Connecticut BHP Long-term Frequent Med Admin Utilization: Population Profile

CT BHPOC Presentation: October 14, 2015



- Overview
- Methodology
- Findings
- Summary



Overview

- Growing out of a longstanding successful Home Health Provider Profile Program, this Population Profile deepened our understanding of members with long-term frequent medication administration.
- The intent of this Population Health Profile was to better understand the characteristics and utilization of this subgroup of members, and inform possible prescriber, provider, or member-level interventions to decrease inappropriate Home Health utilization or increase alternative services that might better fit member needs.

Overview

- Overall, there were many similarities between members that had Long-term and Short-term Home Health Med Admin utilization, including among demographics, diagnoses, and medication.
- The findings also highlight the need to consider support of recovery in any attempts to decrease utilization of Home Health Medication Administration and increase use of community-based alternatives.



Med Admin Utilization Classification

	Home Health Med Admin Utilization Classification Definitions						
BID	Includes all members who untilized 10 or more Med Admin services in a week for 10 or more weeks in the 13-week quarter (Twice Daily)						
	Includes all members who did not qualify for BID or QD and whose average units per week is greater than 7						
QD	Includes all members who utilized between five and seven Med Admin services in a week, for 10 or more weeks in the 13-week quarter (Once Daily)						
LOWER	Includes all members who did not qualify for BID or QD and whose average units per week is less than or equal to 7						

Methodology: Sample



Long-term Cohort = All members who received BID Med Admin services across all 4 quarters of CY 2013

Short-term Cohort = All members who received 1 or more units of Med Admin in all of CY 2013 and who also met eligibility criteria in all 4 quarters of CY 2013

Eligibility Criteria = Member could not have had greater than 21 days of ineligibility in any given quarter of CY 2013.

Methodology: Sample

CY 2013 Home Health Med Admin Cohorts				
# Members				
Long-term Med Admin	596			
Short-term Med Admin	4,931			
Total Eligible Med Admin Population	5,527			



Sample Demographics: Age

Home Health Med Admin: Age Summary Statistics CY 2013							
Age SummaryShort-term CohortLong-term CohortStatistics(N = 4931)(N = 596)							
Mean	48.0	51.1					
Median	49.0	52.0					
Range	18 - 96	19 - 101					
Lower Quartile	38.0	58.0					
Upper Quartile	45.5	59.0					

Sample Demographics: Age

Home Health Med Admin: Age Distribution CY 2013							
Are Categorian		t-term	Long	Long-term			
Age Categories	# Members	% of Cohort	# Members	% of Cohort			
18-24	325	6.6%	12	2.0%			
25-34	678	13.7%	51	8.6%			
35-44	802	16.3%	86	14.4%			
45-54	1,415	28.7%	197	33.1%			
55-64	1,187	24.1%	187	31.4%			
65+	524	10.6%	63	10.6%			
Total	4,931	100%	596	100%			

Sample Demographics: Gender

Home Health Med Admin: Gender CY 2013						
Conder	Short-	term	Long-term			
Gender	# Members	% of Cohort	# Members	% of Cohort		
Male	2,357	47.8%	329	55.2%		
Female 2,574		52.2%	267	44.8%		
Total	4,931	100%	596	100%		

Sample Demographics: Race/Ethnicity

Home Health Med Admin: Race/Ethnicity CY 2013							
Bacc/Ethnicity	Shor	t-term	Long	Long-term			
Race/Ethnicity	# Members	% of Cohort	# Members	% of Cohort			
Asian	44	0.9%	7	1.2%			
African American	1,124	22.8%	149	25.0%			
Caucasian	2,508	50.9%	311	52.2%			
Hispanic	1,244	25.2%	128	21.5%			
Other	11	0.2%	1	0.2%			
Total	4,931	100%	596	100%			

Please Note: Other includes Pacific Islander, Multi-Racial & Native American

Home Health Utilization

Home Health Med Admin: Med Admin Units Used Summary Statistics CY 2013							
Med Admin Units UsedShort-term CohortLong-term CohortSummary Statistics(N = 4,931)(N = 596)							
213.7	678.2						
210.0	687.0						
	CY 2013 Short-term Cohort (N = 4,931) 213.7						

