

Q1 2014 HealthChoices Allegheny County Report

This report summarizes enrollment, claims data and admission data from this quarter, in comparison to the prior quarter. This report is used by the Allegheny HealthChoices Quality Improvement Department to monitor and investigate changes in utilization from quarter to quarter. Tables 1 and 2 provide a summary of enrollment and paid claims; Tables 3 to 8 summarize service use and admissions for children and adolescents (0-20 years); and Tables 9 to 15 summarize service use and admissions for adults.

Table 1. Average monthly enrollment by age

	Q1 2014	% Difference from Q4 2013
0-20 years	88,254	-0.5%
21+ years	78,001	0.8%
Total Enrollment	166,254	0.1%

Table 1 shows that the average monthly enrollment during Q1 2014 was similar to Q4 2013.

Table 2. Paid claims by age for mental health and drug and alcohol services

		Q1 2014			% Difference from Q4 2013 - Q1 2014		
		# People	Paid	Avg. Paid per Person	# People	Paid	Avg. Paid per Person
00 - 20 years	D&A	579	\$ 1,602,659	\$ 2,768	-11%	-3%	9%
	MH	11,039	\$ 23,637,082	\$ 2,141	4%	3%	-1%
	Total	11,285	\$ 25,239,741	\$ 2,237	4%	3%	-2%
21-54 years	D&A	4,174	\$ 8,957,892	\$ 2,146	0%	-6%	-6%
	MH	12,695	\$ 19,302,566	\$ 1,520	2%	-4%	-6%
	Total	14,727	\$ 28,260,458	\$ 1,919	2%	-5%	-6%
55 years and older	D&A	627	\$ 968,845	\$ 1,545	0%	16%	17%
	MH	3,711	\$ 4,754,429	\$ 1,281	2%	4%	2%
	Total	4,024	\$ 5,723,274	\$ 1,422	2%	6%	4%
Total	D&A	5,380	\$ 11,529,396	\$ 6,459	-1%	-4%	6%
	MH	27,445	\$ 47,694,077	\$ 4,943	3%	0%	-2%
	Total	30,036	\$ 59,223,473	\$ 5,578	3%	-1%	-2%

Services can be categorized as either mental health or drug and alcohol services. Table 2 shows the breakdown of the number of service users, paid claims, and average cost per service user for drug and alcohol services, mental health services, and in total. For the most part, Q1 2014 data was similar to Q4 2013. Further analysis shows the decrease in 0 - 20 year old people for drug and alcohol services was driven by less youth receiving outpatient services. Additionally, the increase in paid claims seen for people 55 years and older for drug and alcohol services was driven by the increase in service units received in non-hospital rehabilitation. Detailed differences are explored further in the age-specific tables.

Table 3. Top 10 mental health services for children and adolescents (ranked by number of service users)

	Q1 2014			% Difference from Q4 2013 - Q1 2014		
	# People	Paid	Avg. Paid per Person	# People	Paid	Avg. Paid per Person
Outpatient MH	5,947	\$ 2,269,363	\$ 382	8%	12%	3%
BHRS	4,001	\$ 9,004,152	\$ 2,250	1%	2%	1%
Medication Check	3,990	\$ 623,491	\$ 156	1%	-7%	-8%
Service Coordination	1,405	\$ 1,209,046	\$ 861	6%	-2%	-8%
Partial Hospitalization MH	616	\$ 1,950,791	\$ 3,167	4%	0%	-4%
Crisis	532	\$ 276,630	\$ 520	9%	11%	2%
Family Based	433	\$ 2,302,809	\$ 5,318	-1%	-5%	-4%
Inpatient MH	282	\$ 2,665,903	\$ 9,454	8%	26%	17%
RTF	144	\$ 2,948,700	\$ 20,477	4%	1%	-3%
Family Focused, Solution Based	102	\$ 390,758	\$ 3,831	-4%	5%	9%
Subtotal of above*	11,462	\$ 23,641,645	\$ 2,063	4%	4%	-1%
Total MH Services	11,505	\$ 24,347,237	\$ 2,116	4%	3%	-1%

This table illustrates the top 10 most frequently used mental health service categories used by children and adolescents (under 21 years). For most services, utilization during the first quarter of 2014 was similar to the fourth quarter of 2013. The increase in paid claims seen in outpatient mental health and crisis services was driven by more people using these services. The increase in inpatient MH paid claims was heavily driven by more people using the service and an increase in average service units per person.

* This subtotal only includes the items listed in the table and is not inclusive of all possible items.

