

# **NORTH CAROLINA LME-MCO's**

# ANNUAL STATISTICS AND ADMISSION REPORT

FISCAL YEAR 2018

**TITLE:** North Carolina Local Management Entity-Managed Care Organization

**Annual Statistics and Admission Report** 

Fiscal Year 2018

### **NUMBER OF PAGES:**

**OFFICE OF PRIMARY RESPONSIBILITY:** Data Operations Branch

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**<u>DISTRIBUTION</u>**: All Institutions, Raleigh Office and Other Interested Groups

**PUBLICATION DATE:** December 2018

#### **INTRODUCTION**

In recent years there have been two separate reports(Annual Statistical Report for LMEs and the Admissions Report for LMEs) that have provided descriptive statistics and trends in the public community mental health system in North Carolina. In an effort to provide a single source of information that adequately describes the type of clients served at the clinical, demographic and geographic level these two reports have been combined into a single report for State Fiscal Year 2018. While similar in format and table construction to the previous reports, the intent of this report is to provide an integrated look at major service indicators and measures.

Figure 1 Selected Indicators and Percent Change Over Time State Totals, Fiscal Year 2018, 2013, 2008

	1	Fiscal Yea	Percent Change		
Indicators	FY18	FY13	FY08	FY18 vs. FY13	
Active Caseload Start of					
Fiscal Year	259,382	189,693	218,875	36.74%	
<b>Total Admissions</b>	113,299	143,521	88,032	-21.06%	
<b>Total Terminations</b>	94,608	71,334	57,020	32.63%	
Active Caseload End of					
Fiscal Year	278,073	261,880	249,887	6.18%	
Persons Served	372,681	333,214	306,907	11.84%	

#### **TABLE I**

Client Activity and Utilization (Table I) reflects admission rates, active caseload at the beginning of the fiscal year, total admissions and the total number of persons served by the LME-MCO. There were 246,947 active cases on July 1, 2017 and 89,454 total admissions (first and readmissions combined) during the fiscal year. A total of 336,401 persons were served during fiscal year 2018 as indicated by adding first and readmissions to the active cases (excluding those on Inactive Status and TASC Clients) on July 1, 2017. Graph 1 depicts the number of clients served at the LME-MCO for the last ten years.

Admission rates reflect the total number of admissions to an LME-MCO during the fiscal year per 100,000 population in the catchment area. Admission rates are useful in that they allow comparisons among geographic areas as well as special population subgroups by adjusting the effects of population size. Admission rates were selected instead of utilization rates because of their greater accuracy.

The statewide admission rate was **860** admissions per 100,000 population. The admission rate ranged from a low of **465** per 100,000 reported by Alliance Behavioral to a high of **1,415** per 100,000 population reported by Trillium.

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# TABLE I CLIENT ACTIVITY AND UTILIZATION BY NAME NORTH CAROLINA LMES FY2017-2018

	ADMISSION RATE*	ACL 7/1/2017	TOTAL ADMISSIONS	TERMINATIONS	PERSONS SERVED
Alliance Behavioral Cardinal Innovations EastPointe Partners Behavioral Sandhills Trillium VAYA STATE TOTAL	465	57,082	8,909	1,453	65,991
	832	25,103	26,302	22,378	51,405
	571	35,473	4,653	5,884	40,126
	808	44,607	7,640	6,736	52,247
	1,071	40,175	12,031	9,770	52,206
	1,415	17,509	18,670	15,667	36,179
	1,003	26,998	11,249	9,379	38,247
	860	246,947	89,454	71,267	336,401

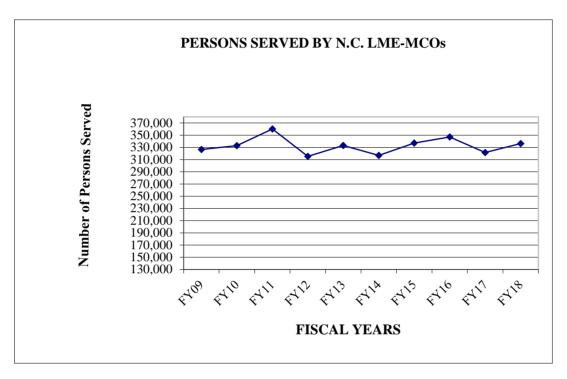
<sup>\*</sup> Rate per 100,000 N. C. Population ( 2018 Population Estimate.) Admission Rate = Total Admissions / Population x 100,000.

Please Note: There is a difference in Total Admissions, Terminations and Persons Served from the previous pages (Figure 1), when compared to the State Total in Table 1. The reason for this difference is that TASC clients are included in Figure 1, but not Table 1. TASC clients were not included in Table 1 as they are not associated with an LME.

FIGURE 2
SELECTED CHARACTERISTICS OF LME/TASC ADMISSIONS AND PERCENT CHANGE OVER TIME
STATE TOTAL FISCAL YEAR 2013-14, 2014-15, 2015-16, 2016-17, 2017-18

							PERCENT	
a						FY18 vs.	FY18 vs.	FY18 vs.
CHARACTERISTICS	FY14	FY15	FY16	FY17	FY18	FY17	FY16	FY15
TOTAL ADMISSIONS	109,262	111,277	114,579	111,487	113,299	1.6%	-1.1%	1.8%
BY DIAGNOSIS ALCOHOL	9,002	8,778	10,047	10,213	10,764	5.4%	7.1%	22.6%
DRUG	25,628	25,393	33,136	34,785	38,618	11.0%	16.5%	52.1%
I/DD	672	976	923	758	410	-45.9%	-55.6%	-58.0%
MENTALLY ILL	58,302	60,995	61,500	56,733	54,141	-4.6%	-12.0%	-11.2%
NO MENTAL DISORDER	4,909	11,121	7,103	7,401	8,382	13.3%	18.0%	-24.6%
UNKNOWN-DEFERRED	10,749	4,014	1,870	1,597	984	-38.4%	-47.4%	-75.5%
BY GENDER MALE	60,853	62,960	65,666	64,574	67,320	4.3%	2.5%	6.9%
FEMALE	48,409	48,317	48,913	46,913	45,979	-2.0%	-6.0%	-4.8%
BY RACE WHITE	65,594	66,741	71,037	70,225	70,885	0.9%	-0.2%	6.2%
BLACK	35,237	35,730	36,628	34,897	35,891	2.8%	-2.0%	0.5%
AMERICAN INDIAN	2,106	2,310	1,906	1,689	1,789	5.9%	-6.1%	-22.6%
OTHER	5,253	5,117	4,045	3,845	3,974	3.4%	-1.8%	-22.3%
ASIAN/PACIFIC ISLANDER	469	511	542	584	595	1.9%	9.8%	16.4%
UNKNOWN	603	868	421	247	165	-33.2%	-60.8%	-81.0%

3A



This graph reflects the number of persons served by the 7 LME-MCOs for the time period FY2009 through FY2018. This data reflected in this graph does not include persons on inactive status.

