

Into the Future!

An Economic Perspective of APP Workforce Development

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Health care system challenges

Fragmentation

High costs

Health care disparities

Primary care shortage

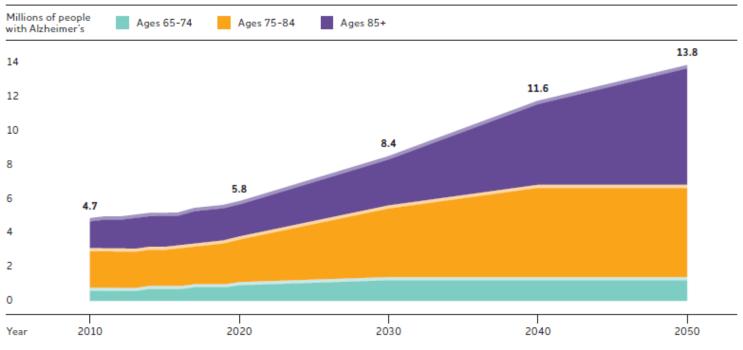
Aging and sicker population



Health care system challenges... Demographics

Projected Numbers of People Aged 65+ with Alzheimer's

Projected Number of People Age 65 and Older (Total and by Age Group) in the U.S. Population with Alzheimer's Dementia, 2010 to 2050

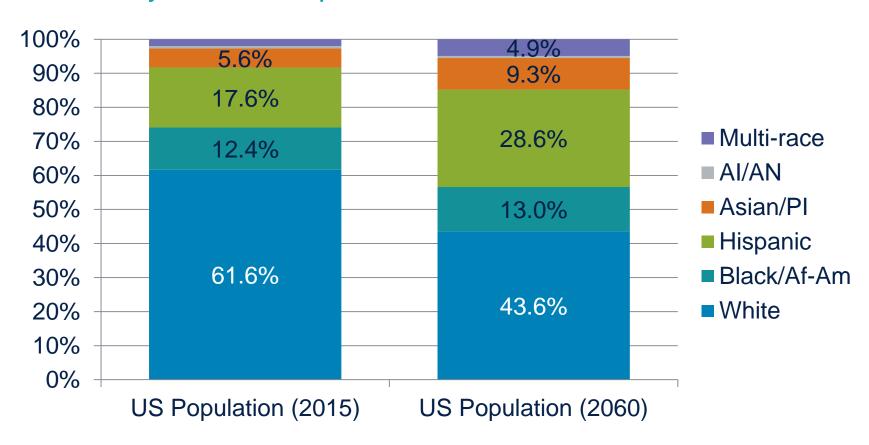


Created from data from Hebert et al. A12.31



Health care system challenges... Demographics

Diversity of U.S. Population, 2015 & 2060



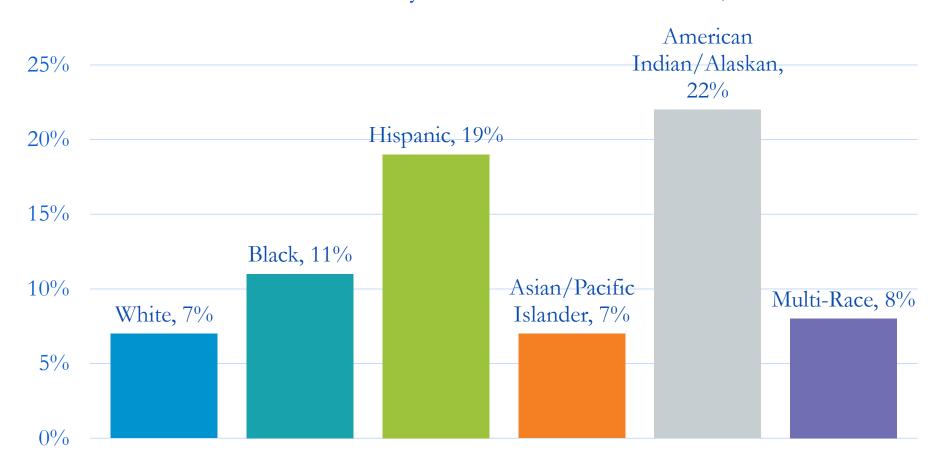
Health care system challenges... Demographics





