

Connecticut BHP
Supporting Health and Recovery

Child Quality, Access and Policy Committee

Emergency Department

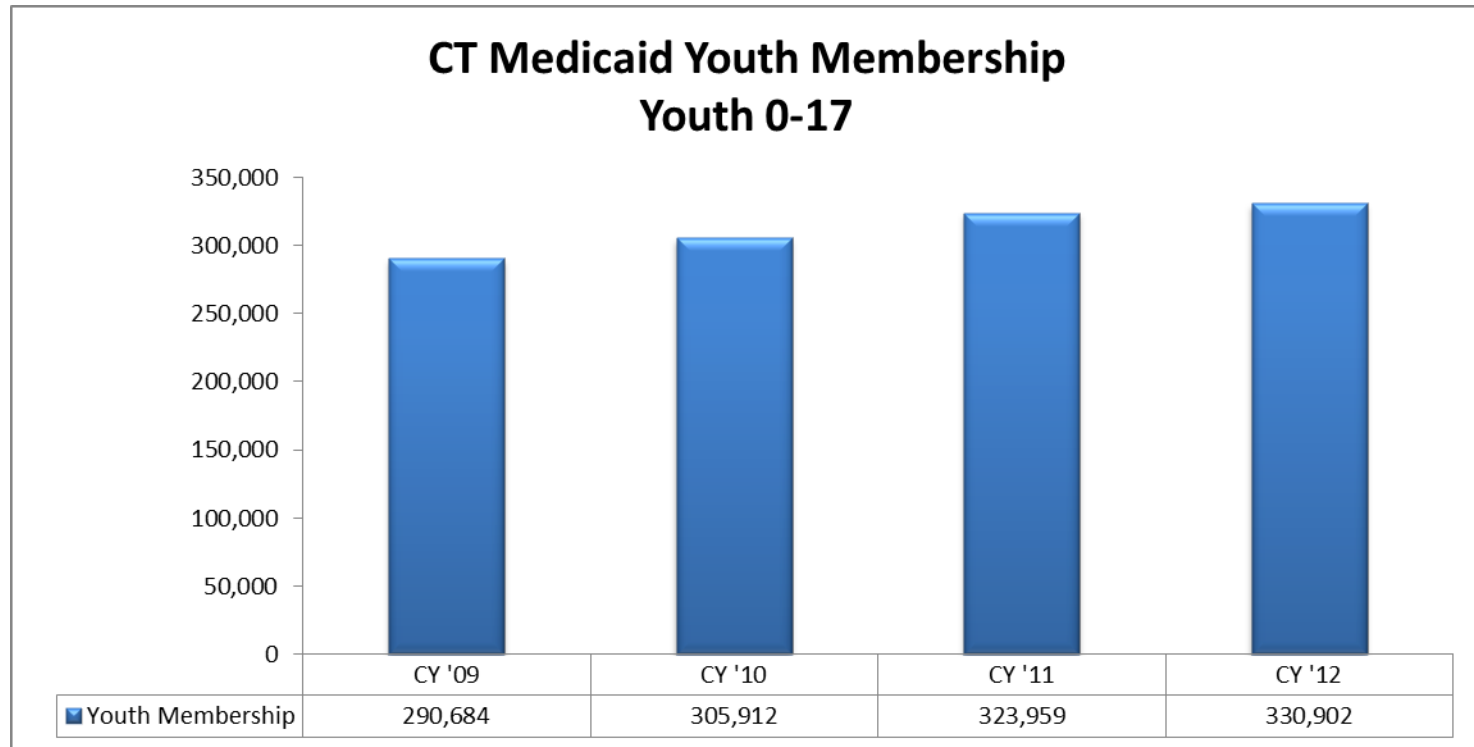
September 20, 2013

Agenda

- Membership
- CT Medicaid Youth Emergency Department (ED)
Utilization Data
- Medicaid Youth Delayed in the ED
- Characteristics of Medicaid Youth who used the
ED: CY 2011 – 2012