A total of 336,401 clients were served by LMEs during FY2018 representing a 3.01 % increase over the 326,563 during FY 2009.

#### TABLE 2

Table II reflects the number of persons served in each of the LME-MCOs by age and disability. The age of the client was calculated as of 6-30-18 and the disability of the client was based on the diagnosis assigned to the client on the NCTRACKS paid claim.

A total of **372,681** persons were served in the LME-MCOs and TASC during FY18. Persons Served is calculated by totaling the active caseload on July 1, of the fiscal year (excluding those clients on Inactive Status) and all admissions.

Of the **372,681** clients served, **69** percent (**257,213**) were mentally ill, **4.81** percent (**17,941**) were developmentally disabled, and **26.17** percent (**97,257**) were substance abusers. Within each disability the percent of children served (0-17) ranged from **0.55** percent (**538**) of substance abusers, to **22.22** percent (**3,986**) of the developmentally disabled. The percent of children served in the mental health category was **14.8** percent (**38,063**).

TABLE 2
NUMBER OF DUPLICATED PERSONS SERVED BY AGE DISABILITY
NORTH CAROLINA'S LME-MCOs AND TASC REGIONS
BY NAME, FY2017-18

					DEVI	ELOPMEN	ITAL				
LME	PERSONS	MEI	NTALLY I	LL	DI	DISABILITIES			SUBSTANCE ABUSE		
	SERVED	TOTAL	ADULT	CHILD	TOTAL	ADULT	CHILD	TOTAL	ADULT	CHILD	
Alliance	65,991	50,344	45,212	5,132	3,658	2,739	919	11,989	11,968	21	
Cardinal Innovations	51,405	33,362	26,155	7,207	3,153	2,728	425	14,890	14,755	135	
Eastpointe	40,126	31,146	26,312	4,834	2,379	1,895	484	6,601	6,571	30	
Partners Behavioral	52,247	39,945	37,268	2,677	1,913	1,531	382	10,389	10,375	14	
Sandhills	52,206	40,922	29,896	11,026	3,026	2,106	920	8,258	8,166	92	
Trillium	36,179	23,045	18,131	4,914	1,916	1,374	542	11,218	11,140	78	
VAYA	38,247	27,139	24,995	2,144	1,896	1,582	314	9,212	9,176	36	
TASC Region 1	10,189	2,671	2,654	17	0	0	0	7,518	7,472	46	
TASC Region 2	9,727	3,488	3,464	24	0	0	0	6,239	6,204	35	
TASC Region 3	10,790	4,417	4,334	83	0	0	0	6,373	6,340	33	
TASC Region 4	5,574	734	729	5	0	0	0	4,840	4,822	18	
STATE TOTAL	372,681	257,213	219,150	38,063	17,941	13,955	3,986	97,527	96,989	538	

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#### NORTH CAROLINA STATE LME-MCOs AND TASC TOTAL PERSONS SERVED FY2017-2018 TABLE 2-A

	TOTAL	TOTAL		TOTAL	TOTAL
	PERCENT	NUMBER		PERCENT	NUMBER
TOTAL PERSONS SERVED	100.0%	372,681	TOTAL PERSONS SERVED	100.0%	T, CITED LIK
*AGE GROUPS		,	DIAGNOSIS (con't)		
00-04	0.1%	442	Primary Degenerative Dementia	0.1%	202
05-09	2.1%	7,666	Schizoaffective	2.2%	8,289
10-14	5.1%	19,088	Schizophrenic	3.0%	11,355
15-17	4.1%	15,391	Schizophreniform	0.1%	198
18-20	5.1%	19,152	Sexual	0.0%	164
21-24	8.5%	31,712	Somatoform/Factitious	0.0%	87
25-34	25.3%	94,371	Specific Development	0.3%	1,087
35-44	19.2%	71,541	Substance Abuse (Drugs)	19.7%	73,422
45-54	15.9%	59,267	Unknown	3.8%	14,031
55-64	10.8%	40,301	Vascular Dementia	0.0%	67
65+	3.7%	13,750			**
GENDER					
Males	54.0%	201,163			
Females	46.0%	171,368	MARITAL STATUS		
Unknown	0.0%	171,366	MARITAL STATES		
RACE			Annulled	0.1%	532
			Divorced	9.4%	34,896
Asian	0.5%	1,746	Domestic partners	0.7%	2,680
Black	30.9%	115,063	Married	10.6%	39,413
White	61.6%	229,690	Separated	5.6%	21,026
American Indian/Alaskan Native	2.0%	7,508	Single	71.1%	264,811
Other	4.4%	16,451	Unknown	0.9%	3,460
Unknown	0.5%	2,035	Widowed	1.6%	5,863
Pacific Islander	0.1%	188			
<u>DIAGNOSIS</u>			ETHNICITY		
Adjustment	4.5%	16,667	Hispanic Cuban	0.1%	403
Alcohol Abuse	6.1%	22,706	Hispanic Mexican American	1.5%	5,690
Alcohol Related Organic	0.4%	1,399	Hispanic Other	2.3%	8,755
Anxiety	7.9%	29,272	Hispanic Puerto Rican	0.4%	1,480
Attention Deficit	4.1%	15,106	Not Hispanic Origin	94.9%	353,578
Autism & Pervasive Dev.	1.4%	5,335	Unknown	0.7%	2,775
Bipolar	7.9%	29,544			
Conduct	3.1%	11,636			
Delusional	0.1%	380			
Diagnosis Deferred	2.1%	7,823			
Dissociative	0.0%	59			
Dysthymia	0.5%	1,931			
Eating and Sleeping Disorders	0.1%	288			
Mental Retardation	3.1%	11,519			
Major Depression	19.5%	72,661			
Medication Induced	0.0%	11			
No Mental Disorder	3.4%	12,830			
Other Childhood Disorders	0.2%	910			
Other Mental Disorders	0.4%	1,468			
Other Nonpsychotic/Mental	4.0%	14,879			
Other Problems Not Mental	0.4%	1,468			
Other Psychotic	0.9%	3,218			
Personality & Other Impulses	0.7%	2,669			
*AGE FOR PERSONS SERVED WAS CALC			<u>                                     </u>		

<sup>\*</sup>AGE FOR PERSONS SERVED WAS CALCULATED AS AGE AT 06-30-2018.

