

# **Emergency Mobile Psychiatric Services (EMPS)** Performance Improvement Center (PIC)

**Monthly Report: March 2011** 











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## **Executive Summary**

<u>Call and Episode Volume</u>: In March 2011, **211 received 1358 calls** including 1059 calls (78%) routed to EMPS providers and 299 calls (22%) handled by 211 (e.g., calls for other information or resources, calls transferred to 911). The percent distribution of calls routed to EMPS providers and those handled by 211 remains fairly consistent from month to month.

Among the **1059 episodes of care** generated in March, episode volume ranged from 130 episodes (Eastern service area) to 286 episodes (Hartford service area). The statewide average service reach per 1,000 children this month was 1.26, with service area rates ranging from 1.03 (Western) to 1.74 (Hartford) relative to their specific child populations. Additionally, the number of episodes generated relative to the number of children in poverty in each service area yielded a statewide average poverty service reach rate of 3.31 per 1,000 children in poverty, with service area rates ranging from 2.21 (Southwestern) to 5.11 (Eastern).

<u>Mobility</u>: Statewide mobility was 92% this month, which is up from January (85.7%) and February (89.9%) and in line with the last few months of 2010 where the statewide mobility percentage was near or exceeding the 90% goal. The lowest mobility percentage was 88.5% (New Haven) and the highest was 97.3% (Western). There was some variability in mobility percentages among individual providers (81% to 100%).

Response Time: Statewide, this month 86% of mobile episodes received a Face-to-face response in 45 minutes or less, which is 25% higher than it was a year ago in March of 2010 (61%). Performance on this indicator ranged from 75% (Western) to 99% (Eastern). In addition, the statewide median mobile response time this month was 29 minutes, with all six service areas demonstrating a median mobile response time of 31 minutes or less. These data strongly suggest that EMPS service providers are offering timely responses to crises in the community.

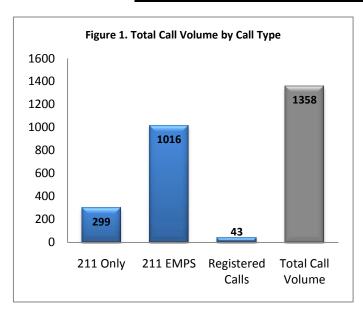
<u>Length of Stay</u>: Statewide, among discharged episodes, 9% (current month) and 9% (cumulative) of Phone Only episodes exceeded one day, 25% (current month) and 29% (cumulative) of Face-to-face episodes exceeded five days, and 5% (current month) and 12% (cumulative) of Plus Stabilization Follow-up episodes exceeded 45 days.

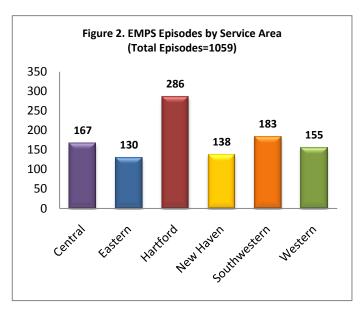
Statewide, the median LOS for open episodes of care with a Crisis Response of Phone Only was 31 days (n=15) and ranged from 13 days (Central) to 107 days (Southwestern). Statewide, the median LOS for a Crisis Response of Face-to-face was 14 days (n=105) and ranged from 8.5 days (Western) to 71 days (New Haven). For the Plus Stabilization Follow-up Crisis Response, the statewide median LOS was 14 days (n=270) with a range from 9 days (Western) to 17 days (Central and Southwestern). This tells us that families remain open for services beyond the benchmarks for some crisis response categories, but particularly among cases initially coded as phone only. Cases that remain open for services for long periods of time can impact responsiveness as call volume continues to increase, and can compromise accurate and timely data entry practices.

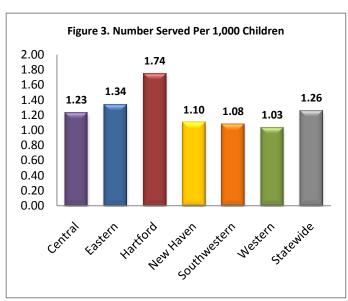
<u>Data Quality Monitoring</u>: The Worker version of the Ohio Scales was completed more consistently than the Parent version. This month statewide completion rates for intake Ohio Scales were: Worker Problem Scale (92%), Parent Problem Scale (71%), Worker Functioning Scale (92%), and Parent Functioning Scale (70%). The statewide completion rate for discharge Ohio Scales this month were: Worker Problem Scale (85%), Parent Problem Scale (38%), Worker Functioning Scale (85%), and Parent Functioning Scale (38%).

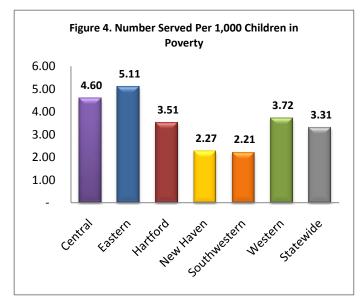
<u>Community Outreach</u>: Formal provider outreach to the community varied this month with a range of 1 (Wheeler-Hartford and Wheeler-Meriden) to 8 (Child Guidance of Bridgeport) total outreaches.

