

exploreHCBS

Operations, Geography,  
Quality Assurance,  
Program Integrity, Research

Commonwealth of Massachusetts  
Executive Office of Elder Affairs

[www.mass.gov/elders](http://www.mass.gov/elders)



# The Home and Community Based Services (HCBS) Policy Lab:

Applying assessment data to cost data in support of HCBS policy development

Public Payer Commission  
Secretary Ann L. Hartstein  
October 27, 2014

# Goals of Today's Presentation

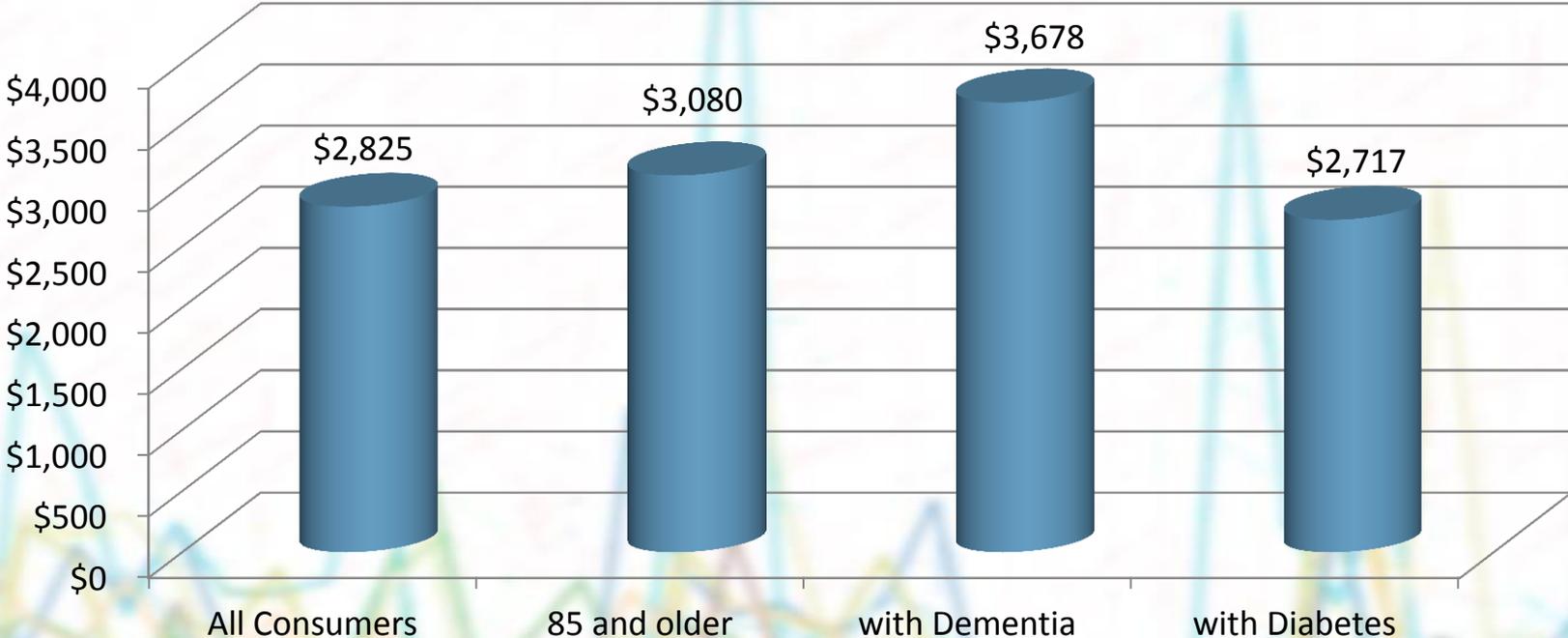
- **To Inform:**  
The Public Payer Commission of the establishment of a HCBS Policy Lab, a recent collaboration between the Executive Office of Elder Affairs and the UMass Medical School, that is available to support certain inquiries of the Commission.
- **To Suggest:**  
The existence of a historical gap between the health care and the home care communities. A common refrain is that home care services and costs can influence health care services and costs. Now there is an environment where these hypotheses can be tested.
- **To Emphasize:**  
The need for awareness of the public policy challenge that will soon be presenting. The oldest baby boomers are now 68 years old. Over the next 10 years, long-term services and supports (LTSS) delivery systems are going to begin experiencing demand impacts, and we must proactively plan for sufficient capacity.
- **To Demonstrate:**  
The Policy Lab can easily marry the assessment data to any typical consumer health care cost data.