Table 4. Top 10 mental health diagnoses for children and adolescents (ranked by number of service users)

	Q1 2014			% Difference from Q4 2013 - Q1 2014		
	# People	Paid	Avg. Paid per Person	# People	Paid	Avg. Paid per Person
ADHD	3,975	\$ 5,017,689	\$ 1,262	3%	-5%	-8%
Adjustment D/O	2,192	\$ 2,251,072	\$ 1,027	4%	3%	-1%
Autism Spectrum	2,161	\$ 5,715,831	\$ 2,645	2%	6%	4%
Major Depression	1,222	\$ 3,693,775	\$ 3,023	8%	17%	8%
Conduct D/O	942	\$ 1,983,540	\$ 2,106	-2%	4%	7%
Neurotic D/O	941	\$ 1,025,384	\$ 1,090	6%	2%	-4%
Oppositional/Defiant D/O	901	\$ 1,667,992	\$ 1,851	2%	-4%	-6%
Depressive D/O	636	\$ 984,973	\$ 1,549	9%	3%	-6%
DX Deferred	458	\$ 237,363	\$ 518	12%	10%	-1%
Bipolar D/O	347	\$ 1,088,272	\$ 3,136	0%	7%	7%
Subtotal (included)	11,349	\$ 23,665,891	\$ 2,085	4%	4%	-1%
Diagnosis	11,505	\$ 24,347,237	\$ 2,116	4%	3%	-1%

This table displays the top 10 most frequently used mental health diagnostic categories for children and adolescents (under 21 years). The increase in cost for people with major depression was driven by the increase in people using inpatient mental health services and an increase in average inpatient mental health service units used per person. The increase in cost for people with DX Deferred was driven by more people using crisis services, especially mobile services.

* This subtotal only includes the items listed in the above table and is not inclusive of all possible items.

Table 5. Utilization and quality measures for IPMH and RTF for children and adolescents

	Inpatient MH		RTF	
	Q4 2013	Q1 2014	Q4 2013	Q1 2014
Number of total admissions	326	333	47	47
Number people with at least one admission	282	291	47	47
Admission rate	2.3	2.3	0.3	0.3
Average length of stay	10.4	13	202	221
% with follow-up in 7 days	71%	74%	72%	64%
% with readmit in 30 days	15%	10%	5%	6%
% with readmit in 31-90 days	12%	9%	0%	0%

This table shows admissions data, rates of follow-up appointments, and readmission rates for inpatient MH and RTF. In the first quarter of 2014, inpatient MH experienced an increase in the percentage of follow up and a decrease in readmissions compared to the fourth quarter of 2013. RTF had decreases in the percentage of youth receiving follow up services after discharge. Additionally, the average length of stay increased for both levels of care. This information is reported for comparison instead of percent changes because large percent changes often represent small absolute changes when the group size included in the calculation is small.

Table 6. Drug and alcohol services for children and adolescents (ranked by number of service users)

	Q4 2013			Q1 2014		
	# People	Paid	Avg. Paid per Person	# People	Paid	Avg. Paid per Person
Outpatient Drug and Alcohol	447	\$ 234,862	\$ 525	387	\$206,575	\$ 534
Non-Hospitalization Rehab	109	\$ 1,173,038	\$ 10,762	116	\$1,147,173	\$ 9,889
Intensive Outpatient Drug and Alcohol	41	\$ 42,718	\$ 1,042	39	\$40,779	\$ 1,046
Halfway House	16	\$ 123,248	\$ 7,703	22	\$136,723	\$ 6,215
Methadone Maintenance	10	\$ 10,025	\$ 1,003	12	\$9,145	\$ 762
Non-Hospitalization Detox	12	\$ 11,312	\$ 943	10	\$6,833	\$ 683
Total D&A Services	579	\$ 1,602,479	\$ 2,768	518	\$1,561,445	\$3,014

This table illustrates utilization for different drug and alcohol services for adolescents (less than 21 years). Overall, service utilization did not have much fluctuation from the fourth quarter of 2013. Outpatient services continued to be the most used service for the first quarter of 2014; it accounts for about 75% of youth who used drug and alcohol services. Non-hospital rehabilitation accounted for about 73% of costs and is the second most utilized service. Note that the percentage changes are not reported because large percent changes often represent small absolute changes when the group size included in the calculation is small.

