

Serious and Persistent Mental Illness in Texas: County-Level Enrollee Characteristics of Medicaid-Supported SMI Care, Texas, 2012

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Through a collaborative effort with the Texas Institute for Health Care Quality and Efficiency and the Meadows Foundation, we have been able to receive and link state administrative data sets in order to examine characteristics of Medicaid-supported care for people with serious and persistent mental illness.

A more complete description of this project is available in our 2014 Interim Report and our 2015 Final Report for IHCQE/Meadows Foundation.

This report present a county-level descriptive set of characteristics for this Medicaid patient group for the 2012 fiscal year (FY). This has been achieved by linking four different administrative data sets obtained with the assistance of Texas HHSC.

This report includes descriptive data from adult Texas Medicaid enrollees who were identified in the Medicaid Claims and Encounters files as having at least one diagnosis of the “big three” mental illness diagnoses: major depression, schizophrenia, or bi-polar disorder. These data were linked with Texas Medicare data for the same time period in order to describe those who were “dual-enrollees,” enrolled in both Medicaid and Medicare. For these Medicaid enrollees with an SMI, we also noted who had 2012 experience with a local mental health authority (“LMHA”), and we noted who had at least one hospitalization noted in the state’s Texas Health Care Information Collection (“THCIC”).

The Texas county-level data in this report is in three tables. Each table includes the noted data separately for each Texas county. In the tables, counties are ordered by their total number of identified Medicaid patients with one or more of the SMI diagnoses. In order to protect confidentiality, any cell with fewer than 20 observations has been populated with an ‘*’[asterisk].

The list of ICD-9 diagnosis codes used for identifying Medicaid patients with one of the three SMI diagnoses are included in Appendix A. Appendix B includes the ICD-9 codes used for identifying our selected list of 13 comorbidities. Our Interim and Final reports for the IHCQE/Meadows Foundation include more complete details.

The time frame for our overall study was the FYs 2010-2012. Medicaid patients were included in these data for FY 2012 if they were enrolled in Medicaid in FY 2012, and were identified as having one of the three SMI diagnoses at any time during the 2010-2012 time frame.

Rural/urban designation is based on United States Office of Management and Budget 2013 “metropolitan/non-metropolitan” distinction noted by DSHS at this website: <http://www.dshs.state.tx.us/CHS/HPRC/counties.shtm>. Of the 254 Texas counties, 82 are urban and 172 are rural. In the Medicaid data set, there were 6,006 Medicaid enrollees with no identified county of residence. This included 760 Medicaid enrollees with one of our target SMI

diagnoses. In the analyses below, the analyses specific to rural/urban differences do not include these individuals.

The first table, Table 1, includes numbers of Medicaid enrollees, number of Medicaid enrollees with SMI diagnosis, and some county characteristics including rural/urban distinction, per U.S. Census. Table 2, includes demographic characteristics such as sex, race/ethnicity, and whether an individual is 65 years of age or older. Table 3 includes comorbidity data, and cross-system utilization information, including how many Medicaid enrollees with SMI are also in Medicare, how many had utilization with an LMHA, an in 2012, and how many had at least one hospitalization in 2012.

Table 1

Table 1 includes:

- the county rank by number of Medicaid-enrolled adults with SMI,
- the Medicaid FIPs code for the county,
- the county's Regional Health Partnership region,
- the county's Managed-Care Organization region,
- the county name,
- the county's urban-status indicator (0/1),
- the total number of Medicaid-enrolled adults,
- the total number of Medicaid-enrolled adults with an SMI, and
- the number of Medicaid enrollees with SMI, by diagnosis.

Summary: The majority of Medicaid-covered patients with SMI reside in populous counties; slightly more than half live in ten of the state's 254 counties, and 75 percent reside in just 32 of the state's 254 counties. The portion of adult Medicaid enrollees with an SMI diagnosis ranges from 5 percent 23 percent across all counties. Both the median and mean are about 13 percent, with a standard deviation of 3%. For urban counties, 13% of Medicaid enrollees have an SMI diagnosis, while 12% of rural enrollees have a SMI diagnosis. The most common diagnosis is major depressive disorder, followed by bipolar disorder, and then by schizophrenia. About two-thirds of Medicaid enrollees with SMI had only one SMI diagnosis (68.1%), while about one-quarter had two (24.9%) and a few had all three (7.0%).

Table 2

Table 2 includes:

- the county rank by number of Medicaid-enrolled adults with SMI,
- the county name,
- the total number of Medicaid-enrolled adults,
- the total number of Medicaid-enrolled adults with SMI,
- the number of Medicaid enrollees with SMI, by sex,
- The number of Medicaid enrollees with SMI, by race-ethnicity, and
- The number of Medicaid enrollees with SMI aged 65 years of older.

Summary: Overall, the mean and median gender ratios are slightly above 2:1, with twice as many women as men. About one-sixth (17.6%) of Medicaid enrollees with SMI were 65 years of age or older; however, the percentage in any individual county rose as high as 56%. While the

racial-ethnic distribution of Medicaid enrollees with SMI in both rural and urban counties was majority white, urban areas have a greater portion of African-American and Hispanic Medicaid enrollees with SMI, relative to rural counties. Overall, the number of Medicaid enrollees with SMI identified as of Asian-American/Pacific Islanders was relatively low, as was the population of Medicaid enrollees with SMI identified as American Indian/Alaskan native.

Table 3

Table 3 includes:

- the county rank by number of Medicaid-enrolled adults with SMI,
- the county name,
- the total number of Medicaid-enrolled adults,
- the total number of Medicaid-enrolled adults with SMI,
- the total number of Medicaid-enrolled adults with SMI who had any (≥ 1) of the 13 medical comorbidities examined,
- the total number of Medicaid-enrolled adults with SMI who had two or more (≥ 2) of the 13 medical comorbidities examined,
- the total number of Medicaid-enrolled adults with SMI who were SSI eligible for at least one month during FY 2012,
- the total number of Medicaid-enrolled adults with SMI who were dually Medicare enrolled at during FY 2012,
- the total number of Medicaid-enrolled adults with SMI who used LMHA services during FY 2012,
- the total number of Medicaid-enrolled adults with SMI who had a THCIC admission during FY 2012,
- the total number THCIC admissions during 2012 by Medicaid-enrolled adults with SMI,
- the total number of Medicaid-enrolled adults with SMI who had a THCIC admission during FY 2012 during which they received care in either a psychiatric or detoxification unit,
- the total number THCIC admissions during 2012 by Medicaid-enrolled adults with SMI, during which care was received in either a psychiatric or detoxification unit.

Summary: Of the 232,348 Medicaid enrollees with an SMI diagnosis, 114,632 (49.3%) had one or more of the 13 medical comorbidities examined, and 62,923 (27.1%) had two or more of the medical comorbidities. Medicaid enrollees with SMI in rural counties tended to have more comorbidities. In the urban counties, 48.3% had one or more comorbidities and 26.3% had two or more, while 54.8% in the rural counties had one or more and 31.3% had two or more.

About three-quarters of Medicaid enrollees with an SMI diagnosis (75.7%) were SSI eligible, with very little difference between urban and rural counties. Almost half (43.7%) were dually enrolled in Medicaid and Medicare (42.6% in urban counties, 49.7% in rural counties), while 25.1% used services from a local mental health authority (LMHA). In urban counties, 25.2% utilized LMHA services compared to 24.3% in rural counties. Additionally, 27.9% of Medicaid enrollees with SMI had a THCIC-documented hospitalization service of any type (28.5% and 25.2% in urban and rural counties, respectively), and 7.5% of these hospitalizations included behavioral health care (with a psychiatric unit stay or detoxification unit stay); portions were 8.0% in urban and 5.3% in rural counties.

