

### Session 27, Public Health: Ignite!

SOA Antitrust Disclaimer SOA Presentation Disclaimer

# Public Health: Ignite!

**2019 SOA HEALTH MEETING** 

Monday, June 24, 2019

Session Moderator: Joe Wurzburger, FSA, MAAA





# What is an "Ignite" session?



Ignite is all about fast and fun presentations. Speakers must build their presentations with 20 slides, each of which is shown for 15 seconds, giving each speaker 5 minutes of fame. The first Ignite took place in Seattle in 2006, and since then the event has become an international phenomenon.

From http://www.ignitetalks.io/



# This session will feature:

- Five Ignite presentations, followed by
- Facilitated discussion / Q&A
  - Live Q&A feature of SOA meeting app







Complex Care: Serving High-Need Patients Jim Mange, FSA, MAAA

> Use of Technology in Public Health Shereen Sayre, ASA, MAAA





**Provider Service Networks** *Kevin Dotson, FSA, MAAA* 

> The Disconnect Between Dental and Medical Care Margie Rosenberg, PhD, FSA





The Impact of Intimate Partner Abuse on Healthcare Leanne Metcalfe, PhD

> Discussion Leader Sara Teppema, FSA, MAAA



SOCIETY OF ACTUARIES

# Complex Care: Serving High Need Patients

Jim Mange, FSA, MAAA





# Complex Care

Serving High-Need Patients

#### MEDICAL REPORT JANUARY 24, 2011 ISSUE

# THE HOT SPOTTERS

Can we lower medical costs by giving the neediest patients better care?



By Atul Gawande

I f Camden, New Jersey, becomes the first American community to lower its medical costs, it will have a murder to thank. At ninefifty on a February night in 2001, a twentytwo-year-old black man was shot while driving his Ford Taurus station wagon





















### **Complex Care Pioneers**

**California Frequent Users Initiative** 

**Community Care of North Carolina** 

**Geriatric Resources for Assessment and Care of Elders (GRACE)** 

CareOregon

**Coordinated Care Clinic** 

**Boeing Intensive Outpatient Care Program** 

**Chicago Housing First Program** 

# What is Complex Care?

Complex care is person- centered approach to addressing the needs of a relatively small, heterogenous group of people who repeatedly cycle through multiple healthcare, social service, and other systems, yet do not derive lasting benefit from those interactions.















### Strong Field Framework

- Shared Identity
- Standards of Practice
- Knowledge Base
- Leadership and Grassroots Support
- Funding and Supporting Policy

Source: Group, T. B. (2009, July 08). The Strong Field Framework: A Guide and Toolkit for Funders and Nonprofits Committed to Large-Scale Impact. Retrieved from https://www.bridgespan.org/insights/library/philanthropy/the-strong-field-framework-a-guide-and-toolkit-for

# BLUEPRINTFOR COMPLEX CARE



### Shared Identity

#### Strengths

- Agreement on problems to address
- Shared principles and goals
- Vast and diverse potential community of stakeholders

### Weaknesses

- Lack of a shared language
- Ill-defined target population

### Standards of Practice

#### Strengths

- Validated care models and promising practices exist and are spreading
- Common features of promising models and practices have been identified

#### Weaknesses

- Data sharing limitations
- Shortage of complex care providers

### Knowledge Base

### Strengths

- Growing evidence supports positive impact
- Target population segmentation improving
- Community of researchers emerging

### Weaknesses

- Metrics don't reflect whole person
- Disagreement on types of evaluations needed