Home Health Med Admin: <u>Short-term</u> BID Utilization								
CY 2013								
hort-term Cohort	BID in 3	Quarters	BID in 2	Quarters	BID in 1	Quarter	BID in 0	Quarters
4 021 Mombore	# Members	% of Cohort	# Members	% of Cohort	# Members	% of Cohort	# Members	% of Coho
4,931 Members	209	4.2%	230	4.7%	317	6.4%	4,175	84.7%

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Cohort

84.7%

Multiple Home Health Providers

Home Health Med Admin: Use of Multiple Home Health Providers within a Year							
CY 2013							
	Short-term Long-term # Members % of Cohort # Members % of Cohort						
1 Provider	4,544	92.2%	556	93.3%			
2 Providers	364	7.4%	40	6.7%			
3 Providers	22	0.4%	-	0.0%			
4 Providers	1	0.0%	-	0.0%			
Total	4,931	100%	596	100%			

Any LMHA in CY 2013 & Open HH Auth in 2015

Home Health Med Admin Long-term CY 2013							
# Members in Long-term Cohort	Long-term with LMHA Involvement		Long-term with Open Home Health Auth as of 5-29-15		Long-term with LMHA Involvement and an Open Home Health		
506	# Members	% of Cohort	# Members	% of Cohort	# Members	% of Cohort	
596	394	66.1%	378	63.4%	264	44.3%	



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Any LMHA in CY2013 & Open HH Auth in 2015

	Home Health Med Admin Short-term CY 2013							
# Members in Short-term Cohort	Short-term Involv	with LMHA ement	Home Hea	with Open Ith Auth as 29-15	Involveme	with LMHA ent and an me Health		
4021	# Members	% of Cohort	# Members	% of Cohort	# Members	% of Cohort		
4931	2,858	58.0%	1,945	39.4%	1,236	25.1%		
		858 A Involved Members	Hea	45 th an Open Home lith Auth				

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SMI

 <u>Serious Mental Illness (SMI)</u>: The SMI Indicator was used to identify whether or not a member had a diagnoses that fell within the SMI range, at any point in the CY. SMI included Schizophrenia & Psychotic Disorders, Mood Disorders, Anxiety Disorders, Personality Disorders and PTSD.

Home Health Med Admin: Serious Mental Illness (SMI) Indicator CY 2013						
SMI Indicator	Short-	term	Long	Long-term		
SMI Indicator	# Members	% of Cohort	# Members	% of Cohort		
SMI Present	4,548	92.2%	571	95.8%		
No SMI Present	383	7.8%	25	4.2%		
Total	4,931	100%	596	100%		
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Schizophrenia

Home Health Med Admin: Psychotic Disorders CY 2013							
	Shor	t-term	Long-term				
	# Members	% of Cohort	# Members	% of Cohort			
Schizophrenia & Schizoaffective Disorders	2,993	60.7%	478	80.2%			

Comorbidity

Home Health Med Admin: Identification of Cormorbidity CY 2013								
Comorbidity	Short-	term	Long	-term				
Comorbidity	# Members	% of Cohort	# Members	% of Cohort				
Behavorial Health Diagnoses Only	966	19.6%	97	16.3%				
Behavorial Health & Medical								
Diagnoses Present	3,965	80.4%	499	83.7%				
Total	4,931	100%	596	100%				

≥ 10 Percentage Points Lower than Short-term Cohort≥ 5 Percentage Points Lower than Short-term Cohort

≥10 Percentage Points Higher than Short-term Cohort≥ 5 Percentage Points Higher than Short-term Cohort

