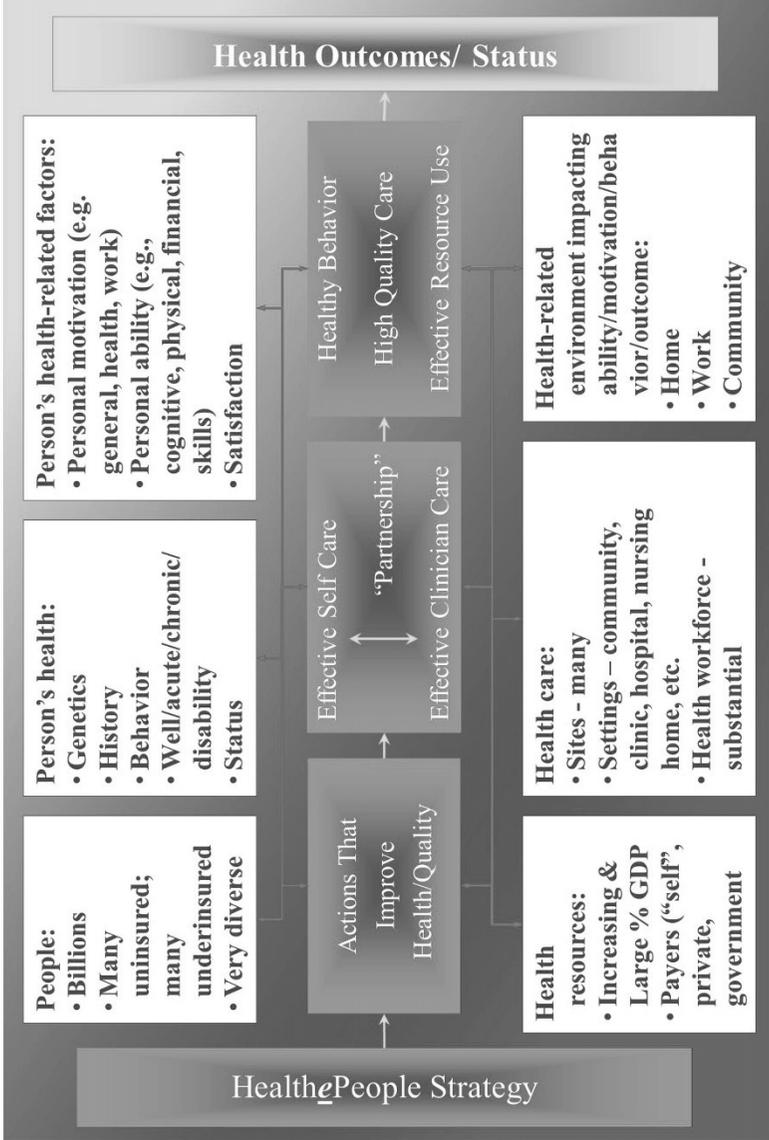


Figure 7.2. “Strategy for a Global Complex “Health” System.”

To reach this vision and strategy, the **mission** is to create and support collaborative partnerships that help build and sustain high performance, health systems for all people that are self-perpetuating, affordable, accessible, “e” enabled, person-centered, prevention-oriented, and producing high health quality, outcomes, and status. This unprecedented collaboration can achieve great progress as we have seen countries achieve historically on other countrywide issues. HealthePeople achieves full success when health systems achieve and sustain healthy and thriving people and a healthy and thriving world.

Strategy for a Healthy and Thriving Future

HealthePeople is a collaborative strategy to transform to affordable, person-centered, prevention-oriented, outcomes-driven, and “e” enabled health systems that help achieve better health. Succeeding with this strategy across all of health will positively transform health support. We can use our world’s valuable health resources much more effectively, reduce vulnerability, and achieve much healthier people and a much healthier world. Within this strategy are two core elements:

- First, achieve affordable, accessible, and high quality/performance health systems. This involves more than medical interventions or traditional healthcare services. It requires a full range of health-related resources and support from across a community, across a country, and globally.
- Second, focus on people—consumers, patients, enrollees, and members. They are the center of the health universe and must be treated as such, forming strong partnerships between individual persons and their health support.

To build out the strategy and supportive strategies, this strategy utilizes a public health intervention model designed to help increase the number of healthy people and reduce the number of vulnerable and/or unhealthy people. (See Figure 7.3. “Achieving A Healthy and Thriving Future.”) This model applies to people worldwide. It targets interventions that best achieve the highest level of health and function, best prevent more poor health, and best move our most vulnerable people up from poor health. The success of the interventions is measured by the degree to which we stop actions that decrease health and support actions that improve health. Success is also measured by how well the private and public sectors, including health

professional leadership, “move the numbers”, i.e., substantially improving the key status indicators of health and function.

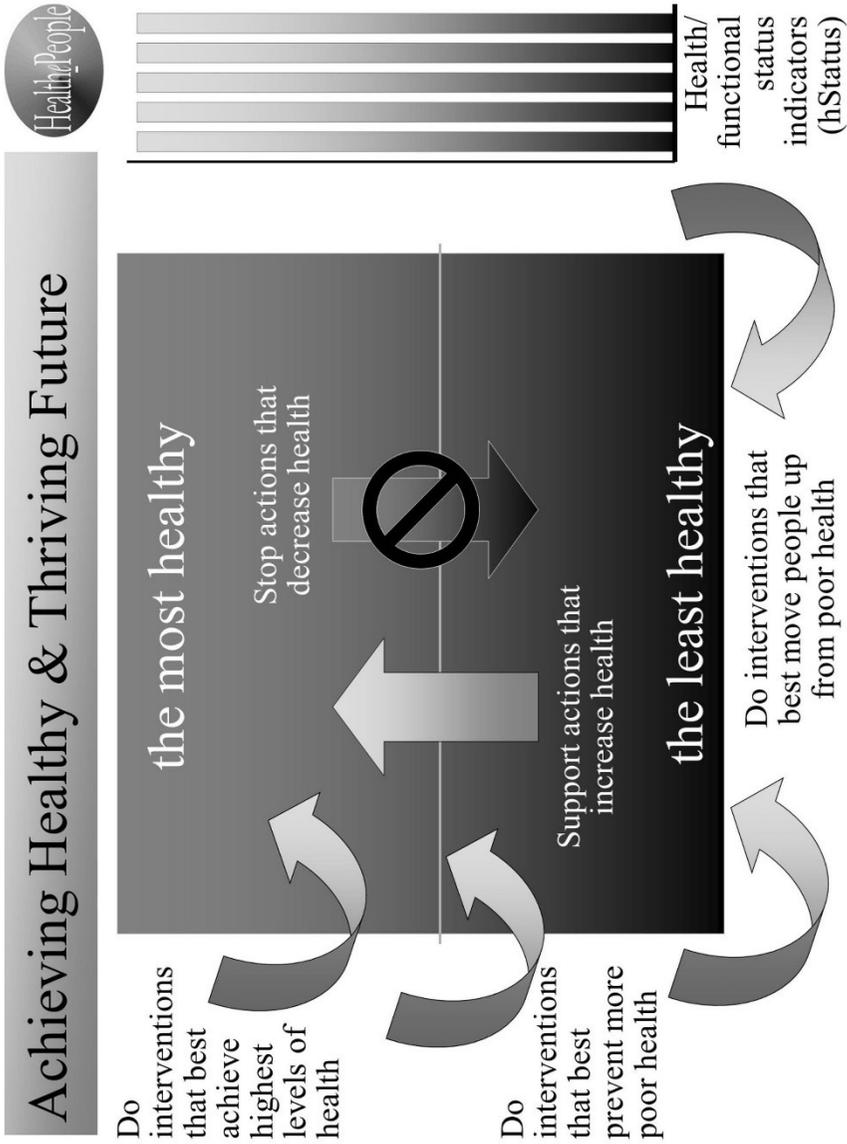


Figure 7.3. “Achieving A Healthy & Thriving Future.”

Within the model, there are interventions that improve health or make it worse. To improve health, there are the overall key strategic areas – stop those interventions/actions that make health worse and support those interventions/actions that improve health. To improve health most, we need to execute a "systematic strategy" – a “system” of actions that continuously stops actions that push people down to less healthy states and supports actions that lift people out of poor health and toward being healthy. This “system” of actions, when well designed and executed, can perpetually prevent much poor health and support people moving up from poor health to being healthy.

The overall strategy is built upon a strategic improvement and behavior model for health. Using the model depicted below, we need to set the target health and functional status we are trying to achieve under the vision “healthier/healthy people globally”. (See Figure 7.4. “Building High Performance, Virtual Health System – Strategic Improvement and Behavior Model.”) This model applies as well to health systems throughout the world. Given the target status, we can decide on the target outcomes needed and on the target health system needed to achieve those outcomes. Comparing the optimized outcomes and health system with the current health system and its performance, we can determine the “delta”, i.e., the needed improvements in the current health system and its outcomes.

Knowing what needs to be improved, we can then determine what personal and health support behaviors should change. Human behavior, both by persons (beneficiaries, enrollees, consumers, patients) and health support, is key to making and sustaining the improvements. The behavioral model BEM helps us think through how we bring about the behavior change necessary to make the improvements. Together, the system and behavior changes are intended to produce improved health and functional status for all people globally.

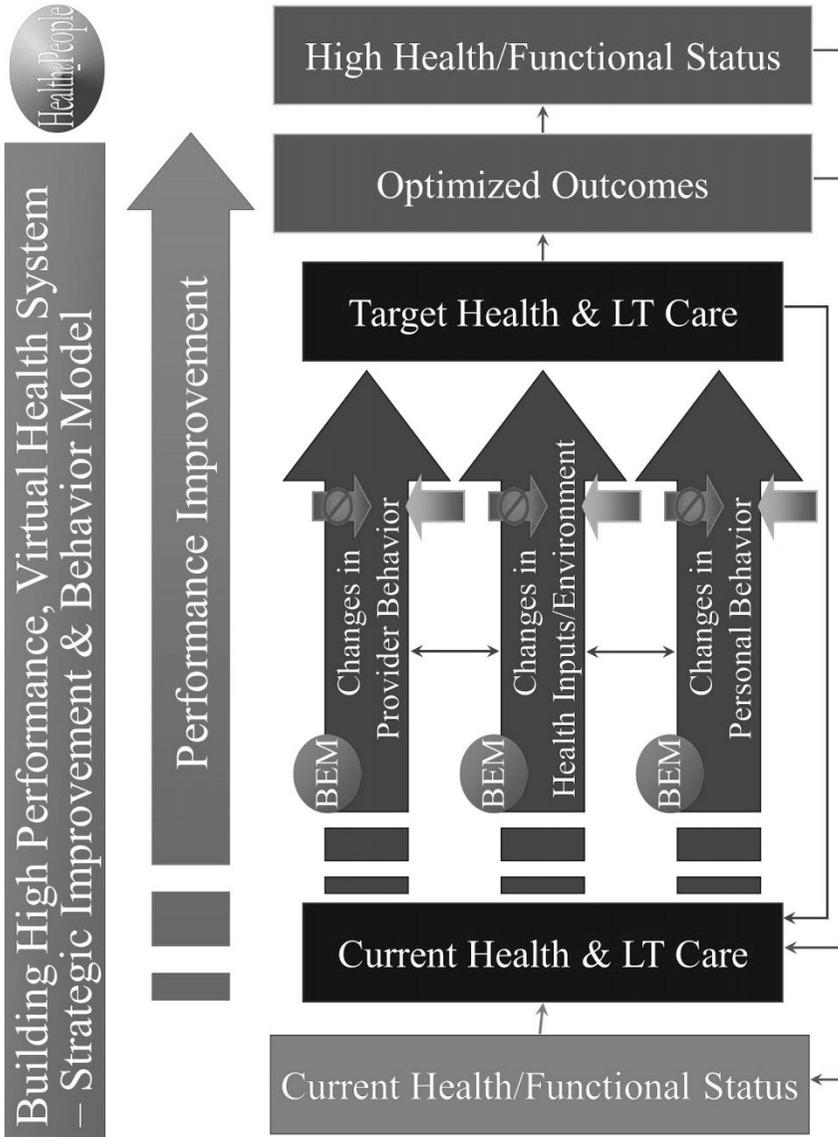


Figure 7.4. “Building High Performance, Virtual Health System – Strategic Improvement and Behavior Model.”

Under the HealthePeople vision, overall strategy and models, we can positively transform health systems and achieve a healthier world by successfully applying the following 15 supportive strategies:

1. Create a supportive environment for high performance, quality, affordability, accessibility
2. Support strong person-centered health with high personal choice, self-care and a strong partnership between the person and their health support to improve resource use and health outcomes
3. Support strongly and collaboratively applying “public health” model
4. Support all needed care reasonably accessible financially
5. Support the most vulnerable persons being provided all needed health and long-term care (LTC) support
6. Support strong core health benefits
7. Support strong core long term care benefits
8. Support strong person-centered care coordination/management
9. Support effectively using prevention to avoid illness and disability and associated cost
10. Help ensure long term affordability
11. Support pay for effective care & effective resource use
12. Support aligned high performance measures for all/across care settings
13. Support strong quality/performance improvement for all/across care settings
14. Support all care settings being reasonably accessible physically
15. Support strong virtual health information system with EHRs (electronic health records), PHS/Rs (personal health systems/records), information standards & information interoperability and exchange

The following Figure lays out from right to left how a) high health and functional status is produced by b) optimizing health outcomes which are produced by c) an affordable, accessible, “e” enabled and high-quality health system which is produced and enhanced by d) a supportive health environment and high person-centered and health care performance which is

produced by e) the successful application of 15 strategies. (See Figure 7.5. “Strategies for Achieving a Healthy and Thriving Future.”)

While all 15 supportive strategies are essential, there are several strategies that have unique potential and deserve elaboration and greater attention:

- Person-Centered Health - where the person a) is at the center of self-care, formal health support and informal health support and b) has that health support coordinated via an effective person and health support partnership.
- High Performance Health Systems - where the best systems design and operational thinking is applied to and across the full range of health support settings from individual clinics to hospitals to integrated health systems to public health to non-traditional health support.
- Care in the Community – where care coordination and eHealth are utilized as means to better support people’s health outside (“in the community”) and with health support facilities in real time at anytime and anywhere.
- Quality/Health Improvement - where we build upon IOM work on quality, better use evidence-based care, and develop and use behavioral models for person and health support behavior to improve health support quality and health outcomes and status. One key focus is “right care for every person every time.” Another key focus to more effectively use prevention and early intervention to avoid illness and disability.
- Un- and Underinsured - where we build upon IOM work on uninsured and develop and execute strategies that ensure affordability and solve the un- and under-insured problem in way supportable by key leaders and public.
- Virtual Health Systems - where we develop and use “virtual health system(s)” of electronic health records (EHR), personal health systems/records (PHS/R), information exchange (IE) and information standards. Though “virtual health systems” are only part of the answer, creating an effective health system requires the enabling “e”.

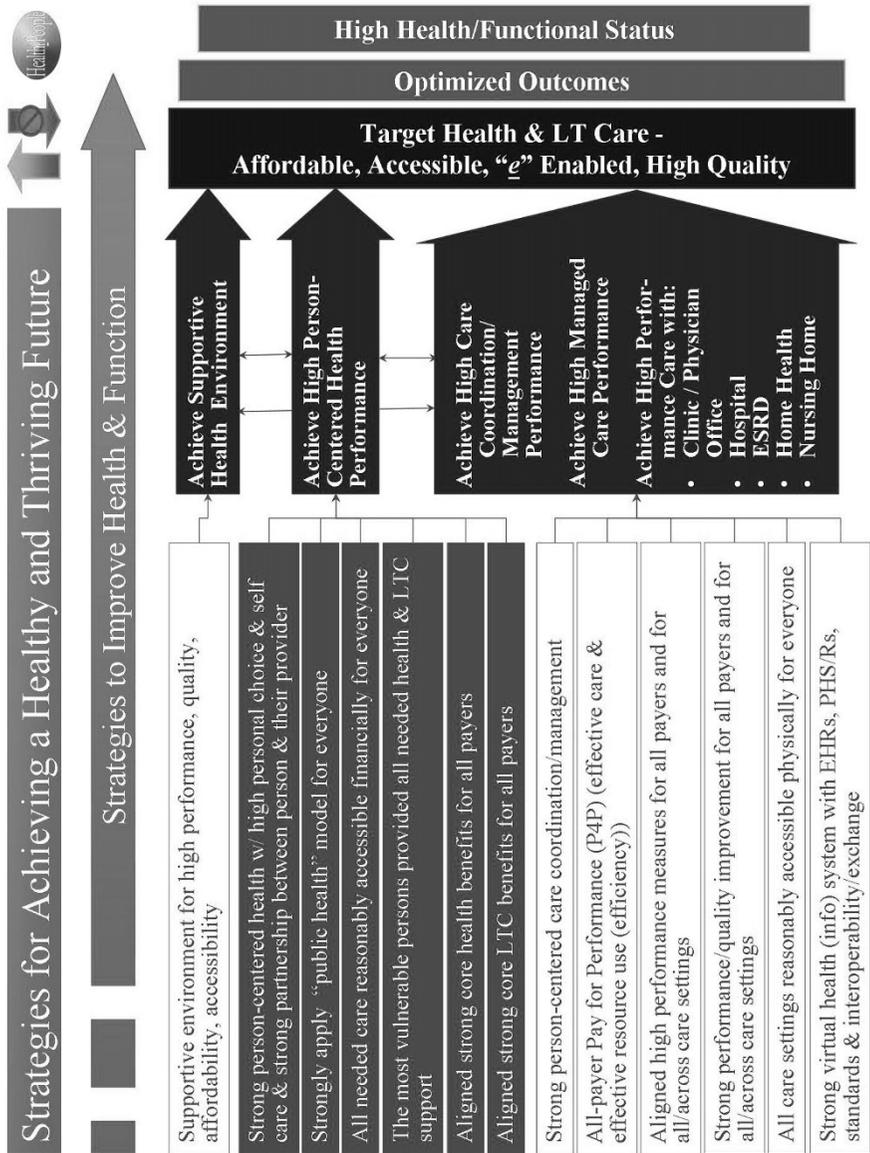


Figure 7.5. "Strategies for Achieving a Healthy and Thriving Future."