### Funding and Supporting Policy

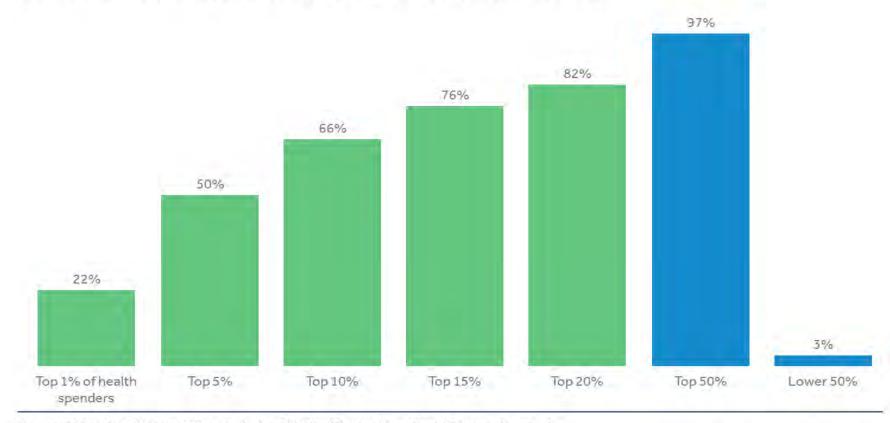
### Strengths

- Shift toward value-based payment supports Complex Care
- Public investment accelerating interest in Complex Care

#### Weaknesses

- Healthcare-based programs struggle with financing in a shifting payment environment
- Social and behavioral health services funded differently and less robustly than healthcare

#### Contribution to total health expenditures by individuals, 2016



Source: Kaiser Family Foundation analysis of Medical Expenditure Panel Survey, Agency for Healthcare Research and Quality, U.S. Department of Health and Human Services

Get the data • PNG

Peterson-Kaiser Health System Tracker

# Use of Technology in Public Health

Shereen Sayre, ASA, MAAA





# Use of Technology in Public Health

### SOA HEALTH MEETING

Shereen Sayre, ASA, MAAA

June 2019









Chris Reading - Pixabay













Skeeze – Pixabay



Moerschy – Pixabay

F. Muhammad – Pixabay













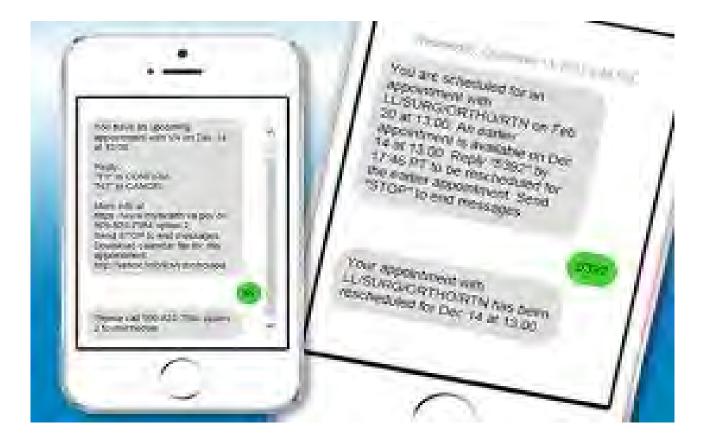


















































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### **UBER** Health



Image Credit: Chapay at Pixabay











### How will actuaries be viewed? What Impact Can We Make?

## Knowledgable?

Complex Societal Research and Solutions Leaders?



Concerned Partners?

ADDING ECONOMIC VALUE?









### **Provider Service Networks**

Kevin Dotson, FSA, MAAA





Provider Service Networks Kevin Dotson, FSA, MAAA

June 26, 2019





### Lee Health

**Key Facts** 

Founded in 1916

Largest not-for-profit public health system in Florida that receives no direct tax support

More than 12,500 employees and more than 4,500 volunteers

More than **550** employed primary and specialty care physicians and advanced practitioners in 57 practice locations throughout Southwest Florida.\*\*

More than 1,480 physicians on the medical staff

Four acute care hospitals and two specialty hospitals

Number of Total Beds: 1,426



**Our Mission** To be a trusted partner, empowering healthier lives through care and compassion.

**Our Vision** To inspire hope and be a national leader for the advancement of health and healing.





### Lee Health

Mission, Vision, and Values

**Our Values:** 

**Respect:** We respect you, your life and your health care choices. We respect one another as colleagues, caregivers and people.

**Excellence:** We strive for excellence in everything we do. We uphold the highest standards of safety and quality, deliver an exceptional experience to our patients, and manage our resources responsibly.

**Compassion:** We care for your family like our own. We truly embody, "caring people, inspiring health."

**Education:** We support education to continuously improve ourselves, develop an effective workforce and empower healthier lifestyles throughout our community.