Behavioral Health Diagnoses

Home Health Med Admin: Behavioral Health Diagnosis Categories CY 2013									
Behavioral Health Diagnosis	Short	-term	Long	-term					
Categories	# Members	% of Cohort	# Members	% of Cohort					
Schizophrenias	2,114	42.9%	367	61.6%					
Other Mental Disorders	2,656	53.9%	280	47.0%					
Schizoaffective Disorders	1,883	38.2%	273	45.8%					
Other Conditions That May be Focus of Clinical Attention	2,008	40.7%	196	32.9%					
Bipolar Disorders	1,780	36.1%	157	26.3%					
Mood Depressive Disorders NOS	2,056	41.7%	123	20.6%					
Other Psychotic Disorders	1,451	29.4%	117	19.6%					
Nicotine Related Disorders	1,240	25.1%	115	19.3%					
Major Depressive Disorders	1,486	30.1%	108	18.1%					
Other Substance Abuse Issues	1,014	20.6%	108	18.1%					
Anxiety Disorders	1,561	31.7%	107	18.0%					
Personality Disorders	885	17.9%	100	16.8%					
Alcohol Related Disorders	1,093	22.2%	91	15.3%					
Other Unspec Drug Disorders	871	17.7%	59	9.9%					
Cocaine Related Disorders	613	12.4%	54	9.1%					
Intellectual Disabilities	420	8.5%	52	8.7%					
Stress Disorders	870	17.6%	41	6.9%					
Cognitive Disorders	705	14.3%	41	6.9%					
Cannabis Related Disorders	586	11.9%	41	6.9%					
Combination Drug Related Disorders	405	8.2%	27	4.5%					
Opioid Related Disorders	454	9.2%	26	4.4%					
Sleep Disorders	323	6.6%	21	3.5%					

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Medical Diagnoses

Home Health Med Admin: Medical Diagnosis Categories CY 2013									
Medical Diagnosis	Short	-term	Long	-term					
Categories	# Members	% of Cohort	# Members	% of Cohort					
Hypertension	2,512	50.9%	347	58.2%					
Diabetes	1,882	38.2%	288	48.3%					
Hyperlipidemia	1,909	38.7%	247	41.4%					
Asthma	1,215	24.6%	124	20.8%					
COPD	913	18.5%	112	18.8%					
Epilepsy	433	8.8%	45	7.6%					
Liver Disease	461	9.3%	35	5.9%					
CAD	430	8.7%	31	5.2%					
Heart Failure	275	5.6%	24	4.0%					
HIV	149	3.0%	20	3.4%					
Muscular Dystrophy	118	2.4%	18	3.0%					
Migraine	224	4.5%	10	1.7%					
Breast Cancer	69	1.4%	9	1.5%					
Skin Cancer	25	0.5%	3	0.5%					
Lymphoma	11	0.2%	3	0.5%					
Cerebral Palsy	17	0.3%	2	0.3%					
Head & Neck Cancer	8	0.2%	1	0.2%					
Lung Cancer	23	0.5%	1	0.2%					
Leukemias	10	0.2%	1	0.2%					
Sickle Cell	8	0.2%		0.0%					

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Burden of Disease: Long-Term Frequent Utilization Cohort

		Behavioral Health/Medical Diagnosis Category Count Croasstab Long-term Cohort										
		# of Medical Diagnostic Categories										
es		0	1	2	3	4	5	6	7	8		
Jori	1	10	12	16	13	5	1	-	-	-		
# of Behavioral Health Diagnostic Categories	2	24	21	25	18	12	4	2	-	-		
Ŭ	3	15	23	26	36	12	7	2	1	-		
stic	4	19	25	27	19	12	3	1	1	-		
gno	5	10	8	19	23	14	6	2	-	-		
Dia	6	5	6	13	10	5	2	1	-	1		
£	7	7	4	6	6	6	2	2	1	-		
lea	8	5	5	4	4	-	2	-	-	-		
alt	9	1	2	2	3	2	2	1	-	-		
/ior	10	1	1	-	1	1	-	-	-	-		
hav	11	-	1	1	-	1	-	-	-	-		
l a	12	-	-	2	-	1	-	-	-	-		
# of	13	-	-	-	1	-	-	-	-	-		
	14	-	-	-	-	-	1	-	-	-		

Burden of Disease: Short-Term Utilization Cohort

						ort-term C		egories C					
			# of Medical Diagnostic Categories										
		0	1	2	3	4	5	6	7	8	9		
	1	70	57	50	60	12	7	2	-	-			
	2	170	129	131	100	59	25	3	2	-			
ß	3	146	156	154	155	84	39	11	8	-			
5	4	141	177	162	161	88	37	19	10	6			
are s	5	115	131	141	104	70	48	22	5	4			
5	6	95	100	93	84	54	26	21	4	1			
	7	71	83	83	63	51	34	12	8	3			
ĥ	8	49	52	61	45	42	19	11	3	1			
La	9	41	41	48	39	22	18	7	3	2			
	10	27	25	32	32	18	11	4	7	-			
led	11	17	30	19	19	20	7	4	2	1			
8	12	10	13	14	15	4	6	2	1	2			
	13	5	9	10	7	5	5	3	-	-			
# 01 Dellavioral Realui Diagilosuc Caregories	14	4	7	8	8	5	3	2	-	2			
ă	15	3	3	1	5	2	2	1	-	-			
D ŧ	16	_	1	3	2	-	2	5	-	-			
	17	_	2	1	-	1	2	-	-	-			
	18	2	-	-	1	-	1	1	-	-			
	19	-	-	-	1	1	-	-	-	-			
	20	_	-	-	1	-	-	-	-	-			

