

# Developing State-Level Capacity to Support Super-Utilizers

---

**Presented by:**

Dan Crippen, PhD  
Executive Director

National Governors Association

August 12, 2013

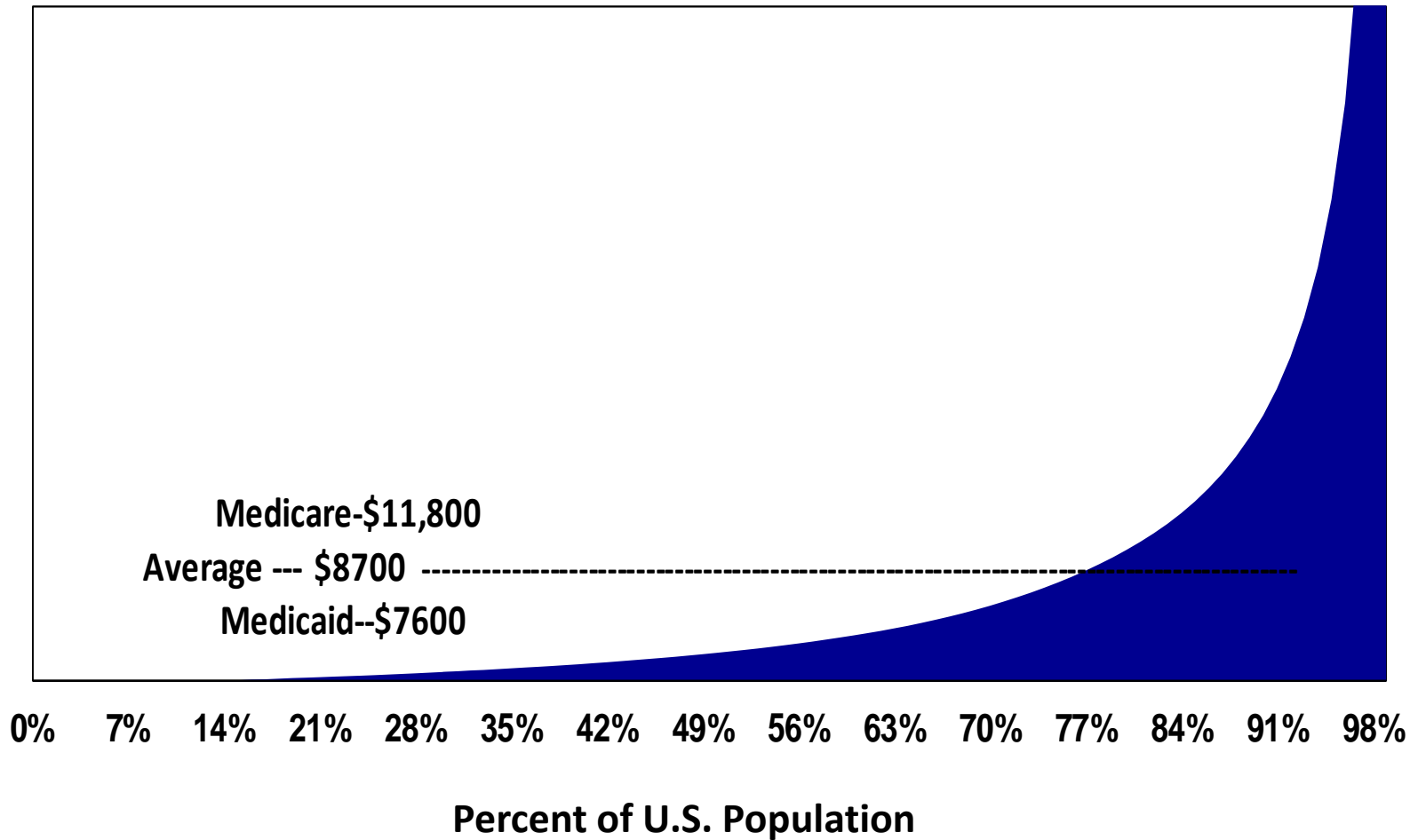
Washington, D.C.

The logo for the National Governors Association features a stylized, multi-pointed star or compass rose shape in gold and blue. The text "NATIONAL GOVERNORS ASSOCIATION" is written in a serif font, with "GOVERNORS" in a larger, bold font and "NATIONAL" and "ASSOCIATION" in smaller fonts above and below it, respectively.