### What is a PSN?

Section 409.962(14), Florida Statutes

Provider Service Network means an entity qualified pursuant to s. 409.912(2) of which a controlling interest is owned by a health care provider, or group of affiliated providers, or a public agency or entity that delivers health services.

Health care providers include Florida-licensed health care professionals or licensed health care facilities, federally qualified health care centers, and home health care agencies.





### The Why Behind Our PSN

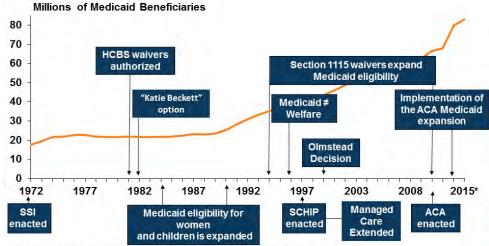
Medicaid Landscape Health System Transformation



### **Medicaid Evolution**

Figure 3

Medicaid has evolved over time to meet changing needs.



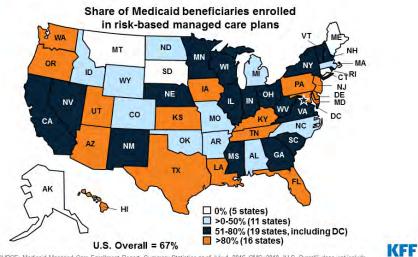
NOTE: Data are missing for 1999. 2012 and 2013. Data for 2014 and 2015 are projections. SOURCES: 1972-1998. Unduplicated, ever-enrolled counts as reported in the 2000 House Ways and Means Committee Green Book http://www.gpo.gov/fdsys/search/pagedetails.action?granulaid=BpackageId=GPO-CPRI-106WPR161710. 2000-2011: KCMU and Urban Institute estimates based on unduplicated, ever-enrolled data from FFY 2000-2011 MSIS. 2014-2015: Unduplicated, ever-enrolled counts as reported in the March 2015 CBO baseline.



KFF

### Medicaid Risk-based MCOs

Figure 6 Over two-thirds of all Medicaid beneficiaries receive their care in comprehensive risk-based MCOs.



SOURCE: Medicaid Managed Care Enrollment Report, Summary Statistics as of July 1, 2016, CMS, 2018. "U.S. Overall" does not include Puerto Rico.



### **Strategic Plan Priorities**

Exceptional Patient Experience Deliver a caring and compassionate experience every time	Excellent Health Outcomes Provide safe, effective care to ensure the best health results for those we serve	Coordinated Care Model Empower healthier lives through personalized coordinated care	Strong Financial Results Assure ongoing financial viability by lowering costs and growing revenues
Right Culture	Right Care	Right Time & Place	Right Cost
<ul> <li>Improve physician/nurse communication with patients</li> <li>Develop behavioral competencies</li> <li>Promote workforce excellence through continuous learning</li> </ul>	<ul> <li>Commit to zero harm</li> <li>Advance community health through prevention and wellness services</li> <li>Improve physician documentation</li> </ul>	<ul> <li>Function as an integrated delivery system</li> <li>Enhance physician, clinician and staff engagement</li> <li>Develop value-based care payment models</li> </ul>	<ul> <li>Diversify and grow revenue streams</li> <li>Optimize revenue cycle</li> <li>Sustain cost transformation</li> <li>Ceptece HEALTH Caring People. Inspiring Health.</li> </ul>

### **Provider Led Health Plan**

Regional Representation	<ul><li>Provider Board</li><li>Quality &amp; Credentialing Committee</li><li>Physician Advisory Committee</li></ul>
Provider Relations Team	<ul><li>Supporting Provider and Staff</li><li>Faster Credentialing</li><li>Education</li></ul>
Community Engagement Team	<ul> <li>Connecting members to Resources</li> <li><i>Vivida Community Connect</i></li> <li>Community based in person support</li> </ul>



### The How Behind the PSNs

ITN Process Quality Measures from AHCA Care Management Model Local Care Management Integrated Care including Behavioral Health



AHCA released the rebid Invitation to Negotiate (ITN) on July 14, 2017, for new 5-year contracts (contract term through September 30, 2023).