HealthePeople Vision and Strategy for a Healthy and Thriving Future

As communities, countries, and world, we should proceed under the belief that we can reach this vision via an endgame strategy of high performance, health systems for all people that are self-perpetuating, affordable, accessible, “e” enabled, person-centered, prevention-oriented, and producing high health quality, outcomes and status. Such health systems, partly physical and partly virtual and put into place by collaborative private and public partnerships, will greatly improve accessibility, quality and affordability for all people worldwide.

Utilizing HealthePeople as an organizing strategy, we can build a substantially healthier world and move toward a truly healthy and thriving world. People across the world deserve and should expect nothing less.



Chapter 8. Thriving Health System[©] – An Ideal Health System for People and Communities

Achieving Healthy and Thriving People and Communities for All Everywhere.

Having laid out the framework for ideal health systems, this chapter uses that framework to develop Thriving Health Systems, the embodiment of ideal health systems.

In our lives, if we survive birth, only two things are sure about our health. We are born. We die. Everything else varies from person to person and over a person's lifetime.

Better than our current "health system", a Thriving Health System gives us our best chance to be healthy throughout our lifetime.¹⁹ Our having a Thriving Health System for our community ensures we are healthier people in a healthier community.

A Thriving Health System has persons and their communities at the center. At the center is the person and the person's Primary Health Support surrounded by all needed and wanted Health Support. It adjusts when locations, time, person, and community change. It takes into account all of

¹⁹ Thriving Health Systems are comprehensive health systems that can be of almost any size and for any type of community. Community includes legal communities (e.g., village, town, city, county, State, nation), geographic areas (e.g., regions), groups (e.g. ethnic groups, affinity groups), and world.

personal and community characteristics and all of health and well-being. It understands personal and community environment and its impact on health and well-being. It understands and uses the full range of health and thriving support to improve and sustain health and well-being. It connects all of these, with information and other support, into a fully integrated and supportive system for persons and communities. (Figure 8.1. “Thriving Health Systems Ensure Healthier People.”)

We want to be as well as possible over our lifetime.

We are born. If we live long enough, we are a child, an adult, and an older adult. Then we die. Over our lifetime and depending on how long we live, we may go through early development, may learn, may work, may expand our family, and may have post-work time. Then we die.

If we are fortunate, we live through all of these until we die a quick and painless death. If we are truly fortunate, we are well through all of these. Very few of us will be that fortunate under the current health system.

During our lives after we are born, we may be well, have infrequent acute illness and/or injury, have frequent illness and/or injury, have mild, moderate and/or severe chronic illness, and/or have mild, moderate and/or severe disability. Then we die.

We should want to be well for as much of our lives as possible. We should do everything reasonable and possible to be well. While we may be able and willing to do much by ourselves, we will be more successful with a truly good health partner (a Primary Health Support (PHS)) with all needed and wanted Health Support in a truly good health system (a Thriving Health System (THS)). (Figure 8.2. “Persons & Their Lifetime Health.”)

Thriving Health Systems Ensure Healthier People

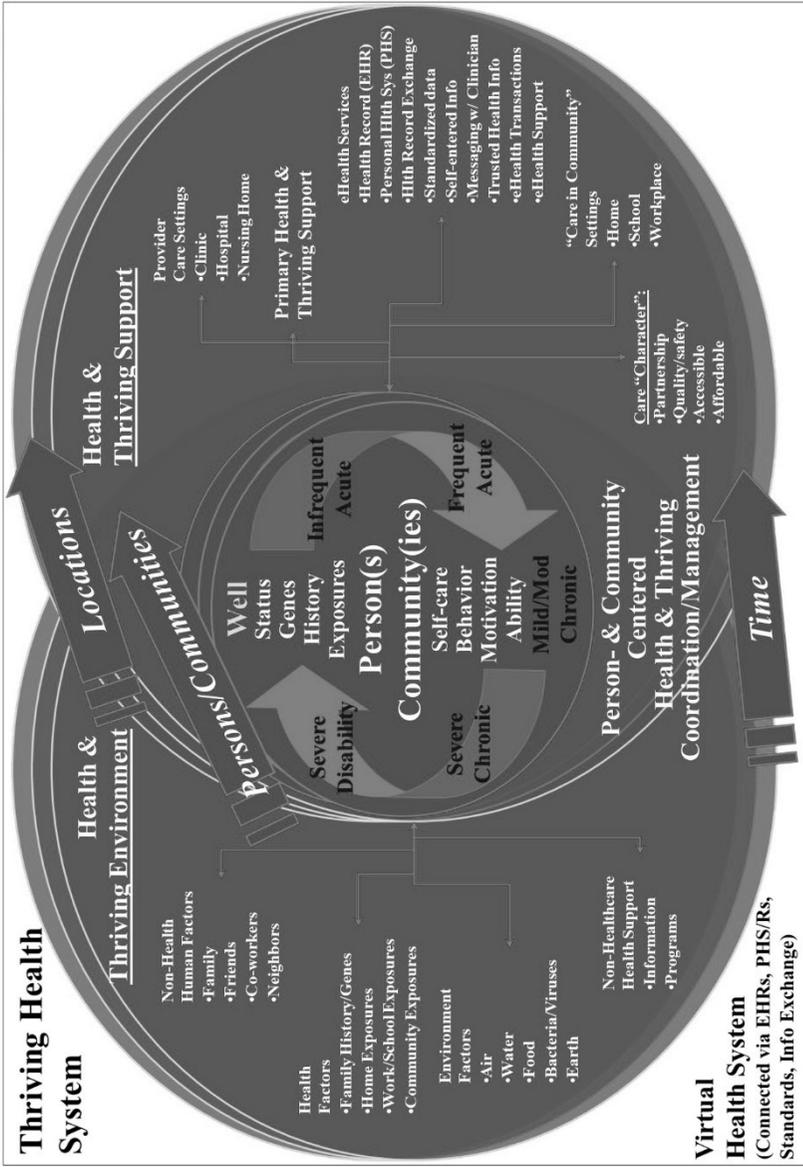


Figure 8.1. “Thriving Health Systems Ensure Healthier People.”

Persons & Our Lifetime Health



Persons & Our Lifetime Health Over Lifetime, By Health Status, In Location/Environment *

<u>Life Stages</u>					
Birth	Child	Adult	Older Adult	Death	Death
Birth	Early Development	Education	Work	Family	Post-Work
<u>Status</u>					
Birth / Well / Infrequent Acute / Frequent Acute / Mild/Moderate Chronic / Severe Chronic / Severe Disability / Death					
<u>Locations/Environments Over Lifetime</u>					



* Note:
 Over lifetime, life stages may overlap. E.g., education at same time as work. E.g., post-work may still include work with or without some pay.
 Over lifetime and at any time, person may have multiple statuses. E.g., illness or injury while having disability. E.g., frequent acute with severe chronic.
 Over lifetime, locations and environment may change. Environment may change within a location.

Figure 8.2. “Persons & Our Lifetime Health.”

We are more likely to be well in a Thriving Health System[©].

The U.S. Institute of Medicine (IOM) (now the National Academy of Medicine) provides a way of viewing a health system's performance through our eyes. IOM's quality reports also have six aims for a high performing health system. They stress it should be safe, effective, person/patient-centered, timely, efficient, and equitable.

What we want from a health system is that we are “staying healthy”, “getting better”, “living with illness or disability” and/or “coping with the end of life.” Taking this one more positive step via a Thriving Health System, we are “staying healthy”, “getting much better and faster”, “living as well as possible with illness or disability” and/or “coping as well as possible with the end of life.” Some of us may experience more than one of these at the same time.

Utilizing IOM's guidance, a Thriving Health System should perform well from the person's perspective and achieve the IOM aims. As depicted in the attached table, a Thriving Health System would “check all the boxes.” (Figure 8.3. “U.S. Institute of Medicine Six Aims & Person's Perspective on Health.”) As suggested earlier, a Thriving Health System can, should and will do much better.

To get to the health support we truly want and need, we need a Thriving Health System that has us and our Primary Health Support at the center. Together as health partners from birth to death, we access whatever other health support is needed to help us stay healthy, helps us get much better faster when ill or injured, helps us live as well as possible with illness or disability and helps us cope as well as possible with the end of life.

Do we have to abandon our current health systems (to the extent they are functioning systems today and tomorrow) or can we transform what we have into Thriving Health Systems? Depending on the “health” of a particular current health system, we may abandon it or we can transform it. Most of the elements exist in our current health systems. But they are not well organized, not well connected and not communicating well.

Institute of Medicine Six Aims & Person & Community's Perspective on Health & Thriving



Supportive of IOM principles and aims, a Thriving Health System supports persons/patients, communities and their health professionals/providers, and the rest of the health support system in continuing to innovate and find better ways to achieve health and thriving.

Person & Community's Perspective on Health & LT Care Needs	Aims for Health & LT Care Performance/Quality					
	Safe	Effective	Person/Patient-centered	Timely	Efficient	Equitable
Staying healthy	+	+	+	+	+	+
Getting better	+	+	+	+	+	+
Living as well as possible with illness or disability	+	+	+	+	+	+
Coping as well as possible with the end of life	+	+	+	+	+	+

Figure 8.3. “U.S. Institute of Medicine Six Aims & Person’s Perspective on Health.”

The first step is to put in place the Primary Health Supports and connect them to us and the rest of Health Support. We need to organize the existing Health Support elements so they better provide and coordinate health support. We need a lifetime electronic health record that tracks and appropriately shares both our interactions with health systems and our own personal health-related behaviors and conditions. We need our Primary Health Support to appropriately share our health information accurately with whom we want when we want and how we want.

We are more likely to be well with a Primary Health Support (PHS) partner in a Thriving Health System.

While much of being well can be done by ourselves, we are more likely to be well if we have an effective Primary Health Support as a partner. A partner who brings more knowledge than we have and who supports our efforts to be well. This partner will often be an individual primary care physician but may be a small team by adding a Nurse Practitioner or Physician Assistant or other health support. It may include a Care Coordinator (often a nurse or social worker) who partners with the person and PHS. A Care Coordinator can be especially helpful when a person is experiencing multiple health issues. It may also be a non-healthcare person with enough knowledge and skills to be this supportive partner.

Our PHS partner knows us, knows our key health factors, know our health-related behaviors, know our living and work environment, and provides continuity of care over as much of our lifetime as possible. Our PHS partner helps us stay healthy, helps us get better faster when we are ill or injured, helps us live with illness or disability, and helps us cope with the end of life. (Figure 8.4. “Persons & Their Health Support.”)

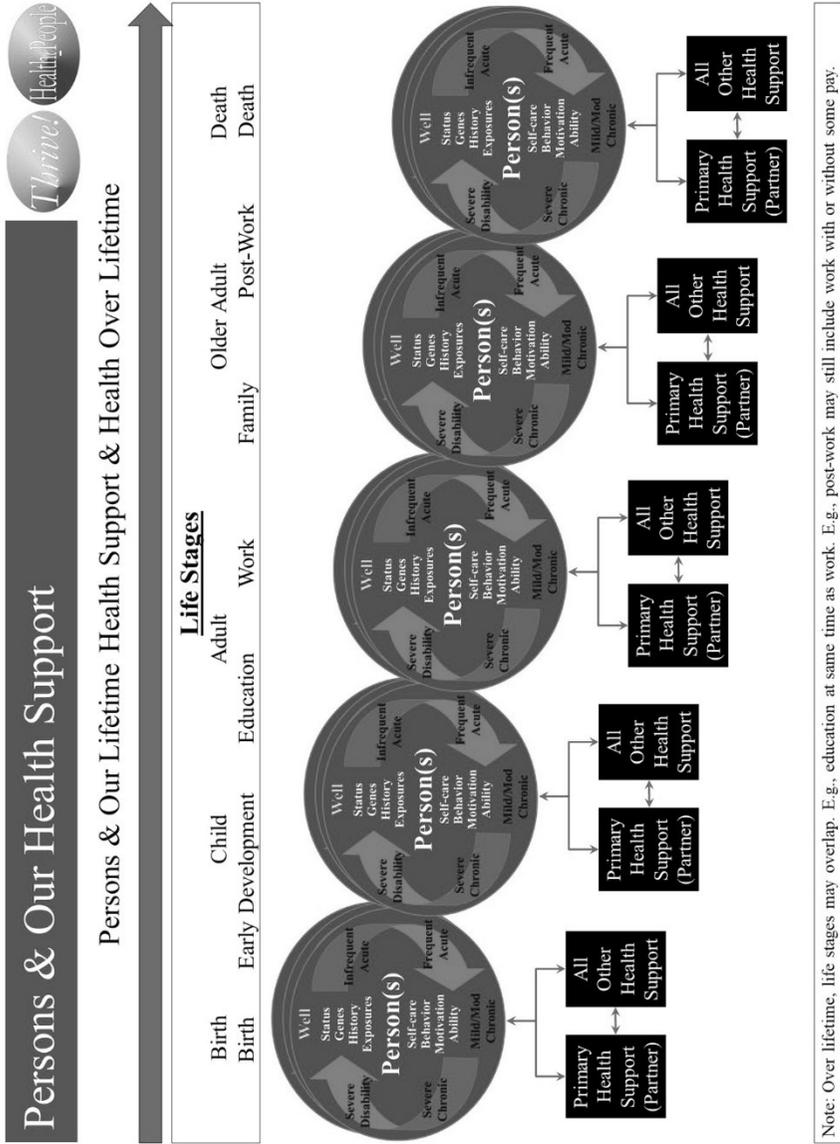


Figure 8.4. “Persons & Our Health Support.”

We are more likely to be well by using all needed Health Support partners in a Thriving Health System.

To address the full range of health conditions we may face in our lives, our Primary Health Support and we both need Health Support as partners. We need partners to help successfully address health conditions such as an acute illness or injury, a chronic illness and/or a disability. Each of these health conditions often require additional skills and knowledge. Maybe a specialist or subspecialist. Maybe rehabilitation people. Maybe a therapist of one kind or another. Maybe home or community care people. Maybe a pharmacist. Maybe a surgeon. Maybe a pathologist. Maybe a palliative or hospice care team.

Outside of traditional health care, others will have the skills and knowledge to be partners and help address health conditions. This includes family and friends, non-health people (e.g. social services and financial assistance), spiritual healers, public health, personal assistants (e.g. for people with disabilities), school health, and occupational health.

Depending on our need, any of these people may have an important role in keeping us healthy, helping us get better faster, helping us live with illness or disability, and/or helping cope with the end of life.

Our having “Health Support” is more and better than just having “traditional health and medical care”.

To keep ourselves healthy, traditional health and medical care are not enough. Traditional health and medical care have a very important role to play, but we need more and better support. Full Health Support is more complete and is the full range of people and services that can help us be as healthy as possible. This includes the partners described above. But it also includes electronic health support (e.g. internet information, apps and devices, messaging, our personal health record) and non-prescription devices, sensors, supplements and treatments. A Thriving Health System has the types of health support of the current system plus other important health support.

At the center of a Thriving Health System is the person or persons and their Primary Health Support. Together, they access whatever health support is wanted or needed. Traditional health support services may include other primary health care, specialty health care, subspecialty health care, inpatient health care, mental health care, home health care, and short-

and long-term nursing home care. When needed for a severe or terminal illness, health support may also include hospice and palliative care. When a person has a disability, health support may include personal assistance or home care. When a person has multiple health-related issues, a Care Coordinator is especially important. This is most but not all the health support that is wanted, needed and should be provided. (Figure 8.5. “Thriving Health Systems – Person and Primary and Other Health Support.”)

There are many other types of health support that are part of a Thriving Health System. Public health, both for an individual person and for a community’s persons, provides a number of health support functions. Private health organizations, often organized around a specific illness or injury, provide education and other health support functions. Prevention of illness and injury support may come from any of these. There is health support focused on addressing addiction. There are many other therapy services, including acupuncture, music, massage, art and dance. There is health support using acupuncture. There is health support provided by Native American and other healers. There is health information that is provided through understanding a person’s history, family history, environmental history, work history and genetic makeup.

In a Thriving Health System, health support is whatever support the person wants and needs that will improve or maintain health or will help a person with a disability or a terminal illness or injury. The PHS partners with the person to make best use of any or all available health support.

Together in a Thriving Health System, all this health support best supports the person and her/his PHS as they partner to help the person stay healthy, get better faster, live as well as possible with illness or disability, and cope as well as possible with the end of life.

How is a Thriving Health System best organized to help us?

A Thriving Health System for a community may provide health support via a fully integrated health system (single organization with Primary Health Support at the center) and/or partially-integrated health systems (well-connected multiple organizations with one or more Primary Health Support at one or more centers). They both can support a person and her/his PHS and other Health Support. (Figure 8.6. “Thriving Health Systems - Person- & Community Centered Organizations.”)