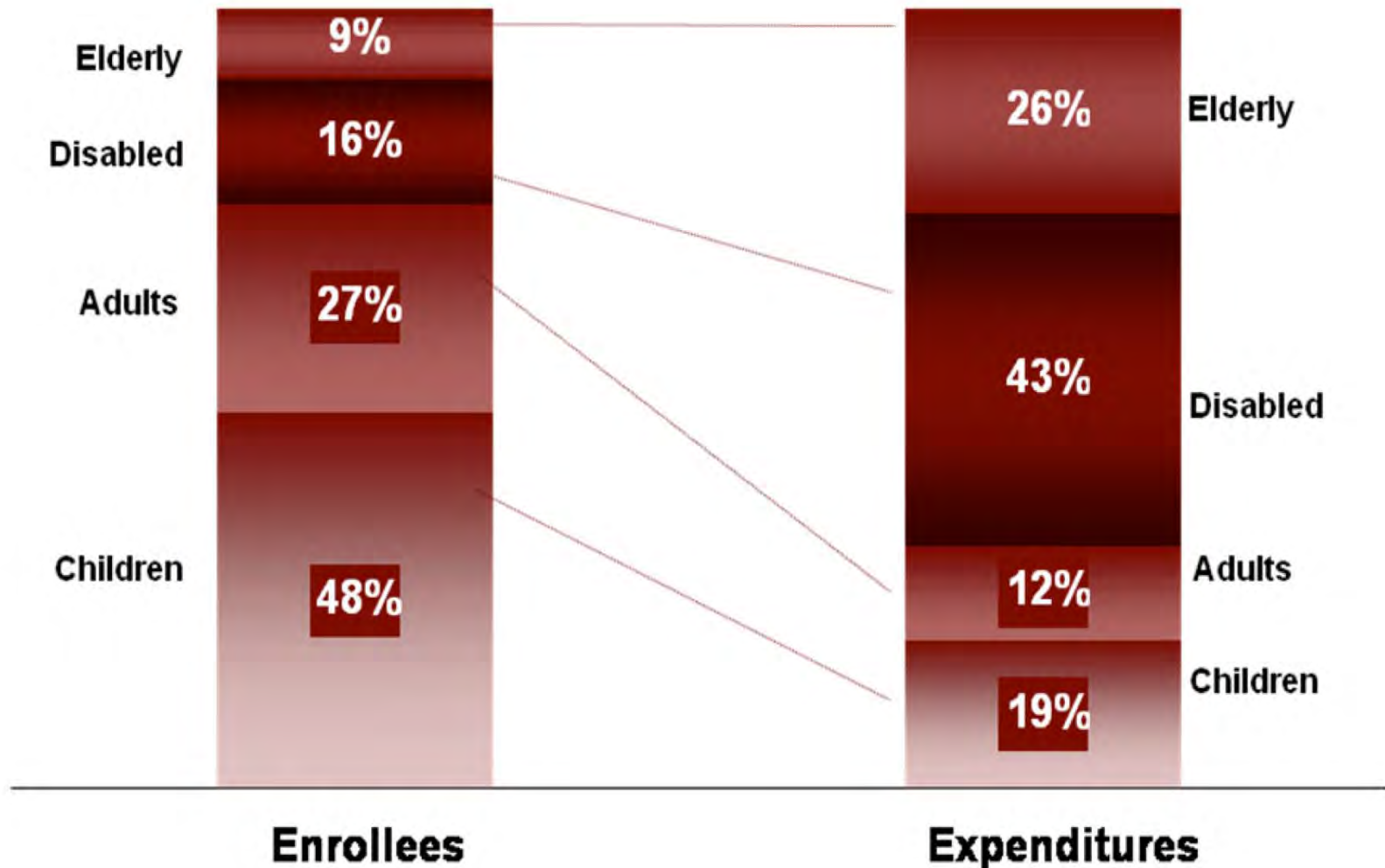
NATIONAL  
GOVERNORS  
ASSOCIATION

# Per Capita Health Costs

## 2011



# What Groups Drive Medicaid Spending?



## Prevalent Primary Conditions / Comorbidity Analysis

Top 20 Primary Conditions & Comorbidities for the Top 2% Highest Cost Members

RANKED BY % of Total Cost (Mar. 2011-Feb. 2012)