## TABLE 2B

Table 2B reflects the number of persons served for each county that falls within the LME-MCO's catchment area. Table 2 on the other hand reflects number of persons served by the LME-MCO regardless of the county of residence.

This difference is pointed out in case the reader is trying to compare the two tables.

TABLE 2B
PERSONS SERVED BY LME-MCO AND COUNTY
FOR THE NORTH CAROLINA LME-MCOs
FY 2017-18

State and Counties	Persons Served	State and Counties	Persons Served
North Carolina			
STATE TOTAL *	336,401		
Alliance	66,610	Eastpointe	40,481
Cumberland	13,585	Bladen	1,676
Durham	14,862	Columbus	3,017
Johnston	6,619	Duplin	2,341
Wake	31,544	Edgecombe	2,232
		Greene	560
Cardinal Innovations	51,981	Lenoir	4,371
Alamance	3,563	Nash	1,235
Cabarrus	3,736	Robeson	8,708
Caswell	451	Sampson	3,439
Chatham	1,241	Scotland	2,306
Davidson	3,437	Wayne	7,127
Davie	388	Wilson	3,469
Forsyth	5,121		
Franklin	1,476	Partners Behavioral	50,224
Granville	1,103	Burke	5,432
Halifax	2,299	Catawba	9,138
Mecklenburg	11,281	Cleveland	6,062
Orange	3,081	Gaston	12,744
Person	1,469	Iredell	7,570
Rockingham	1,776	Lincoln	3,339
Rowan	3,516	Surry	4,196
Stanly	1,888	Yadkin	1,743
Stokes	649		,,,
Union	3,073	Sandhills	52,183
Vance	1,801	Anson	1,802
Warren	632	Guilford	23,015
		Harnett	4,973
		Hoke	2,321
		Lee	3,093
		Montgomery	1,608
		Moore	4,190
		Randolph	7,608
		Richmond	3,573

<sup>\*</sup> State Total includes 387 Persons Served that are Out of State and 827 Persons Served with Unknown County of Residence

# TABLE 2B cont'd PERSONS SERVED BY LME-MCO AND COUNTY FOR THE NORTH CAROLINA LME-MC0s FY 2017-18

Persons Served	State and Counties	Persons Served
336,401		
35,394	VAYA	38,314
2,327	Alexander	1,234
677	Alleghany	506
2,063	Ashe	1,133
232	Avery	771
1,538	Buncombe	7,389
486	Caldwell	3,311
4,727	Cherokee	1,495
673	Clay	400
1,273	Graham	484
273	Haywood	4,327
772	Henderson	1,881
160	Jackson	2,122
408	Macon	911
1,791	Madison	924
5,039	McDowell	2,185
661	Mitchell	334
2,285	Polk	287
492	Rutherford	1,701
1,389	Swain	923
1,023	Transylvania	1,173
	•	1,444
	Wilkes	2,924
121	Yancey	455
457	,	
	336,401  35,394  2,327 677 2,063 232 1,538 486 4,727 673 1,273 273 772 160 408 1,791 5,039 661 2,285 492 1,389 1,023 397 6,130 121	336,401  35,394 VAYA 2,327 Alexander 677 Alleghany 2,063 Ashe 232 Avery 1,538 Buncombe 486 Caldwell 4,727 Cherokee 673 Clay 1,273 Graham 273 Haywood 772 Henderson 160 Jackson 408 Macon 1,791 Madison 408 Macon 1,791 Madison 5,039 McDowell 661 Mitchell 2,285 Polk 492 Rutherford 1,389 Swain 1,023 Transylvania 397 Watauga 6,130 Wilkes 121 Yancey

<sup>\*</sup> State Total includes 387 Persons Served that are Out of State and 827 Persons Served with Unknown County of Residence

#### TABLE 3

The data reflected in this table included admissions by diagnosis and marital status. The aggregate groupings of diagnosis are based on the ICD9 and ICD10 (International Classification of **Diseases**, 9<sup>th</sup> **Revision Clinical Modification**, International Classification of **Diseases**, 10<sup>th</sup> **Revision Clinical Modification**)

Of the diagnosis reported at the time of admission, substance abuse (38,618) accounted for (34.1%) of all admissions. However, when looking at Psychiatric Diagnosis only, which represented (55.5%) of all diagnosis, major depressive disorders (18,968) accounted for (16.7%) of all admissions. There were (9,881) alcohol abuse admissions which accounted for (8.7%) of all admissions.

In the marital category, the largest group is those who are single, representing **70.9%** of all admissions.