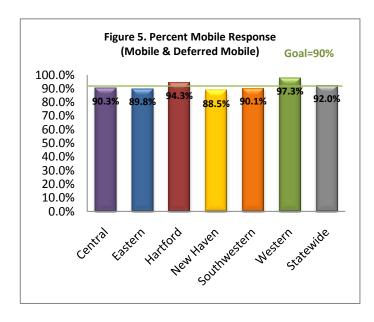
# **Section I: Primary EMPS Performance Indicators**

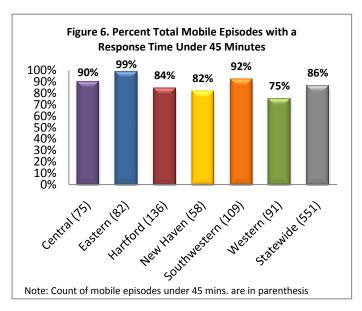




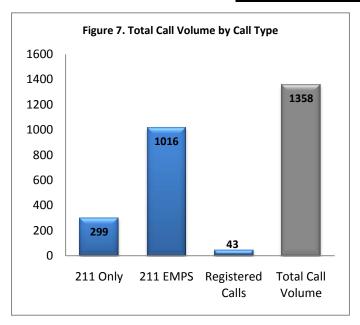


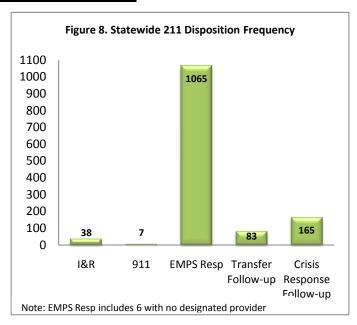


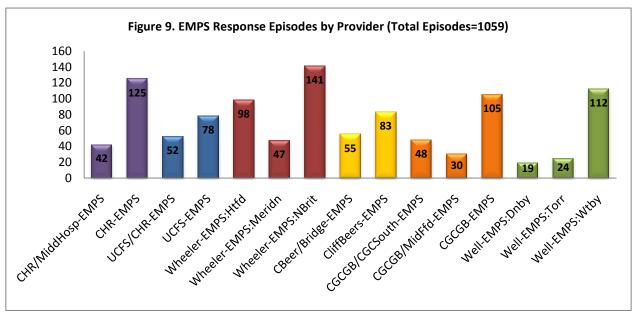


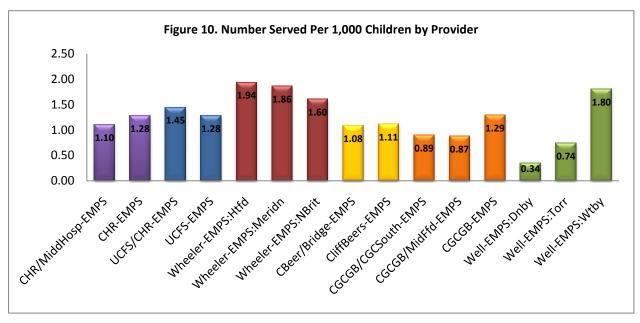


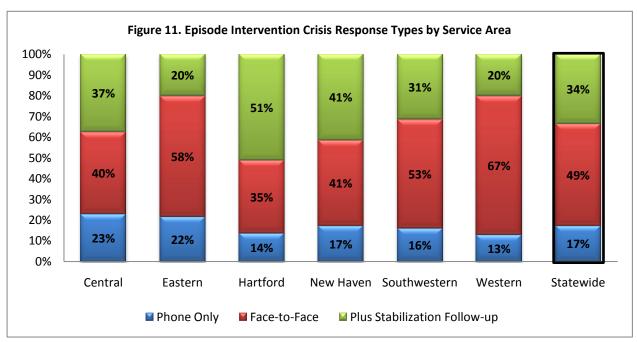