Table 1. Detail diagnosis of the identified adult Texas Medicaid enrollees by county in Fiscal Year 2012

Rank by SPMI	FIPS	RHP_Region	MCO_Region	County Name	Urban	% SMI of total			Schizophrenia and Major Depression	Schizophrenia and Bi-polar Disorder	Major Depression and Bi-polar Disorder	All 3 SMI categories			
						Total_Medicaid_Adult	SMI_Medicaid	Medicaid adults							
1	201	3	4	Harris	1	294252	32805	11.1%	3785	10588	5202	1694	2328	5094	4114
2	29	6	1	Bexar	1	152562	21300	14.0%	1908	8248	3093	1234	1035	3636	2146
3	113	9	1	Dallas	1	168727	19519	11.6%	3889	7236	3272	988	1212	2066	856
4	439	10	12	Tarrant	1	106294	14539	13.7%	1524	5759	2481	691	729	2378	977
5	215	5	5	Hidalgo	1	103165	10438	10.1%	498	6528	869	308	187	1636	412
6	453	7	13	Travis	1	58428	8759	15.0%	1307	2649	1975	350	563	1337	578
7	141	15	3	El Paso	1	87092	6713	7.7%	817	2871	893	318	339	1126	349
8	355	4	11	Nueces	1	36413	5247	14.4%	484	2197	627	343	230	883	483
9	61	5	5	Cameron	1	52150	5010	9.6%	409	2548	606	256	155	761	275
10	245	2	6	Jefferson	1	24099	3729	15.5%	510	1454	442	239	204	589	291
11	27	8	8	Bell	1	22522	3458	15.4%	279	1797	387	159	86	581	169
12	309	16	8	McLennan	1	20971	2841	13.5%	453	1185	434	147	111	382	129
13	339	17	4	Montgomery	1	21324	2840	13.3%	195	975	762	66	138	538	166
14	303	12	7	Lubbock	1	23036	2715	11.8%	293	1377	280	141	78	402	144
15	485	19	10	Wichita	1	11260	2559	22.7%	219	1138	485	98	71	426	122
16	167	2	4	Galveston	1	17639	2394	13.6%	319	935	389	142	117	305	187
17	423	1	9	Smith	1	15437	2196	14.2%	282	984	333	75	90	318	114
18	85	18	2	Collin	1	21514	2193	10.2%	218	1135	323	68	92	278	79
19	121	9	12	Denton	1	19014	2002	10.5%	196	932	326	67	81	313	87
20	479	20	5	Webb	1	27644	1937	7.0%	225	919	251	99	83	285	75
21	39	2	4	Brazoria	1	16451	1905	11.6%	200	718	358	65	93	341	130
22	157	5	4	Fort Bend	1	21185	1870	8.8%	241	652	270	100	128	312	167
23	491	8	13	Williamson	1	15978	1814	11.4%	148	748	420	37	67	309	85
24	183	1	9	Gregg	1	10475	1723	16.4%	193	647	285	75	98	290	135
25	375	12	7	Potter	1	13841	1650	11.9%	142	916	148	79	32	240	93
26	251	10	12	Johnson	1	10042	1584	15.8%	99	735	279	40	55	285	91
27	441	11	10	Taylor	1	10908	1545	14.2%	175	621	254	83	53	262	97
28	181	18	9	Grayson	1	8629	1541	17.9%	87	626	203	64	41	383	137
29	213	1	9	Henderson	0	8489	1509	17.8%	107	630	349	34	43	272	74
30	37	1	9	Bowie	1	9400	1450	15.4%	118	569	263	71	43	302	84
31	41	17	8	Brazos	1	10327	1390	13.5%	121	485	274	46	125	226	113
32	451	13	10	Tom Green	1	9244	1320	14.3%	118	698	120	101	33	172	78
33	231	1	2	Hunt	1	7506	1306	17.4%	124	429	311	36	71	258	77
34	427	5	5	Starr	0	10944	1241	11.3%	48	885	91	27	*	132	40
35	469	4	11	Victoria	1	7700	1218	15.8%	157	596	168	58	43	158	38
36	135	14	10	Ector	1	11704	1187	10.1%	108	659	117	38	27	180	58
37	277	1	9	Lamar	0	6081	1112	18.3%	72	451	174	39	32	242	102
38	329	14	10	Midland	1	9276	1062	11.4%	96	496	182	34	37	161	56
39	361	2	6	Orange	1	7096	1052	14.8%	91	369	216	42	56	208	70
40	209	7	13	Hays	1	8445	1045	12.4%	92	504	145	36	41	173	54
41	5	2	9	Angelina	0	8175	988	12.1%	145	387	163	49	45	156	43
42	21	7	13	Bastrop	1	5914	926	15.7%	121	312	160	39	53	172	69
43	257	9	2	Kaufman	1	6934	924	13.3%	122	305	246	26	62	134	29
44	291	2	6	Liberty	1	7019	884	12.6%	71	295	228	29	42	161	58
45	249	4	11	Jim Wells	0	5801	864	14.9%	42	503	57	56	32	107	67
46	139	10	2	Ellis	1	7712	851	11.0%	102	374	149	24	38	128	36
47	203	1	9	Harrison	0	6059	841	13.9%	112	320	134	31	53	144	47
48	1	1	9	Anderson	0	4943	837	16.9%	72	298	134	38	32	189	74
49	367	10	12	Parker	1	5731	826	14.4%	66	342	165	24	34	150	45
50	347	2	9	Nacogdoches	0	5818	804	13.8%	79	329	148	43	30	124	51
51	409	4	11	San Patricio	1	6871	791	11.5%	58	396	125	28	23	119	42
52	349	10	2	Navarro	0	5145	761	14.8%	78	355	115	28	32	117	36