Thriving Health Systems – Person & Health Support

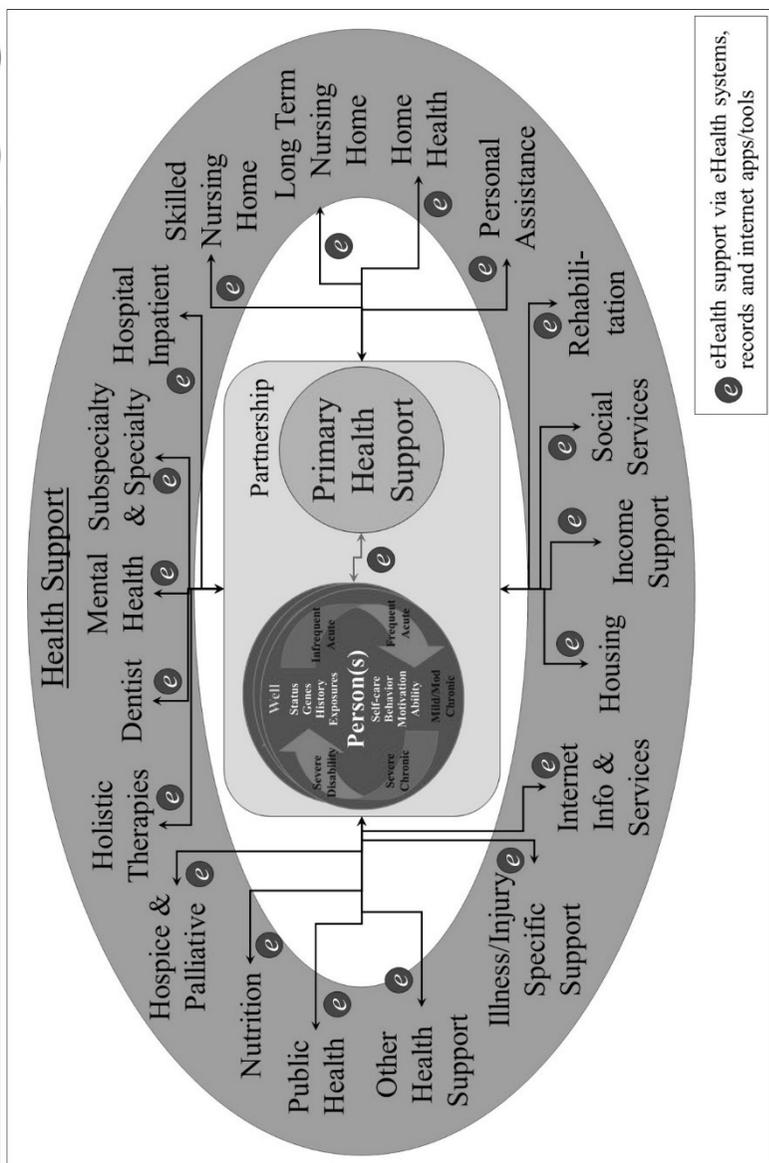


Figure 8.5. “Thriving Health Systems – Person and Primary and Other Health Support.”

Thriving Health Systems - Person- & Community Centered Organizations

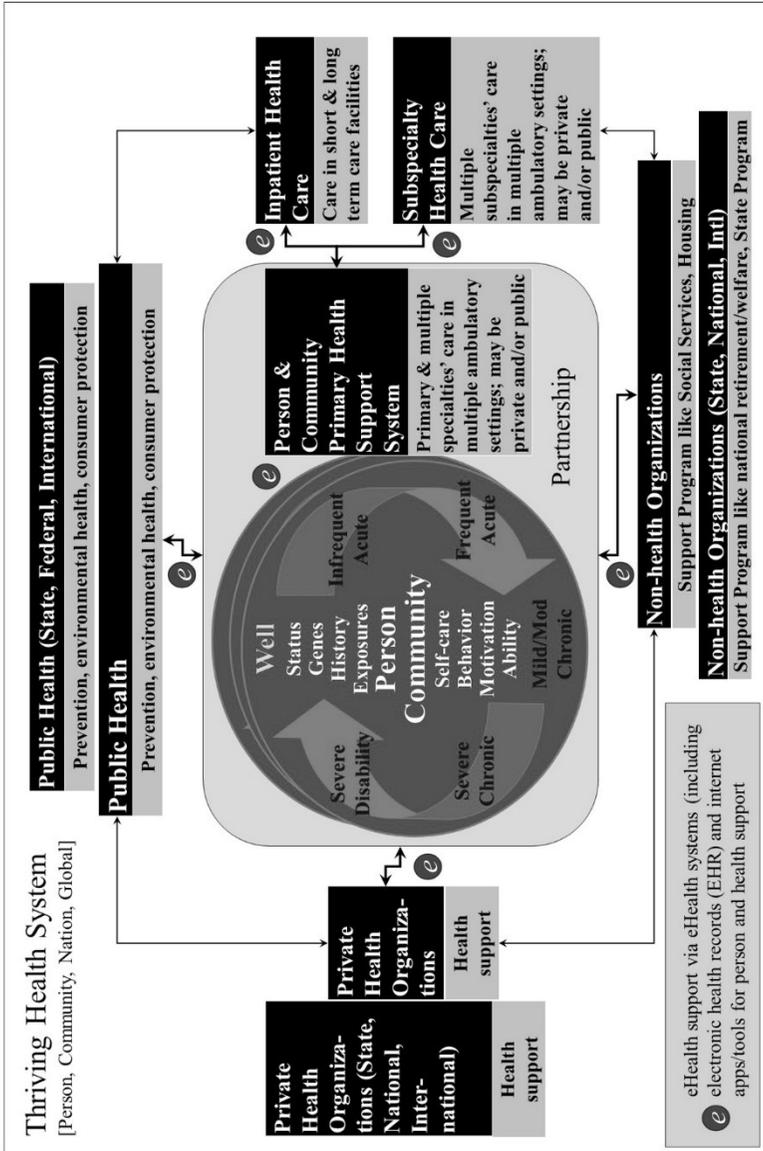


Figure 8.6. “Thriving Health Systems - Person- & Community Centered Organizations.”

Public and private health organizations provide health support that is key to maintaining and improving health. Together, they should include PHS and health support, including specialty and subspecialty care, hospital inpatient, skilled nursing home, long term nursing home, home health, personal assistance, rehabilitation, illness/injury specific support, public health, nutrition, hospice, palliative, holistic therapies, dentist and mental health. Some employers provide health support in- and/or outside of the workplace. Some schools provide health support.

Public and private non-health organizations provide support that is key to maintaining and improving health. Together, they can and should include social service, food, housing, income support, personal security, education, and emotional support.

Connecting all this health support and supporting the person and the Primary Health Support are electronic health records systems (EHR) that can be shared when needed, appropriate and authorized. EHR's must be able to exchange health information in a standardized way that supports effective decision-making on health support for the person and her/his PHS.

How does a Thriving Health System[®] support a person and a community?

A Thriving Health System supports a person or persons from beginning to end. Prior to birth, we, via our family, are partnered with a primary Health Support. Starting with our birth and through childhood, we have a PHS partner who may be a) a specialist like a Pediatrician or a non-physician PHS specializing in children or b) a generalist such as a Family Physician (or a non-physician generalist PHS). The PHS partners with us as individuals or with us and our family and helps us access all other Health Support. As children and as we grow, we take an increasing part in our own health. The more the better.

When we become an adult, we may change our specialist PHS partner to a Primary Care physician (e.g., Internal Medicine, Family Physician, Obstetrician/Gynecologist) or we may keep or change our generalist PHS. Our respective roles are similar. But as an adult and to the extent we can, we take on a stronger role in our own health. The more the better. If we have a family, we and our family may partner with a PHS as a family unit.

In our later years when any children have moved on to their own lives and we may experience more illness or disabling conditions, we may change our specialist PHS or generalist PHS to one who has more skills and knowledge with chronic and/or disabling health conditions. If we do not, we and our PHS will need to access the Health Support that can best help us manage a chronic or disabling condition. To the extent we are able, we should take a strong role in our health. The more the better.

If we have a terminal illness or are just nearing the end of our lives as part of normal aging, our PHS may be one who can best help us with coping with the end of life. We should live this part of our lives as independently and with as much dignity and quality of life as possible. The more the better.

At any point in our lives, we may experience a major chronic or disabling health condition that requires us to partner with a PHS with that skill and knowledge.

At any point in our lives, we may experience multiple health issues at the same time. This is when a Care Coordinator plays a central role.

In a Thriving Health System, all wanted and needed health support are physically accessible. This is particularly challenging in rural areas but more doable today with telehealth and internet resources. Special provisions are made for people with physical or cognitive limitations.

Even if all this health support is available, interconnected and accessible, financial access must be ensured. Health support must be affordable for all payers, including the person. Today, this is through private insurance, public insurance, charity, and self-pay. There are other and possibly better ways a Thriving Health System can ensure financial access. In a Thriving Health System, no person fails to receive wanted and needed health support due to financial limitations or inability.

What will our health and lives be like in a Thriving Health System[®]?

Starting with our birth and through childhood, we and our families and our Primary Health Support focus on how to be healthier in the way we live our daily lives. Eat and drink healthier. Exercise better. Avoid or minimize environmental risks. Get vaccinations. Get age-appropriate health exams. Treat illnesses and injuries early and well. Track our personal health. Use effective Health Support partners. Take responsibility for our and our

family's health and for our community's health. Together, these actions help us prevent illness and injury and be healthier.

When we become an adult, we take more responsibility for our own health. But we still do so in partnership with our PHS. We continue to eat and drink healthier. Exercise better. Avoid or minimize environmental risks. Get vaccinations. Get age-appropriate health exams. Treat illnesses and injuries early and well. Track our personal health. Learn more about our specific health risks from family history, genetic make-up, environmental risks and how we live our lives. Together, these actions help us prevent illness and injury, help us deal with illnesses and injuries earlier and better, and help us be healthier.

In our later years when any children have moved on to their own lives and we may experience more illness or disabling conditions, we continue with our PHS and with what we have been doing throughout our adulthood. But now we may be experiencing even more illnesses, more disabling conditions, more of these at the same time and more severe versions of these. We may add a Care Coordinator to the team. Together, we and our PHS help us prevent illness and injury, help us deal with illnesses and injuries earlier and better, help us reduce the severity of these, help us better deal with simultaneous illnesses and injuries, help us better cope with a chronic or disabling condition, help us better deal with simultaneous treatments (e.g. multiple drugs), and help us be healthier.

If we have a terminal illness or are just nearing the end of our lives as part of normal aging, our PHS may be one who can best help us with coping with the end of life. We still try to be as healthy as we can be given that we are nearing the end. Managing pain better. Prioritizing what health interventions are done or not done. Addressing emotional issues better for ourselves and our family and friends. Making sure we have our final arrangements in order. Handling the end of our lives as we want and with dignity.

Across and throughout our lives, we effectively use effective Health Support partners. We take responsibility for our and our family's health and for our community's health.

We want our health "status" to be healthy and thriving. (Figure 8.7. "Healthy & Thriving Status – Move Worst to Best.")

Healthy & Thriving Status – Move Worst to Best

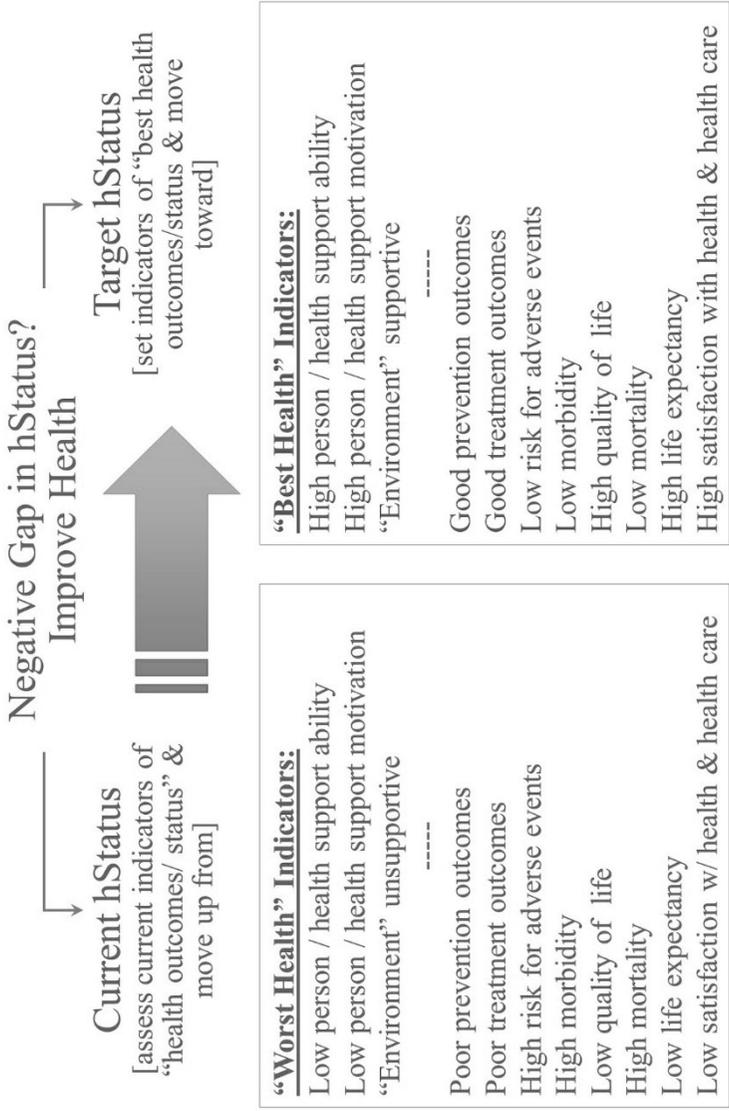


Figure 8.7. “Healthy & Thriving Status – Move Worst to Best.”

It is worst when we experience low person / health support ability, low person / health support motivation, “environment” unsupportive, poor prevention outcomes, poor treatment outcomes, high risk for adverse events, high morbidity, low quality of life, high mortality, low life expectancy, and low satisfaction w/ health & health care.

It is best when we experience high person / health support ability, high person / health support motivation, “environment” supportive, good prevention outcomes, good treatment outcomes, low risk for adverse events, low morbidity, high quality of life, low mortality, high life expectancy, and high satisfaction with health & health care.

We need to move each element of our “health” from being worst to being best. Move to best outcomes and status. Move to healthy and thriving. We best do that in a Thriving Health System.

Our having Thriving Health Systems can and should achieve healthy and thriving people and communities for all everywhere.

Thriving Health Systems have a vision and strategy to achieve that vision of healthy and thriving people and communities for all everywhere. (Figure 8.8. “Thriving Health Systems – Vision & Strategy.”). The vision is that we are the most healthy and thriving that we can be.

The strategy is for us to be as healthy and thriving as we can be by doing the following:

- Stop actions that decrease health.
- Support actions that increase health.
- Do interventions that best achieve the highest levels of health.
- Do interventions that best prevent more poor health.
- Do interventions that best move up from poor health.

This is the HealthPeople® vision for Thriving Health Systems and the communities they support. As people, communities, countries, and world, we should proceed toward the vision of achieving healthy and thriving people and communities for all everywhere.

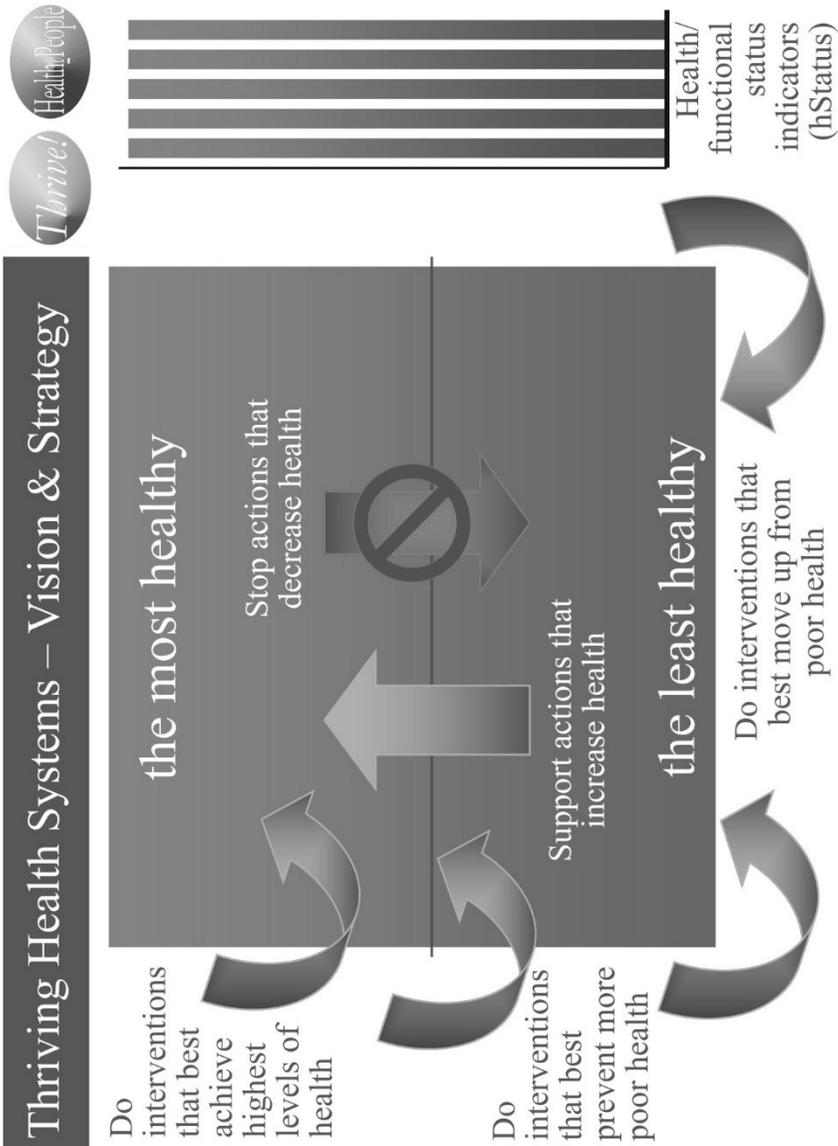


Figure 8.8. “Thriving Health Systems – Vision & Strategy.”

We do this via a strategy of Thriving Health Systems for all people everywhere. Thriving Health Systems are self-perpetuating, very affordable, easily accessible, “e” enabled, person-centered, prevention-oriented, high quality and are producing high health and well-being outcomes and status. Such Thriving Health Systems, partly physical and partly virtual and put into place by collaborative private and public partnerships, will greatly improve accessibility, quality, and affordability for all people everywhere.



Chapter 9. First People Thriving Health Systems[©] - Achieving healthy and thriving First People.

Ideal System for Achieving Healthy and Thriving Future for All First People

One community that would greatly benefit from a Thriving Health System is the community of First People.²⁰ For that reason, a First People Thriving Health System is detailed here.