# **Section II: Episode Volume**

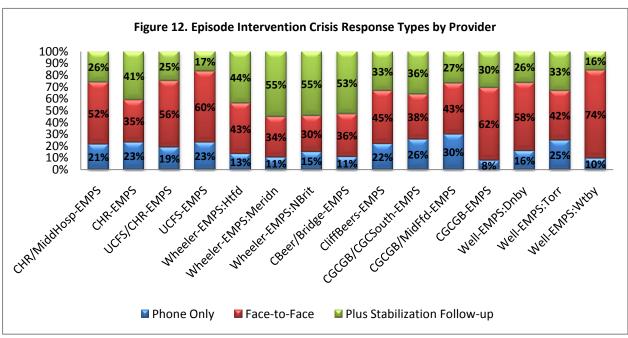




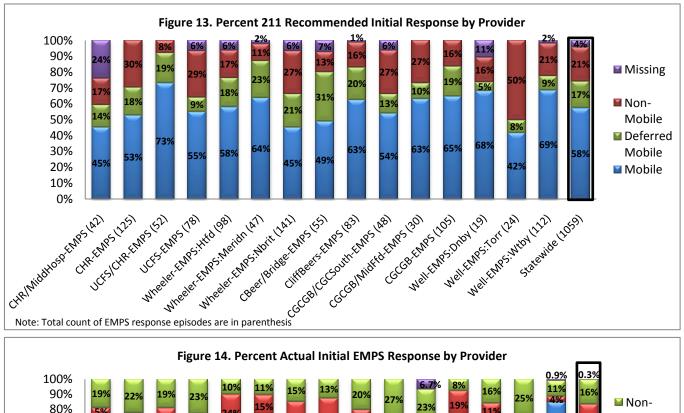


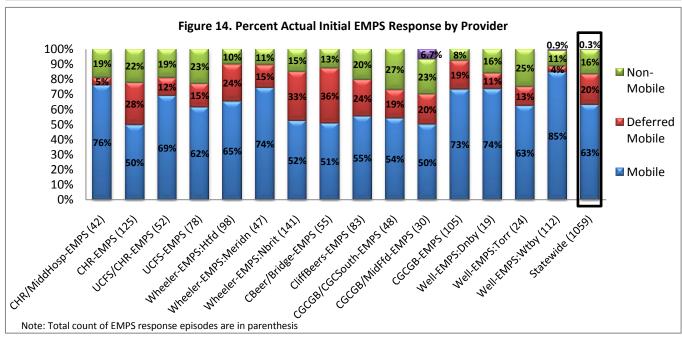


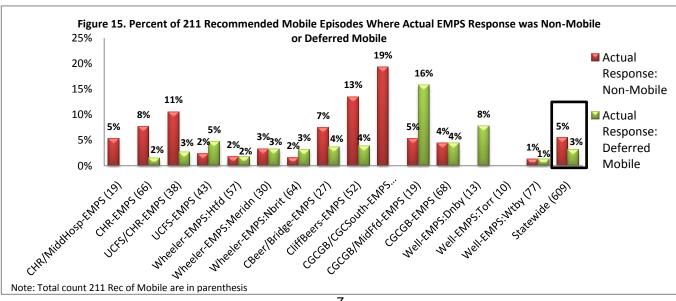


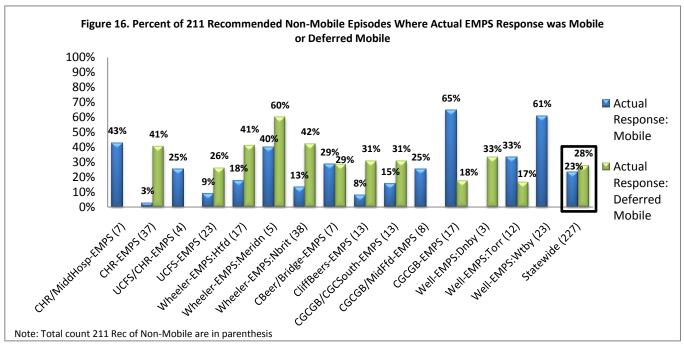


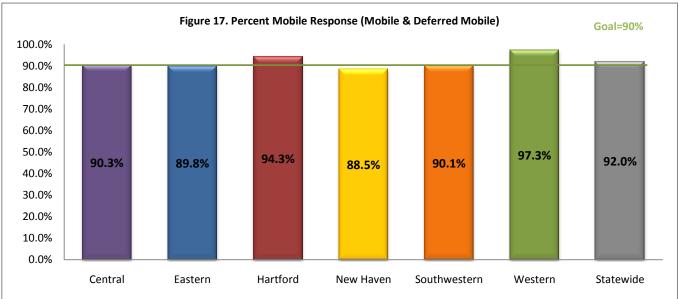
## **Section III: 211 Recommendations and EMPS Response**