Membership

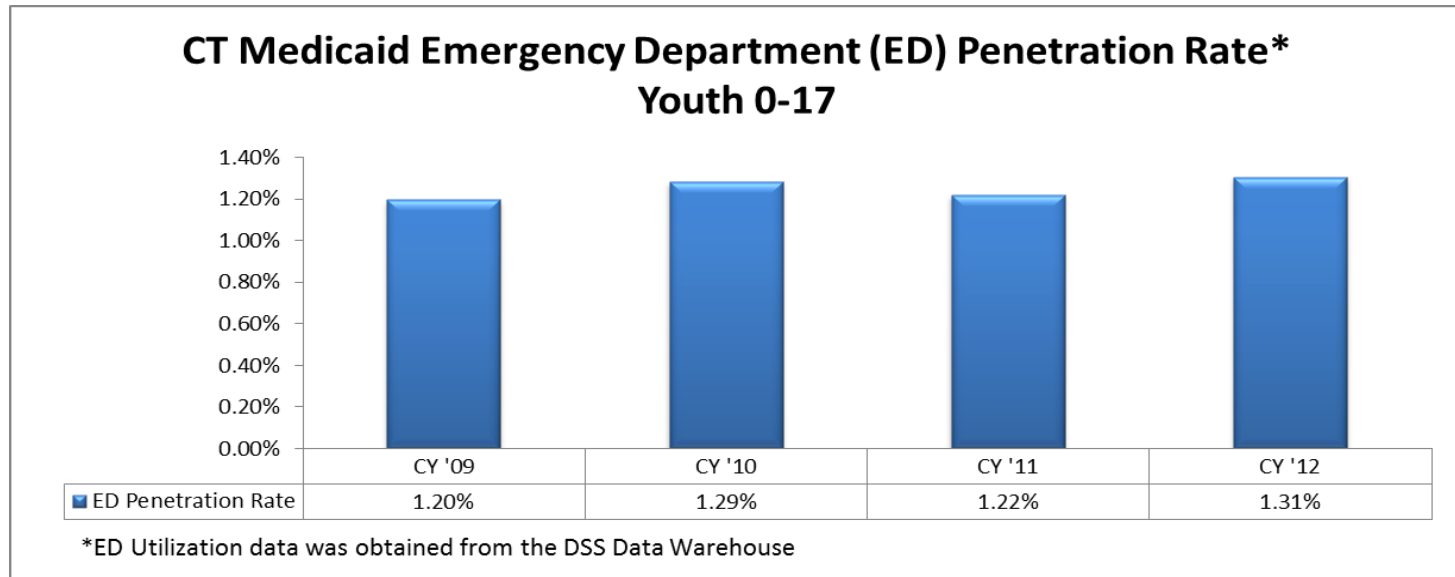
CT Medicaid Membership Youth 0-17



- The above graph shows the CT Medicaid youth membership totals for calendar years 2008 through 2012. These numbers are used as the *denominator* for the penetration rate calculations in the following slides.

Emergency Department Utilization

Emergency Department (ED) Penetration Rate



- Penetration rate is a measure of the rate of utilization of services by a population. The *denominator* for this measure is the total number of Medicaid youth ages 0-17. The *numerator* is a unique count of Medicaid youth with a primary mental health diagnosis who utilized the emergency department at least once during the year.
- Membership increased by 13.8% from CY 2009 to CY 2012.
- Over that same time period, the number of youth who used the ED at least once increased by 24.3%.
- Despite the increase in availability of behavioral health services in the community in CT (including Emergency Mobile Psychiatric Services), the percentage of CT Medicaid youth who visit the ED for behavioral health services at least once during the year has not decreased.

CT Medicaid Youth Delayed In The Emergency Department

Average Length of Time CT Medicaid Youth are Delayed in the ED

Youth ED Delay Q1 '10 through Q2 '13					
	Q1	Q2	Q3	Q4	CY '10
Total Number Episodes Delayed In ED	164	208	115	184	671
Average Length of Delay (Days)	1.68	1.36	1.43	1.53	1.50
	Q1	Q2	Q3	Q4	CY '11
Total Number Episodes Delayed In ED	193	300	168	185	846
Average Length of Delay (Days)	1.34	1.72	1.25	1.48	1.49
	Q1	Q2	Q3	Q4	CY '12
Total Number Episodes Delayed In ED	315	290	151	219	975
Average Length of Delay (Days)	1.49	1.59	1.28	1.53	1.49
	Q1	Q2	Q3	Q4	CY '13
Total Number Episodes Delayed In ED	266	237	-	-	503
Average Length of Delay (Days)	2.02	1.71	-	-	1.87