TABLE 3 TOTAL ADMISSIONS BY DIAGNOSTIC CATEGORY & MARITAL STATUS NORTH CAROLINA LME-MCOs, FY2017-2018

		TOTAL
	*PERCENT	NUMBER
TOTAL ADMISSIONS	100.0%	113,299
DIAGNOSTIC CATEGORY **		
Substance Abuse (Drugs)	34.1%	38,618
Major Depression	16.7%	18,968
Alcohol Abuse	8.7%	9,881
Bipolar	6.2%	7,002
Anxiety	7.0%	7,984
No Mental Disorder	7.4%	8,382
Adjustment	4.3%	4,855
Other Nonpsychotic/Mental	3.3%	3,713
Attention Deficit	1.9%	2,112
Schizophrenic	2.3%	2,585
Conduct	1.8%	2,084
Schizoaffective	1.6%	1,822
Unknown	0.6%	639
I/DD	0.4%	410
Personality & Other Impulses	0.7%	796
Autism & Pervasive Dev.	0.4%	493
Diagnosis Deferred	0.3%	345
Dysthymia	0.5%	512
Other Psychotic	0.1%	153
Other Problems Not Mental	0.4%	433
Other Mental Disorders	0.2%	235
Alcohol Related Organic	0.8%	883
Specific Development	0.1%	128
Delusional	0.1%	85
Eating and Sleeping Disorders	0.0%	45
Other Childhood Disorders	0.0%	37
Schizophreniform	0.0%	45
Sexual	0.0%	18
Primary Degenerative Dementia	0.0%	5
Somatoform/Factitious	0.0%	10
Dissociative	0.0%	15
Vascular Dementia	0.0%	6
Medication Induced	0.0%	0
Medication induced	0.070	v
MARITAL STATUS		
Single	70.9%	80,381
Married	10.7%	12,076
Divorced	9.9%	11,231
Separated	5.8%	6,569
Widowed	1.5%	1,681
Domestic partners	1.1%	1,244
Unknown	0.1%	1,244
Annulled	0.1%	36
Amidica	0.070	30

<sup>\*</sup>TOTALS DO NOT ALWAYS EQUAL 100 % DUE TO ROUNDING \*\* DERIVED FROM ICD-9 and ICD-10 CODING TASC ADMISSIONS ARE INCLUDED IN TABLE 3.

#### TABLE 3A

The data in this table reflects admission characteristics by race, sex and age categories.

Males represented the majority of the total admissions **59.4%** with females representing **40.6%** of the total admissions.

When looking at race categories during FY18 non-white admissions numbered **42,414** or **37.4%** of the total reported. Of the non-white admissions reported **1.6%** was American Indians.

The age group composition of LME-MCO's admissions reflects that **30.6%** fell within the 25 to 34 age group. When admissions are grouped by the three major age groups, **10.2%** were 0-17, **88.3%** was between 18-64 years of age and **1.5%** were 65 years and older.

TABLE 3A
TOTAL ADMISSIONS BY RACE,SEX AND AGE
NORTH CAROLINA LME-MCOs
FY2017-2018

	тот	AL
	*PERCENT	NUMBER
TOTAL ADMISSIONS	100.0%	113,299
RACE		
WHITE	62.6%	70,885
BLACK	31.7%	35,891
AMERICAN INDIAN	1.6%	1,789
ASIAN/PACIFIC ISLANDER	0.5%	595
OTHER	3.5%	3,974
UNKNOWN	0.1%	165
GENDER		
MALE	59.4%	67,314
FEMALE	40.6%	45,979
UNKNOWN	0.0%	6
AGE		
00-04	0.4%	447
05-09	2.6%	2,920
10-14	4.0%	4,577
15-17	3.2%	3,576
18-20	5.2%	5,931
21-24	11.0%	12,422
25-34	30.6%	34,709
35-44	19.7%	22,336
45-54	14.5%	16,413
55-64	7.3%	8,236
65 AND OVER	1.5%	1,732

\*TOTALS DO NOT ALWAYS EQUAL 100 % DUE TO ROUNDING TASC ADMISSIONS ARE INCLUDED IN TABLE 3A

Figure 3
Admissions Rate Per 100,000 Populations \*
By Age Group by LME-MCO, FY2017-18

	Children	Child	Adult	Adult		Total
	Admissions	Admission	Admissions	Admissions	Total	Admission
LME	(0-17)	Rate	(18 And Older)	Rate	Admissions	Rate
Alliance Behavioral	872	187	8,037	555	8,909	465
Cardinal Innovations	3,075	430	23,227	949	26,302	832
Eastpointe	241	129	4,412	703	4,653	571
Partners Behavioral	367	181	7,273	980	7,640	808
Sandhills	3,209	1,246	8,822	1,018	12,031	1,071
Trillium	2,562	908	16,108	1,552	18,670	1,415
VAYA	760	368	10,489	1,146	11,249	1,003
State Total	11,086	479	78,368	969	89,454	860

<sup>\*</sup> Admissions rate = (Admissions/Population) x 100,000

#### **TABLE 3B**

Table 3B reflects the duplicated number of admissions for each of the LME-MCO's by age and disability. The age of the client was calculated on the admission date and the disability of the client was based on the diagnosis assigned to the client on the NCTRACKS Paid Claims.

Of the 113,299 clients admitted, 55.5% (62,886) were mentally ill, 0.91% (1,031) were developmentally disabled, and 43.59% (49,382) were substance abusers. Within each disability the percent of children served (0-17) ranged from 1.10% (545) of substance abusers, to 52.47% (541) of the developmentally disabled. The percent of children served in the mental health category was 16.59% (10,434).

TABLE 3B

NUMBER OF DUPLICATED ADMISSIONS BY AGE DISABILITY
NORTH CAROLINA'S LME-MCOs AND TASC REGIONS
BY NAME, FY2017-18

LME	TOTAL	ME	ENTALLY II	L	DEVELOP	MENTAL DISAI	BILITIES	SUBSTANCE ABUSE		
LIVIE	ADMS	TOTAL	ADULT	CHILD	TOTAL	ADULT	CHILD	TOTAL	ADULT	CHILD
Alliance	8,909	6,391	5,613	778	159	74	85	2,359	2,350	9
Cardinal Innovations	26,302	14,307	11,399	2,908	131	95	36	11,864	11,733	131
Eastpointe	4,653	3,368	3,149	219	72	51	21	1,213	1,212	1
Partners Behavioral Health	7,640	5,263	4,920	343	65	49	16	2,312	2,304	8
Sandhills	12,031	8,550	5,618	2,932	307	86	221	3,174	3,118	56
Trillium	18,670	10,330	7,971	2,359	215	92	123	8,125	8,045	80
VAYA	11,249	6,717	6,030	687	82	43	39	4,450	4,416	34
TASC Region 1	6,344	1,595	1,569	26	0	0	0	4,749	4,679	70
TASC Region 2	6,643	2,461	2,422	39	0	0	0	4,182	4,125	57
TASC Region 3	7,393	3,424	3,288	136	0	0	0	3,969	3,908	61
TASC Region 4	3,465	480	473	7	0	0	0	2,985	2,947	38
TOTAL	113,299	62,886	52,452	10,434	1,031	490	541	49,382	48,837	545

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#### TABLE 3C

Table 3C reflects the unduplicated number of admissions for each of the LME-MCO's by age and disability. The age of the client was calculated on the admission date and the disability of the client was based on the diagnosis assigned to the client on the NCTRACKS Paid Claim.