53				Unknown	Null	6006	760	12.7%	117	249	159	24	53	103	55
54	187	6	1	Guadalupe	1	6424	754	11.7%	72	351	117	25	33	118	38
55	73	1	9	Cherokee	0	4691	700	14.9%	83	300	83	27	38	119	50
56	467	1	9	Van Zandt	0	4114	670	16.3%	55	294	157	*	20	103	22
57	199	2	6	Hardin	1	4247	664	15.6%	53	303	113	*	24	118	35
58	49	11	10	Brown	0	3746	644	17.2%	66	242	93	38	24	133	48
59	401	1	9	Rusk	1	4022	634	15.8%	46	275	110	29	27	100	47
60	323	20	5	Maverick	0	8635	631	7.3%	99	351	49	22	*	66	28
61	373	2	6	Polk	0	4729	627	13.3%	49	220	153	*	28	116	43
62	459	1	9	Upshur	1	3518	615	17.5%	41	297	107	*	*	102	39
63	91	6	1	Comal	1	4880	602	12.3%	68	264	103	*	20	103	30
64	13	6	1	Atascosa	1	4519	600	13.3%	42	328	63	29	*	94	32
65	381	12	7	Randall	1	4783	583	12.2%	39	287	78	22	*	110	40
66	265	6	10	Kerr	0	3216	580	18.0%	70	253	85	*	24	97	36
67	223	1	9	Hopkins	0	3347	569	17.0%	46	248	90	21	*	110	35
68	325	6	1	Medina	1	3563	567	15.9%	104	216	60	39	31	76	41
69	221	10	12	Hood	1	3206	561	17.5%	33	287	82	*	*	109	20
70	217	16	8	Hill	0	3504	510	14.6%	34	254	69	*	*	89	29
71	499	1	9	Wood	0	2994	509	17.0%	37	238	95	*	*	95	*
72	227	14	10	Howard	0	3214	498	15.5%	89	193	82	28	*	66	24
73	273	4	11	Kleberg	0	3920	493	12.6%	37	249	56	25	*	73	38
74	99	16	8	Coryell	1	3289	490	14.9%	23	228	86	20	25	89	*
75	67	1	9	Cass	0	3156	462	14.6%	39	246	49	*	*	75	24
76	241	2	6	Jasper	0	4074	459	11.3%	64	161	81	*	29	79	30
77	465	6	10	Val Verde	0	5791	459	7.9%	46	315	31	*	*	30	*
78	25	4	11	Bee	0	3217	455	14.1%	26	231	60	*	*	78	28
79	481	3	4	Wharton	0	3562	447	12.5%	56	164	67	23	38	62	37
80	493	6	1	Wilson	1	2743	446	16.3%	34	232	60	27	*	53	29
81	321	3	4	Matagorda	0	3576	445	12.4%	54	175	67	*	22	83	30
82	55	7	13	Caldwell	1	3436	444	12.9%	49	210	59	*	*	71	21
83	471	17	6	Walker	0	3716	428	11.5%	48	126	111	*	26	79	28
84	147	1	9	Fannin	0	2599	423	16.3%	*	191	56	21	*	93	34
85	363	11	10	Palo Pinto	0	2507	406	16.2%	*	221	48	*	*	76	20
86	449	1	9	Titus	0	2678	401	15.0%	64	158	57	*	*	67	23
87	489	5	5	Willacy	0	3305	393	11.9%	*	220	45	*	*	70	*
88	337	19	9	Montague	0	1652	378	22.9%	23	204	54	*	*	59	20
89	463	6	10	Uvalde	0	3394	377	11.1%	35	223	34	*	*	55	*
90	293	16	8	Limestone	0	2381	369	15.5%	40	164	56	*	25	53	*
91	189	12	7	Hale	0	3198	365	11.4%	33	222	26	26	*	35	*
92	331	8	8	Milam	0	2567	364	14.2%	30	164	60	*	*	66	*
93	53	8	13	Burnet	0	2407	361	15.0%	24	162	79	*	*	60	*
94	497	10	12	Wise	1	2716	357	13.1%	*	137	91	*	*	68	27
95	7	4	11	Aransas	1	2106	355	16.9%	*	167	68	*	*	67	*
96	419	2	9	Shelby	0	2553	353	13.8%	40	140	68	*	*	60	*
97	143	10	8	Erath	0	2009	346	17.2%	21	205	23	*	*	64	*
98	97	19	9	Cooke	0	2456	339	13.8%	*	173	43	*	*	72	*
99	503	19	10	Young	0	1583	330	20.8%	*	168	54	*	*	52	*
100	133	11	10	Eastland	0	1725	323	18.7%	23	174	40	*	*	53	*
101	285	4	8	Lavaca	0	1720	315	18.3%	26	171	24	*	*	49	20
102	477	17	8	Washington	0	2329	313	13.4%	47	110	48	*	27	42	20
103	123	4	8	Dewitt	0	1758	302	17.2%	27	153	25	*	*	50	22
104	281	8	8	Lampasas	1	1582	296	18.7%	*	156	36	*	*	47	20
105	225	1	9	Houston	0	2582	295	11.4%	21	134	55	*	*	48	*
106	255	4	11	Karnes	0	1605	284	17.7%	*	150	36	20	*	46	*
107	365	1	9	Panola	0	1911	283	14.8%	23	137	47	*	*	45	*
108	397	18	2	Rockwall	1	2800	275	9.8%	27	117	55	*	*	50	*
109	353	11	10	Nolan	0	1735	270	15.6%	30	152	23	*	*	24	*
110	395	17	8	Robertson	1	1766	265	15.0%	27	110	38	20	*	30	25
111	473	3	4	Waller	1	2564	256	10.0%	37	94	53	*	*	39	*

112	239	4	8	Jackson	0	1250	247	19.8%	*	147	24	*	*	*	33	*
113	145	16	8	Falls	1	1684	244	14.5%	30	120	29	*	*	*	32	*
114	343	1	9	Morris	0	1698	244	14.4%	*	108	35	*	*	*	46	*
115	407	2	6	San Jacinto	0	2281	241	10.6%	*	86	63	*	*	*	42	24
116	177	4	8	Gonzales	0	1877	239	12.7%	*	144	25	*	*	*	22	*
117	89	3	8	Colorado	0	1611	238	14.8%	36	95	39	*	*	*	38	*
118	219	12	7	Hockley	0	2064	238	11.5%	*	150	25	*	*	*	32	*
119	19	6	1	Bandera	1	1300	232	17.8%	*	87	53	*	*	*	48	*
120	149	7	13	Fayette	0	1440	231	16.0%	28	105	33	*	*	*	25	*
121	259	6	1	Kendall	1	1481	228	15.4%	*	136	21	*	*	*	39	*
122	57	3	11	Calhoun	0	1568	227	14.5%	*	120	34	*	*	*	33	*
123	299	8	8	Llano	0	1422	223	15.7%	*	67	62	*	*	*	46	*
124	387	1	9	Red River	0	1577	223	14.1%	22	116	22	*	*	*	32	*
125	131	4	5	Duval	0	1543	219	14.2%	*	131	*	*	*	*	26	*
126	507	6	10	Zavala	0	2038	216	10.6%	21	137	*	*	*	*	25	*
127	455	1	9	Trinity	0	1513	214	14.1%	*	86	49	*	*	*	40	*
128	185	17	8	Grimes	0	2013	211	10.5%	34	63	41	*	*	*	30	*
129	163	6	10	Frio	0	1982	205	10.3%	*	136	*	*	*	*	*	*
130	457	2	6	Tyler	0	1726	202	11.7%	25	83	39	*	*	*	34	*
131	487	19	10	Wilbarger	0	1290	197	15.3%	*	110	27	*	*	*	32	*
132	35	16	8	Bosque	0	1320	193	14.6%	*	92	21	*	*	*	24	*
133	233	12	7	Hutchinson	0	1567	188	12.0%	*	100	*	*	*	*	39	*
134	51	17	8	Burleson	1	1292	187	14.5%	*	75	32	*	*	*	28	*
135	287	7	13	Lee	0	1183	186	15.7%	21	72	32	*	*	*	27	*
136	405	2	9	San Augustine	0	1146	186	16.2%	*	89	26	*	*	*	25	*
137	315	1	9	Marion	0	1240	180	14.5%	*	79	34	*	*	*	32	*
138	389	14	10	Reeves	0	1533	178	11.6%	*	114	*	*	*	*	*	*
139	279	12	7	Lamb	0	1544	175	11.3%	*	102	*	*	*	*	*	*
140	179	12	10	Gray	0	1619	174	10.7%	*	90	*	*	*	*	31	*
141	313	17	8	Madison	0	1173	173	14.7%	*	84	*	*	*	*	24	*
142	399	13	10	Runnels	0	1039	173	16.7%	*	100	*	*	*	*	27	*
143	63	1	9	Camp	0	1266	172	13.6%	20	82	26	*	*	*	22	*
144	47	4	11	Brooks	0	1317	162	12.3%	*	84	*	*	*	*	25	*
145	15	3	4	Austin	1	1548	160	10.3%	*	75	31	*	*	*	25	*
146	253	11	10	Jones	1	1427	160	11.2%	*	81	*	*	*	*	26	*
147	127	6	10	Dimmit	0	1540	156	10.1%	*	95	*	*	*	*	*	*
148	445	12	7	Terry	0	1279	155	12.1%	24	68	*	*	*	*	24	*
149	161	1	8	Freestone	0	1282	154	12.0%	22	75	23	*	*	*	23	*
150	289	17	8	Leon	0	1343	152	11.3%	*	64	22	*	*	*	29	*
151	307	13	10	McCulloch	0	917	152	16.6%	*	96	*	*	*	*	21	*
152	415	12	10	Scurry	0	1226	149	12.2%	*	76	20	*	*	*	*	*
153	351	2	6	Newton	1	1526	147	9.6%	*	64	27	*	*	*	20	*
154	379	1	9	Rains	0	874	146	16.7%	*	67	33	*	*	*	28	*
155	391	4	11	Refugio	0	689	141	20.5%	*	83	*	*	*	*	*	*
156	403	2	9	Sabine	0	1089	138	12.7%	*	58	29	*	*	*	26	*
157	193	16	8	Hamilton	0	716	137	19.1%	*	83	*	*	*	*	23	*
158	93	11	8	Comanche	0	1109	134	12.1%	*	69	*	*	*	*	*	*
159	505	20	5	Zapata	0	1570	130	8.3%	*	80	*	*	*	*	*	*
160	371	13	10	Pecos	0	1319	128	9.7%	*	80	*	*	*	*	*	*
161	59	11	10	Callahan	1	882	127	14.4%	*	77	*	*	*	*	*	*
162	171	6	8	Gillespie	0	1238	126	10.2%	20	53	*	*	*	*	22	*
163	341	12	10	Moore	0	1514	119	7.9%	*	68	*	*	*	*	*	*
164	83	13	10	Coleman	0	871	114	13.1%	*	65	*	*	*	*	*	*
165	117	12	7	Deaf Smith	0	1683	111	6.6%	*	75	*	*	*	*	*	*
166	71	3	6	Chambers	1	1398	109	7.8%	*	51	21	*	*	*	20	*
167	429	11	10	Stephens	0	815	109	13.4%	*	63	*	*	*	*	*	*
168	3	14	10	Andrews	0	1095	108	9.9%	*	58	*	*	*	*	*	*
169	23	19	10	Baylor	0	474	105	22.2%	*	51	*	*	*	*	20	*
170	75	12	10	Childress	0	616	104	16.9%	*	65	*	*	*	*	*	*

