
PINELLAS DATA COLLABORATIVE MEMORANDUM

TO: ALL MEMBERS OF PINELLAS COUNTY DATA COLLABORATIVE,
FLORIDA

FROM: UNIVERSITY OF SOUTH FLORIDA / FLORIDA MENTAL HEALTH
INSTITUTE / POLICY SERVICES RESEARCH DATA CENTER

SUBJECT: REQUEST BY JUVENILE WELFARE BOARD / STARR SILVER

DATE: 11/28/2007

CC:

Request:

JWB – Starr Silver’s Request: A 2nd question---we are trying to get a sense of the need for substance use services by zip code in Pinellas County. Do you have data on the # of kids (under 18) who received treatment for substance use (residential and/or outpatient) by zip code of residence?

Notification E-mail sent 8/27/07

Everyone,

This is a notification of an Adhoc request for the following question posed by JWB: What is the number of individuals under the age 18 who have received treatment for substance abuse by zip code. This Request will look at the following systems data sets: EMS, DHH, Medicaid and IDS (Statewide Mental Health and Substance Abuse reporting system, DCF), using age, residency, diagnosis code to identify the sample over the fiscal year 2005-2006 (7/1/2005 through 6/30/2006).

If you have no problem with this request please respond asap. If there is not response within 10 days of this e-mail the lack of response will be approval to go ahead with the request.

Summary:

This question was answered in 2 parts. Part I, identified the number of individuals under the age of 18 with a substance abuse diagnosis residing in Pinellas County. It was found that 2,366 individuals under the age of 18, residing in Pinellas County had received at least one diagnosis of substance abuse (93% were identified in the Florida Statewide Mental Health and Substance Abuse Reporting System (IDS); 7% were identified in

Medicaid (AHCA) claims system; 3% were identified in the Pinellas County EMS systems, 2% were identified in more than one system).

303.00 Alcohol Dependence	7.73%
304.00 Drug Dependence	21.60%
305.00 Non-Dependent Drug Abuse	79.29%

What was not expected was the low Alcohol Dependence diagnosis. An explanation could be that rather than give a dependence diagnosis at all, as a minor you are more than likely given a non Dependence Drug abuse diagnosis and that this diagnosis can be for drug and/or alcohol non-dependence.

It was also identified that 235 (10%) were dual diagnoses with a severe mental health diagnosis (Episodic Mood Disorders, 87%; Schizophrenic Disorders, 15%, Other Non-organic Psychoses, 2%, and Delusional Disorders, <1%) . Of those 34 with a diagnosis with Schizophrenic disorders, 9 (26%) also had at least one Episodic Mood Disorder.

Part II, used only the Statewide Mental Health and Substance Abuse reporting data (IDS) and for the period of 7/1/2004 through 6/30/2005, for purposes of report zip code. The number of individuals identified in one zip code ranged from 1 to 108, the average being 34 and 22 zip codes having over the average. It is recommended that further comparison of the distribution of the sample identified compared to the distribution of the population of individuals under 18 by zip code would be helpful to examine if the pattern is due to the normal population density and/or distribution or potentially some other economic and/or social factors.

Method:

The 4 data systems used had a diagnosis code to identify Substance Abuse (EMS, IDS, DHH, and Medicaid). The Diagnosis codes of 303- Alcohol Dependence, 304 – Drug Dependence, and 305 – Non Dependence Drug Abuse were used to identify Substance Abuse. The residency of Pinellas County was assumed in EMS as there is no residency status or zip code; Medicaid there is a county of residency. In IDS there is a county where services were provided and resident zip code; and DSS has client city and zip of residency. The age of the individual at time of service was calculated using the date of birth and the date of service. A matching process was used to identify 56 individuals who were identified in more than one of the systems.

Findings:

SA diagnosis, reside in Pinellas County and Under the age of 18 at time of service	EMS	61	
	MED	162	
	IDS	2,199	
	Total	2,366	56 overlap

Note: DSS: No individuals were identified under the age of 18 with a diagnosis of substance abuse.

See Appendix A: breakdown of demographic/non-demographic indicators by data system.

Results:

Part I:

Identification of Substance abuse In the following systems

Dates used to pull data: 07/01/2005 through 06/30/2006 (most recent data available)

Over all in the fiscal year of 0506 (7/1/05 through 6/30/06), 2,366 individuals were identified who resided in Pinellas county, were under the age of 18 at the time of services/interaction with either or all EMS, Medicaid, and IDS (Statewide Mental Health and Substance Abuse Reporting System). The majority of the individuals were identified in the IDS system, and there was some but only a small amount of overlap of individuals across systems (72 individuals).