Of the 108,105 clients admitted, 56.89% (61,502) were mentally ill, 0.95% (1,022) were developmentally disabled, and 42.16% (45,581) were substance abusers. Within each disability the percent of children served (0-17) ranged from 1.17% (533) of substance abusers, to 52.45% (536) of the developmentally disabled. The percent of children served in the mental health category was 16.8% (10,333).

TABLE 3C NUMBER OF UNDUPLICATED ADMISSIONS BY AGE DISABILITY NORTH CAROLINA'S LME-MCOs AND TASC REGIONS BY NAME, FY2017-18

LME	TOTAL	MEN	NTALLY II	L	DEVELOP	MENTAL DI	SABILITIES	SUBS	STANCE AI	BUSE
LME	ADMS	TOTAL	ADULT	CHILD	TOTAL	ADULT	CHILD	TOTAL	ADULT	CHILD
Alliance	8,674	6,222	5,464	758	158	74	84	2,294	2,285	9
Cardinal Innovations	24,322	13,914	11,033	2,881	129	93	36	10,279	10,154	125
Trillium	4,589	3,335	3,118	217	71	51	20	1,183	1,182	1
Eastpointe	7,414	5,142	4,800	342	64	48	16	2,208	2,200	8
Partners Behavioral Health	11,811	8,478	5,560	2,918	305	86	219	3,028	2,973	55
Sandhills	17,267	10,048	7,719	2,329	214	91	123	7,005	6,928	77
VAYA	10,868	6,609	5,924	685	81	43	38	4,178	4,144	34
TASC Region 1	6,208	1,568	1,542	26	0	0	0	4,640	4,570	70
TASC Region 2	6,474	2,403	2,365	38	0	0	0	4,071	4,015	56
TASC Region 3	7,094	3,308	3,176	132	0	0	0	3,786	3,726	60
TASC Region 4	3,384	475	468	7	0	0	0	2,909	2,871	38
TOTAL	108,105	61,502	51,169	10,333	1,022	486	536	45,581	45,048	533

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#### TABLE 4

This table includes selected indicators for all terminations while the proceeding four tables focused on admissions. This table was included since diagnostic classification may change during the course of treatment and final diagnosis should be more accurate.

The relationships described for admission diagnosis remained true for termination diagnoses, although absolute numbers and percentages changed. Substance abuse accounted for 36.8% of terminations versus 34.1% of admissions. Adjustment disorders accounted for 3.9% of terminations versus 4.3% of admissions while major depression disorders accounted for 14.6% versus 16.7% at admission.

TABLE 4 TOTAL TERMINATIONS BY DIAGNOSTIC CATEGORY, RACE, SEX AND AGE NORTH CAROLINA LME-MCOs, FY2017-2018

	TOTAL						
	PERCENT*	NUMBER					
TOTAL TERMINATIONS	100.0%	94,608					
DIAGNOSTIC CATEGORY **							
Adjustment	3.9%	3,644					
Alcohol Abuse	9.5%	9,007					
Alcohol Related Organic	0.8%	790					
Anxiety	6.1%	5,763					
Attention Deficit	2.2%	2,085					
Autism & Pervasive Dev. Bipolar	0.2% 5.4%	207 5,142					
Conduct	2.0%	1,908					
Delusional	0.1%	68					
Diagnosis Deferred	0.1%	482					
Dissociative	0.0%	11					
Dysthymia	0.4%	406					
Eating and Sleeping Disorders	0.0%	37					
I/DD	0.5%	511					
Major Depression	14.6%	13,834					
Medication Induced	0.0%	0					
No Mental Disorder	8.4%	7,979					
Other Childhood Disorders	0.0%	43					
Other Mental Disorders	0.2%	213					
Other Nonpsychotic/Mental	3.0%	2,810					
Other Problems Not Mental	0.3%	323					
Other Psychotic	0.2%	180					
Personality & Other Impulses	0.6%	568					
Primary Degenerative Dementia	0.0%	10					
Schizoaffective	1.4%	1,313					
Schizophrenic	2.0%	1,851					
Schizophreniform	0.0%	29					
Sexual	0.0%	25					
Somatoform/Factitious	0.0%	11					
Specific Development	0.1%	80					
Substance Abuse (Drugs)	36.8%	34,775					
Unknown Vascular Dementia	0.5% 0.0%	500					
RACE							
-							
White	63.1%	59,719					
Black	31.9%	30,133					
American Indian	1.6%	1,525					
Asian/Pacific Islander Other	0.5%	461					
Unknown	2.8% 0.1%	2,694 76					
AGE GROUPS							
00-04	0.1%	104					
05-09	2.1%	1,969					
10-14	3.6%	3,446					
15-17	3.1%	2,900					
18-20	4.7%	4,465					
21-24	10.2%	9,632					
25-34	31.0%	29,343					
35-44	20.3%	19,215					
45-54	14.7%	13,928					
55-64 65 AND OVER	8.2% 1.9%	7,775 1,83					
GENDER		,					
Male	60.4%	57,12					
Female	39.6%	37,476					
Unknown	0.0%	57,776					

<sup>\*</sup>TOTALS DO NOT ALWAYS EQUAL 100 % DUE TO ROUNDING \*\*DERIVED FROM ICD9 AND ICD10 CODING

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# Table 5

Table 5 reflects the unduplicated count of persons served in each of the LME-MCO's by age and disability. The age of the client was calculated as of 6-30-18 and the disability of the client was based on the diagnosis assigned to the client on the NCTRACKS Paid Claims.

A total of **363,393** persons were served in the LME-MCO's during FY18. Persons Served is calculated by totaling the active caseload on July 1, of the fiscal year (excluding those clients on Inactive Status) and all admissions.