Rank	Primary Diagnostic Condition	Unique Members	% of Total		Most Prevalent Comorbidity		2nd Most Prevalent Comorbidity		3rd Most Prevalent Comorbidity	
			Annual Cost	PMPM Cost	Description	Incident Rate with Prim. Cond.	Description	Incident Rate with Prim. Cond.	Description	Incident Rate with Prim. Cond.
1	Respiratory Failure Conditional	396	28.3%	\$7,856	Other Lower Respiratory Disease	78.3%	HTN	50.0%	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	49.0%
2	CHF	102	7.8%	\$8,281	HTN	90.2%	Other Lower Respiratory Disease	83.3%	Hyperlipidemia	71.6%
3	End-Stage Renal Disease	66	5.8%	\$9,466	HTN	77.3%	Anemia	72.7%	Other Lower Respiratory Disease	59.1%
4	Chronic Kidney Disease	103	5.6%	\$5,867	HTN	88.3%	Acute and Unspecified Renal Failure	71.8%	Hyperlipidemia	67.0%
5	Alcohol Abuse and Related Disorders	155	5.1%	\$3,498	Tobacco Abuse	79.4%	Depression	76.1%	Substance Abuse and Related Disorders	70.3%
6	Congenital Anomalies	110	4.9%	\$5,003	Other Lower Respiratory Disease	31.8%	Conduction Disorders	21.8%	Other Upper Respiratory Disease	20.9%
7	Gastro-Duodenal Ulcer and Inflammation	131	4.4%	\$3,533	Abdominal Pain	80.2%	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	79.4%	Depression	59.5%
8	Epilepsy, Convulsions	97	4.4%	\$4,714	Headache, Including Migraine	44.3%	Anxiety Disorders	37.1%	Other Upper Respiratory Disease	36.1%
9	CAD	108	3.4%	\$3,370	HTN	94.4%	Hyperlipidemia	85.2%	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	71.3%
10	Tobacco Abuse	101	3.0%	\$3,314	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	68.3%	HTN	46.5%	Depression	45.5%
11	Paralysis	56	2.6%	\$4,833	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	50.0%	HTN	48.2%	Headache, Including Migraine	39.3%
12	Fetal Disorders	53	2.5%	\$7,177	Congenital Anomalies	66.0%	Other Lower Respiratory Disease	37.7%	Conduction Disorders	15.1%
13	Regional Enteritis and Ulcerative Colitis	68	2.5%	\$3,813	Abdominal Pain	69.1%	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	51.5%	Depression	42.6%
14	Cerebrovascular Disease	64	2.2%	\$3,751	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	70.3%	HTN	68.8%	Depression	62.5%
15	Headache, Including Migraine	70	2.1%	\$3,241	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	62.9%	Abdominal Pain	52.9%	Urinary Tract Infections	41.4%
16	Substance Abuse and Related Disorders	74	2.1%	\$3,006	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	82.4%	Depression	66.2%	Tobacco Abuse	63.5%
17	Metastatic Cancer	35	2.0%	\$6,596	Cancer	100.0%	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	60.0%	Abdominal Pain	51.4%
18	Cancer	38	1.4%	\$4,176	HTN	36.8%	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	26.3%	Other Upper Respiratory Disease	26.3%
19	Sickle Cell Anemia	33	1.3%	\$4,202	Abdominal Pain	66.7%	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	51.5%	Headache, Including Migraine	42.4%
20	Moderate or Severe Liver Disease	44	1.3%	\$3,210	HTN	68.2%	Depression	65.9%	Abdominal Pain	59.1%
<b>Top 20 Conditions</b>		<b>1,904</b>	<b>92.8%</b>	<b>\$5,306</b>						
<b>All Other Conditions</b>		<b>193</b>	<b>7.2%</b>	<b>\$4,016</b>						
<b>Total of Top 2% of High Risk Mbrs</b>		<b>2,097</b>	<b>100.0%</b>	<b>\$5,187</b>						

## Utilization Metrics

### Top 20 Primary Conditions of the Top 20% Highest Cost Members

RANKED BY % of Total Cost (Mar. 2011-Feb. 2012)