Behavioral Health Medications

Home Health Med Admin: Behavioral Health Medication Categories CY 2013							
Behavioral Health Medication Categories	Shor	t-term	Long-term				
Denavioral meana meancation categories	# Members	% of Cohort	# Members	% of Cohort			
Antipsychotics	3,713	75.3%	469	78.7%			
Mood Stabilizer	2,199	44.6%	291	48.8%			
Antidepressants	2,795	56.7%	267	44.8%			
Antianxiety	2,273	46.1%	239	40.1%			
Sedative Hypnotics	772	15.7%	66	11.1%			
Narcotics	891	18.1%	56	9.4%			
Antimanic	387	7.8%	51	8.6%			
Smoking Deterrents	492	10.0%	42	7.0%			
Methadone	175	3.5%	14	2.3%			
Alcohol Treatment Agents	49	1.0%	6	1.0%			
ADHD	138	2.8%	5	0.8%			

ED Utilization

Home Health Med Admin: Behavioral Health Emergency Department Frequency Distribution CY 2013								
# of BH ED Episodes Short-term Long-term								
in CY 2013	# Members	% of Cohort	# Members	% of Cohort				
0	2,886	58.5%	422	70.8%				
1-3	1,595	32.3%	161	27.0%				
4-7	313	6.3%	6	1.0%				
8+	137	2.8%	7	1.2%				
Total	4,931	100%	596	100%				

ED Utilization

Home Health Med Admin: Medical Emergency Department Frequency Distribution CY 2013								
# of Medical ED Episodes Short-term Long-term								
in CY 2013	# Members	% of Cohort	# Members	% of Cohort				
0	2,361	47.9%	365	61.2%				
1-3	1,862	37.8%	188	31.5%				
4-7	457	9.3%	31	5.2%				
8+	251	5.1%	12	2.0%				
Total	4,931	100%	596	100%				

Acute Psychiatric Inpatient Utilization

Home Health Med Admin: Acute Inpatient Psych Frequency Distribution CY 2013								
# of IPF Episodes Short-term Long-term								
in CY 2013	# Members	% of Cohort	# Members	% of Cohort				
0	3,802	77.1%	536	89.9%				
1-2	951	19.3%	59	9.9%				
3+	178	3.6%	1	0.2%				
Total	4,931	100%	596	100%				

Medical Inpatient Utilization

Home Health Med Admin: Medical Inpatient Frequency Distribution CY 2013							
# of Medical IP Episodes	# of Medical IP Episodes Short-term Long-term						
in CY 2013	# Members	% of Cohort	# Members	% of Cohort			
0	4,015	81.4%	534	89.6%			
1-2	816	16.5%	59	9.9%			
3+	100	2.0%	3	0.5%			
Total	4,931	100%	596	100%			

Summary

The relative similarity between the cohorts was somewhat counterintuitive, as greater severity was expected among members with long-term frequent Medication Administration utilization.

 All members that utilized any Med Admin differed from the general Adult Medicaid population on several indicators suggesting greater severity, most notably the rate of Schizophrenia diagnoses, and patterns of behavioral health diagnoses and comorbidity.



Summary

- Members that utilized longstanding intensive levels of Med Admin had even higher rates of Schizophrenia diagnoses, but also had lower rates of both Behavioral Health and Medical ED and Inpatient Hospital utilization.
- It is possible that there may be a protective benefit related to long-term frequent Med Admin utilization, suggesting additional supports might be required if there were a reduction in Home Health services.

Summary

- There may be opportunities to address the needs of members with longstanding intensive Med Admin through existing relationships and community-based care, working with Peer Specialists, Integrated Care Nurses, and prescribers.
- There might also be opportunities to enhance collaboration between Home Health Agencies and Local Mental Health Authorities (LMHA's) to further support independence skills-building and promote recovery.

Questions?Discussion

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