TABLE 5
NUMBER OF UNDUPLICATED PERSON SERVED BY AGE DISABILITY
NORTH CAROLINA'S LME-MCOs AND TASC REGIONS
BY NAME, FY2017-18

LME	PERSON	MENTALLY ILL			DEVELOPM	ENTAL DIS	SABILITIES	SUBSTANCE ABUSE			
LIVIE	SERVED	TOTAL	ADULT	CHILD	TOTAL	ADULT	CHILD	TOTAL	ADULT	CHILD	
Alliance	65,573	50,051	44,939	5,112	3,656	2,738	918	11,866	11,845	21	
Cardinal Innovations	48,595	32,582	25,446	7,136	3,151	2,726	425	12,862	12,734	128	
Eastpointe	39,801	30,901	26,075	4,826	2,372	1,890	482	6,528	6,498	30	
Partners Behavioral Health	51,774	39,683	37,009	2,674	1,912	1,530	382	10,179	10,165	14	
Sandhills	51,430	40,422	29,535	10,887	3,017	2,106	911	7,991	7,900	91	
Trillium	34,190	22,519	17,665	4,854	1,914	1,372	542	9,757	9,680	77	
VAYA	37,342	26,727	24,599	2,128	1,893	1,581	312	8,722	8,686	36	
TASC Region 1	9,793	2,585	2,568	17	0	0	0	7,208	7,163	45	
TASC Region 2	9,347	3,366	3,342	24	0	0	0	5,981	5,946	35	
TASC Region 3	10,167	4,207	4,126	81	0	0	0	5,960	5,927	33	
TASC Region 4	5,381	717	712	5	0	0	0	4,664	4,646	18	
STATE TOTAL	363,393	253,760	216,016	37,744	17,915	13,943	3,972	91,718	91,190	528	

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# Table 6

The screening process was discontinued on 7/1/2016 and data no longer available for this table.

#### Table 7

The data in these tables reflects the drug of choice for all 49,382 LME/TASC admissions with a substance abuse principal diagnosis.

Alcohol was the drug of choice for (12,391) admissions which represented 25.09% of all substance abuse admissions. Marijuana/Hashish was the drug of choice (11,549) admissions which represented 23.39% of all substance abuse admissions. Other Opiates was the drug of choice for (6,128) admissions which 12.41% of all substance abuse admissions.

Table 7
Substance Abuse Admissions Data for the North Carolina LME-MCO's by Drug of Choice FY2016-17

LME	Drug of Choice	Total Admissions
State Total		49,382
Alliance Behavioral	Alcohol	804
	Benzodiazepine (Valium Librium Tranxene)	17
	Cocaine/Crack	272
	Heroin	509
	Marijuana/Hashish (Cannibus)	186
	Methamphetamine (Ice)	18
	Non-Prescription Methadone Other (e.g., Diphenylhydantoin / Phenytoin, GHB/GBL, Ketamine)	19
	Other Amphetamines (Dextroamphetamine Dexedrine	2 1
	Other Hallucinogens (LSD MDA Psilocybin Mescaline)	5
	Other Opiates and Synthetics (Morphine Codeine Dil	398
	Other Sedatives or Hypnotics (Doriden Quaalude)	3
	Other Stimulants (e.g. caffeine)	10
	Tobacco	2
	Unknown	110
Alliance Behavioral Total		2,359

Table 7 cont'd Substance Abuse Admissions Data for the North Carolina LME-MCO's by Drug of Choice FY2016-17

LME	Drug of Choice	Total Admissions
State Total		49,382
Cardinal Innovations	Alcohol	3,766
	Barbiturates (Phenobarbital Secobarbital Pentobarb	1
	Benzodiazepine (Valium Librium Tranxene)	50
	Cocaine/Crack	1,421
	Heroin	2,236
	Inhalants (e.g., nitrites, Freon, glue, turpentine, paint thinner, rubbing	
	alcohol, gasoline)	2
	Marijuana/Hashish (Cannibus)	1,248
	Methamphetamine (Ice)	143
	Non-Prescription Methadone	59
	Other (e.g., Diphenylhydantoin / Phenytoin, GHB/GBL, Ketamine)	14
	Other Amphetamines (Dextroamphetamine Dexedrine	13
	Other Hallucinogens (LSD MDA Psilocybin Mescaline)	6
	Other Opiates and Synthetics (Morphine Codeine Dil	920
	Other Sedatives or Hypnotics (Doriden Quaalude)	3
	Other Stimulants (e.g. caffeine)	
	PCP (Phencyclidine) Tobacco	1
	Unknown	1,968
Cardinal Innovations Total	Unknown	· ·
Cardinal innovations Total		11,864

Table 7 cont'd Substance Abuse Admissions Data for the North Carolina LME-MCO's by Drug of Choice FY2016-17

LME	Drug of Choice	Total Admissions
State Total		49,382
EastPointe	Alcohol	253
	Benzodiazepine (Valium Librium Tranxene)	8
	Cocaine/Crack	197
	Heroin	133
	Inhalants (e.g., nitrites, Freon, glue, turpentine, paint thinner, rubbing	
	alcohol, gasoline)	1
	Marijuana/Hashish (Cannibus)	266
	Methamphetamine (Ice)	48
	Non-Prescription Methadone	2
	Other (e.g., Diphenylhydantoin / Phenytoin, GHB/GBL, Ketamine)	2
	Other Amphetamines (Dextroamphetamine Dexedrine	3
	Other Hallucinogens (LSD MDA Psilocybin Mescaline)	2
	Other Opiates and Synthetics (Morphine Codeine Dil	222
	Other Sedatives or Hypnotics (Doriden Quaalude)	3
	Other Stimulants (e.g. caffeine)	5
	Over the counter drugs (e.g diet tablets cough syr	2
	PCP (Phencyclidine)	1
	Tobacco	1
	Unknown	64
EastPointe Total		1,213
		, -
Partners Behavioral	Alcohol	690
	Barbiturates (Phenobarbital Secobarbital Pentobarb	1
	Benzodiazepine (Valium Librium Tranxene)	14
	Cocaine/Crack	173
	Heroin	269
	Marijuana/Hashish (Cannibus)	320
	Methamphetamine (Ice)	161
	Non-Prescription Methadone	5
	Other (e.g., Diphenylhydantoin / Phenytoin, GHB/GBL, Ketamine)	2
	Other Amphetamines (Dextroamphetamine Dexedrine	13
	Other Opiates and Synthetics (Morphine Codeine Dil	611
	Other Sedatives or Hypnotics (Doriden Quaalude)	3
	Other Stimulants (e.g. caffeine)	1
	Unknown	49
Partners Behavioral Total		2,312