**Table 7. Drug and alcohol diagnoses for children and adolescents
(ranked by number of service users)**

	Q4 2013			Q1 2014		
	# People	Paid	Avg. Paid per Person	# People	Paid	Avg. Paid per Person
Cannabis	339	\$ 1,247,752	\$ 3,681	\$ 354	\$ 1,194,632	\$ 3,375
Opioid	51	\$ 124,690	\$ 2,445	\$ 51	\$ 162,417	\$ 3,185
Alcohol	35	\$ 96,633	\$ 2,761	\$ 34	\$ 63,019	\$ 1,854
Polysubstance Dependence	19	\$ 55,301	\$ 2,911	\$ 25	\$ 75,954	\$ 3,038
Amphetamine Dependence	2	\$ 8,896	\$ 4,448	\$ 5	\$ 9,114	\$ 1,823
Hallucinogen-Related Disorder	1	\$ 6,275	\$ 6,275	\$ 2	\$ 18,914	\$ 9,457
Inhalants	0	\$ -	\$ -	\$ 1	\$ 624	\$ 624
PCP	0	\$ -	\$ -	\$ 1	\$ 3,825	\$ 3,825
Cocaine	2	\$ 770	\$ 385	\$ 1	\$ 4,258	\$ 4,258
Total D&A Diagnosis	579	\$ 1,602,479	\$ 2,768	\$ 518	\$ 1,561,445	\$ 3,014

This table demonstrates the most frequently used drug and alcohol diagnostic categories. Most diagnostic categories showed typical quarterly fluctuations. Cannabis dependence/abuse continued to be the most common diagnosis, accounting for 68% of people, and highest cost, accounting for 77% of total costs. Note that the percentage changes are not reported because large percent changes often represent small absolute changes when the group size included in the calculation is small.

Table 8. Utilization and quality measures for non-hospital rehabilitation for adolescents

	Q4 2013	Q1 2014
Number of total admissions	61	84
Number people with at least one admission	59	77
Admission rate	0.42	0.58
Average length of stay	83	56
% with follow-up in 7 days	29%	32%
% with readmission in 30 days	6%	12%
% with readmission in 90 days	4%	6%

This table shows admissions data, rates of follow-up appointments, and readmission rates for non-hospital rehabilitation for adolescents. The average length of stay decreased and follow-up services increased in the first quarter of 2014 compared to the fourth quarter of 2013. Total admissions and 30 day readmissions increased overall from the fourth quarter of 2013. OMHSAS' gold standard for follow-up services within 7 days after non-hospital rehabilitation is 90%. Note that the percentage changes are not reported because large percent changes often represent small absolute changes when the group size included in the calculation is small.

Table 9. Most frequently used community-based mental health services for adults (ranked by number of service users)

	Q1 2014			% Difference Q4 2013 - Q1 2014		
	# People	Paid	Avg. Paid per Person	# People	Paid	Avg. Paid per Person
Outpatient MH	9,985	\$ 2,971,589	\$ 298	3%	1%	-2%
Med Check	9,867	\$ 1,544,807	\$ 157	2%	1%	-2%
Serv Coord	3,263	\$ 3,661,651	\$ 1,122	3%	-2%	-4%
Crisis	1,011	\$ 801,574	\$ 793	-3%	-24%	-22%
CTT	644	\$ 3,536,136	\$ 5,491	0%	-11%	-12%
Forensic Support	264	\$ 151,387	\$ 573	1%	11%	9%
Psych Rehab	211	\$ 288,819	\$ 1,369	-2%	-1%	1%
Partial Hospitalization MH	199	\$ 235,526	\$ 1,184	2%	-13%	-14%
Mobile MH	166	\$ 149,774	\$ 902	0%	0%	0%
Respite/DAS	140	\$ 608,926	\$ 4,349	0%	-12%	-12%
Subtotal of above*	16,351	\$ 13,950,190	\$ 853	2%	-6%	-7%
Total MH Services	16,631	\$ 23,377,316	\$ 1,406	2%	-3%	-4%

This table displays the most frequently used community-based mental health service categories used by adults (21 years and older). For most services, utilization during the first quarter of 2014 was similar to the fourth quarter of 2013. The decrease in costs associated with crisis, CTT, partial hospitalization and respite/DAS were driven by a decrease in average service units used per person. The increase in total costs associated with forensic support was driven by more people using the service and an increase in average service units used per person.

* This subtotal only includes the items listed in the table and is not inclusive of all possible items.