Health care system challenges... Disparities

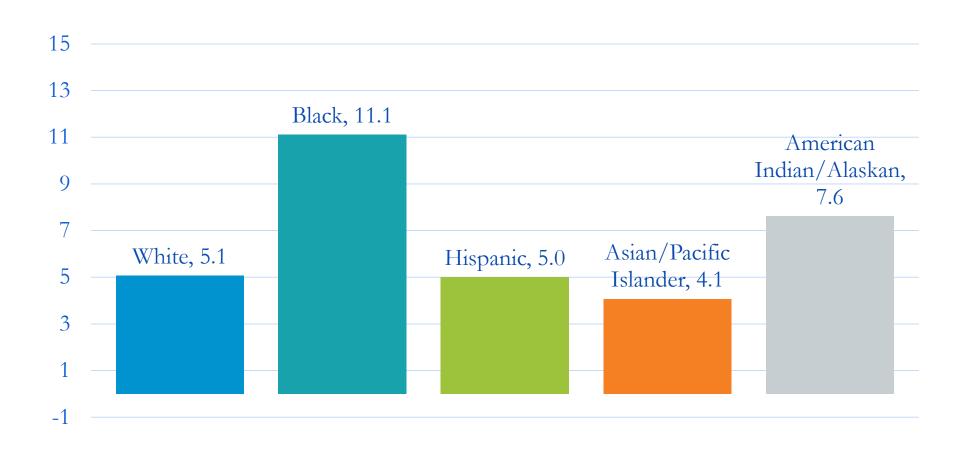
Percent of non-elderly without health insurance, 2017





Health care system challenges... Disparities

Infant mortality per 1000 live births, 2015





Health care system challenges... Costs

US spending on health care:

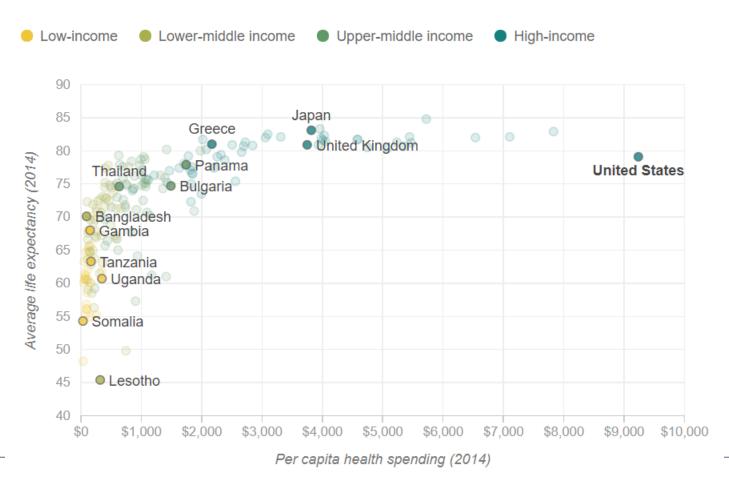
\$3,337,200,000,000 in 2016

\$10,348 for each person in the United States



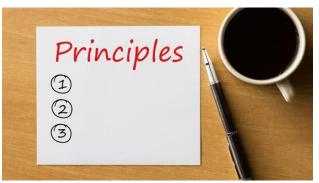
Health care system challenges... Costs

Per Capita, U.S. Spends Far More Than Other Countries With Similar Life Expectancy



Making choices & finding solutions: Principles of any economic system

- Resources are limited
 - You must make choices
- Substitutability
 - Resources can be dedicated to many uses
 - What is the value of alternate uses of a resource?
- Heterogeneous preferences
 - One person's pleasure is another's poison



How much should be consumed?

People compare the marginal cost with the marginal benefit

Marginal cost = change in cost for one-unit increase in quantity

Marginal benefit = change in benefit for one-unit increase in quantity



This concept applies to any input in health care

- Number of PAs we should have
- Number of nurses we should have
- Number of years of training
- Number of radiation treatments for DCIS
- Whether or not to place a stent
- Screening for abdominal aortic aneurysm
- How many physical therapists per patient
- How many specialty versus primary care physicians
- Adding community health workers to your team