The breakdown of gender and age is as follows:

Under 18		
	#	%
Male	990	65.13%
Female	530	34.87%
Unknown	846	
	Under 10	88
	10	13
	11	19
	12	42
	13	120
	14	266
	15	474
	16	614
	17	730
303 - Alcohol Dependence	183	7.73%
304 - Drug Dependence	511	21.60%
305 - Non Dependence Drug Abuse	1,876	79.29%

What was not expected was the low Alcohol Dependence diagnosis. An explanation could be that rather than give a dependence diagnosis at all, you are more than likely given a non Dependence Drug abuse diagnosis and that this diagnosis can be for drug and/or alcohol non-dependence.

The number of individuals under the age of 18 with a diagnosis of Substance abuse was found to be 2,366. Of those diagnoses with Substance Abuse, 235 (10%) also had a severe mental health diagnosis. Severe mental health diagnosis was identified with at least one diagnosis of one of the following: 295 – Schizophrenic Disorders; 196 – Episodic Mood Disorders (Depression); 297 – Delusional Disorders; and/or 298 – Other Non-organic Psychoses.

The breakdown of dual diagnosis is as follows: (N = 235)

295 - Schizophrenic Disorders	34
296 - Episodic Mood Disorders	204
297 - Delusional Disorders	2
298 - Other Non-organic Psychoses	5

Note: of those who had Schizophrenic Disorder, 9 also had at least one diagnosis of 296 – Episodic Mood Disorder. One individual who had a Episodic Mood disorder also had at least one diagnosis of 298 – Other Non-organic Psychoses.

Less than 1% of the population who are under the age of 18 in Pinellas County, Florida were identified with a substance abuse diagnosis (2005 U.S. Census data for 2005 (American Factfinder:

http://factfinder.census.gov/servlet/ACSSAFFacts?_event=Search&geo_id=&_geoContext=&_street=&_county=pinellas&_cityTown=pinellas&_state=04000US12&_zip=&_lang=en&_sse=on&pctxt=fph&pgsl=010)

Part II:

Issue/Problem/Concern: Zip code was not available for the majority of individuals during this time period. In attempts to still examine the question by zip code, another data pull was done on the previous year for the IDS system only (Dates used to pull data: 07/01/2004 through 06/30/2005) where zip code was available. IDS was used as it identified 93% of the population. In this fiscal year, 1,840 individuals were found to have residency in Pinellas, be under the age of 18 and have a substance abuse diagnosis. It can be assumed that this is an under estimation as other the other data systems were not used in the identification process due to time and resource constraints. The number of individuals identified in one zip code ranged from 1 to 108, the average being 34 and 22 counties having over the average. The count of individuals by zip code can be found in Appendix B:

Conclusions / Recommendations:

Further comparison of the distribution of the sample identified compared to the distribution of the population of individuals under 18 by zip code would be helpful to

examine if the pattern is due to the normal population density and/or distribution or potentially some other economic and/or social factors.

The limitations of report:

- Age of a small proportion of the individuals identified were under the age of 10 and it brings up a question of validity of age (error in date of birth) or the ability of diagnosis an individual at such a young age.
- The number of individuals identified by the identification process, as there may be other resources to identify individuals there were not available.
- Residency of Pinellas County: Even though most individuals who reside in Pinellas County are served in Pinellas County, a small portion may not have been actual residents of Pinellas County.
- This report is over only one year of data and does not say anything about previous or future years.

This report was generated in response to specific questions posed by member of the Pinellas Data Collaborative. It was created to inform administrative policy and program decisions that benefit the citizens of Pinellas County. Before reusing or citing findings in this report, please contact the Data Collaborative to ensure accurate understanding of the analyses and interpretation of the results. Questions should be directed to Diane Haynes at dhaynes@fmhi.usf.edu or 813-974-2056.