### **New SMMC Program Goals**

The Agency is committed to ensure continuous quality improvement by working to:

### REDUCE POTENTIALLY PREVENTABLE EVENTS

- Admissions
- Readmissions
- Emergency department visits

#### **IMPROVE BIRTH OUTCOMES**

- Reduce Primary Cesarean Section (C-section) Rate
- Reduce Pre-term Birth Rate
- Reduce Rate of Neonatal Abstinence Syndrome (NAS)

#### **IMPROVE CARE TRANSITIONS**

 Increase the percentage of enrollees receiving long-term care services in their own home or the community instead of a nursing facility

#### IMPROVE ACCESS TO DENTAL CARE

- Increase the percentage of children receiving preventive dental services
- Reducing potentially preventable dental related emergency department visits

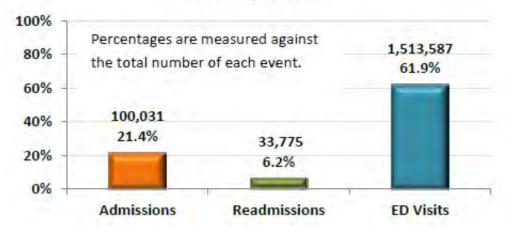
Best Practices for Reducing Potentially Preventable Events AHCA Division of Medicaid, May 21, 2019

Better Health Care for All Floridian AHCA.MyFlorida.com



### Potentially Preventable Healthcare Events

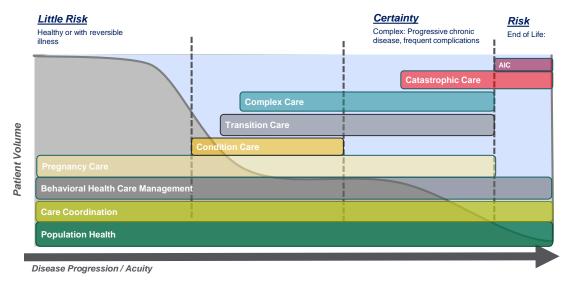
Percentage and Number of Each Event Identified as Potentially Preventable, July 2016 to June 2017



Analysis of Potentially Preventable Healthcare Events of Florida Medicaid Enrollees 2015-2016 and 2016-2017 AHCA Business Intelligence Unit Medicaid Data Analytics Winter 2018



# The Model of Care addresses the *entire* Medicaid population



Source: Advanced Illness Management Strategies. Part 1. American Hospital Association, August 2012.

### Population Health – Building Blocks

- <u>Surveillance</u> establish population monitoring to predict unmet health needs: Behavioral, Medical, Medications
- <u>Stratify</u> continuously profile patient risk at all points of engagement and benchmark against "Community Risk Determinants"
  - Build a Patient Dossier
  - Quantify predictive risk and not just current treatment or historical disease state
- <u>Engagement</u> deploy a tiered, population health, model of care that uses appropriate points of service and intensity of engagement to drive targeted outcomes
  - Lee Health needs an enhanced Operating Model that creates a system of care
  - Alignment of Preventative, Acute and Non-acute delivery of care and Health Optimization
- <u>Manage</u> all levels of risk, especially moderate and low to prevent escalation. Apply disease management models for chronic/complex cases
  - Repurpose existing strategic initiatives, resources and IT infrastructure
  - 1:1 patient relationship with dedicated Case Managers
  - New operating alignment and internal agreements



### **Integrated Care**

Community Engagement Team	<ul> <li>Connecting members to Resources</li> <li>Vivida Community Connect</li> <li>Community based in person support</li> </ul>
Population Health Team	<ul> <li>Proven risk stratification tool</li> <li>Identifi</li> <li>Actionable reporting tools</li> <li>Local in person support</li> </ul>
Care Advising Programs	<ul> <li>Local, boots-on-ground Care Advising Team</li> <li>Focused programs based on Risk Strat</li> </ul>

• Augment or own based on Practice



### Local Care Management

**Patient Story** 

61 y/o Male with Hx: CHF, COPD, CAD, DM, Anxiety/Depression, Asthma, HTN, Previous Open Heart. On Home O2 with Sleep Apnea

Changing the health and well-being of a population, one person at a time

Our touch can change the trajectory of a person's life and the lives of those around them