In their lives as First People, if they survive birth, only two things are sure about their health. They are born. They die. Everything else varies from person to person and over a person's lifetime.^{21 22}

²⁰ First People are the people and their descendants who first live in a geographic area. Sometimes, the term "Indigenous" is used to refer to them.

²¹ If First People should decide to build and sustain a First People Thriving Health System, it must be theirs. They must own, control and sustain it.

²² The focus of this book is on health. But for First People to be truly thriving, they need more than a thriving health system. They need a full thriving system that helps them survive and thrive for all their lives and for their whole community. Much more on how to achieve thriving for all can be found at ThrivingFuture.org and Thrivism.world

Better than their current “health system”, a First People Thriving Health System[®] gives First People their best chance to be healthy and experience well-being throughout their lifetime.²³ Their having a Thriving Health System owned, controlled and sustained by them for their community ensures they are healthier people in a healthier community. (Figure 1. First People Thriving Health Systems.)

First People Thriving Health Systems

Vision – Healthy and thriving First People.

Mission - Achieve high health and thriving status for all First People persons and their communities.

Strategy - Develop First People Thriving Health Systems everywhere that are person and community-centered. That are self-perpetuating, affordable, accessible, “e” enabled, person-centered, prevention-oriented, and providing high quality health support. That are owned, controlled and sustained by First People. That produce high health and thriving outcomes and status.

Figure 1. First People Thriving Health Systems.

²³ Thriving Health Systems are comprehensive health systems that can be of almost any size and for any type of community. Community includes legal communities (e.g., village, town, city, county, State, nation), geographic areas (e.g., regions), groups (e.g. racial/ethnic groups, affinity groups), and world.

A First People Thriving Health System has persons and their communities at the center. At the center is the person and the person's Primary Health Support surrounded by all needed and wanted Health Support. It adjusts when locations, time, person, and community change. Takes into account all of personal and community characteristics and all of health and well-being. Understands personal and community environment and its impact on health and well-being. Understands and uses the full range of health and thriving support to improve and sustain health and well-being. Connects all of these, with information and other support, into a fully integrated and supportive system for persons and communities. (Figure 2. First People Thriving Health Systems Ensure Healthier People)

First People want to be as well as possible over their lifetime.

First People are born. If they live long enough, they are children, adults, and older adults. Then they die. Over their lifetime and depending on how long they live, they may go through early development, may learn, may work, may expand their family, and may have post-work time. Then they die.

If they are fortunate, they live through all of these until they die a quick and painless death. If they are truly fortunate, they are well through all of these. Very few will be that fortunate under the current health system.

During their lives after they are born, they may be well, have infrequent acute illness and/or injury, have frequent illness and/or injury, have mild, moderate and/or severe chronic illness, and/or have mild, moderate and/or severe disability. Then they die.

They should want to be well for as much of their lives as possible. They should do everything reasonable and possible to be well. While they may be able and willing to do much by themselves, they will be more successful with a truly good health partner (a Primary Health Support (PHS)) with all needed and wanted Health Support in a truly good health system (a First People Thriving Health System (THS)). (Figure 3. Persons & Their Lifetime Health)

First People Thriving Health System Ensures Healthier People

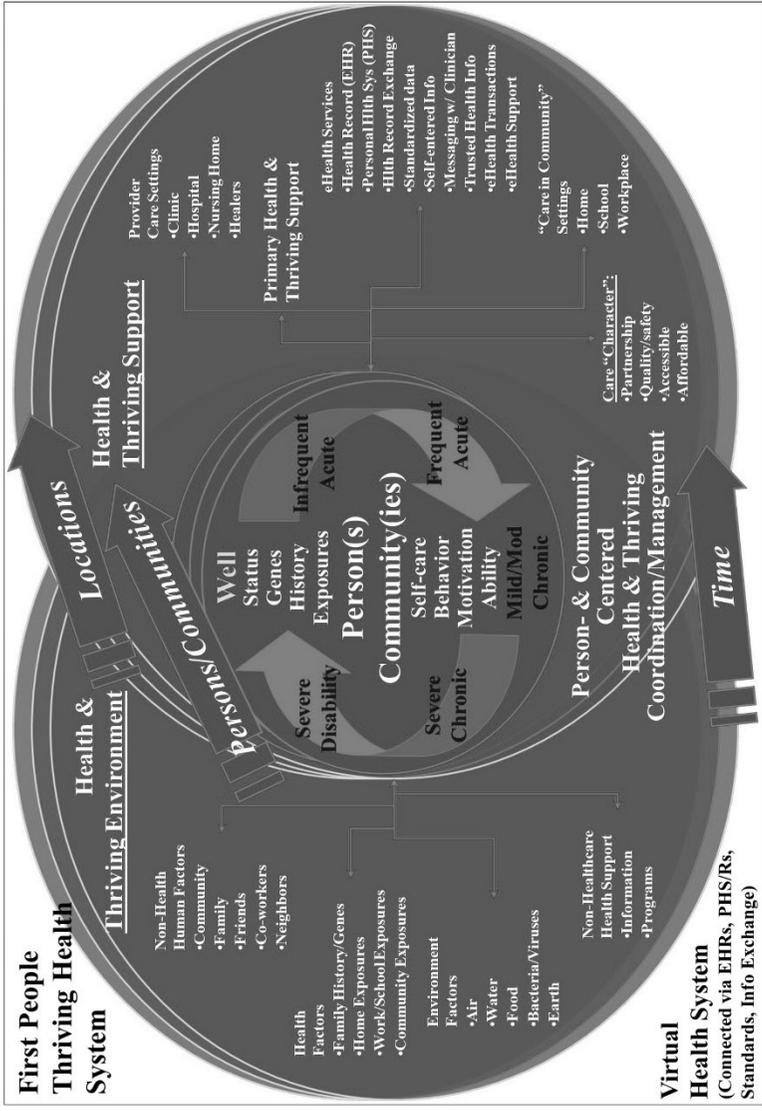


Figure 2. First People Thriving Health Systems Ensure Healthier First People.

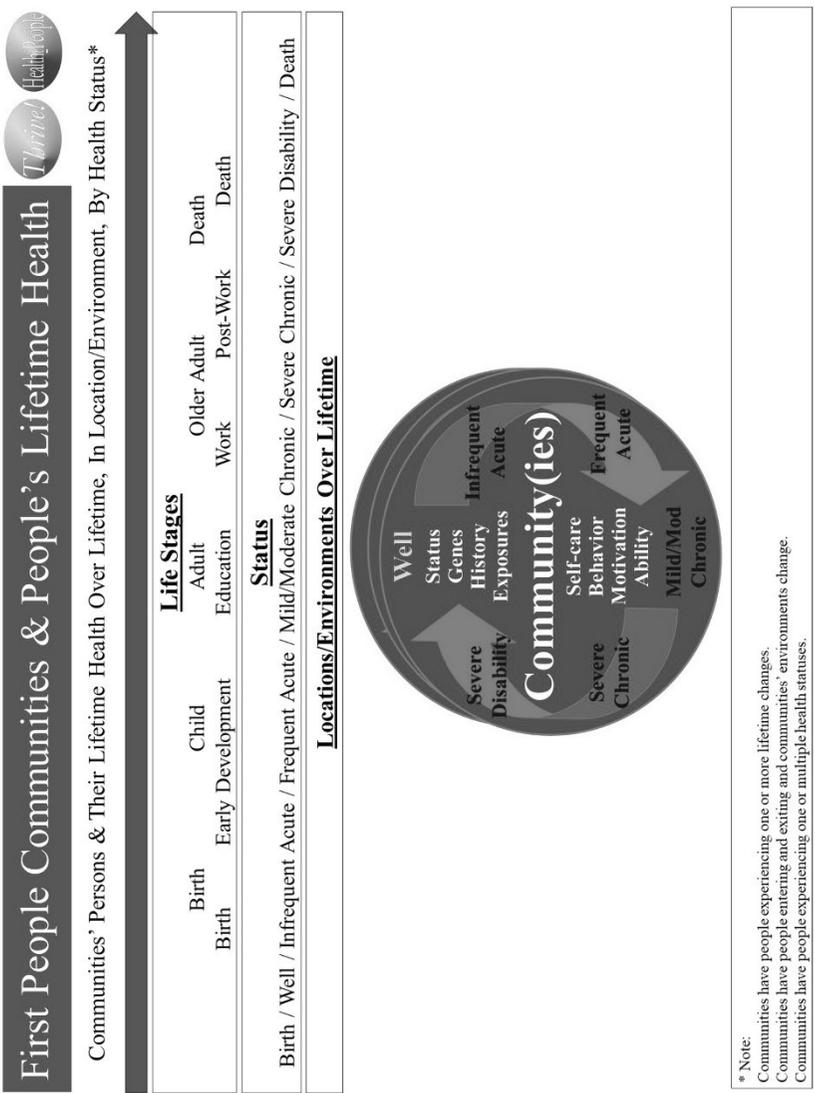


Figure 3. First People Communities & People's Lifetime Health.

First People are more likely to be well in a First People Thriving Health System[®].

The U.S. Institute of Medicine (IOM) [now the National Academy of Medicine] provides a way of viewing a health system's performance through First People's eyes. What they want from a health system is that they are "staying healthy", "getting better", "living with illness or disability" and/or "coping with the end of life." Taking this one more positive step via a First People Thriving Health System, they are "staying healthy", "getting much better and faster", "living as well as possible with illness or disability" and/or "coping as well as possible with the end of life." Some First People may experience more than one of these at the same time. IOM's quality reports have six aims for a high performing health system. They stress it should be safe, effective, person/patient-centered, timely, efficient, and equitable.

Utilizing their guidance, a First People Thriving Health System should perform well from the person's perspective and achieve the IOM aims. As depicted in the attached table, a Thriving Health System would "check all the boxes." (Figure 4. U.S. Institute of Medicine Six Aims & Person's Perspective on Health) As suggested earlier, a First People Thriving Health System can, should and will do much better. First People are more likely to be well by using all needed Health Support partners in a First People Thriving Health System[®]. A First People Thriving Health System for a First People community provides health support via a fully integrated health system

Institute of Medicine Six Aims & Person & Community's Perspective on Health & Thriving



Supportive of IOM principles and aims, a Thriving Health System supports persons/patients, communities and their health professionals/providers, and the rest of the health support system in continuing to innovate and find better ways to achieve health and thriving.

Person & Community's Perspective on Health & LT Care Needs	Aims for Health & LT Care Performance/Quality					
	Safe	Effective	Person/ Patient-centered	Timely	Efficient	Equitable
Staying healthy	+	+	+	+	+	+
Getting much better & faster	+	+	+	+	+	+
Living as well as possible with illness or disability	+	+	+	+	+	+
Coping as well as possible with the end of life	+	+	+	+	+	+

Figure 4. U.S. Institute of Medicine Six Aims & Person's Perspective on Health.

To get to the health support First People truly want and need, they need a Thriving Health System that has each of them and their Primary Health Support at the center. Together as health partners from birth to death, they access whatever other health support is needed to help them stay healthy, helps them get much better and faster when ill or injured, helps them live as well as possible with illness or disability, and helps them cope as well as possible with the end of life.

Do First People have to abandon their current health systems (to the extent they are functioning systems today and tomorrow) or can they transform what they have into Thriving Health Systems? Depending on the “health” of a particular current health system for a particular First People community, they may abandon it or they can transform it. Many of the elements exist in their current health systems. But they are often insufficient, ineffective, not preventative, not well organized, not well connected and/or not communicating well.

The first step is to put in place the Primary Health Supports and connect them to First People and the rest of Health Support. Organize the existing Health Support elements so they better provide and coordinate health support. Improve and increase Health Support where it is insufficient and/or insufficiently effective. Improve and increase their preventative support. A lifetime electronic health record is needed that tracks and appropriately shares both persons interactions with health systems and their own personal health-related behaviors and conditions. Their Primary Health Support needs to appropriately share persons’ health information accurately with whom they want when they want and how they want.

First People are more likely to be well with a Primary Health Support (PHS) partner in a First People Thriving Health System[®].

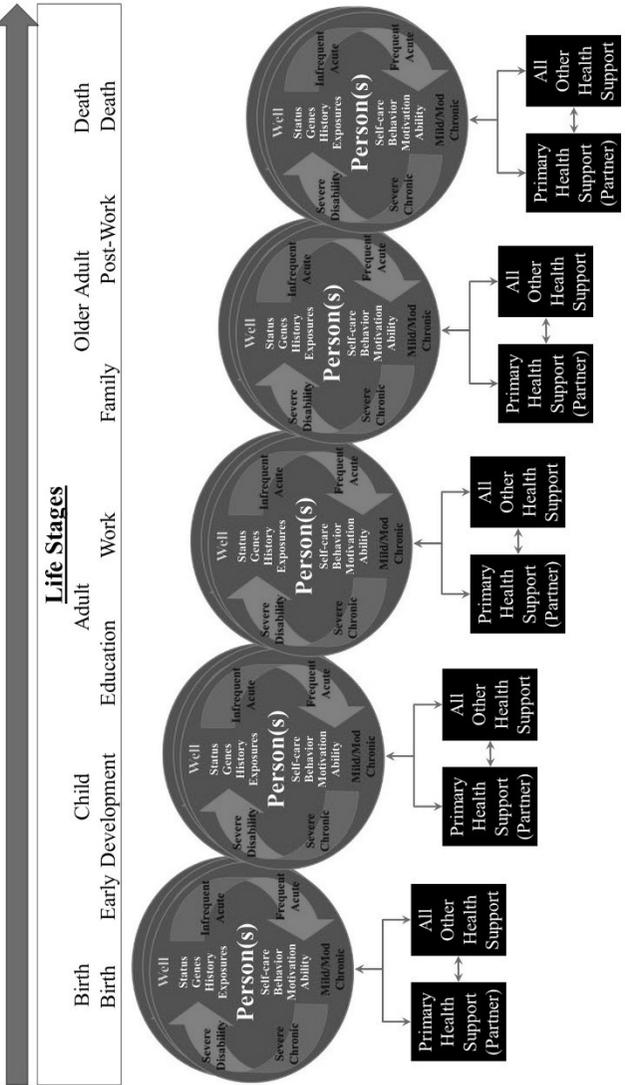
While much of being well can be done by themselves as First People, they are more likely to be well if they have an effective Primary Health Support as a partner. A partner who brings more knowledge than they have and who supports their efforts to be well. This partner will often be an individual primary care physician but may be a small team by adding a Nurse Practitioner or Physician Assistant or other health support. It may include a Care Coordinator (often a nurse or social worker) who partners with the person and PHS. A Care Coordinator can be especially helpful when a person is experiencing multiple health issues. It may also be a person, such as a First People healer, with enough knowledge and skills to be this supportive partner.

Their PHS partner knows the person or persons, knows their key health factors, knows their health-related behaviors, knows their living and work environment, and provides continuity of care over as much of their lifetime as possible. Their PHS partner helps person or persons stay healthy, helps them get better faster when they are ill or injured, helps them live with illness or disability, and helps them cope with the end of life. (Figure 5. First People Persons & Their Health Support)

First People Persons & Their Health Support



Persons & Their Lifetime Health Support & Health Over Lifetime



Note: Over lifetime, life stages may overlap. E.g., education at same time as work. E.g., post-work may still include work with or without some pay.

Figure 5. First People Persons & Their Health Support.

First People are more likely to be well by using all needed Health Support partners in a First People Thriving Health System[©].

To address the full range of health conditions First People may face in their lives, their Primary Health Support and they both need other Health Support as partners. They need partners to help successfully address health conditions such as an acute illness or injury, a chronic illness and/or a disability. Each of these health conditions often require additional skills and knowledge. Maybe a specialist or subspecialist. Maybe rehabilitation people. Maybe a therapist of one kind or another. Maybe home or community care people. Maybe a pharmacist. Maybe a surgeon. Maybe a pathologist. Maybe a palliative or hospice care team.

Outside of traditional health care, others will have the skills and knowledge to be partners and help address health conditions. This includes family and friends, non-health people (e.g. social services and financial assistance), spiritual healers, public health, personal assistants (e.g. for people with disabilities), school health, and occupational health. They as First People have their own people who bring long traditions of healing, bring the best parts of how they live and have lived, and play an important role in getting and keeping them healthy.

Depending on their need, any of these people may have an important role in keeping First People healthy, helping them get better and faster, helping them live with illness or disability, and/or helping cope with the end of life.

First People having “Health Support” is more and better than just having “traditional health and medical care”.

To keep their selves as First People healthy, traditional health and medical care are not enough. Traditional health and medical care have a very important role to play, but First People need more and better support. Full Health Support is more complete and is the full range of people and services that can help them be as healthy as possible. This includes the partners described above. It importantly includes First People healers and cultural support. It also includes electronic health support (e.g. internet information, apps and devices, messaging, personal health record) and non-prescription devices, sensors, supplements and treatments. A First People Thriving Health System has the types of health support of the current system plus all other important health support.

At the center of a Thriving Health System is the person or persons and their Primary Health Support. Together, they access whatever health support is wanted or needed. Traditional health support services may include other primary health care, specialty health care, subspecialty health care, inpatient health care, mental health care, home health care, and short- and long-term nursing home care. When needed for a severe or terminal illness, health support may also include hospice and palliative care. When a person has a disability, health support may include personal assistance or home care. Unique and important for First People is the traditional healer. When a person has multiple health-related issues, a Care Coordinator is especially important. This is most but not all the health support that is wanted, needed and should be provided. (Figure 6. First People Thriving Health Systems – Person and Primary and Other Health Support.)