- Some youth who visit the ED to obtain behavioral health services are delayed as they wait for inpatient beds or community services. CT Medicaid youth who are delayed in the ED tend to be youth with complex behavioral health needs.
- While there was an increase in the number of incidents of ED delay from CY '10 to CY '12 (45.3%), the average number of days delayed remained consistent between 2010 and 2012.
- Year to date in 2013, there has been an increase in days delayed (25.5%) in the ED.

CY 2011 – 2012 Population Analysis: CT Medicaid Youth ED Utilization

The following slides include population demographics for youth who visited the ED at any time between January 1, 2011 to December 31, 2012.

Inclusion Criteria

The following demographics are based on Medicaid claims data

- Youth had to have a behavioral health ED visit date of service during the two (2) year study period from January 1, 2011 to December 31, 2012.
- Medicaid youth had to be between the ages of 0-17 at time of psychiatric emergency department (ED) visit.
- For youth with more than 1 ED visit within the two year time period, demographic information is based on the last ED visit during the 2 year study period.

A total of 7,147 Medicaid youth were identified as having visited the ED at least once during the time period.

Frequency Distribution

- The number of ED visits for the 7,147 youth ranged from 1 to 25 within the 2 year timespan.
- 82.5% (5,896) of all youth in this study visited the ED 1-2 times; 17.5% (1,251) visited the ED 3 or more times.

Number of ED Admissions in 2 year Study Period (CY 2011 - CY 2012)	# of Members	% of Total Members
1	4,723	66.08%
2	1,173	16.41%
3	546	7.64%
4	265	3.71%
5	148	2.07%
6	98	1.37%
7	57	0.80%
8	50	0.70%
9	23	0.32%
10	21	0.29%
11	17	0.24%
12	9	0.13%
13	3	0.04%
14	4	0.06%
15	3	0.04%
16	2	0.03%
17	1	0.01%
20	1	0.01%
21	1	0.01%
22	1	0.01%
25	1	0.01%
Total	7,147	

ED Utilizer Member Demographics

CY 2011-2012

<u>Age</u>						
	<u>1-2 ED Visits</u>		<u>3+ ED Visits</u>		<u>Total</u>	
	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED
0-12	1,826	30.97%	355	28.38%	2,181	30.52%
13-17	4,070	69.03%	896	71.62%	4,966	69.48%
Total	5,896		1,251		7,147	
Average Age:	13.36		13.66			13.42

<u>Gender</u>						
	<u>1-2 ED Visits</u>		<u>3+ ED Visits</u>		<u>Total</u>	
	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED
Male	2,802	47.52%	581	46.44%	3,383	47.33%
Female	3,094	52.48%	670	53.56%	3,764	52.67%
Total	5,896		1,251		7,147	

- For the youth members with multiple admissions, age and gender were based on the information at the time of the member's last ED admission.

Medicaid Youth ED Utilizer Demographics

CY 2011-2012

Race						
	1-2 ED Visits		3+ ED Visits		Total	
	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED
Caucasian	2,703	45.84%	559	44.68%	3,262	45.64%
Hispanic	1,941	32.92%	407	32.53%	2,348	32.85%
African Descent	1,138	19.30%	268	21.42%	1,406	19.67%
Asian	77	1.31%	11	0.88%	88	1.23%
Not Specified	13	0.22%	1	0.08%	14	0.20%
Native American	11	0.19%	4	0.32%	15	0.21%
Multiple	10	0.17%	1	0.08%	11	0.15%
Pacific Islander	3	0.05%	-	0.00%	3	0.04%
Total	5,896		1,251		7,147	

- For the youth members with multiple admissions, age and gender were based on the information at the time of the member's last ED admission.