230	319	13	10	Mason	0	228	*	*	*	*	*	*	*	*	*	*	*
231	433	11	10	Stonewall	0	98	*	*	*	*	*	*	*	*	*	*	*
232	125	12	10	Dickens	0	175	*	*	*	*	*	*	*	*	*	*	*
233	105	13	10	Crockett	0	253	*	*	*	*	*	*	*	*	*	*	*
234	431	13	10	Sterling	0	72	*	*	*	*	*	*	*	*	*	*	*
235	11	12	10	Armstrong	1	106	*	*	*	*	*	*	*	*	*	*	*
236	235	13	10	Irion	1	109	*	*	*	*	*	*	*	*	*	*	*
237	295	12	10	Lipscomb	0	124	*	*	*	*	*	*	*	*	*	*	*
238	211	12	10	Hemphill	0	179	*	*	*	*	*	*	*	*	*	*	*
239	383	13	10	Reagan	0	195	*	*	*	*	*	*	*	*	*	*	*
240	263	12	10	Kent	0	89	*	*	*	*	*	*	*	*	*	*	*
241	435	13	10	Sutton	0	256	*	*	*	*	*	*	*	*	*	*	*
242	45	12	10	Briscoe	0	103	*	*	*	*	*	*	*	*	*	*	*
243	447	19	10	Throckmorton	0	98	*	*	*	*	*	*	*	*	*	*	*
244	359	12	10	Oldham	1	95	*	*	*	*	*	*	*	*	*	*	*
245	443	13	10	Terrell	0	71	*	*	*	*	*	*	*	*	*	*	*
246	137	6	10	Edwards	0	181	*	*	*	*	*	*	*	*	*	*	*
247	345	12	10	Motley	0	80	*	*	*	*	*	*	*	*	*	*	*
248	421	12	10	Sherman	0	118	*	*	*	*	*	*	*	*	*	*	*
249	311	6	5	McMullen	0	50	*	*	*	*	*	*	*	*	*	*	*
250	33	12	10	Borden	0	*	*	*	*	*	*	*	*	*	*	*	*
251	261	4	11	Kenedy	0	42	*	*	*	*	*	*	*	*	*	*	*
252	301	14	10	Loving	0	*	*	*	*	*	*	*	*	*	*	*	*
253	269	12	10	King	0	*	*	*	*	*	*	*	*	*	*	*	*
254	393	12	10	Roberts	0	31	*	*	*	*	*	*	*	*	*	*	*
255	173	14	10	Glasscock	0	20	*	*	*	*	*	*	*	*	*	*	*
Total						1877327	232348	12.4%	25029	97574	35670	10557	11014	36199	16305		

Table 2. Demographic characteristics of the identified adult Texas Medicaid enrollees by county in Fiscal Year 2012

Rank by SPMI	County Name	Total_Medicaid_Adult	SMI		White	African-American	Hispanic	American		Asian or Pacific	Omitted/Inappropriate code	Age ≥ 65
			Medicaid	Female				Indian or Alaskan Native	Alaskan Native			
1	Harris	294252	32805	20168	12637	8850	14930	5180	144	778	2923	4403
2	Bexar	152562	21300	13617	7683	5499	2431	11645	41	114	1570	2911
3	Dallas	168727	19519	11860	7659	5820	9367	2160	78	300	1794	3221
4	Tarrant	106294	14539	9288	5251	7187	4315	1577	72	231	1157	2588
5	Hidalgo	103165	10438	6915	3523	1191	22	8821	*	*	383	2791
6	Travis	58428	8759	5620	3139	3272	2372	2051	21	122	921	1007
7	El Paso	87092	6713	4266	2447	1199	204	4898	*	29	378	1480
8	Nueces	36413	5247	3422	1825	1605	340	2956	*	20	314	834
9	Cameron	52150	5010	3186	1824	705	21	4045	*	*	228	1049
10	Jefferson	24099	3729	2465	1264	1461	1806	150	*	30	271	525
11	Bell	22522	3458	2475	983	1755	881	444	*	40	334	432
12	McLennan	20971	2841	1846	995	1492	778	297	*	*	247	435
13	Montgomery	21324	2840	1965	875	2040	244	250	*	*	285	358
14	Lubbock	23036	2715	1781	934	1360	382	746	*	20	194	440
15	Wichita	11260	2559	1727	832	1657	411	256	*	*	213	348
16	Galveston	17639	2394	1588	806	1150	722	264	*	28	217	378
17	Smith	15437	2196	1470	726	1188	719	108	*	*	170	380
18	Collin	21514	2193	1500	693	1347	365	185	*	121	164	621
19	Denton	19014	2002	1303	699	1287	266	198	*	70	168	438
20	Webb	27644	1937	1174	763	220	*	1626	*	*	77	378
21	Brazoria	16451	1905	1261	644	1129	256	330	*	*	168	260
22	Fort Bend	21185	1870	1126	744	521	667	380	*	120	170	300
23	Williamson	15978	1814	1285	529	1073	208	328	*	35	164	294
24	Gregg	10475	1723	1172	551	937	597	54	*	*	124	248
25	Potter	13841	1650	1168	482	1015	200	289	*	22	117	228
26	Johnson	10042	1584	1088	496	1269	97	103	*	*	101	353
27	Taylor	10908	1545	1023	522	1026	165	236	*	*	107	225
28	Grayson	8629	1541	1067	474	1236	173	30	*	*	92	310
29	Henderson	8489	1509	1041	468	1241	105	43	*	*	113	195