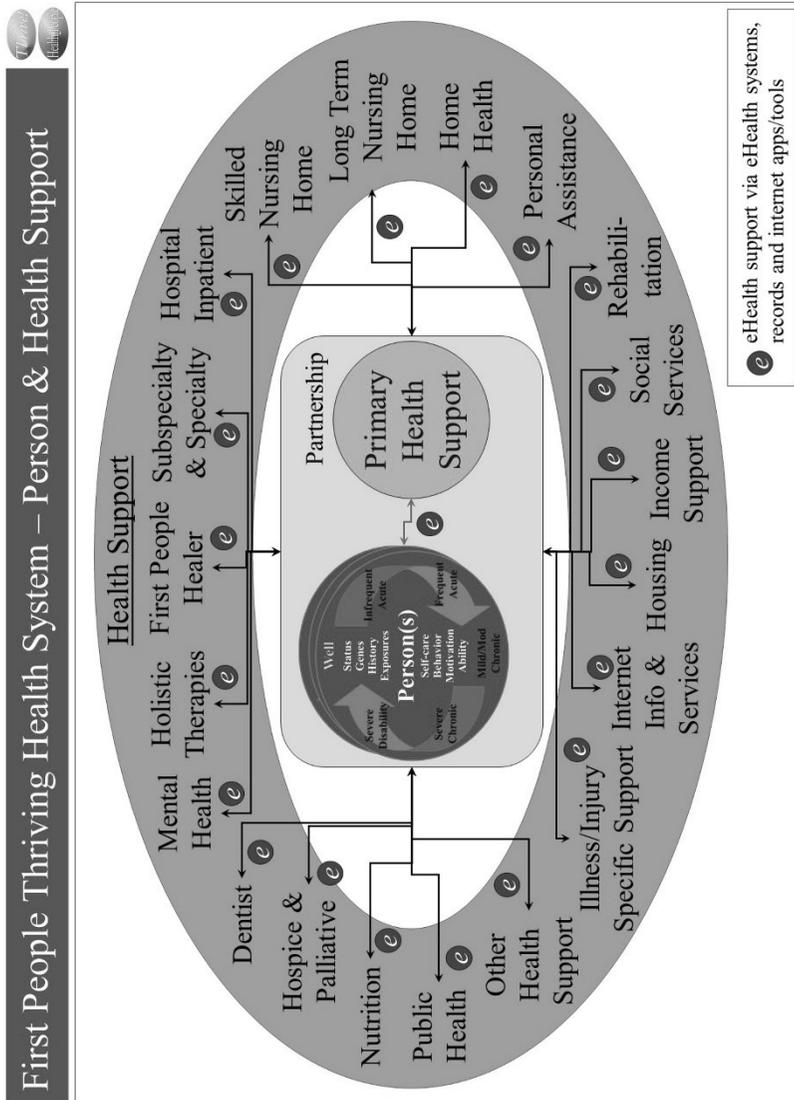


Figure 6. First People Thriving Health System – Person and Primary and Other Health Support.

There are many other types of health support that are part of a First People Thriving Health System. Public health, both for an individual person and for a First People community's persons, provides several health support functions. Private health organizations, often organized around a specific illness or injury, provide education and other health support functions. Prevention of illness and injury support may come from any of these. There is health support focused on addressing addiction. There are many other therapy services, including acupuncture, music, massage, art and dance. There is health support using acupuncture. There is health information that is provided through understanding a person's history, family history, environmental history, work history and genetic makeup.

Very importantly, there is health support provided by First People healers and other First People health and well-being support. There is the First People spiritual and cultural support. There is the First People community support. This unique health and well-being support is key to a First People Thriving Health System.

In a Thriving Health System, health support is whatever support the person wants and needs that will improve or maintain health or will help the person with a disability or a terminal illness or an injury. The PHS partners with the person to make best use of any or all available health support.

Together in a First People Thriving Health System, all of this health support best supports the person and her/his PHS as they partner to help the person stay healthy, get much better and faster, live as well as possible with illness or disability, and cope as well as possible with the end of life.

How is a First People Thriving Health System[®] best organized to help First People?

A First People Thriving Health System for a First People community may provide health support via a fully integrated health system (single organization with Primary Health Support at the center) and/or partially integrated health systems (well-connected multiple organizations with one or more Primary Health Support at one or more centers). They both can support persons, their PHS and other Health Support. (Figure 7. First People Thriving Health Systems - Person & Community Centered Organizations.)

Public and private health organizations provide health support that is key to maintaining and improving health. Together, they should include PHS and health support, including specialty and subspecialty care, hospital inpatient, skilled nursing home, long term nursing home, home health, personal assistance, rehabilitation, illness/injury specific support, public health, nutrition, hospice, palliative, holistic therapies, dentist, and mental health. Some employers provide health support in- and/or outside of the workplace. Some schools provide health support.

Public and private non-health organizations provide support that is key to maintaining and improving health. Together, they can and should provide needed social service, food, housing, income support, personal security, education, and emotional support.

First People communities, especially through strong tribal communities, will be in the best position to determine what support, including traditional healers, is most important to health and well-being and to ensure that support, depending their available resources, is provided.

Connecting all this health support and supporting the person and the Primary Health Support are electronic health records systems (EHR) that can be shared when needed, appropriate and authorized. EHR's must be able to exchange health information in a standardized way that supports effective decision-making on health support for the person and the person's PHS.

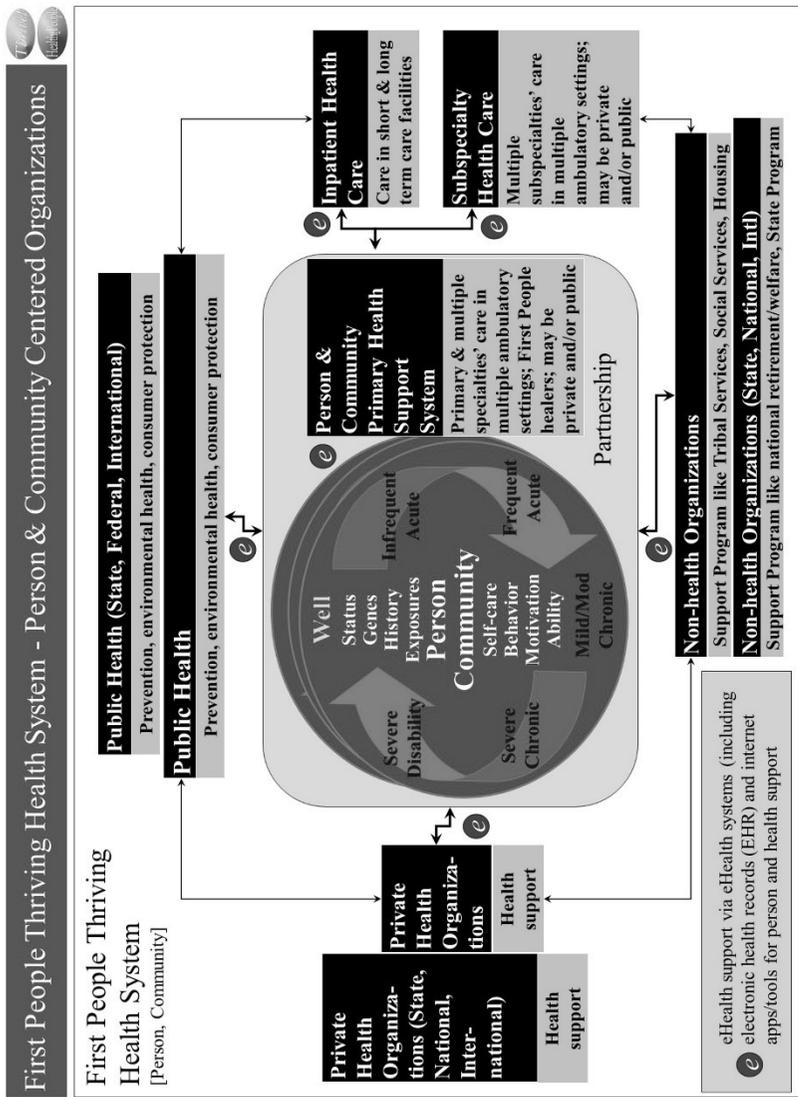


Figure 7. First People Thriving Health Systems - Person & Community Centered Organizations.

How does a First People Thriving Health System® support the person(s) and the community?

A First People Thriving Health System supports the person or persons from beginning to end. Prior to birth, they, via their family, are partnered with a primary Health Support. Starting with their birth and through childhood, they have a PHS partner who may be a) a specialist like a Pediatrician or a non-physician PHS specializing in children, b) a generalist such as a Family Physician, or c) or a non-physician PHS including a First People healer. The PHS partners with the person as individuals or with the person and their family and helps them access all other Health Support. As children and as they grow, persons take an increasing part in their own health. The more the better.

When persons become adults, they may change their specialist PHS partner to a Primary Care physician (e.g., Internal Medicine, Obstetrician/Gynecologist, Family Physician) or they may keep or change their generalist PHS or they may keep or change their First People healer. Their respective roles are similar. But as an adult and to the extent they can, they take on a stronger role in their own health. The more the better. If they have a family, they and their family may partner with a PHS as a family unit.

In their later years when any children may have moved on to their own lives and they may experience more illness or disabling conditions, they may change their specialist PHS or generalist PHS or First People healer to one who has more skills and knowledge with chronic and/or disabling health conditions. If they do not, they and their PHS will need to access the Health Support that can best help them manage a chronic or disabling condition. To the extent they are able, they should take a strong role in their health. The more the better.

If they have a terminal illness or are just nearing the end of their lives as part of normal aging, their PHS may be one who can best help them with coping with the end of life. They should live this part of their lives as independently and with as much dignity and quality of life as possible. The more the better.

At any point in their lives, they may experience a major chronic or disabling health condition that requires them to partner with a PHS with that skill and knowledge.

At any point in their lives, they may experience multiple health issues at the same time. This is when a Care Coordinator plays an important central role.

In a Thriving Health System, all wanted and needed health support are physically accessible. This is particularly challenging in rural areas but more doable today with telehealth and internet resources. Special provisions are made for people with physical or cognitive limitations.

Even if all this health support is available, interconnected, and accessible, financial access must be ensured. Health support must be affordable for all payers, including the person. Today, this is through private insurance, public insurance, charity and self-pay. There are other and possibly better ways a Thriving Health System can ensure financial access. For First People, ensuring financial access may be particularly challenging. In a Thriving Health System, no person fails to receive wanted and needed health support due to financial limitations or financial inability.

What will First People health and lives be like in a First People Thriving Health System[®]?

Starting with their birth and through childhood, they and their families and their Primary Health Support focus on how to be healthier in the way they live their daily lives. Eat and drink healthier. Exercise better. Avoid or minimize environmental risks. Get vaccinations. Get age-appropriate health exams. Treat illnesses and injuries early and well. Track their personal health. Use effective Health Support partners. Use spiritual, emotional and cultural support. Partner with family and friends. Take responsibility for their and their family's health and for their community's health. Together, these actions help them prevent illness and injury, be healthier and experience more well-being.

When they become adults, they take more responsibility for their own health and well-being. But they still do so in partnership with their PHS. They may add a Care Coordinator to the team. They continue to eat and drink healthier. Exercise better. Avoid or minimize environmental risks. Get vaccinations. Get age-appropriate health exams. Treat illnesses and injuries early and well. Use spiritual, emotional, and cultural support. Partner with family and friends. Track their personal health. Learn more about their specific health risks from family history, genetic make-up, environmental risks and how they live their lives. Together, these actions help them prevent illness and injury, help them deal with illnesses and injuries earlier and better, and help them be healthier.

In their later years when any children may have moved on to their own lives and they may experience more illness or disabling conditions, they continue with their PHS and with what they have been doing throughout their adulthood. But now they may be experiencing even more illnesses, more disabling conditions, more of these at the same time and more severe versions of these. They may add a Care Coordinator to the team. They use spiritual, emotional, and cultural support. Partner with family and friends. Together, they and their PHS help them prevent illness and injury, help them deal with illnesses and injuries earlier and better, help them reduce the severity of these, help them better deal with simultaneous illnesses and injuries, help them better cope with a chronic or disabling condition, help them better deal with simultaneous treatments (e.g. multiple drugs), and help them be healthier.

If they have a terminal illness or are just nearing the end of their lives as part of normal aging, their PHS may be one who can best help them with coping with the end of life. They may add a Care Coordinator to the team. They still try to be as healthy as they can be given that they are nearing the end. Managing pain better. Choosing what health interventions are done or not done. Addressing spiritual and emotional issues better for themselves and their family and friends. Making sure they have their final arrangements in order. Handling the end of their lives as they want and with dignity.

Across and throughout their lives, they effectively use effective Health Support partners. They take responsibility for their and their family's health and for their community's health.

They want their health and well-being "status" to be healthy and thriving. (Figure 8. Healthy & Thriving Status – Move Worst to Best.)

It is worst when they experience low person / health support ability, low person / health support motivation, unsupportive "environment", poor prevention outcomes, poor treatment outcomes, high risk for adverse events, high morbidity, low quality of life, high mortality, low life expectancy, and low satisfaction w/ health & health care.

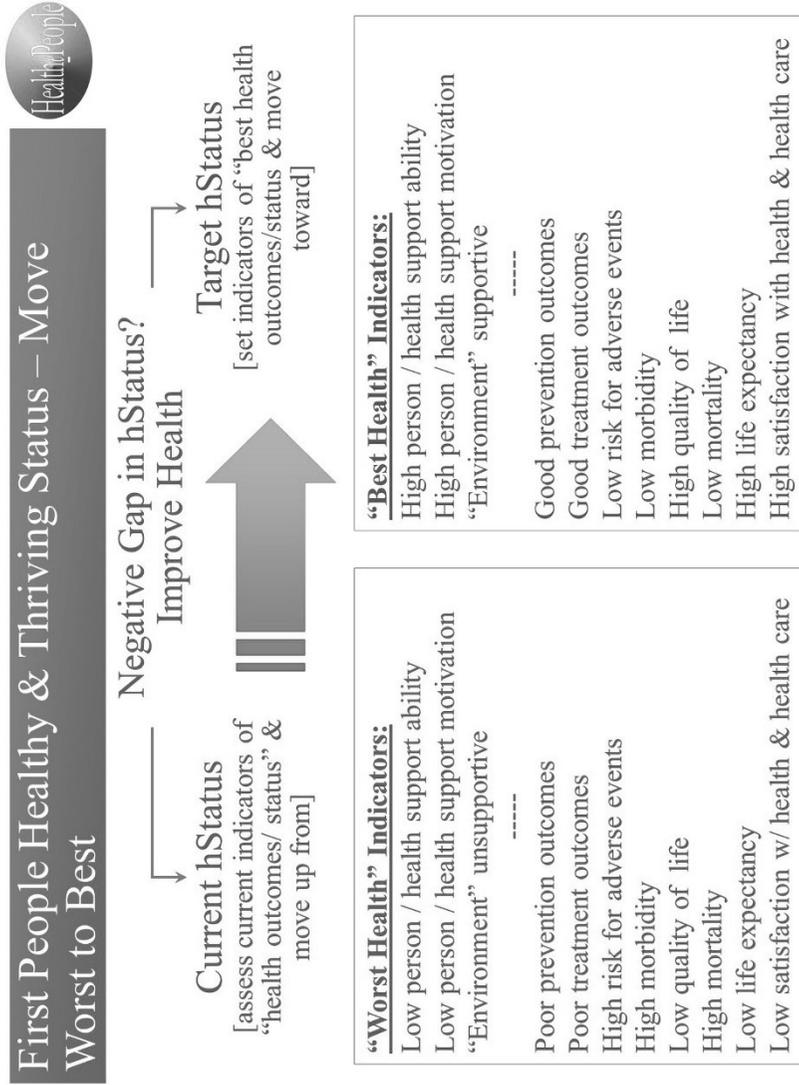


Figure 8. First People Healthy & Thriving Status – Move Worst to Best.

It is best when they experience high person / health support ability, high person / health support motivation, supportive “environment, good prevention outcomes, good treatment outcomes, low risk for adverse events, low morbidity, high quality of life, low mortality, high life expectancy, and high satisfaction with health & health care.

They need to move each element of their “health” and “well-being” from being worst to being best. Move to best outcomes and status. Move to healthy and thriving. They best do that in a First People Thriving Health System.

First People having First People Thriving Health Systems can and should achieve healthy and thriving people and communities for all First People everywhere.

First People Thriving Health Systems have a vision and strategy to achieve that vision of healthy and thriving people and communities for all everywhere. (Figure 9. First People Thriving Health Systems – Vision & Strategy). The vision is that they are the most healthy and thriving that they can be.

The strategy is for us to be as healthy and thriving as they can be by doing the following:

- Stop actions that decrease health and well-being.
- Support actions that increase health and well-being.
- Do actions that best achieve the highest levels of health and well-being.
- Do actions that best prevent more poor health and less well-being.
- Do actions that best move up from poor health and less well-being.

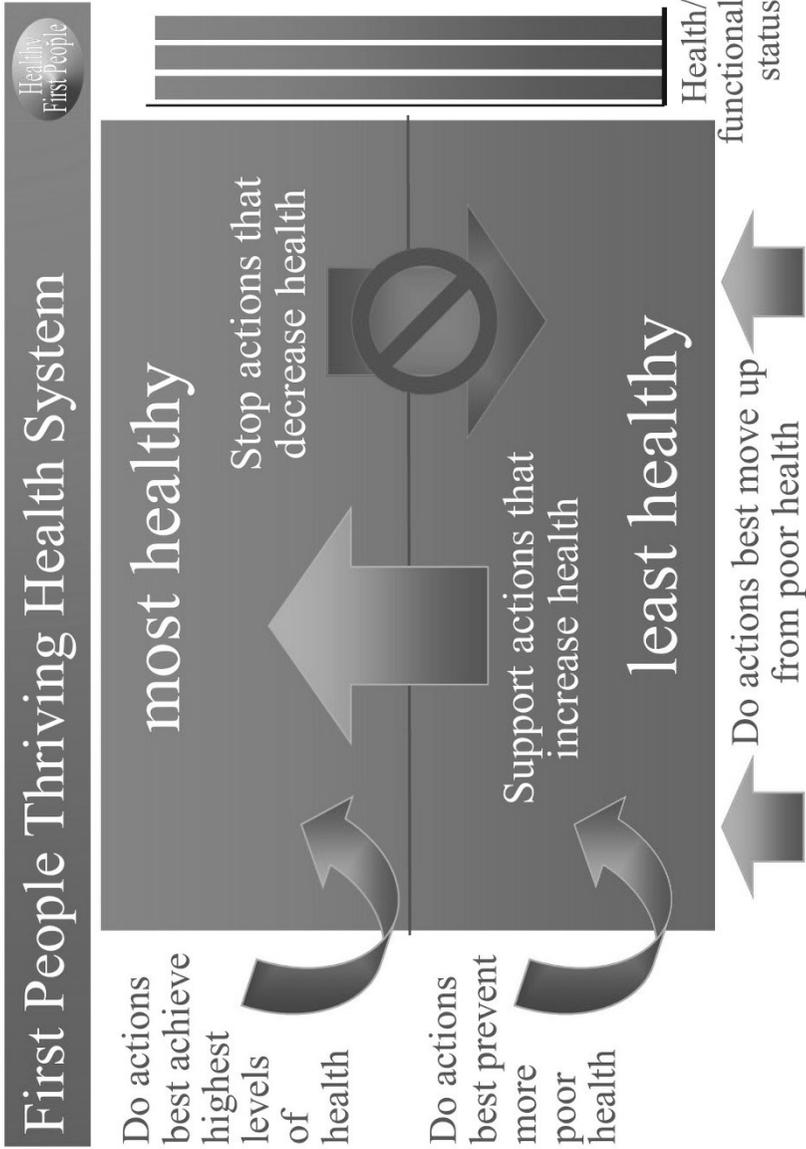


Figure 9. First People Thriving Health System – Vision & Strategy.