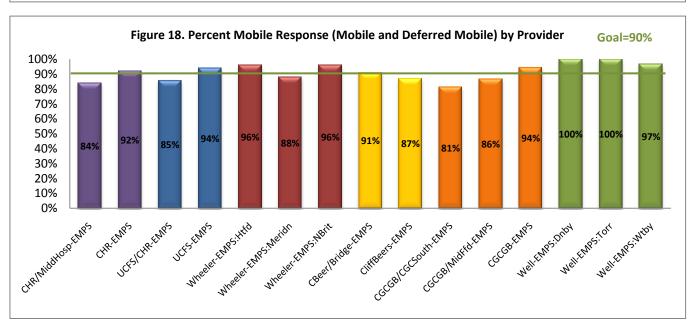




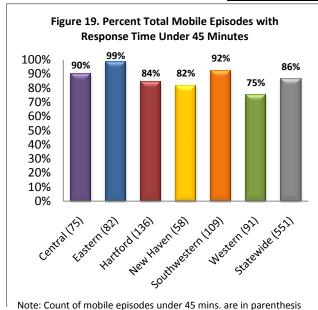


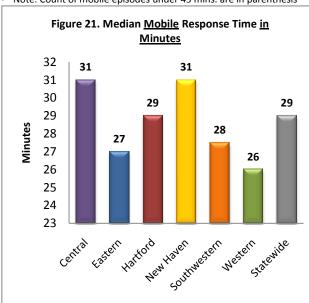


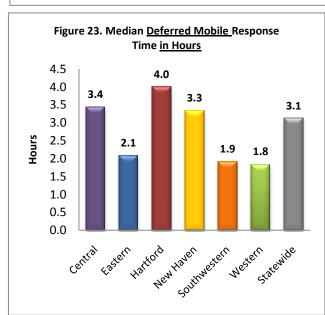


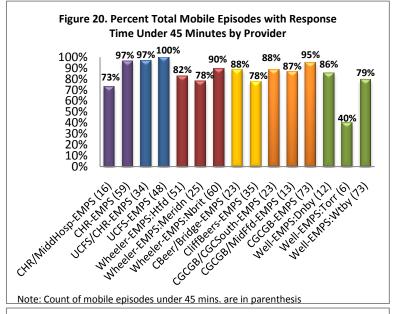


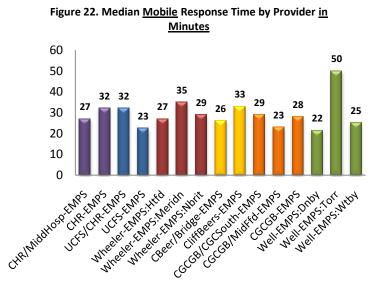
## **Section IV: Response Time**

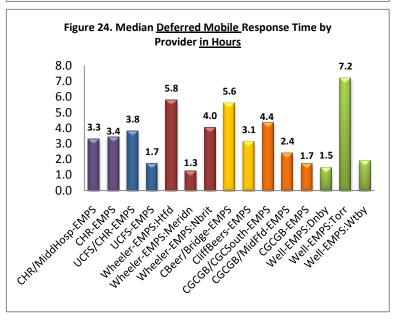




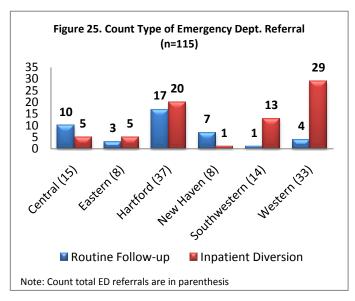


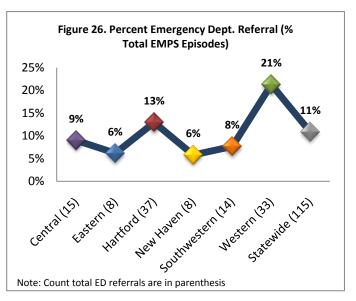


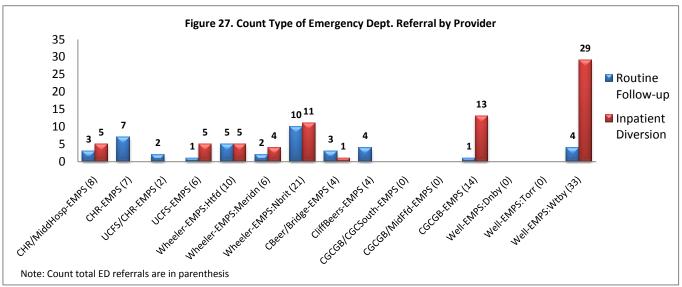


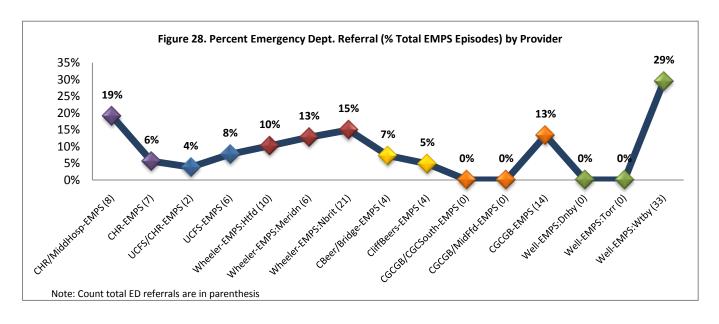


# **Section V: Emergency Department Referral Type**









# **Section VI: Length of Stay**

Table 1. Length of Stay for <u>Discharged Episodes</u> of Care in Days

		D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R				
		Discharged Episodes for Current Reporting Period										Cumulative Discharged Episodes*								
			Mean		N	∕ledian		Percent			Mean			Median			Percent			
		LOS: Phone	LOS: FTF	LOS: Stab.	LOS: Phone		LOS: Stab.	Phone > 1	FTF > 5	> 5 Stab. > 45		LOS: FTF	LOS: Stab.	LOS: Phone	LOS: FTF	LOS: Stab.	Phone > 1	FTF > 5	Stab. > 45	
1	STATEWIDE	0.6	5.7	23.4	0	1.0	18.0	9%	25%	5%	0.8	6.9	27.5	0	2.0	23.0	9%	29%	12%	
2	Central	0.6	6.7	30.2	0	1.0	27.0	8%	23%	11%	0.9	10.7	33.1	0	3.0	26.0	9%	41%	19%	
3	CHR/MiddHosp-EMPS	0.6	0.0	15.8	0	2.0	14.5	10%	13%	0%	1.5	2.1	6.3	0	1.0	6.0	15%	13%	1%	
4	CHR-EMPS	0.5	7.8	31.7	0	1.0	28.0	7%	25%	12%	0.6	18.1	37.0	0	9.0	29.0	6%	64%	22%	
5	Eastern	0.3	6.1	18.5	0	1.0	16.0	7%	27%	0%	0.2	2.4	22.7	0	1.0	21.0	4%	4%	2%	
6	UCFS/CHR-EMPS	0.7	6.1	22.3	0	2.0	22.5	17%	23%	0%	0.1	2.3	22.9	0	0.0	21.0	3%	7%	2%	
7	UCFS-EMPS	0.1	6.2	16.0	0	1.0	15.0	0%	30%	0%	0.2	2.4	22.3	0	2.0	21.0	4%	2%	1%	
8	Hartford	0.4	6.2	23.8	0	1.0	21.0	8%	26%	5%	1.0	6.1	27.1	0	3.0	22.0	15%	30%	13%	
9	Wheeler-EMPS:Htfd	0.3	5.4	21.2	0	2.0	19.0	4%	22%	3%	1.5	5.9	25.4	0	3.0	22.0	20%	31%	9%	
10	Wheeler-EMPS:Meridn	0.0	7.4	25.9	0	1.0	26.0	0%	36%	6%	1.4	4.8	23.9	0	2.0	20.0	24%	26%	8%	
11	Wheeler-EMPS:NBrit	0.6	6.7	24.8	0	1.0	22.0	15%	27%	6%	0.3	6.6	29.2	0	3.0	25.0	5%	29%	17%	
12	New Haven	0.9	4.5	21.0	0	1.0	17.0	19%	21%	4%	1.0	8.2	26.1	0	3.0	25.0	6%	40%	7%	
13	CBeer/Bridge-EMPS	1.3	4.8	18.2	1	0.0	13.0	25%	16%	0%	3.2	4.3	25.4	0	0.0	27.0	14%	18%	2%	
14	CliffBeers-EMPS	0.8	4.4	22.6	0	1.0	20.5	17%	23%	6%	0.7	9.9	26.9	0	6.0	21.0	5%	50%	13%	
15	Southwestern	1.4	5.3	21.7	0	1.0	19.0	18%	29%	2%	0.9	8.4	29.0	0	1.0	29.0	12%	32%	13%	
16	CGCGB/CGCSouth-EMPS	2.8	1.7	22.0	0	0.5	18.0	30%	14%	0%	0.4	6.6	39.2	0	0.0	40.0	4%	15%	34%	
17	CGCGB/MidFfd-EMPS	3.5	4.5	16.0	4	2.0	18.0	100%	38%	0%	0.7	3.1	21.4	0	1.0	15.5	14%	14%	13%	
18	CGCGB-EMPS	0.2	6.5	23.4	0	1.0	20.5	0%	30%	5%	1.7	10.0	27.1	0	3.0	29.0	19%	41%	3%	