30	Bowie	9400	1450	1016	434	747	530	*	*	*	146	203
31	Brazos	10327	1390	952	438	542	496	198	*	*	145	132
32	Tom Green	9244	1320	898	422	753	84	374	*	*	104	253
33	Hunt	7506	1306	867	439	946	209	35	*	*	104	211
34	Starr	10944	1241	849	392	174	*	1014	*	*	49	526
35	Victoria	7700	1218	802	416	469	137	532	*	*	70	312
36	Ector	11704	1187	877	310	566	97	426	*	*	86	204
37	Lamar	6081	1112	778	334	820	201	21	*	*	59	160
38	Midland	9276	1062	711	351	465	170	319	*	*	97	192
39	Orange	7096	1052	744	308	740	201	*	*	*	90	116
40	Hays	8445	1045	699	346	549	81	324	*	*	85	236
41	Angelina	8175	988	656	332	608	249	46	*	*	77	129
42	Bastrop	5914	926	596	330	554	148	130	*	*	86	151
43	Kaufman	6934	924	618	306	605	204	41	*	*	67	153
44	Liberty	7019	884	641	243	676	95	37	*	*	72	140
45	Jim Wells	5801	864	580	284	202	*	619	*	*	34	258
46	Ellis	7712	851	548	303	532	152	101	*	*	59	178
47	Harrison	6059	841	572	269	440	303	23	*	*	69	123
48	Anderson	4943	837	536	301	556	194	33	*	*	51	150
49	Parker	5731	826	580	246	692	21	42	*	*	63	175
50	Jacogdoche	5818	804	558	246	466	262	22	*	*	49	119
51	San Patricio	6871	791	511	280	357	20	366	*	*	39	151
52	Navarro	5145	761	459	302	482	189	33	*	*	53	156
53	Unknown	6006	760	366	394	334	111	157	*	*	152	43
54	Guadalupe	6424	754	492	262	381	73	228	*	*	66	157
55	Cherokee	4691	700	441	259	465	168	31	*	*	35	148
56	Van Zandt	4114	670	465	205	557	43	*	*	*	55	140
57	Hardin	4247	664	475	189	553	53	*	*	*	44	134
58	Brown	3746	644	402	242	497	45	66	*	*	35	94
59	Rusk	4022	634	425	209	398	172	*	*	*	46	122
60	Maverick	8635	631	396	235	70	*	537	*	*	20	163
61	Polk	4729	627	427	200	469	75	30	*	*	50	111
62	Upshur	3518	615	447	168	466	94	*	*	*	42	90
63	Comal	4880	602	411	191	398	*	152	*	*	39	125
64	Atascosa	4519	600	403	197	247	*	327	*	*	21	166
65	Randall	4783	583	402	181	437	29	66	*	*	41	79
66	Kerr	3216	580	390	190	415	21	101	*	*	37	91
67	Hopkins	3347	569	357	212	440	70	*	*	*	36	149

68	Medina	3563	567	346	221	265	*	257	*	*	29	133
69	Hood	3206	561	400	161	481	*	29	*	*	34	101
70	Hill	3504	510	374	136	394	41	35	*	*	40	90
71	Wood	2994	509	342	167	410	43	*	*	*	42	102
72	Howard	3214	498	333	165	278	58	103	*	*	51	45
73	Kleberg	3920	493	323	170	122	22	335	*	*	*	116
74	Coryell	3289	490	343	147	323	60	42	*	*	54	61
75	Cass	3156	462	320	142	321	96	*	*	*	40	84
76	Jasper	4074	459	304	155	312	106	*	*	*	35	77
77	Val Verde	5791	459	312	147	95	*	344	*	*	*	157
78	Bee	3217	455	302	153	134	*	280	*	*	28	88
79	Wharton	3562	447	294	153	147	141	122	*	*	36	91
80	Wilson	2743	446	294	152	244	*	162	*	*	22	152
81	Matagorda	3576	445	299	146	199	114	93	*	*	34	87
82	Caldwell	3436	444	286	158	217	43	150	*	*	31	110
83	Walker	3716	428	278	150	219	138	26	*	*	42	63
84	Fannin	2599	423	288	135	333	40	*	*	*	37	89
85	Palo Pinto	2507	406	293	113	337	*	28	*	*	*	77
86	Titus	2678	401	262	139	262	88	24	*	*	25	82
87	Willacy	3305	393	262	131	55	*	326	*	*	*	81
88	Montague	1652	378	261	117	343	*	*	*	*	*	89
89	Uvalde	3394	377	259	118	99	*	254	*	*	20	101
90	Limestone	2381	369	218	151	241	81	*	*	*	26	67
91	Hale	3198	365	232	133	177	25	145	*	*	*	99
92	Milam	2567	364	260	104	217	66	39	*	*	41	75
93	Burnet	2407	361	239	122	286	*	33	*	*	30	68
94	Wise	2716	357	261	96	314	*	*	*	*	*	83
95	Aransas	2106	355	250	105	241	*	67	*	*	29	63
96	Shelby	2553	353	232	121	238	92	*	*	*	*	73
97	Erath	2009	346	238	108	293	*	20	*	*	25	90
98	Cooke	2456	339	253	86	278	20	*	*	*	20	86
99	Young	1583	330	243	87	265	*	29	*	*	26	64
100	Eastland	1725	323	236	87	278	*	*	*	*	*	96
101	Lavaca	1720	315	199	116	195	59	49	*	*	*	127
102	Washington	2329	313	200	113	170	88	*	*	*	33	62
103	Dewitt	1758	302	199	103	127	54	99	*	*	22	101
104	Lampasas	1582	296	202	94	212	*	47	*	*	26	59
105	Houston	2582	295	205	90	170	93	*	*	*	22	60