This is the **HealthPeople** vision for First People Thriving Health Systems and the communities they support. As First People and First People communities, they should proceed toward the vision of achieving healthy and thriving First People and First People communities everywhere.

They do this via a strategy of First People Thriving Health Systems for all First People everywhere. First People Thriving Health Systems are self-perpetuating, very affordable, easily accessible, “e” enabled, person-centered, prevention-oriented, high quality and are producing high health and well-being outcomes and status.

Such Thriving Health Systems, partly physical and partly virtual and put into place by collaborative private and public partnerships, will greatly improve accessibility, quality and affordability for all First People everywhere.

Such Thriving Health Systems should be owned, controlled, and sustained by First People. They should produce high health and thriving outcomes and status for First People.

First People can and should build and sustain First People Thriving Health Systems for all First People everywhere. They can and should achieve substantially healthier First People and First People communities. All First People everywhere deserve and should expect nothing less.



Chapter 10. HealthePeople® - HealthePeople Strategy Before, During and After Pandemics.

Ideal System for Dealing with Pandemics

HealthePeople Strategy Before, During and After Pandemics.

HealthePeople's primary focus is on people getting and being healthy. And it understands and takes on challenges posed by human pandemics.

COVID-19 is just the latest and one of the most challenging.

HealthePeople, as should current health system(s), will succeed by successfully addressing human pandemics simultaneously with achieving and maintaining healthy persons, communities, countries, and world.

(Figure 10.1. Microscope View of SARS-CoV-2 Virus. Source: National Institutes of Health.)

In the past, the world had the Spanish Flu pandemic. More recently, the COVID-19 pandemic. There have been others in the past. In the future, there will be other pandemics. HealthePeople enables us to better prepare for, manage during, and handle the aftermath of any pandemic. (Figure 10.2. Spanish Flu 1918. Source: National Museum of Health and Medicine (NMHM), Military Health System, DoD.)

When in place, HealthePeople Thriving Health Systems provide a coordinated community strategy to successfully manage pandemics (like COVID) and all other health conditions (non-COVID) simultaneously and successfully.

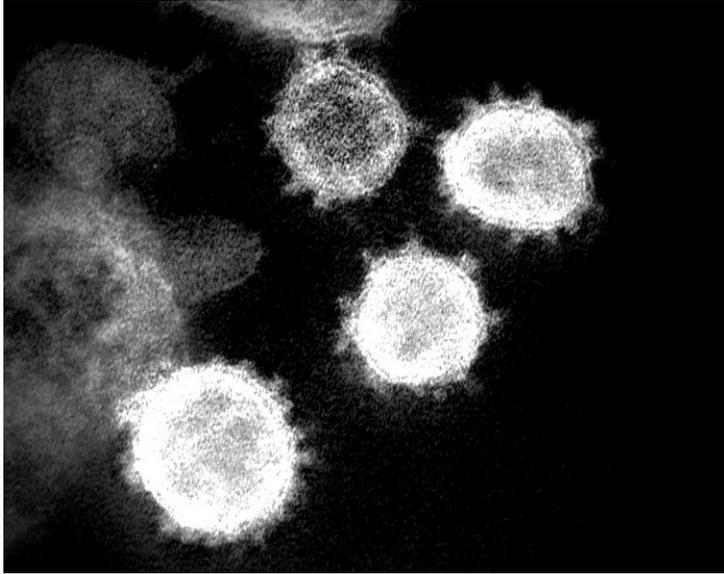


Figure 10.1. Microscope View of SARS-CoV-2 Virus. Source: National Institutes of Health.



Figure 10.2. Spanish Flu 1918. Source: National Museum of Health and Medicine (NMHM), Military Health System, DoD.

Pandemics. Keep in mind that an infectious disease can be initiated and spread by human or non-human action. A person could take an infectious agent from nature or from a lab or from some other source and intentionally or unintentionally spread it to other persons. A mistake in a lab is one example. Biological warfare or terrorism is another. An animal, for example a bat or monkey, could host an infectious agent and transmit it to another animal or directly to humans. Humans and/or animals could spread it further to many people.

Keep in mind that some infectious agents can infect other people when the infected person is asymptomatic, mildly symptomatic, or severely ill. There could even be cases where the person may not be infected but can be carrier and may infect other persons.

It is critical to look for early signs of infection and related illness. When an infection is identified when only one or a few people are infected, it can generally be controlled. If not and depending on the infectious agent's transmissibility, infections may quickly spread and be difficult to control. Spanish Flu and COVID-19 are examples of infections not identified early enough and not controlled early enough. Both had devastating consequences.

Key lesson from the Spanish Flu and COVID-19 is that the next pandemic may be different than any previous pandemic and may require different strategies, a different surveillance and response system, different vaccines, different protective measures, different treatments, and may have different near and long term consequences for people and their communities, countries and world.

Keep in mind that some pandemics are not one-time pandemics. Some infectious agents can persist and some vaccines need to be repeated annually. Some infections become endemic. That is, they continue and they continue to be a threat on a year-to-year basis.

Pandemics – Thriving Health Systems. Better than our current “health system” and much better for dealing with pandemics, a Thriving Health System gives us our best chance to be healthy throughout our lifetime.²⁴ Our having a Thriving Health System for our community ensures we are healthier people in a healthier community. We are better prepared to deal with pandemics.

A Thriving Health System has persons and their communities at the center. At the center is the person and the person’s Primary Health Support surrounded by all needed and wanted Health Support. It adjusts when locations, time, person, and community change. It takes into account all of personal and community characteristics and all of health and well-being. It understands personal and community environment and its impact on health and well-being. It understands and uses the full range of health and thriving support to improve and sustain health and well-being. It connects all of these, with information and other support, into a fully integrated and supportive system for persons and communities.

When faced with the challenges unique to pandemics, a Thriving Health System successfully prepares for, successfully manages during, and successfully deals with an onerous or less onerous aftermath. (Figure 10.3 “Thriving Health Systems Ensure Healthier People.”)

Pandemic – Person-Centered Health. Every person will be differently affected by a pandemic. Every person is different with respect to the person’s health and non-health conditions. Different in how the person interacts with a community health system. To achieve the optimal health requires optimal personal health by the person and optimal interaction with a community health system by the person. How this all optimally supports the person is shown in Figure 10.3.)

²⁴ Thriving Health Systems are comprehensive health systems that can be of almost any size and for any type of community. Community includes legal communities (e.g., village, town, city, county, State, nation), geographic areas (e.g., regions), groups (e.g. ethnic groups, affinity groups), and world.

Thriving Health Systems Ensure Healthier People

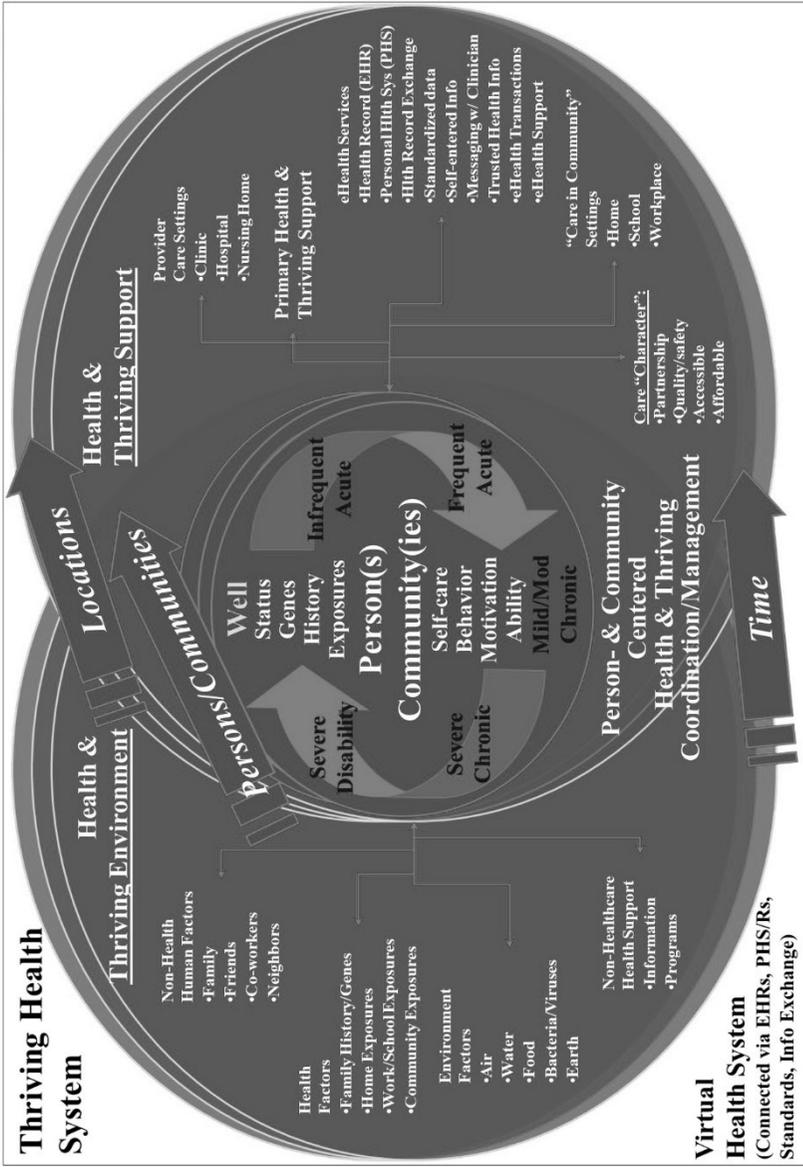


Figure 10.3. “Thriving Health Systems Ensure Healthier People.”

Pandemic – Prepare For and Prevent. At all levels (community, country, world), there must be an effective surveillance and response system in place and fully functional.

Person. Each person should manage own personal health as successfully as possible. First key is for person to be as healthy as possible before any pandemic. This increases person’s ability to prevent infection, reduce pandemic producing infection and death, and reduce recovery time and long term health consequences. Second key is prevention of infection by personal protective measures – immunization, personal protective equipment (e.g. masks, gowns, face shields, gloves), disinfecting person and surrounding environment, and physical distancing from others that a person might infect or might be infected by. Third key is prevention and treatment of non-pandemic illnesses and injuries that might either make a person more susceptible to the pandemic or that might be made worse by the pandemic or might be made worse by not being prevented or treated in a timely fashion. Fourth key is to make sure, to the extent financially feasible, to have on hand medications, food, and other necessities for three to six months. (Figure 10.4. Persons wearing masks. Source: CDC.)



Figure 10.4. Persons wearing masks. Source: CDC.

It is critical to work cooperatively with the community’s public health department and health care system to protect others from a person and to protect a person from other persons.

When a pandemic occurs, a key question is how much existing immunity exists for each person. There are certain immunities which are general based on previous exposures. There are certain immunities which are specific to a previous exposure. There are certain immunities and other human protective measures that are inherent in some people and in the human species. Until a new pandemic emerges, it is uncertain which immunities and human protective measures will help, how much they will help, and how long they will help.

Public Health. In dealing with any pandemic, public health measures are the key to successfully protecting health. First, it is critical to have an effective public health system in place. This can help with ensuring clean air and water. Ensuring a safe and healthy food supply. Ensuring safe housing. Ensuring safe work places. Educating people on what each person and family can do to get and stay healthy and to protect themselves and others from health threats, including pandemics.

One key is surveillance for early signs of an infectious disease. We now have many tools that can be used to help with surveillance. Sensors of many types. Electronic media that can spot telltale incidents and trends and communicate them widely. Public health systems and health care systems can identify illnesses indicative of a transmissible infection. This applies to community, country, and world. That will enable us to identify a pandemic early, determine who and where is at risk, and develop and initiate protective and treatment measures.

For decades, we have known how to do community and global surveillance and response.²⁵ Tragically, we did not do this for COVID-19 until it was much too late. Too many became ill. Too much disruption of normal life. Too many died. We must not make this mistake with future pandemics.

A second key is immunization. That means we need to have in place an effective system for understanding the associated virus or bacteria, developing safe, efficacious, and effective vaccines to prevent infection, and successfully vaccinating the people at risk. Work continues on how to create and produce vaccines faster while ensuring safety and efficacy. In the case of COVID-19, vaccines have been created much faster than in the past but still too slow to prevent too many infections, hospitalizations, and deaths. Depending on the efficacy and safety of the vaccine, it is critical to ensure people trust the vaccine and the vaccination process.

²⁵ The author, when leading the Military Health System (Department of Defense), co-led an effort with the Centers for Disease Control in the 1990s to develop a global infectious disease surveillance and response system. Though the strategy was developed, the actual system was not. The author changed positions and was unable to help complete the systems. The other partners also did not complete the system. The lack of a system made the COVID-19 impact much worse. Unless an effective system is put in place, future pandemics will have more devastating consequences than they should.

It is likely that there will not be enough vaccine initially to vaccinate all who need and/or want it. Priorities will have to be set. This is difficult. Should the first be health and long term care workers who care for those who become ill? Or the most vulnerable, if infected, to becoming seriously ill and die? Or the most vulnerable to becoming infected because the infectious agent is most likely to infect them? Or the most necessary to daily life, including health and long term care workers and also people necessary to providing food (grocery store workers, farmers, food processing workers, and food transport workers) and other critical supplies? Or teachers and children necessary to ensure learning continues? Or other workers necessary to providing income to their families and themselves ensure food, shelter, health care and other necessities? These are some of the tough questions with major implications for slowing down the pandemic, sustaining basic living and preventing the most severe near and long term health, economic and learning consequences.

It is critical to get enough people immunized and protected to produce herd immunity. If not achieved, then other protective measures will still be needed. If not a long lasting immunity like with flu, then additional vaccinations will be needed as well as other protective measures. (Figure 10.5. Person receiving immunization. Source: CDC.)



Figure 10.5. Person receiving immunization. Source: CDC.

A third key is protective measures appropriate to the associated virus or bacteria. This will depend on the method of transmission. If airborne transmission, this will require quarantining, masks, proper ventilation and filtering, physical distancing, hand washing, and disinfecting. If contact transmission, this will require quarantining, hand washing, and disinfecting. If food transmission, this will require removing the affected food and avoiding that food. These are just a few of the transmission modes and associated protective measures.

Health Care. In dealing with any pandemic that produces serious illness, health care will be key to minimizing illness and death. Since each pandemic may be different, preparing for future pandemics requires several measures. First key is that health care is monitoring its patients for any signs of an infectious agent that might produce serious illness. Second key is that it have in place procedures for handling infections. Third key is to have in place the necessary staff, facility, equipment, and supplies for containing and treating infections. This also requires having contingency plans in place if there are any shortages of staff, facility, equipment, and supplies. Third key is having in place effective protective measures for both staff and patients. Fourth key is that health care knows how it will manage both a pandemic and normal health conditions simultaneously. This may require collaboration, cooperation, and resource sharing among health care organizations.

Long Term Care. In dealing with a pandemic, the most vulnerable people will need special attention. Long term care requires special attention because it cares for many of the most vulnerable people, cares for them often in a constrained environment (e.g., nursing homes, assisted living facilities), cares for them in a person's home that may be a less controlled environment, and depends on staff, often low wage, moving to and from the community to provide care and support that care.

First key is that long term care is monitoring its patients for any signs of an infectious agent that might produce serious illness. Second key is that it have in place procedures for handling infections. Third key is to have in place the necessary staff, facility, equipment, and supplies for containing and treating infections. This also requires having contingency plans in place if there are any shortages of staff, facility, equipment, and supplies. This will differ for facility based care versus home based care. Third key is having in place effective protective measures for both staff and patients. Fourth key is that long term care knows how it will manage both a pandemic and normal long term care simultaneously. This may require collaboration, cooperation, and resource sharing among health care and long term care organizations.

Pandemic – Manage During. When public health measures, for one reason or another, cannot or do not prevent a pandemic, then the health system must treat pandemic related health conditions at the same time as treating non-pandemic health conditions.

Person. First and foremost is for each person to continue to manage their own personal health as successfully as possible. First key is for the person to remain as healthy as possible during any pandemic. This increases a person's ability to prevent infection, reduce pandemic producing infection and death, and reduce recovery time and long term health consequences. Second key is to have and effectively use personal protective equipment (e.g. masks, gowns, face shields, gloves), disinfect person and surrounding environment, and physically distance from others a person might infect or might be infected by. Third key is prevention and treatment of non-pandemic illnesses and injuries that might either make a person more susceptible to the pandemic or that might be made worse by the pandemic or might get worse by not being prevented or treated in a timely fashion.

If a person is sick, critical to take precautions. Stay home when sick, except to get medical care. When sick, wear mask and avoid direct contact when around other people. If person in home is sick, protect remaining persons. For example, a separate room and bathroom is helpful.