# EOEA Data Analysis Initiative and HCBS Policy Lab Developments

- **2012:** EOEA began collaborating with the UMass Medical School to analyze the agency's Senior Information Management System (SIMS) dataset
- **2012-present:** EOEA and UMass developed operational and policy-oriented reports and presented findings at national conferences
- **2014:** FY15 budget included appropriation to “focus on the outcomes and effectiveness of public investments made in home and community-based care and services”

# Assessment and Cost Observations

## Average Monthly LTSS Service Cost



# of Consumers	8,640	2,815	2,118	3,734
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## EOEA's SIMS Dataset

- **Assessment Data:** Demographics, cognitive patterns, Activities of Daily Living (ADLs), Instrumental Activities of Daily Living (IADLs), disease diagnoses, health conditions, nutrition and medications
- **Financial Data:** Case management and purchase of services rates, service unit rate and cost, claims, copayments, reimbursement amount
- **Service Data:** Care plan, service plan, service delivery & suspensions
- **Program Enrollment Data:** AoA Title III programs, state Home Care programs, long term services and supports, local programs
- **Outcome Data:** Enrollment termination reasons, length of stay in community, service suspensions
- **Caregiver Data:** Relationship, stress/burden, caregiver assessment, caregiver services

## Size of SIMS Dataset

<b>Consumers</b>	
Total # of Individuals (callers, consumers, caregivers)	817 thousand
# of Consumers receiving services (FY14)	187 thousand
<b>Services</b>	
Total LTSS Expenditures (since 2007)	\$2.5 billion
LTSS Expenditures (FY14)	\$365 million
<b>Assessments (Minimum Dataset – Home Care)</b>	
# of Assessment Questions	340
# of Assessments	1.6 million
# of Assessment Responses	274 million

# Linking SIMS Data with MassHealth Data

## SIMS Dataset

Demographics, assessments,  
consumer outcomes, EOE A  
HCBS service costs and units,  
caregiver information

## MassHealth State Plan Claims

Claims for MassHealth LTSS  
services and other state plan  
services (inpatient and  
outpatient hospital, physicians,  
nursing facility, pharmacy)

## Analyzing Cost and Assessment Data

- **Pricing Report Analysis:** To understand the LTSS and other state plan service costs based on consumer demographics, functional level and disease diagnoses
- **Assessment Report Analysis:** To understand the prevalence and costs associated with assessment responses

# Pricing Report - Dementia

**Period: 04/01/2013 - 06/30/2013**

## All Consumers

	Home Care Basic	Enhanced Home Care	Frail Elder Waiver (FEW)	Grand Total
Number of Consumers	23,180	4,462	8,627	36,267
Total Cost, per member per month	\$457.06	\$727.32	\$2,822.86	\$1,053.10

## Selected Consumers

	Home Care Basic	Enhanced Home Care	Frail Elder Waiver (FEW)	Grand Total
Number of Consumers	3,220	1,328	2,127	6,674
Total Cost, per member per month	\$454.88	\$720.88	\$3,687.16	\$1,538.00
% of Consumers	13.9%	29.8%	24.7%	18.4%

## Selected Consumers

Service Type	Home Care Basic		Enhanced Home Care		Frail Elder Waiver (FEW)		Grand Total	
	% of the consumers	Cost PMPM	% of the consumers	Cost PMPM	% of the consumers	Cost PMPM	% of the consumers	Cost PMPM
EOEA Home Care Services	100.0%	\$261.75	100.0%	\$665.51	100.0%	\$1,512.78	100.0%	\$740.83
MassHealth LTSS	8.9%	\$1,382.80	1.2%	\$979.36	73.4%	\$2,570.69	28.0%	\$2,373.71
Other State Plan Services	13.5%	\$512.91	3.1%	\$1,411.20	63.5%	\$451.47	27.4%	\$487.67