19	Western	0.1	4.7	16.5	0	1.0	16.0	3%	21%	0%	0.5	5.8	22.8	0	1.0	21.0	4%	26%	6%	
20	Well-EMPS:Dnby	0.0	6.4	10.0	0	1.0	10.0	0%	20%	0%	0.4	5.5	15.6	0	0.0	14.0	2%	25%	2%	
21	Well-EMPS:Torr	0.2	4.4	17.0	0		18.0	0%	22%	0%	0.2	8.4	19.6				4%	48%	3%	
22	Well-EMPS:Wtby	0.2	4.5	16.6	0	1.0	15.0	4%	21%	0%	0.7	5.4	26.4	0	0.0	27.0	4%	24%	9%	

<sup>\*</sup> Includes discharged episodes from January 1, 2010 to the end of the current reporting period.

Note: Blank cells indicate no data was available for that particular inclusion criteria

#### **Definitions:**

LOS: Phone Length of Stay in Days for Phone Only
LOS: FTF Length of Stay in Days for Face To Face Only

LOS: Stab. Length of Stay in Days for Stabilization Plus Follow-up Only

Phone > 1 Percent of episodes that are phone only that are greater than 1 day
FTF > 5 Percent of episodes that are face to face that are greater than 5 days

Stab. > 45 Percent of episodes that are stabilization plus follow-up that are greater than 45 days

Table 2. Number of Episodes for <u>Discharged Episodes</u> of Care

Γ			В	С	D	E	F	G	Н	ı	J	K	L			
		Discha	rged Epi	sodes fo	r Currer	it Repoi	rtıng									
				Perio	od			Cumulative Discharged Episodes*								
		N used	N used Mean/Median N used for Percei						d Mean/N	⁄ledian	N used for Percent					
		LOS: Phone	LOS: FTF	LOS: Stab.	Phone > 1	FTF > 5	Stab. > 45	LOS: Phone	LOS: FTF	LOS: Stab.	Phone > 1	FTF > 5	Stab. > 45			
1	STATEWIDE	170	441	285	16	109	14	2235	4725	3926	195	1375	456			
2	Central	25	70	63	2	16	7	393	564	649	36	229	126			
3	CHR/MiddHosp-EMPS	10	15	6	1	2	0	127	261	82	19	34	1			
4	CHR-EMPS	15	55	57	1	14	7	266	303	567	17	195	125			
5	Eastern	15	33	15	1	9	0	254	554	438	9	22	7			
6	UCFS/CHR-EMPS	6	13	6	1	3	0	77	193	256	2	13	6			
7	UCFS-EMPS	9	20	9	0	6	0	177	361	182	7	9	1			
8	Hartford	50	131	99	4	34	5	516	1062	1545	77	314	203			
9	Wheeler-EMPS:Htfd	23	58	32	1	13	1	228	521	455	46	162	39			
10	Wheeler-EMPS:Meridn	7	14	16	0	5	1	82	115	265	20	30	22			
11	Wheeler-EMPS:NBrit	20	59	51	3	16	3	206	426	825	11	122	142			
12	New Haven	16	58	25	3	12	1	359	572	446	22	230	30			
13	CBeer/Bridge-EMPS	4	19	9	1	3	0	44	175	239	6	31	4			
14	CliffBeers-EMPS	12	39	16	2	9	1	315	397	207	16	199	26			
15	Southwestern	28	83	44	5	24	1	283	957	565	34	311	72			
16	CGCGB/CGCSouth-EMPS	10	14	17	3	2	0	112	203	143	5	31	48			
17	CGCGB/MidFfd-EMPS	2	16	7	2	6	0	69	118	114	10	17	15			
18	CGCGB-EMPS	16	53	20	0	16	1	102	636	308	19	263	9			
19	Western	36	66	39	1	14	0	430	1016	283	17	269	18			
20	Well-EMPS:Dnby	6	5	1	0	1	0	94	119	50	2	30	1			
21	Well-EMPS:Torr	5	9	7	0	2	0	90	109	70	4	52	2			
22	Well-EMPS:Wtby	25	52	31	1	11	0	246	788	163	11	187	15			