But the person is not alone. Work cooperatively with the community's public health department and health care system to protect others from a person and to protect a person from others. Do whatever a person can do to protect others and to help community businesses, schools and other organization survive during a pandemic.

Students and staff in schools present several unique challenges. While student generally do best with in-school learning, it should be done but only be done if the students and staff can be kept safe. That includes wearing masks, washing hands, hand sanitizer, physical distancing, and good ventilation and air filtering. This goes beyond the school building and includes transportation to and from school. Virtual learning and home school learning are important depending on the circumstances, especially when students and staff are not being protected while at school. Learning outside in-school needs to be much better than most our current out-of-school learning systems. Schools need to incorporate the best out-of-school learning systems that best help students learn in both pandemic and non-pandemic environments (Figure 10.6. Students and Staff in School. Source: CNBC, Getty Images.)



Figure 10.6. Students and Staff in School. Source: CNBC, Getty Images.

Public Health. As has been shown, it is essential to have trusted, consistent communication of a pandemic's risk, both to who and when. Trusted, consistent communication of necessary actions by people, actions by public health, health and long term care providers, and actions by businesses and organizations. When communication is not trusted and consistent, people will not behave in a way to protect themselves and others and to contain the pandemic.

It is critical to continue to prevent or reduce transmission of a pandemic's virus or bacteria. The approach will vary depending on how transmission occurs. If airborne, wearing masks, maintaining physical distance, avoiding crowds, and having good ventilation are key. If by direct contact, avoiding direct contact with other persons and affected surfaces, and doing good hygiene (disinfecting hands and surfaces) are key. If via food, avoid that food temporarily and substitute with non-affected food. When available, safe and effective immunizations should be used. Maintaining good health generally helps prevent an illness and increase resilience. These public health measures reduce the impact of a pandemic on the person, the community, and the health system. (Figure 10.7. Slow the Spread of COVID-19. Source: CDC.)

Public health should partner with their health care providers to successfully execute a coordinated strategy for dealing with a pandemic. HealthePeople community health systems provide a coordinated community strategy to successfully manage pandemics (like COVID) and all other health conditions (non-COVID) simultaneously and successfully.

Health Care. Unfortunately, many current health systems, while dealing with COVID-19, reduced and/or shut down many non-COVID health services. That was unfortunate and should not have happened for any significant time. HealthePeople health systems are designed to successfully manage pandemics (like COVID) and all other health conditions (non-COVID) simultaneously and successfully.

There are many ways to accomplish this in a community or country health system. First and foremost, people and health providers must be kept safe. Second and critical, people must get and keep as healthy as possible while using a health system.



Figure 10.7. Slow the Spread of COVID-19. Source: CDC.

Health staff caring for pandemic and non-pandemic people must have personal protective equipment (masks, clothes, eyewear, etc.) sufficiently protective from a pandemic's virus or bacteria. All surfaces potentially being contacted by people or staff must be sufficiently disinfected in terms of frequency and of method of disinfecting. All spaces in which persons and staff enter must have sufficient ventilation and protective air filtering. Even with all this, some health staff may become infected. Some may die. (Figure 10.8. Hospital ICU Treating COVID-19 Patients. Source: NY Times.)



Figure 10.8. Hospital ICU Treating COVID-19 Patients. Source: NY Times.

Managing care during a pandemic is challenging on its own. But when health staff also become infected, ill and die, a special problem is created. Just at the time when they are needed most is when many will be stricken and become unavailable to provide care. As we have learned in COVID-19, facilities, equipment, and supplies may be in short supply. But it is the shortage of health staff that will most limit what can be done in a pandemic to provide needed care.

In terms of friends, family or personal caregivers, a person being treated with a transmissible infection should not have visitors unless very important to a person's care and treatment outcome. To help, a person's personal caregivers and family should be educated on how they can help, such as by avoiding infection, providing social support (including by electronic media), and supporting care. Any treatments that can be carried out effectively by telehealth and where the person lives should be done that way until the pandemic ends.

Depending on the health system, separate facilities (within a health system or between multiple health systems) may be an option. Separate protected areas within a facility may be an option. Separate times, with complete cleaning and ventilating in between times, may be an option. Which approach is best will also depend on a pandemic's intensity (transmissibility, illness amount and degree, lethality) and community spread. Each pandemic and each health system will have its own unique characteristics and most appropriate strategy.

The types of treatment available and relative effectiveness has a major impact on how treatment is managed. Early in a pandemic, there may be no specific treatments yet available. In that case, health providers will rely on what has been most effectively used in the past for similar health conditions. They may be effective. They may make the situation worse. They may just be supportive care. Key that health providers monitor each patient to find the best treatment course. Key that health providers understand what is working best and why and what is not working or making the condition worse. When a specific treatment for the infection becomes available, it will be necessary to determine if the treatment applies to the patient being treated. Age, ethnicity, cognitive level, affordability, and other health conditions may affect treatment. Monitoring must be done for side effects and treatment failures.

While a community or country health system may have to establish priorities in times of insufficient resources to successfully manage both pandemic and non-pandemic health conditions, it is critical that additional resources, including non-traditional resources, be brought to bear to manage both. This is where great creativity and resolve will be critical to successfully manage both pandemic and non-pandemic health conditions. To not do so will result in a more devastating and challenging aftermath.

Long Term Care. Managing long term care, whether facility or home care, faces special challenges because of the vulnerability of people needing long term care.

First and foremost, people and staff must be kept safe. Second and critical, people must keep as healthy as possible relative to non-pandemic health.

Long term care staff caring for pandemic and non-pandemic people must have personal protective equipment (masks, clothes, eyewear, etc.) sufficiently protective from a pandemic's virus or bacteria. All surfaces in a facility or in a home potentially being contacted by people or staff must be sufficiently disinfected in terms of frequency and method of disinfecting. In a facility, all spaces in which persons and staff enter must have sufficient ventilation and protective air filtering. Even with all this, some long term care staff are likely to become infected. Some may die. (Figure 10.9. Nursing Home Outbreak. Source: LA Times.)



Figure 10.9. Nursing Home Outbreak. Source: LA Times.

Managing long term care during a pandemic is challenging on its own. But when long term care staff also become infected, ill and die, a special problem is created. Just at the time when they are needed most is when many will be stricken and become unavailable to provide care. As we have learned in COVID-19, facilities, equipment, and supplies may be in short supply. But it is the shortage of long term care staff that will most limit what can be done in a pandemic to provide needed care.

In terms of friends, family or personal caregivers, a person should not have visitors unless important to a person's care and outcome. To help, a person's personal caregivers and family should be educated on how they can help, such as by avoiding infection, providing social support (including by electronic media), and supporting care.

Depending on the community, separate facilities (within a long term care system or between multiple systems) may be an option. Separate protected areas within a facility may be an option. Which approach is best will also depend on a pandemic's intensity (transmissibility, illness amount and degree, lethality) and community spread. Each pandemic and long term care system will have its own unique characteristics and most appropriate strategy.

The types of treatment available and relative effectiveness has a major impact on how treatment is managed. Key that long term care providers monitor each patient to find the best treatment course. When a specific treatment for the infection becomes available, it will be necessary to determine if the treatment applies to the patient being treated. Age, ethnicity, cognitive level, affordability, and other health conditions may affect treatment. Monitoring must be done for side effects and treatment failures.

While a long term care system may have to establish priorities in times of insufficient resources to successfully manage both pandemic and non-pandemic health conditions, it is critical that additional resources, including non-traditional resources, be brought to bear to manage both. This is where great creativity and resolve will be critical to successfully manage both pandemic and non-pandemic health conditions. To not do so will result in a more devastating and challenging aftermath.

Pandemic - Handle Aftermath. Handling the effects of a pandemic requires handling both direct and indirect effects and both near and long term effects. To not do this means a pandemic has negative impacts. The direct illness and death impact of the pandemic. The downstream impact of health care not provided timely or completely. The near and long term impacts.

Person. In the aftermath of a pandemic, people may face many health and non-health issues. Some pandemics will result in direct effects such as long term health problems requiring ongoing health care and even long term care. Families may have long term stress related health issues. People may suffer from more depression and other mental health issues. Some people whose non-pandemic health care for illness and injury was reduced or delayed may face increased health problems.

Some pandemics will result in indirect effects such as lost school learning. May result in economic problems due to lost income, added health-related bills, and damaged or closed businesses and other organizations. Charities may face greater demand just when donations decline. When indirect effects are major, government, especially Federal and State governments, should provide necessary support, including financial assistance. That will have taxpayer impacts and may impact other needed government programs.

Public Health. In the aftermath of a pandemic, public health and related public services may face many health and non-health issues. Some pandemics will result in direct effects such as supporting people with long term health conditions and catching up with postponed public health measures (like immunizations, public health nursing, women and infant care, health education, water testing, environmental protection, and business health inspections). Some pandemics will result in indirect effects such as overextending budgets, worn out staff, and losing staff who may be hard to replace.

All this can be minimized or avoided if public health, with public support, has the necessary resources and successfully handles both pandemic and non-pandemic public health issues timely and completely.

Health Care. In the aftermath of a pandemic, health care faces many direct and indirect issues. There may be longer term care of pandemic-related illnesses. With respect to non-pandemic health conditions, preventable illnesses are partially or totally not prevented. Treatable illnesses and injuries are not treated timely or completely. Emergency type illness and injury may be delayed, not treated, poorly treated, or be complicated by adding an infection (person or staff) related to the pandemic. Chronic illnesses, left untreated or poorly treated, have greater negative impacts.

With respect to pandemics not well controlled and the related pandemic health conditions, there will be more pandemic-related morbidity and mortality. More people will be infected and need treatment. More severe illness will likely result in more longer term effects (health and non-health). More severe illness will likely result in more deaths. Non-health effects can include closed businesses, limited use of businesses like restaurants and other retail stores, breaks in supply chains, and schools going to virtual learning.

Health care may lose staff who may be hard to replace. Some medical care, like doctors' offices, may close due to severe financial impacts. When indirect effects are major, government, especially Federal and State governments, should provide necessary support, including financial assistance. That will have taxpayer impacts and may impact other needed government programs.

All this can be minimized or avoided if health systems have the necessary resources and successfully handles both the pandemic and non-pandemic illnesses and injuries timely and completely.

Long Term Care. In the aftermath of a pandemic, long term care faces many direct and indirect issues. With respect to non-pandemic health conditions, preventable illnesses are partially or totally not prevented. Treatable illnesses and injuries are not treated timely or completely. Emergency type illness and injury may be delayed, not treated, poorly treated, or be complicated by adding an infection (person or staff) related to the pandemic. Chronic illnesses, left untreated or poorly treated, have greater negative impacts. All these issues tend to be worse in long term care because of high vulnerability of people receiving long term care.

With respect to pandemics not well controlled and the related pandemic health conditions, there will be more pandemic-related morbidity and mortality for people needing long term care. More people will be infected and need treatment. More severe illness will likely result in more longer term effects (health and non-health). More severe illness will likely result in more deaths. Non-health effects can include lack of family support.

Long term care may lose staff which may be hard to replace. Since staff move to and from the community, there is more chance for infection to flow either way. For home care, staff are going to and from the person's home increasing the chance of infection. Government, especially Federal and State governments, should provide necessary support, including financial assistance. That will have taxpayer impacts and may impact other needed government programs.

All this can be minimized or avoided if long term care has the necessary resources and successfully handles both the pandemic and non-pandemic illnesses timely and completely.

Community, Country, and World Collaboration and Cooperation.

Viruses and bacteria are driven to survive by any means they can. Viruses and bacteria do not recognize family, community, or country boundaries. As a result, we need to collaborate and cooperate across boundaries if we are to control destructive viruses and bacteria.

To limit the impact of a pandemic, collaboration and cooperation must occur within communities, across communities, across states, and across countries. Especially in the case of a highly infectious virus, cooperation and cooperation must occur globally. And when effective means of controlling a pandemic and treating its effects are available, they must be shared widely and equitably. Countries and communities with higher percentages of poor and less capable health systems are often at greatest risk and are least likely to be protected. Inequitable vaccine distribution and weaker public health, health care and long term care systems are examples. To not do so means the pandemic will cause unnecessary illness and death and will retain a foothold for future pandemics with any who do not receive the means of near and long term control.

As we have demonstrated with COVID-19 and the Spanish Flu, the failure to collaborate and cooperate will delay and inhibit our response, will result in faster and wider spread of infections, will extend the length and breadth of a pandemic, and will result in much greater illness and death. These pandemics or the next pandemic has the potential to be an existential threat to the human species. (See Figure 10.10. "existential threat", Thrive! Sculpture by GChris.)

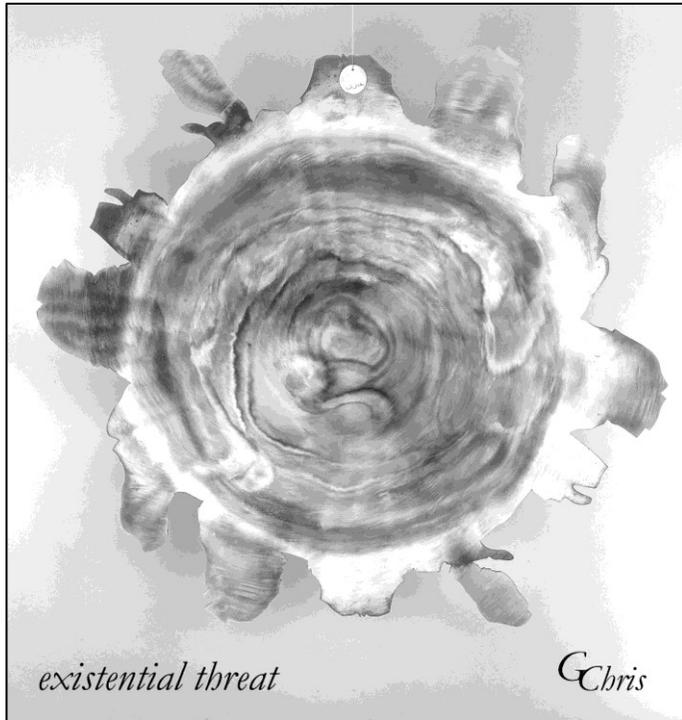


Figure 10.10. “existential threat”, Thrive! Sculpture by GChris. Abstract Sculpture Based on Microscopic Image of SARS-CoV-2 Virus.



Chapter 11. *Thrive!*[®] and HealthePeople[®] - Achieving Healthy and Thriving Future for All

Ideal System for Achieving Healthy and Thriving Future for All

Thriving! Healthy! Vulnerable! These are the keys to a call for creating and sustaining large, positive and timely change and building a healthy and thriving future. We are all vulnerable to some extent but that can change for the better. *Thrive!*[®] is that call to action and a rallying cry for a better and thriving future. **HealthePeople**[®] is that call to action and a rallying cry for a healthy future. It is a vision and a mission for those wanting to build a better future. To achieve that vision and succeed with the mission, all of us together must strive to energize and empower people to build a healthy and thriving future for ourselves, and our families and friends, communities, countries, and world. We must strive to build, achieve, and sustain a healthy and thriving future for all forever, to the maximum extent possible.

To truly have a healthy and thriving future, we need to have it for you and everybody's family and friends and every community and every country and every part of and our entire world. When all this comes together, you and all of us will have built, achieved, and sustained a healthy and thriving future.

How best to do this? We bring all this together with **Thrive!** and **HealthePeople** where you and all of us together, build, achieve and sustain a healthy and thriving future for all forever.

The endeavor is all of us together. It is vision, mission, strategy and call to action. Its vision is a healthy and thriving future for all forever. Its mission is to create and sustain large positive and timely change that builds, achieves and sustains a healthy and thriving future for all forever, to the maximum extent possible. Its strategy is to energize and empower all of us together in the vast, sustained human endeavor building and sustaining a healthy and thriving future. Its call for action is to motivate all of us (individual people, groups of people, private sector organizations, governments) to seek a healthy and thriving future, to create and sustain the necessary large positive change, and to work together to build, achieve and sustain a healthy and thriving future.

The endeavor is all of us together building, achieving and sustaining a healthy and thriving future. "All of us together" include individual people, groups of people, private sector organizations and governments. "All of us together" include current and future generations. "All of us together" include you, and everybody's family and friends, and every community, and every country, and every part of and our entire world.

What the endeavor does and how it does it is different than past and current approaches which have major limitations and defects. It is unique and better because it:

- Strives to achieve a healthy, thriving, and sustainable future for all forever, to the maximum extent possible.
- Enables the building of a healthy and thriving future for you, your family and friends, your community, your country, and our world.
- Joins people of all backgrounds/generations together to achieve a healthy and thriving future.
- Addresses every person, community, country, and global issue.
- Uses whole "community" (local, regional, state, country, world/global) strategy for creating and sustaining change and building healthy and thriving futures.
- Uses whole "person" strategy for creating and sustaining change and building healthy and thriving futures.
- Uses whole "system" (community, health, education, economy, housing, etc.) strategy for creating and sustaining change and building healthy and thriving futures.

- Takes an integrated approach to cross-cutting issues.
- Uses an integrated approach to people/environment strategy, change and healthy/thriving futures.
- Uses a "person-centered" strategic approach that recognizes people's behaviors are the problem and the solution.
- Uses behavior models (including BEM) and tools to help each and all of us achieve the desired behavior necessary to a healthy and thriving future.
- Uses eMedia and social networking to expand communication and joint action and to activate and coordinate a large endeavor in "real time".
- Uses strategic/operational planning and combines it with strategic/operational management and execution.
- Uses the **HealthPeople** and *Thrive!* strategy, models, and tools to create and sustain change and build thriving futures.
- Creates a collaborative strategy with the necessary positive actions to build, achieve and sustain a surviving and thriving future.