\* Readmission rates based on Dec. 2010-Nov. 2011

Rank	Primary Condition	Unique Mbrs	% of Total Cost	Total PMPM	Admits PMPY	ALOS	% of One Day Admits	% of 30-day Readmits*	% of Avoidable Admits	ED Visits PMPY
1	Respiratory Failure Conditional	852	15.6%	\$4,257.63	1.3	4.6	20.2%	19.2%	26.6%	3.4
2	Alcohol Abuse and Related Disorders	1,330	6.7%	\$1,176.52	1.0	4.6	24.6%	9.3%	6.4%	3.8
3	Tobacco Abuse	1,704	6.4%	\$870.86	0.2	4.0	17.5%	4.3%	24.1%	2.6
4	Headache, Including Migraine	1,750	5.9%	\$767.50	0.1	3.4	16.4%	10.7%	27.4%	2.2
5	Gastro-Duodenal Ulcer and Inflammation	1,185	5.9%	\$1,127.65	0.3	3.8	16.3%	11.3%	28.2%	2.8
6	Substance Abuse and Related Disorders	1,637	5.8%	\$810.78	0.5	4.2	25.6%	4.8%	5.3%	2.4
7	Congenital Anomalies	1,038	5.3%	\$1,246.68	0.2	2.6	22.0%	5.0%	34.2%	1.2
8	Spondylosis, Intervertebral Disc Disorders, Other Back Problems	1,615	4.9%	\$689.19	0.1	3.3	20.6%		30.9%	1.5
9	Epilepsy, Convulsions	821	4.5%	\$1,242.75	0.3	3.8	25.6%	7.5%	31.5%	2.8
10	CHF	215	4.2%	\$4,416.47	1.3	5.0	18.8%	25.7%	38.1%	3.5
11	Chronic Kidney Disease	315	3.6%	\$2,578.89	1.0	4.1	18.7%	20.2%	29.8%	2.4
12	CAD	530	3.3%	\$1,399.31	0.4	3.6	20.0%	7.7%	22.3%	2.2
13	End-Stage Renal Disease	79	2.8%	\$8,441.75	1.3	5.0	21.9%	18.3%	29.9%	2.4
14	Diabetes	657	2.5%	\$868.99	0.2	3.4	20.3%	7.4%	16.1%	1.3
15	Cerebrovascular Disease	421	2.4%	\$1,272.98	0.5	3.7	18.1%	15.2%	22.9%	2.8
16	Asthma	721	2.3%	\$713.16	0.2	2.3	23.2%	1.5%	76.9%	1.9
17	Fetal Disorders	265	2.1%	\$2,478.26	0.2	3.3	19.4%	12.4%	44.2%	1.7
18	Moderate or Severe Liver Disease	487	2.1%	\$963.70	0.4	4.1	23.7%	9.2%	17.7%	2.2
19	Paralysis	204	1.8%	\$2,035.28	0.5	4.7	19.6%	6.3%	20.4%	3.0
20	Regional Enteritis and Ulcerative Colitis	235	1.8%	\$1,711.70	0.5	4.4	16.5%	23.9%	30.6%	3.2
<b>Top 20</b>		<b>16,061</b>	<b>89.9%</b>	<b>\$1,289.41</b>						
<b>All Other</b>		<b>2,180</b>	<b>10.1%</b>	<b>\$1,060.66</b>						
<b>Total of Top 20% Mbrs</b>		<b>18,241</b>	<b>100.0%</b>	<b>\$1,262.04</b>						

## Utilization Metrics

### Top 20 Primary Conditions of the Top 20% Highest Cost Members

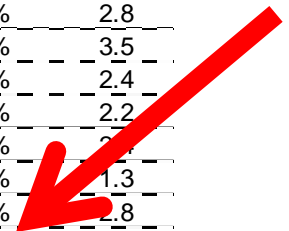
1-Feb. 2012)