### Table 7 cont'd Substance Abuse Admissions Data for the North Carolina LME-MCO's by Drug of Choice FY2016-17

LME	Drug of Choice	Total Admissions
State Total		49,382
Sandhills	Alcohol	970
	Barbiturates (Phenobarbital Secobarbital Pentobarb	1
	Benzodiazepine (Valium Librium Tranxene)	35
	Cocaine/Crack	390
	Heroin	586
	Inhalants (e.g., nitrites, Freon, glue, turpentine, paint thinner, rubbing	
	alcohol, gasoline)	1
	Marijuana/Hashish (Cannibus)	455
	Methamphetamine (Ice)	95
	Non-Prescription Methadone	7
	Other (e.g., Diphenylhydantoin / Phenytoin, GHB/GBL, Ketamine)	4
	Other Amphetamines (Dextroamphetamine Dexedrine	8
	Other Hallucinogens (LSD MDA Psilocybin Mescaline)	6
	Other Opiates and Synthetics (Morphine Codeine Dil	509
	Other Sedatives or Hypnotics (Doriden Quaalude)	3
	Other Stimulants (e.g. caffeine)	5
	Tobacco	3
	Unknown	96
Sandhills Total		3,174
Trillium	Alcohol	2,473
	Barbiturates (Phenobarbital Secobarbital Pentobarb	1
	Benzodiazepine (Valium Librium Tranxene)	28
	Cocaine/Crack	618
	Heroin	1,797
	Inhalants (e.g., nitrites, Freon, glue, turpentine, paint thinner, rubbing	
	alcohol, gasoline)	3
	Marijuana/Hashish (Cannibus)	995
	Methamphetamine (Ice)	57
	Non-Prescription Methadone	44
	Other (e.g., Diphenylhydantoin / Phenytoin, GHB/GBL, Ketamine)	13
	Other Amphetamines (Dextroamphetamine Dexedrine	6
	Other Hallucinogens (LSD MDA Psilocybin Mescaline)	4
	Other Opiates and Synthetics (Morphine Codeine Dil	1,042
	Other Sedatives or Hypnotics (Doriden Quaalude)	3
	Other Stimulants (e.g. caffeine)	1
	PCP (Phencyclidine)	11
	Tobacco	14
	Unknown	1,015
Trillium Total		8,125

## Table 7 cont'd Substance Abuse Admissions Data for the North Carolina LME-MCO's by Drug of Choice FY2016-17

LME	Drug of Choice	Total Admissions
State Total		49,382
VAYA	Alcohol Benzodiazepine (Valium Librium Tranxene) Cocaine/Crack Heroin Inhalants (e.g., nitrites, Freon, glue, turpentine, paint thinner, rubbing	1,269 42 178 374
	alcohol, gasoline) Marijuana/Hashish (Cannibus) Methamphetamine (Ice) Non-Prescription Methadone Other (e.g., Diphenylhydantoin / Phenytoin, GHB/GBL, Ketamine) Other Amphetamines (Dextroamphetamine Dexedrine Other Hallucinogens (LSD MDA Psilocybin Mescaline) Other Opiates and Synthetics (Morphine Codeine Dil	352 738 20 6 45 3 1,125
	Other Sedatives or Hypnotics (Morphine Codelle Dif Other Stimulants (e.g. caffeine) Other Tranquilizers (Thorazine Haldol) PCP (Phencyclidine) Tobacco Unknown	15 25 1 1 38 217
VAYA Total		4,450

Table 7 cont'd
Substance Abuse Admissions Data for the North Carolina LME-MCO's by Drug of Choice
FY2016-17

LME	Drug of Choice	Total Admissions
State Total		49,382
TASC	Alcohol	2,166
	Barbiturates (Phenobarbital Secobarbital Pentobarb	1
	Benzodiazepine (Valium Librium Tranxene)	66
	Cocaine/Crack	1,924
	Heroin	1,333
	Inhalants (e.g., nitrites, Freon, glue, turpentine, paint thinner, rubbing	
	alcohol, gasoline)	2
	Marijuana/Hashish (Cannibus)	7,727
	Methamphetamine (Ice)	1,142
	None (e.g client in remission)	54
	Non-Prescription Methadone	8
	Other (e.g., Diphenylhydantoin / Phenytoin, GHB/GBL, Ketamine)	51
	Other Amphetamines (Dextroamphetamine Dexedrine	59
	Other Hallucinogens (LSD MDA Psilocybin Mescaline)	3
	Other Opiates and Synthetics (Morphine Codeine Dil	1,301
	Other Sedatives or Hypnotics (Doriden Quaalude)	11
	Other Stimulants (e.g. caffeine)	14
	Other Tranquilizers (Thorazine Haldol)	5
	PCP (Phencyclidine)	18
TASC Total		15,885

Table 7 cont'd

Substance Abuse Admissions Data for the North Carolina LME-MCO's by Drug of Choice
FY2017-18

Drug of Choice	Total Admissions	%
Alcohol	12,391	25.09%
Barbiturates (Phenobarbital Secobarbital Pentobarb	5	0.01%
Benzodiazepine (Valium Librium Tranxene)	260	0.53%
Cocaine/Crack	5,173	10.48%
Heroin	7,237	14.66%
Inhalants (e.g., nitrites, Freon, glue, turpentine, paint thinner, rubbing		
alcohol, gasoline)	10	0.02%
Marijuana/Hashish (Cannibus)	11,549	23.39%
Methamphetamine (Ice)	2,402	4.86%
None (e.g client in remission)	54	0.11%
Non-Prescription Methadone	164	0.33%
Other (e.g., Diphenylhydantoin / Phenytoin, GHB/GBL, Ketamine)	94	0.19%
Other Amphetamines (Dextroamphetamine Dexedrine	151	0.31%
Other Hallucinogens (LSD MDA Psilocybin Mescaline)	29	0.06%
Other Opiates and Synthetics (Morphine Codeine Dil	6,128	12.41%
Other Sedatives or Hypnotics (Doriden Quaalude)	44	0.09%
Other Stimulants (e.g. caffeine)	62	0.13%
Other Tranquilizers (Thorazine Haldol)	6	0.01%
Over the counter drugs (e.g diet tablets cough syr	2	0.00%
PCP (Phencyclidine)	32	0.06%
Tobacco	70	0.14%
Unknown	3,519	7.13%
Total	49,382	

# Table 8

Due to the interest in our Veterans, Table 8 represents admission data by race, age, ethnicity and employment status.