Each and all of us should develop and take as many positive actions as we can to improve health. The more positive actions taken, the better for all of us. Each and all of us should help build, achieve and sustain a healthy and thriving future for our family and friends. Each and all of us should help build, achieve and sustain a healthy and thriving future for our community. Each and all of us should help build, achieve and sustain a healthy and thriving future for our country. Each and all of us should help build, achieve and sustain a healthy and thriving future for our world, including the Earth on which we depend. Via these actions and the endeavor, each and all of us together should build, achieve and sustain a surviving and thriving future.

What positive actions are needed to bring about the needed changes that improve our current health status enough to achieve the desired healthy and thriving status? (See Figure 9.1. "Achieving a Healthy and Thriving Future.")

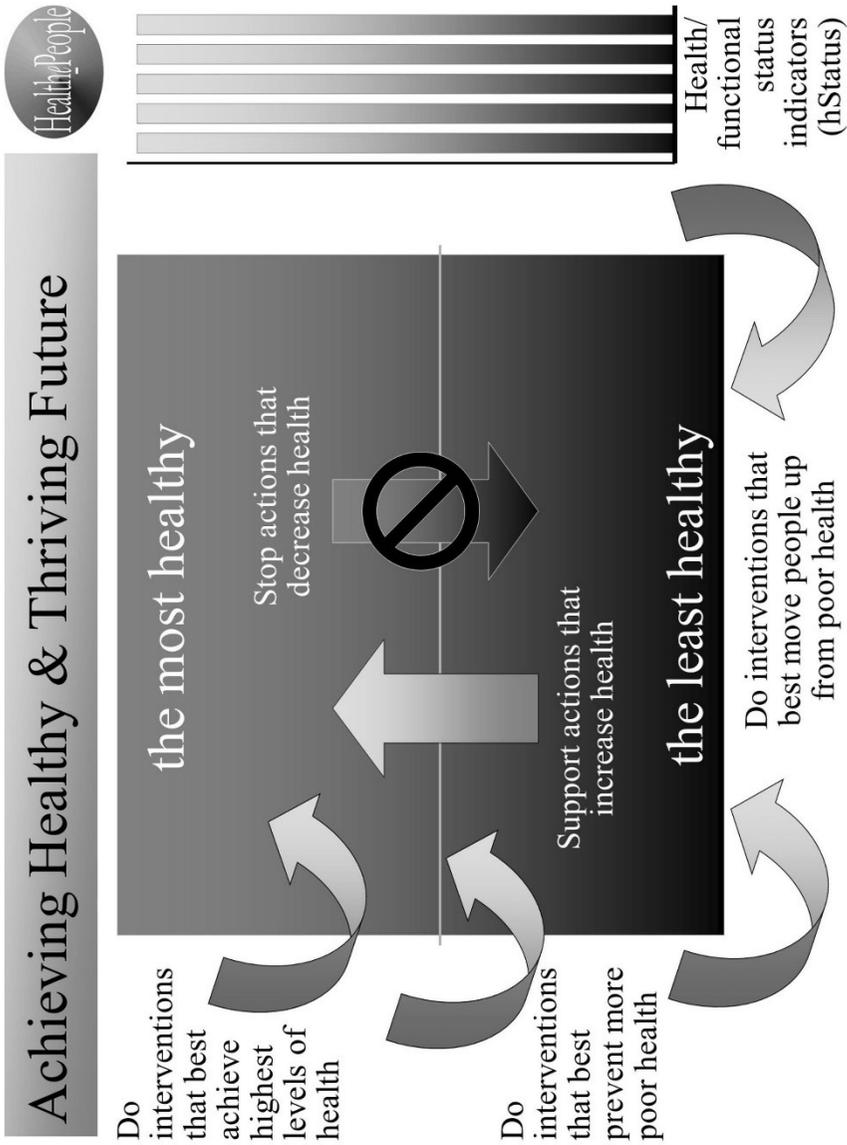


Figure 9.1. “Achieving a Healthy and Thriving Future”

Each and all of us identify actions that support good changes that will help reduce vulnerability and/or improve and/or sustain health and thriving. If good changes are likely to occur, together we support them. If good changes are not likely to occur, together we support them and develop other good changes to compensate.

Each and all of us identify actions that stop bad changes that increase vulnerability and/or prevent or limit health and thriving. If bad changes are not likely to occur, together we ensure they do not. If bad changes are likely to occur, together we change them, stop them or avoid/reduce their impact.

Via the endeavor, all of us together develop our strategy and successfully take the actions to ensure a healthy and thriving future.

We can and should build and sustain Thriving Health Systems for all people everywhere.

When successful, we and all future generations achieve the healthy and thriving future.

When successful, it is more than just people being healthy and thriving. The Earth upon which we depend should be healthy and thriving.

At this time, we should proceed under the belief that we can reach this vision via the above visions and strategies.

Utilizing **HealthPeople** and *Thrive!* as organizing strategies, we can build a substantially healthier and more thriving world and move toward healthy and thriving people and a truly healthy and thriving future. People, whoever they are, wherever they live and whatever their status, deserve and should expect nothing less.

Appendix - Ideal Community Health Systems

Ideal Community Health System - Most limited resources (rural/remote)

System Element	Community/ Country Most limited resources (rural/remote)
System - person success measure *	I am healthy and I stay healthy or become very healthy. I am functioning well and I continue to function well or function even better. I am ill and/or not functioning well and I get better. I risk getting worse and I do not get worse. I am chronically ill and I successfully manage. I have a disability and I successfully cope. I am near end of life and I successfully cope.
System - success measure	Healthy people, community, country and world
System - drivers for health	Maximize health status, maximize outcomes, maximize abilities, maximize satisfaction, maximize quality, maximize accessibility/ portability, maximize affordability, maximize patient safety (drive defects/errors to zero), minimize time between disability/illness and maximized function/health (drive time to zero), minimize inconvenience (drive inconvenience to zero), maximize security & privacy
System - support for person	Supports “staying healthy”, “getting better”, “living with illness or disability” or “coping with the end of life.”
System - characteristics	System is safe, effective, person/patient-centered, timely, efficient, and equitable providing, to extent feasible, comprehensive health support.
System - affordability	Affordable for person and any other payer. People with limited resource receive needed support from community and/or country.
System - accessibility	Accessible (time, distance, availability) for every person.
System - quality	High quality processes produce positive outcomes and high health status. “Right care for every person every time.”
System - safety	Safe an environment as possible in which to receive health support.
System - design and operations	Best systems design and operational thinking is applied to and across the full range of health support.

System - dynamic and interactive	System is dynamic as locations for health interventions change, as person changes, as people providing health support change, and as events unfold for person and, her/his “health system” and “health environment”. Is interactive where influences are interacting with each other to change how they impact the person and health.
System - collaborative partnership	Collaborative partnership of people, public and private payers, and health care organizations substantially improves access, affordability, quality, and health status for all people.
System - public health	Public health approach to community health linking with personal health support.
System – community and country support	Health system earns and has strong support from community and country.
System – health support **	Best mix of resources within and outside of community. The fewer the resources within the more outside resources should be used. Connect with outside resources using full range of virtual means – phone, internet, etc. Share health records as appropriate. Refer to outside resources when outside expertise within community. Many resources will be needed from outside community.
System - health records	Sharable, comprehensive health records to extent feasible. Paper if necessary; electronic health records if feasible; standardized data; information share encrypted via internet. Use “virtual health system(s)” of electronic health records (EHR), personal health systems/records (PHS/R), information exchange (IE) and information standards to extent feasible.
Person - person-centered health	Person-centered health support for whole person and maximizing choice and self-care. Special attention to most vulnerable persons.
Person - healthy partners	Healthy Partners as strong partnership between person and their health support to improve resource use and health outcomes.
Person - family and community support	Family and community support of person helps avoid things that harm health and provides support that improves health.
Person - human behavior	Successfully address human behavior as key to achieving health. Partner with person on motivation and ability that positively affect key behaviors that improve health and avoid harming health.

Person - history, genetics and environment	Partner with person to incorporate history, environment and genetic factors into any strategy that improves health and avoids further harming health.
Health Support - health home	Partnership between person and primary health support creates mutually agreeable “health home providing trustworthy, comfortable provider and place, provides or facilitates a person-accessible repository (actual or virtual) for all of the person’s health information (including the complete health record), and works to monitor and improve the whole health of the whole person across all settings and across all preventive, primary and specialty care.
Health Support - use best support	Best health support (prevention, diagnosis, treatment, rehabilitation) for person. Should be safe, efficacious, and effective. Should not be limited to “modern medicine”.
Health support - care in community	Much of health’s interventions occur outside health care facilities and in the community. Much is self-care.
Health support - care coordination	Care coordination helps people with multiple conditions and multiple sources of health support.
Health Support - prevention	Prevention of illness and injury should be primary strategy at the person and community level.
Health Support - evidence-based	Obtain/use evidence-based health support. Obtain via internet and/or as integrated into electronic health record. Use trusted sources. Address co-morbidity. Avoid conflicting therapies.
Health support - payment	Payment to health support based on effective care and resource use. Payment affordable, fair, and value-based.
Health support - privacy	Protects privacy of health care and information, especially particularly sensitive information such as sexually transmitted diseases, drug and alcohol abuse/misuse, and mental illness.

* Person – person whose health should be optimized and for whom health system and support is being provided

** Health Support – May include physicians, nurses, dentists, optometrists, pharmacists, clinics, urgent care, emergency departments, hospitals, rehabilitation facilities, home care, nursing homes, assisted living, alternative health/medicine, and others.

Ideal Community Health System - Moderate resources (mix rural/remote & urban)

System Element	Community/ Country Moderate resources (mix rural/remote & urban)
System - person success measure *	I am healthy and I stay healthy or become very healthy. I am functioning well and I continue to function well or function even better. I am ill and/or not functioning well and I get better. I risk getting worse and I do not get worse. I am chronically ill and I successfully manage. I have a disability and I successfully cope. I am near end of life and I successfully cope.
System - success measure	Healthy people, community, country, and world
System - drivers for health	Maximize health status, maximize outcomes, maximize abilities, maximize satisfaction, maximize quality, maximize accessibility/ portability, maximize affordability, maximize patient safety (drive defects/errors to zero), minimize time between disability/illness and maximized function/health (drive time to zero), minimize inconvenience (drive inconvenience to zero), maximize security & privacy
System - support for person	Supports “staying healthy”, “getting better”, “living with illness or disability” or “coping with the end of life.”
System - characteristics	System is safe, effective, person/patient-centered, timely, efficient, and equitable providing comprehensive health support.
System - affordability	Affordable for person and any other payer. People with limited resource receive needed support from community and/or country.
System - accessibility	Accessible (time, distance, availability) for every person.
System - quality	High quality processes produce positive outcomes and high health status. “Right care for every person every time.”
System - safety	Safe an environment as possible in which to receive health support.
System - design and operations	Best systems design and operational thinking is applied to and across the full range of health support.
System - dynamic and interactive	System is dynamic as locations for health interventions change, as person changes, as people providing health support change, and as events unfold for person and, her/his

	“health system” and “health environment”. Is interactive where influences are interacting with each other to change how they impact the person and health.
System - collaborative partnership	Collaborative partnership of people, public and private payers, and health care organizations substantially improves access, affordability, quality, and health status for all people.
System - public health	Public health approach to community health linking with personal health support.
System – community and country support	Health system earns and has strong support from community and country.
System – health support **	Best mix of resources within and outside of community. The fewer the resources within the more outside resources should be used. Connect with outside resources using full range of virtual means – phone, internet, etc. Share health records as appropriate. Refer to outside resources when outside expertise within community. Many but not all resources likely within community.
System - health records	Sharable, comprehensive health records to extent feasible. Paper if necessary; electronic health records if feasible; standardized data; information share encrypted via internet. Use “virtual health system(s)” of electronic health records (EHR), personal health systems/records (PHS/R), information exchange (IE) and information standards.
Person - person-centered health	Person-centered health support for whole person and maximizing choice and self-care. Special attention to most vulnerable persons.
Person - healthy partners	Healthy Partners as strong partnership between person and their health support to improve resource use and health outcomes.
Person - family and community support	Family and community support of person helps avoid things that harm health and provides support that improves health.
Person - human behavior	Successfully address human behavior as key to achieving health. Partner with person on motivation and ability that positively affect key behaviors that improve health and avoid harming health.
Person - history, genetics and environment	Partner with person to incorporate history, environment and genetic factors into any strategy that improves health and avoids further harming health.
Health Support - health home	Partnership between person and primary health support creates mutually agreeable “health home providing

	trustworthy, comfortable provider and place, provides or facilitates a person-accessible repository (actual or virtual) for all of the person’s health information (including the complete health record), and works to monitor and improve the whole health of the whole person across all settings and across all preventive, primary and specialty care.
Health Support - use best support	Best health support (prevention, diagnosis, treatment, rehabilitation) for person. Should be safe, efficacious, and effective. Should not be limited to “modern medicine”.
Health support - care in community	Much of health’s interventions occur outside health care facilities and in the community. Much is self-care.
Health support - care coordination	Care coordination helps people with multiple conditions and multiple sources of health support.
Health Support - prevention	Prevention of illness and injury should be primary strategy at the person and community level.
Health Support - evidence-based	Obtain/use evidence-based health support. Obtain via internet and/or as integrated into electronic health record. Use trusted sources. Address co-morbidity. Avoid conflicting therapies.
Health support - payment	Payment to health support based on effective care and resource use. Payment affordable, fair, and value-based.
Health support - privacy	Protects privacy of health care and information, especially particularly sensitive information such as sexually transmitted diseases, drug and alcohol abuse/misuse, and mental illness.

* Person – person whose health should be optimized and for whom health system and support is being provided

** Health Support – May include physicians, nurses, dentists, optometrists, pharmacists, clinics, urgent care, emergency departments, hospitals, rehabilitation facilities, home care, nursing homes, assisted living, alternative health/medicine, and others.

Ideal Community Health System – Most resources (larger urban)

System Element	Community/ Country Most resources (larger urban)
System - person success measure *	I am healthy and I stay healthy or become very healthy. I am functioning well and I continue to function well or function even better. I am ill and/or not functioning well and I get better. I risk getting worse and I do not get worse. I am chronically ill and I successfully manage. I have a disability and I successfully cope. I am near end of life and I successfully cope.
System - success measure	Healthy people, community, country, and world
System - drivers for health	Maximize health status, maximize outcomes, maximize abilities, maximize satisfaction, maximize quality, maximize accessibility/ portability, maximize affordability, maximize patient safety (drive defects/errors to zero), minimize time between disability/illness and maximized function/health (drive time to zero), minimize inconvenience (drive inconvenience to zero), maximize security & privacy
System - support for person	Supports “staying healthy”, “getting better”, “living with illness or disability” or “coping with the end of life.”
System - characteristics	System is safe, effective, person/patient-centered, timely, efficient, and equitable providing comprehensive health support.
System - affordability	Affordable for person and any other payer. People with limited resource receive needed support from community and/or country.
System - accessibility	Accessible (time, distance, availability) for every person.
System - quality	High quality processes produce positive outcomes and high health status. “Right care for every person every time.”
System - safety	Safe an environment as possible in which to receive health support.
System - design and operations	Best systems design and operational thinking is applied to and across the full range of health support.
System - dynamic and interactive	System is dynamic as locations for health interventions change, as person changes, as people providing health support change, and as events unfold for person and, her/his

	“health system” and “health environment”. Is interactive where influences are interacting with each other to change how they impact the person and health.
System - collaborative partnership	Collaborative partnership of people, public and private payers, and health care organizations substantially improves access, affordability, quality, and health status for all people.
System - public health	Public health approach to community health linking with personal health support.
System – community and country support	Health system earns and has strong support from community and country.
System – health support **	Use best mix of resources within and outside of community. The fewer the resources within the more outside resources should be used. Connect with outside resources using full range of virtual means – phone, internet, etc. Share health records as appropriate. Refer to outside resources when outside expertise within community. <u>Most resources likely within community.</u>
System - health records	Sharable, comprehensive health records to extent feasible. Paper if necessary; electronic health records if feasible; standardized data; information share encrypted via internet. Use “virtual health system(s)” of electronic health records (EHR), personal health systems/records (PHS/R), information exchange (IE) and information standards.
Person - person-centered health	Person-centered health support for whole person and maximizing choice and self-care. Special attention to most vulnerable persons.
Person - healthy partners	Healthy Partners as strong partnership between person and their health support to improve resource use and health outcomes.
Person - family and community support	Family and community support of person helps avoid things that harm health and provides support that improves health.
Person - human behavior	Successfully address human behavior as key to achieving health. Partner with person on motivation and ability that positively affect key behaviors that improve health and avoid harming health.
Person - history, genetics and environment	Partner with person to incorporate history, environment and genetic factors into any strategy that improves health and avoids further harming health.
Health Support - health home	Partnership between person and primary health support creates mutually agreeable “health home providing trustworthy, comfortable provider and place, provides or

	facilitates a person-accessible repository (actual or virtual) for all of the person’s health information (including the complete health record), and works to monitor and improve the whole health of the whole person across all settings and across all preventive, primary and specialty care.
Health Support - use best support	Best health support (prevention, diagnosis, treatment, rehabilitation) for person. Should be safe, efficacious, and effective. Should not be limited to “modern medicine”.
Health support - care in community	Much of health’s interventions occur outside health care facilities and in the community. Much is self-care.
Health support - care coordination	Care coordination helps people with multiple conditions and multiple sources of health support.
Health Support - prevention	Prevention of illness and injury should be primary strategy at the person and community level.
Health Support - evidence-based	Obtain/use evidence-based health support. Obtain via internet and/or as integrated into electronic health record. Use trusted sources. Address co-morbidity. Avoid conflicting therapies.
Health support - payment	Payment to health support based on effective care and resource use. Payment affordable, fair, and value-based.
Health support - privacy	Protects privacy of health care and information, especially particularly sensitive information such as sexually transmitted diseases, drug and alcohol abuse/misuse, and mental illness.

* Person – person whose health should be optimized and for whom health system and support is being provided

** Health Support – May include physicians, nurses, dentists, optometrists, pharmacists, clinics, urgent care, emergency departments, hospitals, rehabilitation facilities, home care, nursing homes, assisted living, alternative health/medicine, and others.