ED Utilizer Member Demographics

CY 2011-2012

DCF Indicator						
	1-2 ED Visits		3+ ED Visits		Total	
	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED
DCF Involved at Last ED Admission						
Committed	735	12.47%	396	31.65%	1,131	15.82%
Family with Special Needs	4	0.07%	2	0.16%	6	0.08%
Juvenile Justice	22	0.37%	3	0.24%	25	0.35%
Voluntary	116	1.97%	100	7.99%	216	3.02%
Dually Committed	2	0.03%	2	0.16%	4	0.06%
Total Currently Involved	879		503		1,382	
Not DCF Involved at Last ED Admission						
Prior Involvement	654	11.09%	166	13.27%	820	11.47%
No Prior Involvement	4,363	74.00%	582	46.52%	4,945	69.19%
Total Not Currently Involved	5,017		748		5,765	
Total of All Members	5,896		1,251		7,147	

- Youth were categorized as DCF or non-DCF involved based on their DCF status at the time of their last ED admission during the 2 year study period.
- For those members with current DCF involvement, each member was categorized with the appropriate DCF subcategory (i.e., Voluntary, FWSN, etc.).
- For those members with no current DCF involvement at the time of their last ED admission, two additional subcategories were created to distinguish which members had any prior DCF involvement at any time prior to their admission.

ED Utilizer Diagnoses

CY 2011-2012

- The presence of each of the following conditions was identified for each member from information drawn from all claims data during the two (2) year time period (CY 2011-CY 2012).
- If a member had any of these diagnoses on any ED claim during this time period, they were classified as having the condition.

Diagnosis						
	1-2 ED Visits		3+ ED Visits		Total	
	# of Members who Visited the ED with Diagnosis	% of Total Members who Visited the ED	# of Members who Visited the ED with Diagnosis	% of Total Members who Visited the ED	# of Members who Visited the ED with Diagnosis	% of Total Members who Visited the ED
Mental Health	5,658	95.96%	1,249	99.84%	6,907	96.64%
Substance Abuse	1,045	17.72%	301	24.06%	1,346	18.83%
Intellectual Disabilities	152	2.58%	112	8.95%	264	3.69%
Autism Spectrum Disorder	499	8.46%	257	20.54%	756	10.58%
Asthma	1,666	28.26%	473	37.81%	2,139	29.93%
Diabetes	185	3.14%	105	8.39%	290	4.06%

Please note: Each member can have more than 1 diagnosis. The percentages are based off of the total number of members within each ED visit grouping.

ED Utilizer Member Demographics

Prior Congregate Care Admission History

Prior Group Home Admission History						
	1-2 ED Visits		3+ ED Visits		Total	
Prior Group Home Admission History	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED
No	5,733	97.24%	1,101	88.01%	6,834	95.62%
Yes	163	2.76%	150	11.99%	313	4.38%
Total	5,896		1,251		7,147	

- In order to determine a youth's prior congregate care admission history, authorization data was used.

ED Utilizer Member Demographics

Prior Congregate Care Admission History

Prior RTC Admission History						
	1-2 ED Visits		3+ ED Visits		Total	
Prior RTC Admission History	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED
No	5,647	95.78%	1,049	83.85%	6,696	93.69%
Yes	249	4.22%	202	16.15%	451	6.31%
Total	5,896		1,251		7,147	

- In order to determine a youth's prior congregate care admission history, authorization data was used.

ED Utilizer Member Demographics

Prior Congregate Care Admission History

Prior PRTF Admission History						
	1-2 ED Visits		3+ ED Visits		Total	
Prior PRTF Admission History	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED	# of Members who Visited the ED	% of Total Members who Visited the ED
No	5,757	97.64%	1,065	85.13%	6,822	95.45%
Yes	139	2.36%	186	14.87%	325	4.55%
Total	5,896		1,251		7,147	

- In order to determine a youth's prior PRTF care admission history, authorization data was used.

Next Step

Statistical Analysis of ED Utilization by CT Medicaid Youth

ValueOptions is currently conducting an analysis of the population of youth who had a behavioral health emergency department visit during CY 2011 and CY 2012.

The goals of this analysis are to:

- Compare youth who are *frequent ED utilizers* to youth who are *non-frequent ED utilizers*.
- Compare youth with behavioral health services *who visit the ED* with youth with behavioral health services *who do not visit the ED*.
- Identify the highest risk Medicaid youth in order to provide direction for future behavioral health program development.