106	Karnes	1605	284	163	121	102	23	152	*	*	*	*	121
107	Panola	1911	283	206	77	204	56	*	*	*	*	*	50
108	Rockwall	2800	275	186	89	199	33	23	*	*	*	*	91
109	Nolan	1735	270	192	78	157	26	67	*	*	*	*	54
110	Robertson	1766	265	171	94	144	93	*	*	*	*	*	58
111	Waller	2564	256	165	91	110	90	29	*	*	*	26	33
112	Jackson	1250	247	166	81	130	40	57	*	*	*	*	93
113	Falls	1684	244	153	91	97	94	22	*	*	*	30	44
114	Morris	1698	244	175	69	146	75	*	*	*	*	*	36
115	San Jacinto	2281	241	154	87	179	28	*	*	*	*	25	37
116	Gonzales	1877	239	167	72	102	46	79	*	*	*	*	59
117	Colorado	1611	238	159	79	102	75	37	*	*	*	24	33
118	Hockley	2064	238	166	72	111	*	97	*	*	*	*	44
119	Bandera	1300	232	147	85	179	*	28	*	*	*	20	38
120	Fayette	1440	231	160	71	133	49	31	*	*	*	*	77
121	Kendall	1481	228	159	69	160	*	48	*	*	*	*	94
122	Calhoun	1568	227	154	73	107	*	85	*	*	*	*	57
123	Llano	1422	223	150	73	194	*	*	*	*	*	*	39
124	Red River	1577	223	136	87	150	45	*	*	*	*	*	53
125	Duval	1543	219	136	83	60	*	151	*	*	*	*	81
126	Zavala	2038	216	155	61	21	*	180	*	*	*	*	37
127	Trinity	1513	214	149	65	157	23	*	*	*	*	27	36
128	Grimes	2013	211	131	80	105	70	*	*	*	*	22	36
129	Frio	1982	205	142	63	52	*	142	*	*	*	*	58
130	Tyler	1726	202	139	63	154	*	*	*	*	*	24	36
131	Wilbarger	1290	197	140	57	132	26	25	*	*	*	*	38
132	Bosque	1320	193	121	72	158	*	*	*	*	*	*	56
133	Hutchinson	1567	188	143	45	144	*	20	*	*	*	*	20
134	Burleson	1292	187	124	63	107	58	*	*	*	*	*	28
135	Lee	1183	186	120	66	98	48	24	*	*	*	*	43
136	San Augustin	1146	186	121	65	130	41	*	*	*	*	*	70
137	Marion	1240	180	117	63	122	43	*	*	*	*	*	37
138	Reeves	1533	178	114	64	40	*	120	*	*	*	*	70
139	Lamb	1544	175	121	54	76	*	74	*	*	*	*	46
140	Gray	1619	174	132	42	141	*	*	*	*	*	*	42
141	Madison	1173	173	120	53	113	43	*	*	*	*	*	51
142	Runnels	1039	173	116	57	120	*	37	*	*	*	*	56
143	Camp	1266	172	118	54	98	55	*	*	*	*	*	32

144	Brooks	1317	162	101	61	28	*	128	*	*	*	47
145	Austin	1548	160	103	57	91	40	20	*	*	*	28
146	Jones	1427	160	109	51	112	*	25	*	*	*	38
147	Dimmit	1540	156	101	55	33	*	109	*	*	*	48
148	Terry	1279	155	96	59	89	*	43	*	*	*	62
149	Freestone	1282	154	103	51	94	42	*	*	*	*	33
150	Leon	1343	152	107	45	98	43	*	*	*	*	32
151	McCulloch	917	152	100	52	102	*	32	*	*	*	41
152	Scurry	1226	149	105	44	83	*	37	*	*	*	32
153	Newton	1526	147	93	54	93	36	*	*	*	*	30
154	Rains	874	146	98	48	139	*	*	*	*	*	25
155	Refugio	689	141	85	56	55	26	54	*	*	*	63
156	Sabine	1089	138	89	49	117	*	*	*	*	*	*
157	Hamilton	716	137	93	44	119	*	*	*	*	*	43
158	Comanche	1109	134	94	40	105	*	*	*	*	*	29
159	Zapata	1570	130	81	49	23	*	102	*	*	*	34
160	Pecos	1319	128	93	35	43	*	79	*	*	*	58
161	Callahan	882	127	89	38	119	*	*	*	*	*	35
162	Gillespie	1238	126	75	51	95	*	20	*	*	*	37
163	Moore	1514	119	84	35	64	*	38	*	*	*	23
164	Coleman	871	114	72	42	85	*	*	*	*	*	26
165	Deaf Smith	1683	111	90	21	37	*	65	*	*	*	37
166	Chambers	1398	109	75	34	89	*	*	*	*	*	29
167	Stephens	815	109	83	26	93	*	*	*	*	*	30
168	Andrews	1095	108	82	26	60	*	38	*	*	*	*
169	Baylor	474	105	69	36	76	*	*	*	*	*	32
170	Childress	616	104	86	18	68	*	26	*	*	*	25
171	Franklin	706	104	69	35	83	*	*	*	*	*	27
172	Mitchell	717	102	70	32	57	*	32	*	*	*	21
173	Live Oak	845	99	70	29	53	*	44	*	*	*	47
174	Jack	577	94	67	27	80	*	*	*	*	*	*
175	Ward	956	92	69	23	50	*	25	*	*	*	*
176	Delta	481	89	68	21	68	*	*	*	*	*	37
177	Somervell	472	89	57	32	78	*	*	*	*	*	35
178	Real	381	87	41	46	59	*	20	*	*	*	33
179	Blanco	612	86	49	37	62	*	*	*	*	*	*
180	Jim Hogg	755	84	63	21	*	*	58	*	*	*	30
181	Brewster	637	81	55	26	41	*	31	*	*	*	*

220	Hansford	251	23	*	*	*	*	*	*	*	*	*	*
221	Kinney	307	23	*	*	*	*	*	*	*	*	*	*
222	Cottle	175	22	*	*	*	*	*	*	*	*	*	*
223	Upton	221	22	*	*	*	*	*	*	*	*	*	*
224	Carson	199	21	*	*	*	*	*	*	*	*	*	*
225	Schleicher	202	21	*	*	*	*	*	*	*	*	*	*
226	Foard	130	*	*	*	*	*	*	*	*	*	*	*
227	Cochran	340	*	*	*	*	*	*	*	*	*	*	*
228	Hudspeth	393	*	*	*	*	*	*	*	*	*	*	*
229	Jeff Davis	131	*	*	*	*	*	*	*	*	*	*	*
230	Mason	228	*	*	*	*	*	*	*	*	*	*	*
231	Stonewall	98	*	*	*	*	*	*	*	*	*	*	*
232	Dickens	175	*	*	*	*	*	*	*	*	*	*	*
233	Crockett	253	*	*	*	*	*	*	*	*	*	*	*
234	Sterling	72	*	*	*	*	*	*	*	*	*	*	*
235	Armstrong	106	*	*	*	*	*	*	*	*	*	*	*
236	Irion	109	*	*	*	*	*	*	*	*	*	*	*
237	Lipscomb	124	*	*	*	*	*	*	*	*	*	*	*
238	Hemphill	179	*	*	*	*	*	*	*	*	*	*	*
239	Reagan	195	*	*	*	*	*	*	*	*	*	*	*
240	Kent	89	*	*	*	*	*	*	*	*	*	*	*
241	Sutton	256	*	*	*	*	*	*	*	*	*	*	*
242	Briscoe	103	*	*	*	*	*	*	*	*	*	*	*
243	hrockmortc	98	*	*	*	*	*	*	*	*	*	*	*
244	Oldham	95	*	*	*	*	*	*	*	*	*	*	*
245	Terrell	71	*	*	*	*	*	*	*	*	*	*	*
246	Edwards	181	*	*	*	*	*	*	*	*	*	*	*
247	Motley	80	*	*	*	*	*	*	*	*	*	*	*
248	Sherman	118	*	*	*	*	*	*	*	*	*	*	*
249	McMullen	50	*	*	*	*	*	*	*	*	*	*	*
250	Borden	*	*	*	*	*	*	*	*	*	*	*	*
251	Kenedy	42	*	*	*	*	*	*	*	*	*	*	*
252	Loving	*	*	*	*	*	*	*	*	*	*	*	*
253	King	*	*	*	*	*	*	*	*	*	*	*	*
254	Roberts	31	*	*	*	*	*	*	*	*	*	*	*
255	Glasscock	20	*	*	*	*	*	*	*	*	*	*	*
Total		1877327	232348	150969	81379	97044	51520	62946	727	2410	17701	40922	