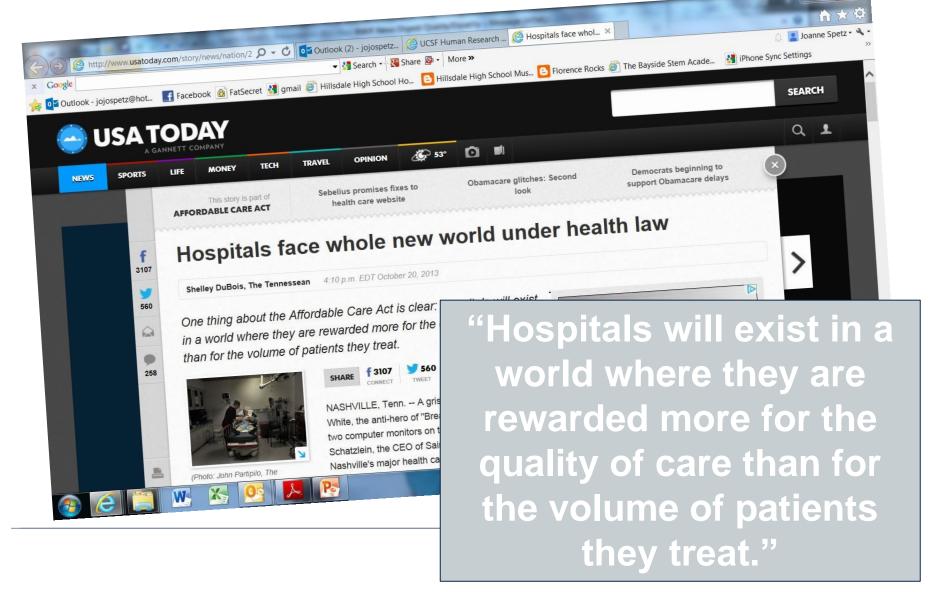


Quadruple Aim





Health system solutions: Value-based payment



Health system solutions: Integration and coordination of services





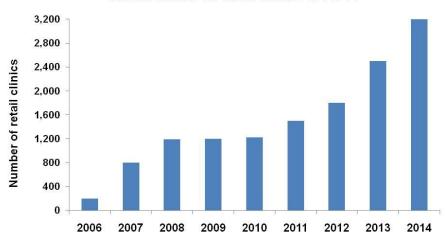




Health system solutions: Expanded sites of care

Retail clinics

Retail Clinic Growth Stalls in 2008-2010, Then Enters Growth Mode to 2014



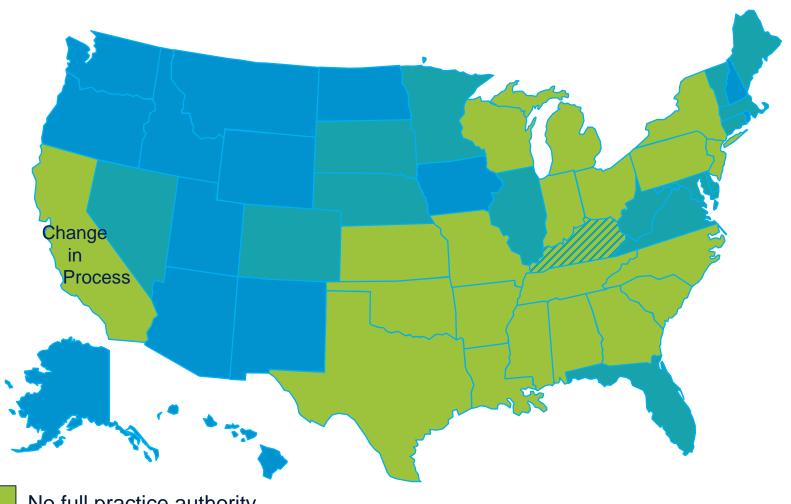
Community Paramedicine







30 states + DC allow NPs to Prescribe Without Physician Oversight (PAs always have oversight)





Full practice authority upon licensure

Full practice authority after transitional period



What roles are APPs taking in innovative care models?

- Care management and coordination
 - Coaching, patient education, motivational interviewing, referrals to specialists, home visits
- Informatics
- Geriatric and long-term care
 - Home- and community-based services
- Population health
 - Assess panels and populations of patients
 - Develop, initiate, and evaluate programs
- Interprofessional collaboration
 - How to delegate
 - How to lead



2018 National Sample Survey of Registered Nurses

To what extent did your master's or doctoral training prepare you to be a licensed independent practitioner?

59.6% To a great extent

36.0% Somewhat or very little

4.4% Not at all



Did you complete an NP post-graduate residency or fellowship? 10.1% say "yes"

How much did training prepare?	Completed NP Residency	No NP Residency
To a great extent	69.3%	58.5%
Somewhat/little	28.4%	36.9%
Not at all	2.3%	4.6%

Percent that said they felt confident in their ability to practice in interprofessional teams "to a great extent":

	Completed NP Residency	No NP Residency
To a great extent	83.5%	76.3%



In my NP position I can practice to the fullest extent of my state's legal scope of practice

	Completed NP Residency	No NP Residency
Strongly agree	66.2%	58.7%
Agree	25.9%	29.3%
Disagree	7.9%	12.1%

In my NP position my NP education is fully utilized

	Completed NP Residency	No NP Residency
Strongly agree	68.3%	59.5%
Somewhat/little	24.6%	29.3%
Not at all	7.1%	11.3%



Training topics that would help you do your job better

	Completed NP Residency	No NP Residency
Evidence-based care	50.4%	47.0%
Patient-centered care	39.7%	35.2%
Caring for medically complex pts	30.8%	35.3%
Team-based care	25.1%	25.9%
Quality improvement	23.3%	23.4%
Practice management/admin	20.0%	21.5%
Social determinants of health	19.0%	19.9%
Population-based health	15.4%	14.7%
Value-based care	14.9%	16.1%



Questions?

Thoughts?

Ideas?

Perspectives?





Thank you!
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