0-Nov. 2011

Chronic conditions and  
addictions

Use of Hospitals and ERs

	Unique Mbrs	% of Total Cost	Total PMPM	Admits PMPY	ALOS	% of One Day Admits	% of 30-day Readmits*	% of Avoidable Admits	ED Visits PMPY
1 Respiratory Failure Conditional	852	15.6%	\$4,257.63	1.3	4.6	20.2%	19.2%	26.6%	3.4
2 Alcohol Abuse and Related Disorders	1,330	6.7%	\$1,176.52	1.0	4.6	24.6%	9.3%	6.4%	3.8
3 Tobacco Abuse	1,704	6.4%	\$870.86	0.2	4.0	17.5%	4.3%	24.1%	2.6
4 Headache, Including Migraine	1,750	5.9%	\$767.50	0.1	3.4	16.4%	10.7%	27.4%	2.2
5 Gastro-Duodenal Ulcer and Inflammation	1,185	5.9%	\$1,127.65	0.3	3.8	16.3%	11.3%	28.2%	2.8
6 Substance Abuse and Related Disorders	1,637	5.8%	\$810.78	0.5	4.2	25.6%	4.8%	5.3%	2.4
7 Congenital Anomalies	1,038	5.3%	\$1,246.68	0.2	2.6	22.0%	5.0%	34.2%	1.2
8 Spondylosis, Intervertebral Disc Disorders, Other Back Problems	1,615	4.9%	\$689.19	0.1	3.3	20.6%		30.9%	1.5
9 Epilepsy, Convulsions	821	4.5%	\$1,242.75	0.3	3.8	25.6%	7.5%	31.5%	2.8
10 CHF	215	4.2%	\$4,416.47	1.3	5.0	18.8%	25.7%	38.1%	3.5
11 Chronic Kidney Disease	315	3.6%	\$2,578.89	1.0	4.1	18.7%	20.2%	29.8%	2.4
12 CAD	530	3.3%	\$1,399.31	0.4	3.6	20.0%	7.7%	22.3%	2.2
13 End-Stage Renal Disease	79	2.8%	\$8,441.75	1.3	5.0	21.9%	18.3%	29.9%	2.7
14 Diabetes	657	2.5%	\$868.99	0.2	3.4	20.3%	7.4%	16.1%	1.3
15 Cerebrovascular Disease	421	2.4%	\$1,272.98	0.5	3.7	18.1%	15.2%	22.9%	2.8
16 Asthma	721	2.3%	\$713.16	0.2	2.3	23.2%	1.5%	76.9%	1.9
17 Fetal Disorders	265	2.1%	\$2,478.26	0.2	3.3	19.4%	12.4%	44.2%	1.7
18 Moderate or Severe Liver Disease	487	2.1%	\$963.70	0.4	4.1	23.7%	9.2%	17.7%	2.2
19 Paralysis	204	1.8%	\$2,035.28	0.5	4.7	19.6%	6.3%	20.4%	3.0
20 Regional Enteritis and Ulcerative Colitis	235	1.8%	\$1,711.70	0.5	4.4	16.5%	23.9%	30.6%	3.2
<b>Top 20</b>	<b>16,061</b>	<b>89.9%</b>	<b>\$1,289.41</b>						
<b>All Other</b>	<b>2,180</b>	<b>10.1%</b>	<b>\$1,060.66</b>						
<b>Total of Top 20% Mbrs</b>	<b>18,241</b>	<b>100.0%</b>	<b>\$1,262.04</b>						