Appendix A:

**EMS does not have Race
 EMS only had diagnosis of 305 - drug non dep
 Diagnosis description has drug or alcohol
 Modified to 303 if alcohol and 305 if drug**

EMS

Under 18

	#	%
Male	36	59.02%
Female	25	40.98%
Unknown	0	0.00%

12	2	3.28%
13	3	4.92%
14	7	11.48%
15	7	11.48%
16	24	39.34%
17	17	27.70%
Unknown	1	1.64%

Diagnosis

303 - Alcohol Dependence	45	73.77%
304 - Drug Dependence	0	0.00%
305 - Non Dependence Drug Abuse	17	27.87%

Also found in IDS	12	19.67%
Also found in Medicaid	9	14.75%

Medicaid

Under 18

	#	%
Male	71	43.83%
Female	91	56.17%
Unknown	0	0.00%

12	1	0.62%
13	8	4.94%
14	21	12.96%
15	29	17.90%
16	39	24.07%
17	64	39.51%
Unknown	0	0.00%

Race

	White	100	65.36%
	Black	35	22.88%
	Oriental	1	0.65%
	Hispanic	5	3.27%
	Other	12	7.84%
	Missing	9	
303 - Alcohol Dependence		1	0.62%
304 - Drug Dependence		20	12.35%
305 - Non Dependence Drug Abuse		145	89.51%
Also found in IDS		38	23.46%
Also found in EMS		9	5.56%

IDS

Under 18

	#	%
Male	912	67.41%
Female	441	32.59%
Unknown	846	

Under 10	87	3.96%
10	13	0.59%
11	19	0.86%
12	40	1.82%
13	112	5.09%
14	253	11.51%
15	448	20.37%
16	566	25.74%
17	661	30.06%
Unknown	0	0.00%

Race

	White	902	67.31%
	Black	348	25.97%
	Asian	14	1.04%
	American Indian	1	0.07%
	Other	75	5.60%
	Missing	859	

Ethnicity

	Puerto Rican	33	2.53%
	Mexican	7	0.54%
	Cuban	3	0.23%
	Other Hispanic	36	2.76%
	None	1,225	93.94%
	Missing	895	

303 - Alcohol Dependence	140	6.37%
304 - Drug Dependence	496	22.56%
305 - Non Dependence Drug Abuse	1,744	79.31%
Also found in IDS	38	1.73%
Also found in EMS	12	0.55%

Appendix B:

Those under 18 years of age with Substance abuse
Diagnosis (303,304,305) in Pinellas using the IDS - Statewide
Mental Health and Substance Abuse reporting system for FY 2004. Note:
7% of the kids showed to be under 10 years of age
N = 1,840

ZIP CODE	NUMBER IND. UNDER 18 YOA	% of IND.	CUMULATIVE %
33712	108	5.87%	5.87%
33705	103	5.60%	11.47%
33711	101	5.49%	16.96%
33713	95	5.16%	22.12%
33781	95	5.16%	27.28%
33755	80	4.35%	31.63%
34698	67	3.64%	35.27%
33714	66	3.59%	38.86%
33710	64	3.48%	42.34%
33709	62	3.37%	45.71%
33702	60	3.26%	48.97%
33707	60	3.26%	52.23%
33782	57	3.10%	55.33%
34683	48	2.61%	57.93%
33756	47	2.55%	60.49%
33770	46	2.50%	62.99%
33760	41	2.23%	65.22%
33774	41	2.23%	67.45%
33701	40	2.17%	69.62%
33771	39	2.12%	71.74%
33777	36	1.96%	73.70%
34689	36	1.96%	75.65%
33773	34	1.85%	77.50%
33778	32	1.74%	79.24%
33759	31	1.68%	80.92%
33772	30	1.63%	82.55%
34695	28	1.52%	84.08%
33703	27	1.47%	85.54%
33704	27	1.47%	87.01%
34677	27	1.47%	88.48%
33764	25	1.36%	89.84%
33765	22	1.20%	91.03%
33776	21	1.14%	92.17%
33708	20	1.09%	93.26%
34685	20	1.09%	94.35%
33763	18	0.98%	95.33%
34684	18	0.98%	96.30%
33706	12	0.65%	96.96%
33761	12	0.65%	97.61%

33716	8	0.43%	98.04%
33785	7	0.38%	98.42%
33762	5	0.27%	98.70%
34688	5	0.27%	98.97%
34681	3	0.16%	99.13%
33715	2	0.11%	99.24%
33731	2	0.11%	99.35%
33733	2	0.11%	99.46%
33767	2	0.11%	99.57%
33775	2	0.11%	99.67%
33780	2	0.11%	99.78%
33740	1	0.05%	99.84%
33757	1	0.05%	99.89%
33769	1	0.05%	99.95%
33784	1	0.05%	100.00%
	1840		