### Selection Criteria:

Service Type (All)

**A. Consumer Demographics**

Age (All)

Gender (All)

Race/Ethni... (All)

Living Alone (All)

Rural (All)

Understand English (All)

Marital Status (All)

Veteran (All)

Veteran Dependent (All)

**B. Functional Impairment Level**

Matrix (All)

**C. Risk**

Risk Level (All)

Cog. Impair... (All)

Nutrition Risk (All)

**D. Diagnoses**

Alzheimer's (All)

Dementia Yes

Diabetes (All)

**E. Caregiver Support**

W/ ADL sup... (All)

# Pricing Report - Diabetes

Period: 04/01/2013 - 06/30/2013  
All Consumers

	Home Care Basic	Enhanced Home Care	Frail Elder Waiver (FEW)	Grand Total
Number of Consumers	23,180	4,462	8,627	36,267
Total Cost, per member per month	\$457.06	\$727.32	\$2,822.86	\$1,053.10

Selected Consumers

	Home Care Basic	Enhanced Home Care	Frail Elder Waiver (FEW)	Grand Total
Number of Consumers	6,558	1,296	3,769	11,623
Total Cost, per member per month	\$540.02	\$754.31	\$2,709.22	\$1,267.32
% of Consumers	28.3%	29.0%	43.7%	32.0%

Selected Consumers

Service Type	Home Care Basic		Enhanced Home Care		Frail Elder Waiver (FEW)		Grand Total	
	% of the consumers	Cost PMPM	% of the consumers	Cost PMPM	% of the consumers	Cost PMPM	% of the consumers	Cost PMPM
EOEA Home Care Services	100.0%	\$265.05	100.0%	\$645.28	100.0%	\$997.98	100.0%	\$545.12
MassHealth LTSS	15.1%	\$942.86	1.5%	\$237.60	70.9%	\$1,861.16	31.6%	\$1,605.90
Other State Plan Services	25.1%	\$529.22	5.0%	\$2,100.66	75.3%	\$520.96	39.2%	\$546.51

Selection Criteria:

Service Type (All) ▾

**A. Consumer Demographics**

Age (All) ▾

Gender (All) ▾

Race/Ethnicity (All) ▾

Living Alone (All) ▾

Rural (All) ▾

Understand English (All) ▾

Marital Status (All) ▾

Veteran (All) ▾

Veteran Dependent (All) ▾

**B. Functional Impairment Level**

Matrix (All) ▾

**C. Risk**

Risk Level (All) ▾

Cog. Impair.. (All) ▾

Nutrition Risk (All) ▾

**D. Diagnoses**

Alzheimer's (All) ▾

Dementia (All) ▾

Diabetes Yes ▾

**E. Caregiver Support**

W/ ADL supp. (All) ▾

# Assessment Report – Managing Medications

**Agency:** Commonwealth of Mass

**Period:** 2013-12

Question	Response -	Choices / Waiver		
		Member Count	%	Cost PMPM
Managing medications - How medications are managed in the last 7 days? (Performance Code)	Independent, did on own (1084)	930	13.8%	\$1,032
	Some help - help some of the time (1084)	2,310	34.4%	\$1,225
	Full help - performed with help all of the time (1084)	2,109	31.4%	\$1,936
	By others - performed by others (1084)	1,352	20.1%	\$2,616
	Activity did not occur (1084)	17	0.3%	\$1,137
	No Response (1084)	2		
<b>Total</b>		<b>6,720</b>	<b>100.0%</b>	<b>\$1,689</b>



# Future Data Aspirations

## SIMS Dataset

Demographics, assessments, consumer outcomes, EOE HCBS service costs and units, caregiver information

## MassHealth State Plan Claims

Claims for MassHealth LTSS services and other state plan services (inpatient and outpatient hospital, physicians, nursing facility, pharmacy)

## Medicare Data

(Hospital admissions, physician claims, pharmacy)

# Comments & Questions

## Thank you for your time and attention

### Contact Information:

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