<sup>\*</sup> Includes discharged episodes from January 1, 2010 to the end of the current reporting period.

Note: Blank cells indicate no data was available for that particular inclusion criteria

#### **Definitions:**

LOS: Phone Length of Stay in Days for Phone Only
LOS: FTF Length of Stay in Days for Face To Face Only

LOS: Stab. Length of Stay in Days for Stabilization Plus Follow-up Only

Phone > 1 Percent of episodes that are phone only that are greater than 1 day
FTF > 5 Percent of episodes that are face to face that are greater than 5 days

Stab. > 45 Percent of episodes that are stabilization plus follow-up that are greater than 45 days

Table 3. Length of Stay for Open Episodes of Care in Days

		Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0			
		Episodes Still in Care*										N of Episodes Still in Care*							
			Mean		N	∕ledian			Percent		N used	N use	Percent						
		LOS: Phone	LOS: FTF	LOS: Stab.	LOS: Phone	LOS: FTF	LOS: Stab.	Phone > 1	FTF > 5	Stab. > 45	LOS: Phone	LOS: FTF	LOS: Stab.	Phone > 1	FTF > 5	Stab. > 45			
1	STATEWIDE	84.5	42.9	24.7	31.0	14.0	14.0	100%	74%	8%	15	105	270	15	78	21			
2	Central	13.0	37.0	18.8	13.0	9.0	17.0	100%	73%	4%	2	15	49	2	11	2			
3	CHR/MiddHosp-EMPS		127.7	16.5		20.0	16.5		100%	0%	0	3	2	0	3	0			
4	CHR-EMPS	13.0	14.3	18.9	13.0	7.5	17.0	100%	67%	4%	2	12	47	2	8	2			
5	Eastern		11.0	16.2		11.0	14.0		100%	0%	0	1	6	0	1	0			
6	UCFS/CHR-EMPS			11.0			11.0			0%	0	0	1	0	0	0			
7	UCFS-EMPS		11.0	17.2		11.0	15.0		100%	0%	0	1	5	0	1	0			
8	Hartford	16.0	13.1	12.4	16.0	10.0	10.0	100%	72%	1%	2	25	97	2	18	1			
9	Wheeler-EMPS:Htfd	16.0	14.0	14.7	16.0	9.5	15.0	100%	67%	0%	2	12	33	2	8	0			
10	Wheeler-EMPS:Meridn		8.3	9.7		8.0	9.0		67%	0%	0	3	17	0	2	0			
11	Wheeler-EMPS:NBrit		13.4	11.8		12.0	8.0		80%	2%	0	10	47	0	8	1			
12	New Haven	135.1	104.3	32.5	70.0	71.0	14.5	100%	88%	11%	7	25	44	7	22	5			
13	CBeer/Bridge-EMPS	205.0	139.8	34.3	215.0	114.5	10.5	100%	79%	12%	4	14	26	4	11	3			
14	CliffBeers-EMPS	42.0	59.1	29.7	31.0	47.0	15.0	100%	100%	11%	3	11	18	3	11	2			
15	Southwestern	75.7	33.3	47.6	107.0	13.0	17.0	100%	64%	21%	3	25	61	3	16	13			
16	CGCGB/CGCSouth-EMPS	75.7	121.2	72.6	107.0	56.0	29.0	100%	100%	36%	3	5	36	3	5	13			
17	CGCGB/MidFfd-EMPS		22.0	8.5		22.0	8.5		100%	0%	0	1	2	0	1	0			
18	CGCGB-EMPS		10.7	11.7		6.0	8.0		53%	0%	0	19	23	0	10	0			
19	Western	37.0	12.0	9.6	37.0	8.5	9.0	100%	71%	0%	1	14	13	1	10	0			
20	Well-EMPS:Dnby		9.0	7.0		9.0	7.0		100%	0%	0	1	2	0	1	0			
21	Well-EMPS:Torr	37.0		10.3	37.0		7.0	100%		0%	1	0	3	1	0	0			
22	Well-EMPS:Wtby			10.0		8.0	10.0		69%	0%	0	13	8	0	9	0			

<sup>\*</sup> Includes episodes still in care from January 1, 2010 to end of current reporting period.