Table 10. Paid claims for inpatient mental health, extended acute, and RTFA services for adults

	Q4 2013			Q1 2014		
	# People	Paid	Avg. Paid per Person	# People	Paid	Avg. Paid per Person
IP-MH	877	\$ 6,093,653	\$ 6,948	853	\$ 6,166,244	\$ 7,229
EAC (CRU)	33	\$ 1,006,591	\$ 30,503	26	\$ 941,496	\$ 36,211
IPMH EAC (TRU)	17	\$ 508,091	\$ 29,888	19	\$ 543,922	\$ 28,627
Community-based EAC	35	\$ 621,764	\$ 17,765	37	\$ 632,851	\$ 17,104
RTFA	19	\$ 297,990	\$ 15,684	28	\$ 416,240	\$ 14,866
Subtotal of above*	947	\$ 8,718,181	\$ 9,206	931	\$ 8,876,980	\$ 9,535
Total MH services	16,351	\$ 24,056,995	\$ 1,471	16,631	\$ 23,377,316	\$ 1,406

This table summarizes utilization for four acute levels of care. Fluctuations from the fourth quarter of 2013 to the first quarter of 2014 were not notable.

* This subtotal only includes the items listed in the table and is not inclusive of all possible items.

Table 11. Quality and utilization measures for inpatient, extended acute, and RTFA services

	IPMH		IPMH EAC (TRU)		EAC (CRU)		Community-based EAC		RTFA	
	Q1 2014	% change from Q4 2013	Q4 2013	Q1 2014	Q4 2013	Q1 2014	Q4 2013	Q1 2014	Q4 2013	Q1 2014
Number of total admissions	1,147	-1%	23	15	11	9	11	9	18	21
Number people with at least one admission	929	-1%	23	15	11	9	11	9	18	21
Admission rate	7.96	-1%	--	--	--	--	--	--	--	--
Average length of stay	17	38%	131	128	69	97	123	115	64	70
% with follow-up in 7 days	74%	2%	100%	94%	90%	91%	91%	89%	94%	95%
% with readmission in 30 days	19%	3%								
% with readmission in 90 days	11%	-26%								

OMHSAS' gold standard for 7 day follow-up after inpatient hospitalization is 90%, and the gold standard for readmission rates within 30 days is 10%. In the first quarter of 2014, there was a decrease in total number of admissions for all levels of care, except RTFA. The average length of stay increased for IPMH, EAC (CRU) and RTFA. Also, there was a decrease in readmission for IPMH within 90 days and an increase in follow-up services. Because the number of admissions to most of these services were very small in a given quarter, the numbers from Q4 2013, with the exception of IPMH, were provided as a comparison point instead of calculating a percent change. Admission rates per 1,000 enrollees were so small, given the limited capacity at several programs, that they were not reported. People are not readmitted directly to extended acute or RTFA programs, as all referrals originate from inpatient units, so readmissions were not reported for these services. Because only HealthChoices services are included as follow-up services, eligibility may affect these rates. Other fluctuations from the fourth quarter of 2013 to the first quarter of 2014 were not notable.

Table 12. Most frequent diagnoses for adult mental health service users

	Q1 2014			% Difference Q4 2013 - Q1 2014		
	# People	Paid	Avg. Paid per Person	# People	Paid	Avg. Paid per Person
Maj Depression	4,581	\$ 4,455,475	\$ 973	0%	-1%	-1%
Schizophrenia	3,155	\$ 9,093,887	\$ 2,882	1%	-5%	-6%
Bipolar D/O	3,044	\$ 3,595,468	\$ 1,181	1%	7%	6%
Neurotic D/O	2,117	\$ 840,799	\$ 397	0%	2%	2%
Depressive D/O	1,858	\$ 1,768,069	\$ 952	5%	3%	-2%
Adjustment D/O	1,198	\$ 684,935	\$ 572	5%	-2%	-6%
DX Deferred	877	\$ 552,157	\$ 630	-3%	-30%	-28%
Subtotal of above*	14,488	\$ 20,990,791	\$ 1,449	1%	-2%	-3%
Total Diagnoses for MH Services	16,631	\$ 23,377,316	\$ 1,406	2%	-3%	-4%

This table summarizes the most frequently used mental health diagnostic categories for adults (21 years and older). The decrease in cost for people with DX deferred was related to the decrease in average crisis service units used per person, especially in walk-in services. Overall, diagnostic categories were very similar to last quarter.

* This subtotal only includes the items listed in the table and is not inclusive of all possible items.