# Washington State Public Health Response to Asthma

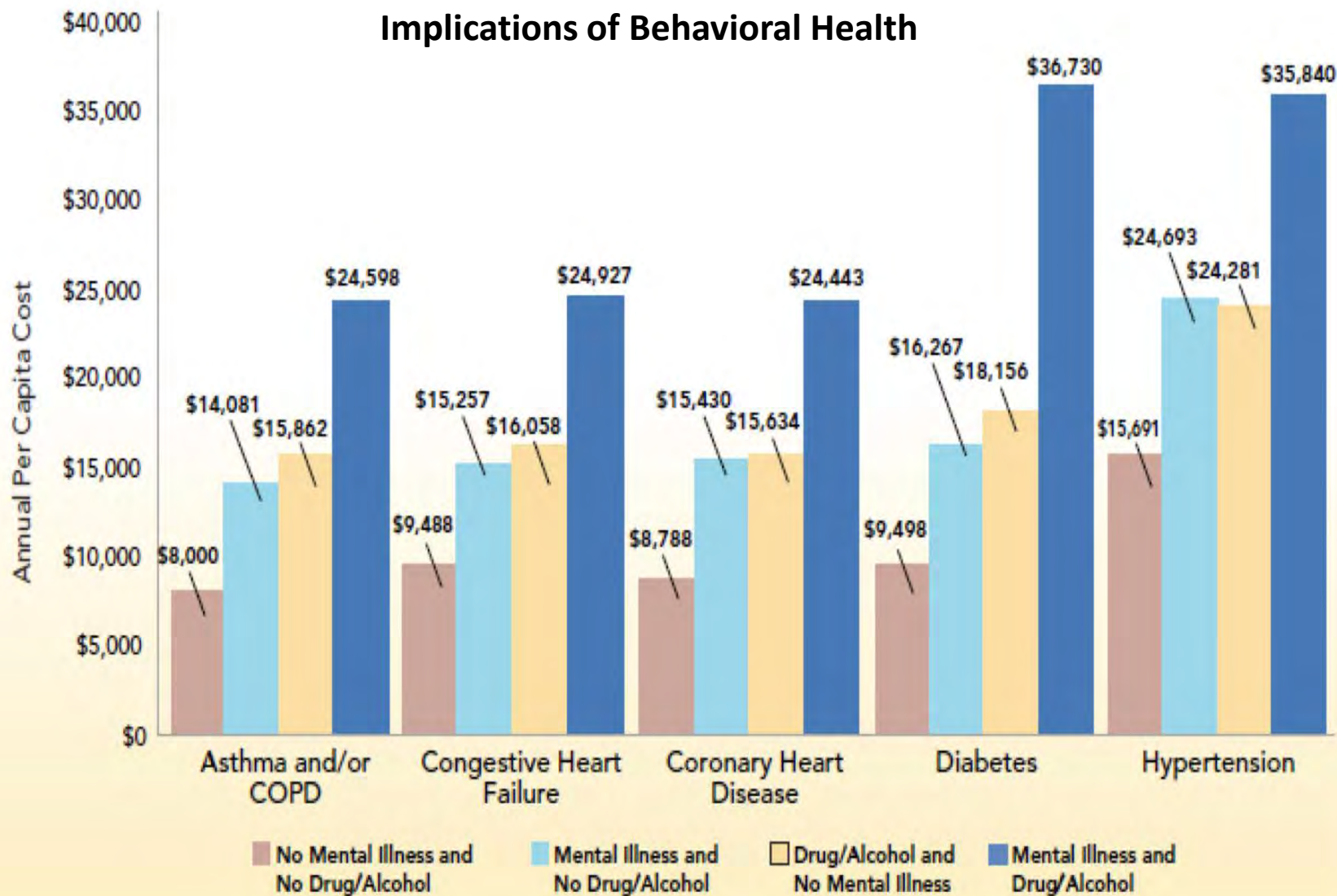
- **More than 9% of adults and 8% of children in Washington State have asthma.**
- **Washington's Asthma Program increased asthma awareness, educated patients, and partnered with community stakeholders to decrease hospitalizations.**
- **In 2007, asthma-related hospital costs were \$48M down from \$406M in 2002.**