Note: Blank cells indicate no data was available for that particular inclusion criteria

#### **Definitions:**

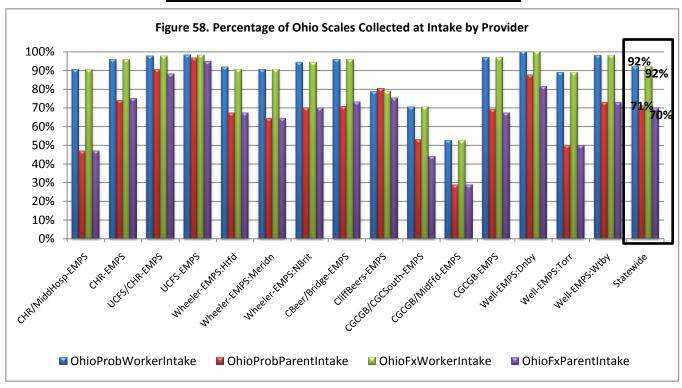
LOS: Phone Length of Stay in Days for Phone Only
LOS: FTF Length of Stay in Days for Face To Face Only

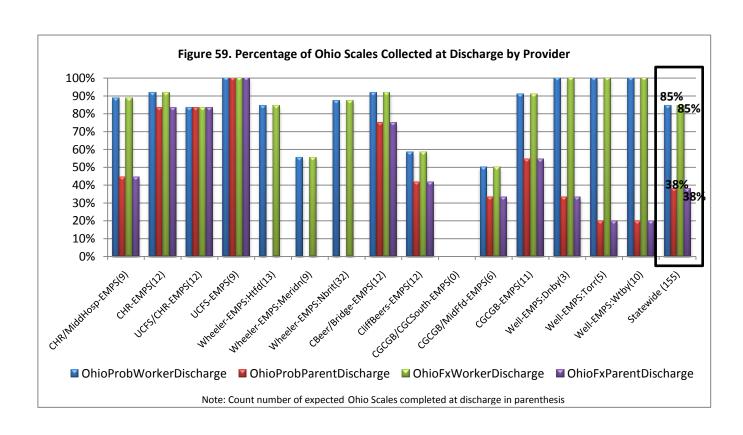
LOS: Stab. Length of Stay in Days for Stabilization Plus Follow-up Only

Phone > 1 Percent of episodes that are phone only that are greater than 1 day
FTF > 5 Percent of episodes that are face to face that are greater than 5 days

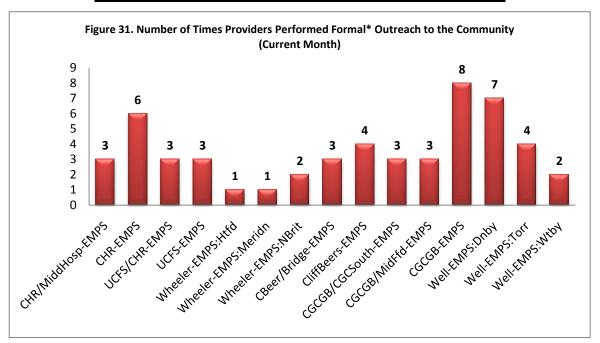
Stab. > 45 Percent of episodes that are stabilization plus follow-up that are greater than 45 days

# **Section XI: Data Quality Monitoring**





# **Section VIII: Community Outreach Efforts**



<sup>\*</sup> Formal outreach refers to: 1) In person presentations lasting 30 minutes, preferably more, using the EMPS PowerPoint slides and including distribution to attendees of marketing materials and other EMPS resources; 2) Outreach presentations that are in person that include workshops, conferences, or similar gatherings in which EMPS is discussed for at least an hour or more; 3) Outreach presentations that are not in person which may include workshops, conferences, or similar gatherings in which the EMPS marketing video, banner, and table skirt are set up for at least 2 hours with marketing materials made available to those who would like them; 4) The EMPS PIC considers other outreaches for inclusion on a case-by-case basis, as requested by EMPS providers.

### **Appendix A: Description of Calculations**

#### Section I: Primary EMPS Performance Indicators

- Figure 1 tabulates the total number of calls by service area by 211-only, 211-EMPS, or registered calls.
- Figure 2 calculates the total number of EMPS episodes for the specified time frame for the designated service area.
- Figure 3 shows the number of children served by EMPS per 1,000 children. This is calculated by summing the total number of episodes for the specified service area multiplied by 1,000; this result is then divided by the total number of youth in that particular service area as reported by U.S. Census data.
- Figure 4 determines the number of children served by EMPS that are TANF eligible out of the total number of children in that service area that are eligible for free or reduced lunch<sup>1</sup>. This is calculated by selecting only those episodes that are coded as face-to-face or crisis response stabilization plus follow-up divided by the total number of youth receiving free or reduced lunch<sup>1</sup> in that service area.
- Figure 5 isolates the total number of episodes that 211 recommended as mobile or deferred mobile. This number of episodes is then divided by the total number of episodes where the actual EMPS response was either mobile or deferred mobile. Multiply that result by 100 to get the percentage.
- Figure 6 isolates the total number of episodes with an actual EMPS response of mobile and a response time less than 45 minutes divided by the total number of episodes with an actual EMPS response of mobile (response time is calculated by subtracting the First Contact Date Time from the Call Date Time. In this calculation, 10 minutes is subtracted from the original response time to account for the average 211 call).