Table 13. Drug and alcohol services for adults

	Q1 2014			% Difference Q4 2013 - Q1 2014		
	# People	Paid	Avg. Paid per Person	# People	Paid	Avg. Paid per Person
Outpatient Drug and Alcohol	2,995	\$ 1,131,293	\$ 378	1%	0%	-1%
Methadone Maintenance	1,814	\$ 1,818,814	\$ 1,003	2%	0%	-1%
Non-Hospitalization Rehab	907	\$ 4,147,527	\$ 4,573	-5%	-8%	-3%
Intensive Outpatient Drug and Alcohol	558	\$ 505,804	\$ 906	9%	3%	-5%
Non-Hospitalization Detox	471	\$ 426,450	\$ 905	5%	1%	-4%
Partial Hospitalization Drug and Alcohol	233	\$ 389,505	\$ 1,672	5%	-7%	-11%
Halfway House	174	\$ 800,766	\$ 4,602	10%	-6%	-14%
Inpatient Detox	116	\$ 282,907	\$ 2,439	5%	-5%	-9%
Inpatient Rehab	7	\$ 39,185	\$ 5,598	0%	101%	101%
Total D&A Services	4,769	\$ 9,542,251	\$ 2,001	0%	-4%	-3%

This table illustrates utilization for different drug and alcohol services for adults (21 years and older). Overall, utilization this quarter was similar to last quarter. The decrease in average cost for drug and alcohol partial hospitalization and halfway house was driven by the decrease in average service units used per person. The increase in costs for inpatient rehab was related to the increase in average service units used per person. Note that the number of service users from certain services during a quarter were low, so percent changes may be large while the changes in absolute numbers were small.

Table 14. Drug and alcohol diagnoses for adults

	Q1 2014			% Difference Q4 2013 - Q1 2014		
	# People	Paid	Avg. Paid per Person	# People	Paid	Avg. Paid per Person
Opioid	3,070	\$ 5,313,282.14	\$ 1,730.71	2%	-1%	-3%
Alcohol Abuse/Dependence	725	\$ 1,453,020.23	\$ 2,004.17	8%	0%	-7%
Poly-substance dependence	657	\$ 1,378,414.74	\$ 2,098.04	-3%	-14%	-12%
Cocaine	406	\$ 844,295.50	\$ 2,079.55	9%	10%	1%
Cannabis	221	\$ 147,276.64	\$ 666.41	8%	14%	6%
Substance-Induced Disorders ^o	60	\$ 109,819.72	\$ 1,830.33	3%	8%	5%
Subtotal of above*	4,704	\$ 9,246,108.97	\$ 1,965.58	2%	-2%	-4%
All D&A diagnosis	4,725	\$ 9,498,445.44	\$ 2,010.25	2%	-2%	-5%

This table summarizes the most frequently used drug and alcohol diagnoses for adults (21 years and older).

Overall, patterns were similar to the previous quarter. The decrease in paid claims and average cost for poly-substance dependence was due to fewer people with this diagnosis using non-hospitalization rehab. The increase in cost for people who were diagnosed with cocaine dependence/abuse was driven by an increase in non-hospital rehab utilization and an increase in average units used per person. The increase in cost for people with cannabis dependence/abuse was driven by an increase in average intensive outpatient drug and alcohol service units used per person.

^o Fifty-nine of the people were diagnosed with amphetamine withdrawal and one person was diagnosed with amphetamine-induced mood disorder.

*This subtotal only includes the items listed in the table and is not inclusive of all possible items.

Table 15. Quality and utilization measures for inpatient and residential drug and alcohol services

	NH Rehab		Inpatient Detox		NH Detox		Halfway House	
	Q1 2014	% change from Q4 2013	Q1 2014	% change from Q4 2013	Q1 2014	% change from Q4 2013	Q1 2014	% change from Q4 2013
Number of total admissions	835	-5%	139	1%	519	3%	100	10%
Number people with at least one admission	745	-5%	128	8%	467	5%	95	7%
Admission rate	5.79	-5%	0.96	1%	3.60	3%	0.69	10%
Average length of stay	26.4	11%	4.1	1%	3.6	-2%	77.9	6%
% with follow-up in 7 days	51%	3%	49%	-10%	77%	3%	31%	3%
% with readmit in 30 days	7%	-6%	6%	-45%	7%	-9%	3%	117%
% with readmit in 90 days	10%	6%	12%	-9%	16%	2%	2%	0%

This table shows utilization for different drug and alcohol services for adults (21 years and older). Some of the services with low utilization have large percent changes from quarter to quarter because of the small numbers. Non-hospital rehab experienced a decrease in total admissions for the first quarter of 2014. Also, the average length of stay increased for these levels of care, except non-hospital detox. OMHSAS' gold standard for follow-up services within 7 days after non-hospital rehabilitation is 90%. Non-hospital rehab, non-hospital detox and halfway house experienced an increase in follow-up rates.