### Local Care Management

Every percent and every PPE represents a life and all the collateral lives around them

"Make their lives" not just their day

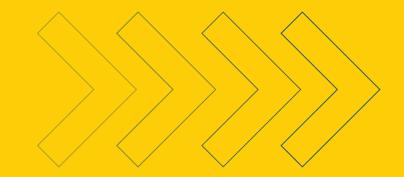


### Thank You



# The Disconnect Between Dental and Medical Care

Margie Rosenberg, PhD, FSA





### Why is Health Insurance only Medical Coverage? The disconnect between Dental and Medical Care Margie Rosenberg, PhD, FSA

University of Wisconsin-Madison



gg92463480 www.gograph.com

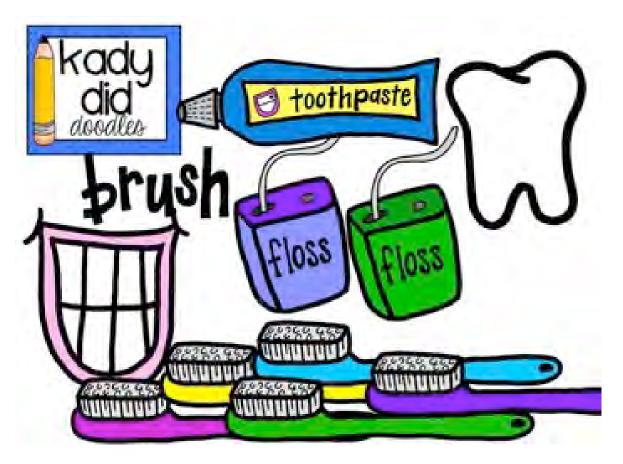


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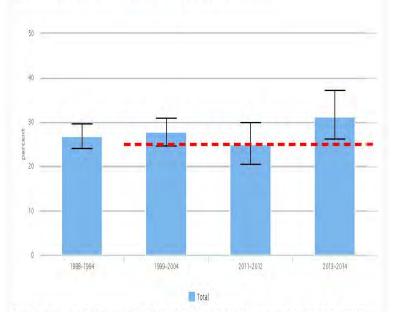
Data Source: National Health and Nutrition Examination Survey (NHANES); Centers for Disease Control and Prevention, National Center for Health Statistics (CDC/NCHS) Error Bar (I) represents the 95% confidence interval

Additional footnotes may apply to these data. Please refer to footnotes below the data table for further information.

#### Healthy People 2020

#### Adults with untreated dental decay (percent, 35–44 years) By Total

2020 Baseline (year): 27.8 (1999-2004) --- 2020 Target: 25.0 Desired Direction: Decrease desired



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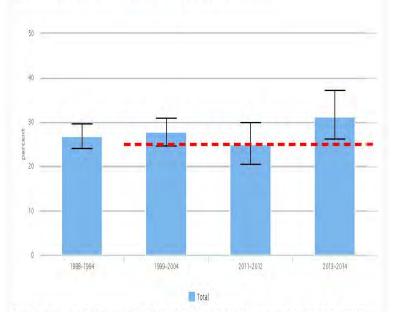
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H Cavadenti, engraving, 38 x 29 cm, by Francesco Magiotto (ca. 1750–1805). On a platform in the marketplace, a tooth-drawer, or a charlatan, extracts a tooth. Note the seated simian.

#### Excruciating History of Dentistry





gg68199111 www.gograph.com



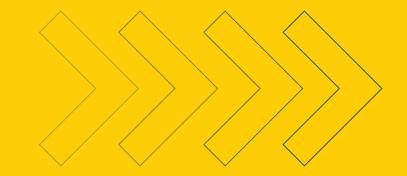




https://getdrawings.com

## The Impact of Intimate Partner Abuse on Healthcare

Leanne Metcalfe, PhD







The Silenced Epidemic

The impact of Intimate Partner Abuse on Healthcare











N.F.L. to Spend \$100 Million to Address Head Trauma

> The grants were made as part of a \$100 million initiative announced by the league in 2016. Under that initiative, which the NFL called "Play Safe. Play Smart," the league said it would devote \$60 million to technological research, including attempts to improve helmet safety for players, and \$40 million toward the funding of medical research into the effects of head injuries.