Table 3. Comorbidity, Eligibility, and Program characteristics of the identified adult Texas Medicaid enrollees by county in Fiscal Year 2012

Rank by SPMI	County Name	Total_Medicaid_Adult	SMI Medicaid	≥ 1 Comorbidities	≥ 2 Comorbidities	SSI-eligible	dual-Medicare enrolled	Using LMHA	THCIC - any visits	THCIC # visits	Detoxification or Psychiatric visits	THCIC # of Detoxification or Psychiatric visits
1	Harris	294252	32805	15692	8255	25628	11942	5015	10679	24570	3542	6388
2	Bexar	152562	21300	10014	5024	16300	8184	3444	6301	13439	2212	4657
3	Dallas	168727	19519	7736	4610	16029	8760	10213	4816	8954	1215	1920
4	Tarrant	106294	14539	7489	4233	11110	6548	3546	3871	7415	871	1312
5	Hidalgo	103165	10438	5980	3816	7384	4730	1299	2886	5837	497	969
6	Travis	58428	8759	3568	1677	6056	3399	2958	2473	5042	797	1338
7	El Paso	87092	6713	3458	1834	5088	3002	2464	1773	3401	413	608
8	Nueces	36413	5247	2579	1284	4112	2105	997	1541	3071	546	954
9	Cameron	52150	5010	2671	1561	3659	2008	1529	1380	2650	390	690
10	Jefferson	24099	3729	1924	1063	2937	1687	734	1118	2201	363	604
11	Bell	22522	3458	1567	832	2344	1342	665	960	1992	306	517
12	McLennan	20971	2841	1403	751	2074	1335	566	693	1230	152	213
13	Montgomery	21324	2840	1232	618	2014	1071	709	857	1674	225	339
14	Lubbock	23036	2715	1445	806	2009	1236	589	796	1453	272	442
15	Wichita	11260	2559	1291	673	1783	1128	672	702	1255	124	200
16	Galveston	17639	2394	1182	663	1865	1108	734	780	1820	197	315
17	Smith	15437	2196	1129	607	1653	1077	343	632	1211	122	171
18	Collin	21514	2193	1060	651	1706	1214	907	617	1182	143	202
19	Denton	19014	2002	1013	574	1520	1060	575	568	1205	137	219
20	Webb	27644	1937	981	478	1487	738	694	530	916	92	138
21	Brazoria	16451	1905	889	456	1365	791	563	561	1091	169	251
22	Fort Bend	21185	1870	841	452	1388	750	396	524	1044	122	214
23	Williamson	15978	1814	737	350	1075	768	373	435	839	98	158
24	Gregg	10475	1723	866	453	1358	762	597	438	851	119	173
25	Potter	13841	1650	814	402	1082	735	374	586	1315	228	476
26	Johnson	10042	1584	859	508	1196	818	364	425	778	79	112
27	Taylor	10908	1545	761	371	1188	724	345	380	670	118	209
28	Grayson	8629	1541	899	554	1152	822	199	310	515	43	56
29	Henderson	8489	1509	750	408	1046	617	270	478	908	77	99
30	Bowie	9400	1450	696	376	1063	596	356	371	681	58	74
31	Brazos	10327	1390	597	305	1005	560	497	403	816	90	158
32	Tom Green	9244	1320	723	384	999	652	246	396	787	84	119
33	Hunt	7506	1306	615	379	1015	711	534	347	679	119	197
34	Starr	10944	1241	872	599	1019	762	161	320	597	33	46
35	Victoria	7700	1218	648	374	947	663	258	339	640	40	66
36	Ector	11704	1187	568	292	844	506	248	339	624	106	163
37	Lamar	6081	1112	638	342	830	534	235	219	341	51	67
38	Midland	9276	1062	507	239	799	504	298	315	552	121	180
39	Orange	7096	1052	466	226	742	410	212	290	532	92	139
40	Hays	8445	1045	513	286	718	497	279	323	644	71	114

41	Angelina	8175	988	466	261	785	411	347	250	476	57	87
42	Bastrop	5914	926	468	241	683	435	281	270	583	62	121
43	Kaufman	6934	924	403	227	703	429	434	245	454	58	96
44	Liberty	7019	884	488	282	684	386	193	297	687	82	141
45	Jim Wells	5801	864	558	355	730	471	175	276	624	72	121
46	Ellis	7712	851	389	236	626	428	365	202	370	43	67
47	Harrison	6059	841	404	210	619	357	136	217	404	50	76
48	Anderson	4943	837	408	243	623	402	269	275	561	117	206
49	Parker	5731	826	411	251	578	414	222	268	468	61	72
50	Nacogdoches	5818	804	398	224	617	362	284	231	457	46	70
51	San Patricio	6871	791	414	210	599	358	209	223	401	66	98
52	Navarro	5145	761	348	202	622	420	368	216	440	50	94
53	Unknown	6006	760	310	138	702	165	265	214	440	73	124
54	Guadalupe	6424	754	360	208	583	370	197	211	405	54	99
55	Cherokee	4691	700	383	220	548	374	194	218	388	45	60
56	Van Zandt	4114	670	353	192	496	345	98	190	285	28	39
57	Hardin	4247	664	343	182	526	318	120	206	370	52	79
58	Brown	3746	644	310	142	465	289	153	172	319	33	52
59	Rusk	4022	634	351	183	508	304	172	175	345	42	56
60	Maverick	8635	631	378	222	495	293	247	157	334	*	*
61	Polk	4729	627	316	173	463	286	172	160	311	40	67
62	Upshur	3518	615	302	172	439	257	160	151	280	34	41
63	Comal	4880	602	323	172	435	317	144	182	315	40	56
64	Atascosa	4519	600	323	196	465	307	139	153	270	30	46
65	Randall	4783	583	292	134	384	258	99	190	432	91	192
66	Kerr	3216	580	276	154	391	270	182	163	305	35	67
67	Hopkins	3347	569	330	196	438	315	144	111	176	38	47
68	Medina	3563	567	301	143	437	288	100	141	221	29	40
69	Hood	3206	561	273	146	378	245	107	130	244	28	51
70	Hill	3504	510	253	146	336	229	68	140	288	24	36
71	Wood	2994	509	280	156	397	264	72	136	270	32	38
72	Howard	3214	498	235	111	394	190	229	123	227	32	49
73	Kleberg	3920	493	270	153	370	231	160	157	331	33	62
74	Coryell	3289	490	211	103	335	211	90	123	204	22	30
75	Cass	3156	462	239	121	327	232	111	111	181	*	25
76	Jasper	4074	459	222	132	344	213	86	131	274	40	57
77	Val Verde	5791	459	291	178	368	249	105	113	260	*	*
78	Bee	3217	455	241	132	342	197	136	122	232	32	59
79	Wharton	3562	447	238	137	362	205	155	125	233	26	39
80	Wilson	2743	446	267	165	356	245	100	106	196	21	39
81	Matagorda	3576	445	237	128	349	210	157	126	241	29	40
82	Caldwell	3436	444	222	136	314	231	108	127	240	*	28
83	Walker	3716	428	181	93	314	165	144	106	225	29	49
84	Fannin	2599	423	257	157	312	219	68	87	169	*	*
85	Palo Pinto	2507	406	224	121	300	186	118	115	212	*	*
86	Titus	2678	401	233	126	314	218	106	74	125	*	25
87	Willacy	3305	393	229	153	282	149	82	110	213	21	31