#### Section II: Episode Volume

- Figure 7 tabulates the total number of calls by service area by 211-Only, 211-EMPS or Registered Calls.
- Figure 8 shows the 211 disposition of all calls received.
- Figure 9 shows the 211 disposition of EMPS response categorized by provider.
- Figure 10 shows the number served per 1,000 children by provider, calculated the same as Figure 3.
- Figure 11 is a stacked bar chart that represents the percent of episodes that are coded as either a phone only, face-to-face, or plus stabilization follow-up crisis response. Each percentage is calculated by counting the number of episodes in the respective category (i.e., phone only) divided by the total number of episodes coded for crisis response for that specified service area.
- Figure 12 calculates the same percentage as Figure 11 and is shown by provider.

### Section III: 211 Recommendations and EMPS Response

- Figure 13 shows the percentage of the 211 recommended responses (i.e. mobile, deferred mobile, non-mobile) for all EMPS Responses by provider. Calculated by taking the count of the 211 Recommended Response Mode (i.e. mobile, deferred mobile, non-mobile) divided by the total count of episodes with a 211 disposition of EMPS Response then multiply that by 100 to get the percentage.
- Figure 14 shows a percentage of the actual EMPS response mode (i.e., mobile, deferred mobile, non-mobile) for the total EMPS Response episodes by provider. Calculated by taking the count of the actual EMPS Response Mode (i.e. mobile, deferred mobile, non-mobile) divided by the total count of episodes with a 211 disposition of EMPS Response then multiply that by 100 to get the percentage.
- Calculation for Figure 15: Count 211 recommended mobile where actual response was non-mobile (separately for deferred mobile) divided by total count of 211 recommended mobile, multiply that number by 100 to get the percentage.
- Calculation for Figure 16: Count 211 recommended non-mobile where actual response was mobile (separately for deferred mobile) divided by total count of 211 recommended non-mobile, multiply that number by 100 to get the percentage.
- Figure 17 is the same graph as Figure 5.
- Figure 18 uses the same calculation as Figure 5.
- <sup>1</sup> United States Department of Agriculture, Food and Nutrition Service, "*Eligibility Manual for School Meals, January 2008*", <a href="http://www.fns.usda.gov/cnd/Lunch/">http://www.fns.usda.gov/cnd/Lunch/</a>.

#### Section IV: Response Time

- Figure 19 is the same graph as shown in Figure 6.
- Figure 20 uses the same calculation as Figures 6 & 19 and is shown by provider.
- Figure 21 arranges response times for episodes coded as EMPS response mode-mobile in ascending order by service area and shows the response time in the middle.
- Figure 22 uses the same calculation as Figure 21 and is categorized by provider.
- Figure 23 arranges response times for episodes coded as EMPS response mode-deferred mobile in ascending order by service area and shows the response time in the middle.
- Figure 24 uses the same calculation as Figure 23 and is categorized by provider.

#### Section V: Emergency Department Referral Type

- Figure 25 shows the number of ED referrals (i.e. routine follow-up or in-patient diversion) by service area.
- Figure 26 is calculated by taking the count of ED referrals for the specified service area divided by total number of EMPS response episodes for that service area and multiplying that number by 100 to get the percentage.
- Figures 27 and 28 use the same calculations as Figures 25 and 26 respectively, and are shown by provider.

#### Section VI: Length of Stay

- Table 1 shows the mean, median, and percentage of episodes exceeding the LOS benchmarks, statewide, by service area, and by provider. Discharged episodes are broken into the various Crisis Response categories (Phone Only, Face-to-face and Plus Stabilization Follow-up) for two separate periods of time: 1) the current reporting period and 2) cumulatively since January 1, 2010.
- Table 2 shows the total number of episodes used to calculate the mean, median and percent in Table 1.
- Table 3 shows the same Crisis Response categories for episodes still in care as of January 1, 2010 to the end of current reporting period. To calculate length of stay data, an episode end date is needed. The episodes still in care do not have episode end dates at the time the data is download. Therefore, an episode end date equal to the last day of the current reporting period was used to calculate length of stay.

### Section VII: Data Quality Monitoring

- Figure 29 calculates the percent of Ohio <u>intake</u> scales by dividing actual over expected. The numerator is calculated by counting the number of Ohio <u>intake</u> scales for those episodes coded as crisis response face-to-face OR plus stabilization follow-up AND an actual EMPS response of mobile OR deferred mobile. This is divided by the total number of expected Ohio <u>intake</u> scales which is calculated by counting the total number of episodes coded as crisis response face-to-face OR plus stabilization follow-up AND episodes coded with an actual EMPS response of mobile OR deferred mobile.
- Figure 30 calculates the percent of Ohio <u>discharge</u> scales by dividing actual over expected. The numerator is calculated by counting the number of Ohio <u>discharge</u> scales for those episodes coded as crisis response plus stabilization follow-up AND an actual EMPS response mode of mobile OR deferred mobile AND has an episode end date. This is divided by the total number of expected Ohio <u>discharge</u> scales which is calculated by counting the total number of episodes that are coded as crisis response plus stabilization follow-up AND

### Section VIII: Provider Community Outreach

• Figure 31 shows a count of the number of times a provider performed formal community outreach during the current month.