> > 1696 Players



### 4.7 M women experience physical violence each year

#### • 2764 X

 38 M women experience physical violence in their lifetime

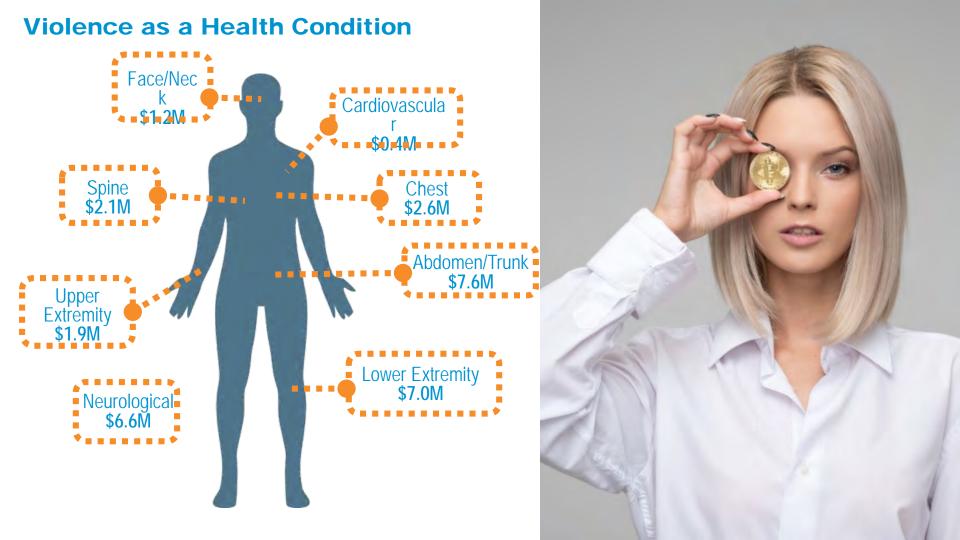




## The New York Times Magazine

- The trouble began with constant headaches and sensitivity to light
- the crippling headaches had something to do with stress
- Her relationship with her boyfriend, the baby's father, had become increasingly contentious and eventually physically violent
- Three months into her pregnancy, he became angry at her for wanting to hang out with friends and threw her to the ground outside their apartment







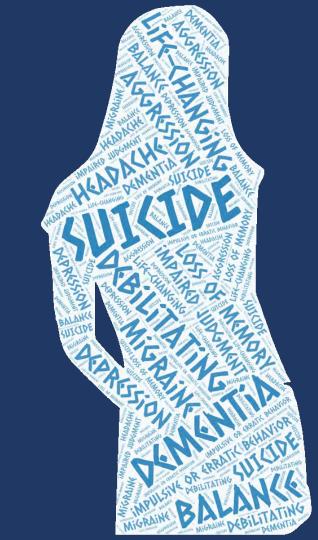
## \$84.4 Million

# \$120 Million

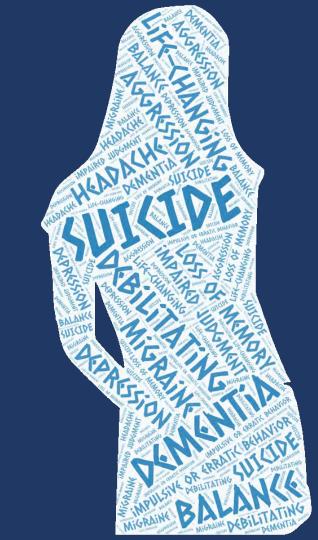


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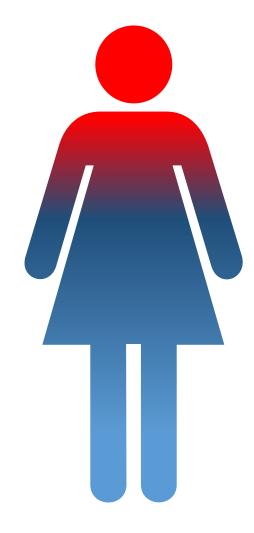
















#### **Contact Information**

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### Discussion







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