Table 8 Veteran Data CDW FY2018 LME-MCO and TASC Admissions by Race, Veteran Status and Age

VETERAN	Race	00-17	18-22	23-24	25-34	35-44	45-54	<u>55-64</u>	65-74	<u>75+</u>	Total
Yes	Alaskan Native	1	0	0	0	0	3	2	0	0	6
Yes	American Indian Alaskan Native	1	3	2	10	4	10	5	0	0	35
Yes	Asian	1	0	1	3	3	3	0	0	1	12
Yes	Black	26	56	50	327	184	231	230	52	6	1,162
Yes	Multiracial	1	0	4	6	7	4	1	0	0	23
Yes	Other	3	10	10	40	15	10	4	2	0	94
Yes	Pacific Islander	1	1	0	0	0	0	0	0	0	2
Yes	Unknown	0	0	0	1	0	1	0	0	0	2
Yes	White	54	105	65	562	396	374	262	86	36	1,940
Veteran Tota	ıl	88	175	132	949	609	636	504	140	43	3,276
No	Alaskan Native	2	5	4	37	15	20	8	1	0	92
No	American Indian Alaskan Native	114	161	113	521	378	260	90	16	3	1,656
No	Asian	82	64	30	163	116	45	28	5	2	535
No	Black	3,889	3,719	2,171	10,158	6,124	5,248	2,920	446	54	34,729
No	Multiracial	197	112	61	264	123	53	18	2	3	833
No	Other	492	606	270	850	453	223	112	13	5	3,024
No	Pacific Islander	8	4	3	15	10	5	0	1	0	46
No	Unknown	33	12	12	34	31	22	16	2	1	40,915
No	White	5,970	6,110	3,559	21,986	14,993	10,088	5,079	894	266	68,945
Non-Veteran Total		10,787	10,793	6,223	34,028	22,243	15,964	8,271	1,380	334	110,023
Total		10,875	10,968	6,355	34,977	22,852	16,600	8,775	1,520	377	113,299

	CDW FY2018 LME-MCO and TASC Admissions by Ethnicity, Veteran Status and Age											
VETERAN	Ethnicity	00-17	18-22	23-24	25-34	35-44	45-54	55-64	65-74	<u>75+</u>	Total	
Yes	Hispanic Cuban	0	0	0	2	0	1	0	0	0	3	
Yes	Hispanic Mexican American	0	0	2	13	3	0	0	0	0	18	
Yes	Hispanic Other	2	4	0	4	10	4	2	0	1	27	
Yes	Hispanic Puerto Rican	0	1	2	6	4	3	0	0	0	16	
Yes	Not Hispanic Origin	86	170	128	924	592	628	502	140	42	3,212	
Yes	Unknown	0	0	0	0	0	0	0	0	0	0	
Veteran Tot	al	88	175	132	949	609	636	504	140	43	3,276	
No	Hispanic Cuban	11	16	5	25	19	4	6	2	1	89	
No	Hispanic Mexican American	349	268	117	300	141	65	26	5	1	1,272	
No	Hispanic Other	627	301	132	518	365	196	73	14	7	2,233	
No	Hispanic Puerto Rican	44	44	27	124	75	42	20	3	1	380	
No	Not Hispanic Origin	9,734	10,157	5,938	33,044	21,628	15,649	8,134	1,356	323	105,963	
No	Unknown	22	7	4	17	15	8	12	0	1	86	
Non-Veterai	n Total	10,787	10,793	6,223	34,028	22,243	15,964	8,271	1,380	334	110,023	
Total		10 975	10.069	6255	24.077	22.052	16 600	0 775	1.520	277	112 200	

1 otai		10,875	10,908	0,333	34,977	22,032	10,000	0,773	1,320	311	113,299
	CDW FY2018 LME-MCO and '	TASC A	dmission	s by En	nployme	nt, Veter	an Statu	s and A	.ge		
VETERAN	Employment	00-17	18-22	23-24	25-34	35-44	45-54	55-64	65-74	<u>75+</u>	Total
Yes	Armed Forces/National Guard	0	3	1	6	2	1	1	0	0	14
	Employed full time	1	45	41	284	154	117	49	3	0	694
	Employed part time	5	32	21	110		55	32	5	1	325
Yes	Not in work force homemaker	1	1	0	10	3	4	1	0	0	20
	Not in work force not available for work	1	0	4	58	51	77	133		5	360
	Not in work force retired	0	0	0	3	10	12	36	70	36	167
Yes	Not in work force student	79	13	2	20	4	3	2	1	0	124
Yes	Seasonal/Migrant Worker	1	0	0	1	0	1	1	0	0	4
Yes	Unemployed	0	81	62	447	312	359	242	28	1	1,532
Yes	Unknown	0	0	1	10	9	7	7	2	0	36
Veteran Tota		88	175	132	949	609	636	504	140	43	-, -
No	Armed Forces/National Guard	1	3	0	7	2	1	0	0	0	
	Employed full time	38	2,158	1,603	8,211	5,151	2,536	887	63	4	20,651
	Employed part time	101	1,617	830	- ,	2,191	1,397			3	10,707
	Not in work force homemaker	4	29	34	283	229	126	75	25	1	806
	Not in work force not available for work	461	238	148	1,101	1,296	1,682			42	6,682
	Not in work force retired	8	2	0	10	13	66		458	_	,
No	Not in work force student	9,663	1,526	190		_	43		5	2	12,059
No	Seasonal/Migrant Worker	3	6	6	35	28	28	13	_	1	121
No	Unemployed	446	5,037	3,336	19,480	12,907	9,897	4,798	477	57	56,435
No	Unknown	62	177	76	481	308	188	161	35	9	1,497
Non-Veteran	Total	10,787	10,793	6,223		22,243	15,964	8,271	1,380	334	
Total		10,875	10,968	6,355	34,977	22,852	16,600	8,775	1,520	377	113,299