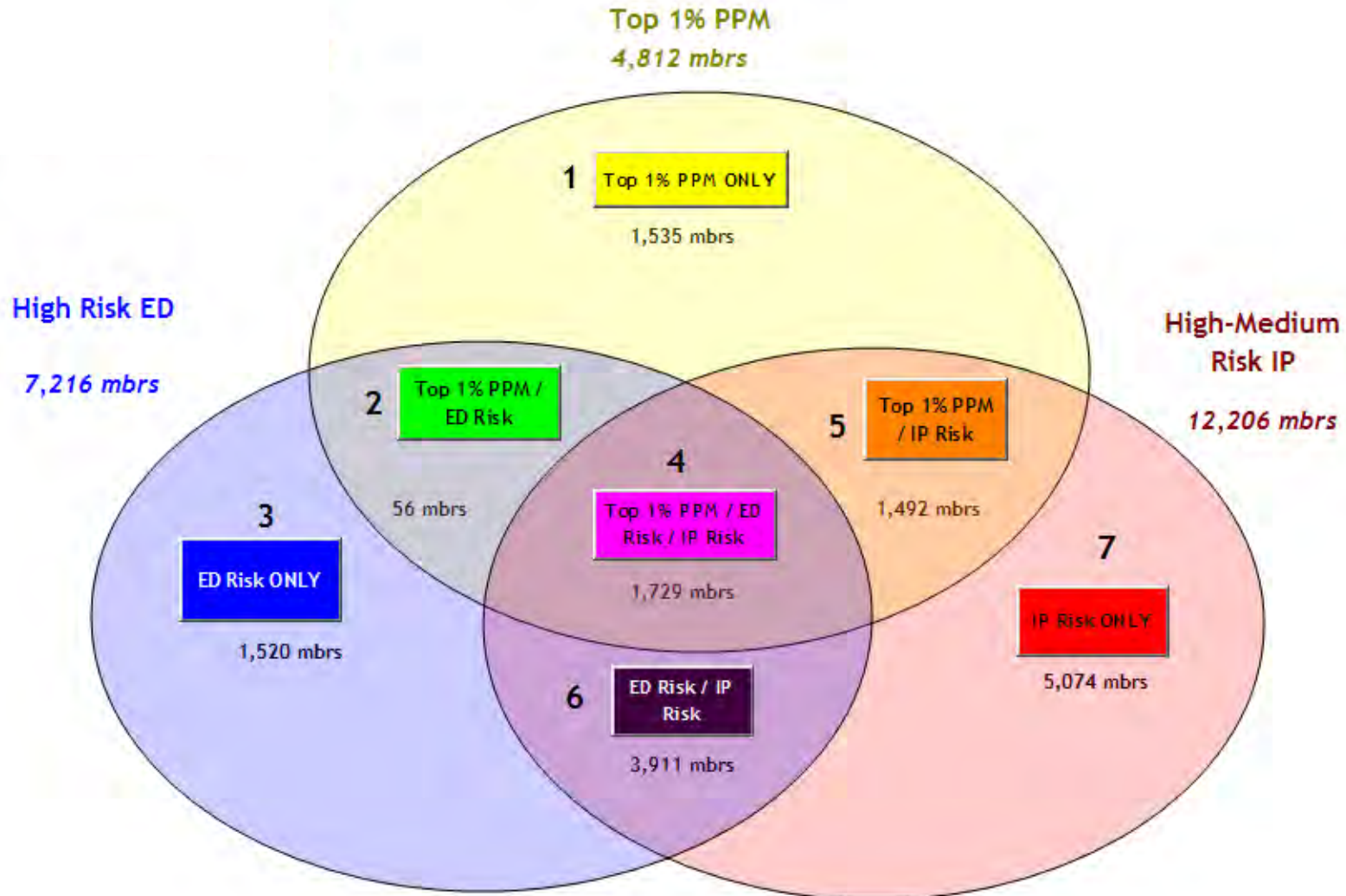
# Per Capita Medicaid Costs

## Implications of Behavioral Health





# Results of Three Predictive Models: High Cost, IP, ED



# Increasing Medical and Behavioral Complexity

## ED Risk Only

**3**

### Group 3:

- Ave age 33
- PMPM \$962
- 5 ED visits
- 0.2 admits
- 32% asthma prevalence
- 25% med adherence for asthma
- 85% MH prevalence
- 58% co-occurring mental health and substance abuse
- 52% with 5+ Rx classes
- 5 Specialist visits
- 10 PCP visits

## ED Risk/IP Risk Only

**6**

### Group 6:

- Ave age 43
- PMPM \$2,425
- 1.6 admits
- 7 IP bed days
- 6 ED visits
- Low medical disease prevalence
- 85% MH prevalence
- 62% co-occurring MH and SA
- 12 Specialist visits
- 9 PCP visits

## Top 1% General/ ED Risk/IP Risk

**4**

### Group 4:

- Ave age 49
- PMPM \$3,908
- 2.6 admits
- 12 IP bed days
- 7 ED visits
- 51% diabetes prevalence
- 73% MH prevalence
- 87% with 5+ Rx classes
- 20 Specialist visits
- 10 PCP visits

## Top 1% General/ IP Risk

**5**

### Group 5:

- Ave age 53
- PMPM \$3,202
- 2 ED visits
- 2 admits
- 10 IP bed days
- 56% diabetes prevalence
- 41% MH prevalence
- 84% with 5+ Rx classes
- 19 Specialist Visits
- 7 PCP visits

# Characteristics of Medicaid Super-utilizers

- Average age 49
- Percent female 62
- Average monthly cost \$3,908
- Hospital admission 2.6 per year
- Hospital bed days 12
- Emergency room visits 7 per year
- Primary care visits 10 per year
- Specialists visits 20 per year
- Percent with 5 or more prescriptions 87%
- Percent with co-morbidities 100%
- Diabetes 51%
- Mental health diagnosis 73%

# State Control of Healthcare

- Purchaser: medicaid, employee, retiree benefits
- Regulation: insurance, medical malpractice...
- Supply
  - Scope of practice/manpower
  - Education
  - CON
- Pharmacy
- Transparency
- Ancillary benefits and services
- Anti-Trust
- Behavioral health
- Public health

# Per Capita Health Costs

## 2011