88	Montague	1652	378	214	115	270	197	103	75	99	23	30
89	Uvalde	3394	377	210	121	290	186	119	82	151	*	*
90	Limestone	2381	369	207	92	285	197	50	81	165	*	22
91	Hale	3198	365	215	126	267	189	108	108	205	28	41
92	Milam	2567	364	194	116	262	176	84	99	207	*	30
93	Burnet	2407	361	187	99	236	180	82	107	165	26	33
94	Wise	2716	357	199	119	271	186	119	89	165	*	26
95	Aransas	2106	355	206	110	276	148	106	92	166	*	22
96	Shelby	2553	353	193	114	270	178	75	74	118	*	*
97	Erath	2009	346	176	86	253	179	59	76	110	*	20
98	Cooke	2456	339	194	126	231	180	46	68	120	*	*
99	Young	1583	330	179	102	247	154	87	55	89	*	*
100	Eastland	1725	323	163	79	266	182	50	55	93	*	*
101	Lavaca	1720	315	221	143	252	198	36	83	145	*	*
102	Washington	2329	313	164	76	255	178	64	79	150	21	37
103	Dewitt	1758	302	195	120	239	172	35	44	73	*	*
104	Lampasas	1582	296	159	79	201	127	78	76	140	*	25
105	Houston	2582	295	146	79	205	130	62	86	145	22	25
106	Karnes	1605	284	188	120	236	184	54	64	105	*	*
107	Panola	1911	283	146	77	199	117	87	91	154	*	*
108	Rockwall	2800	275	149	107	223	165	83	83	153	22	31
109	Nolan	1735	270	142	77	182	122	104	45	75	*	20
110	Robertson	1766	265	132	84	209	130	54	99	214	22	42
111	Waller	2564	256	119	57	182	101	80	73	201	*	23
112	Jackson	1250	247	163	109	196	152	27	78	160	*	25
113	Falls	1684	244	138	76	184	119	41	51	85	*	*
114	Morris	1698	244	131	71	188	109	59	53	86	*	*
115	San Jacinto	2281	241	134	86	168	120	35	76	154	*	24
116	Gonzales	1877	239	126	67	161	119	29	*	30	*	*
117	Colorado	1611	238	97	60	168	108	112	57	94	*	*
118	Hockley	2064	238	107	46	159	95	32	60	78	*	22
119	Bandera	1300	232	106	54	167	100	61	63	123	*	25
120	Fayette	1440	231	135	78	196	140	63	48	91	*	*
121	Kendall	1481	228	143	90	170	143	33	65	124	*	*
122	Calhoun	1568	227	120	80	164	114	34	40	66	*	*
123	Llano	1422	223	123	62	157	109	42	66	125	*	*
124	Red River	1577	223	148	94	184	127	71	64	132	*	*
125	Duval	1543	219	153	101	188	128	30	59	94	*	23
126	Zavala	2038	216	119	65	158	86	95	49	92	*	*
127	Trinity	1513	214	116	62	154	81	34	56	123	*	*
128	Grimes	2013	211	93	40	158	91	71	63	106	*	21
129	Frio	1982	205	121	79	160	99	48	45	82	*	*
130	Tyler	1726	202	96	51	161	106	40	35	60	*	*
131	Wilbarger	1290	197	83	44	133	89	50	34	74	*	*
132	Bosque	1320	193	122	74	151	102	28	31	54	*	*
133	Hutchinson	1567	188	93	47	131	84	38	59	125	25	39
134	Burleson	1292	187	93	49	149	75	75	66	97	*	*

135	Lee	1183	186	94	66	141	94	57	38	78	*	*
136	San Augustine	1146	186	132	92	164	115	33	46	96	*	*
137	Marion	1240	180	85	52	135	87	35	60	106	*	24
138	Reeves	1533	178	108	62	144	100	42	30	43	*	*
139	Lamb	1544	175	95	56	136	82	32	43	78	*	25
140	Gray	1619	174	95	44	128	94	39	57	119	27	47
141	Madison	1173	173	109	62	139	97	35	66	128	*	24
142	Runnels	1039	173	114	66	140	100	48	44	77	*	*
143	Camp	1266	172	100	54	135	84	44	44	77	*	*
144	Brooks	1317	162	106	72	145	92	60	51	113	*	*
145	Austin	1548	160	87	40	103	82	40	45	78	*	*
146	Jones	1427	160	90	45	117	74	*	32	56	*	*
147	Dimmit	1540	156	86	43	122	77	50	32	52	*	*
148	Terry	1279	155	116	66	134	99	*	36	63	*	*
149	Freestone	1282	154	97	49	108	86	22	36	50	*	*
150	Leon	1343	152	81	41	113	83	32	37	80	*	*
151	McCulloch	917	152	83	44	105	78	29	24	37	*	*
152	Scurry	1226	149	74	40	106	75	46	23	36	*	*
153	Newton	1526	147	80	46	116	71	26	32	46	*	*
154	Rains	874	146	71	34	108	64	20	23	35	*	*
155	Refugio	689	141	107	71	123	94	*	31	58	*	*
156	Sabine	1089	138	63	28	106	52	29	25	44	*	*
157	Hamilton	716	137	83	54	97	82	24	*	30	*	*
158	Comanche	1109	134	66	37	94	63	22	38	68	*	*
159	Zapata	1570	130	77	50	105	60	46	39	73	*	*
160	Pecos	1319	128	86	54	100	91	34	22	27	*	*
161	Callahan	882	127	75	36	99	75	*	34	53	*	*
162	Gillespie	1238	126	67	33	96	83	28	24	28	*	*
163	Moore	1514	119	73	47	76	52	30	46	85	*	*
164	Coleman	871	114	59	27	86	52	29	27	31	*	*
165	Deaf Smith	1683	111	63	39	80	64	20	24	38	*	*
166	Chambers	1398	109	46	28	84	54	*	22	41	*	*
167	Stephens	815	109	66	38	81	56	*	26	44	*	*
168	Andrews	1095	108	59	30	71	47	41	*	27	*	*
169	Baylor	474	105	64	47	85	68	21	*	25	*	*
170	Childress	616	104	53	29	79	63	28	*	*	*	*
171	Franklin	706	104	63	45	82	54	25	33	57	*	*
172	Mitchell	717	102	47	26	79	47	34	21	37	*	*
173	Live Oak	845	99	58	37	72	60	21	36	64	*	20
174	Jack	577	94	48	29	68	44	23	*	32	*	*
175	Ward	956	92	57	31	70	41	34	23	37	*	*
176	Delta	481	89	65	50	72	59	*	*	32	*	*
177	Somervell	472	89	51	36	66	57	*	*	29	*	*
178	Real	381	87	54	27	73	58	*	25	37	*	*
179	Blanco	612	86	38	*	61	43	*	*	*	*	*
180	Jim Hogg	755	84	60	36	72	44	27	32	60	*	*
181	Brewster	637	81	40	23	59	34	35	24	66	*	*

229	Jeff Davis	131	*	*	*	*	*	*	*	*	*	*	*
230	Mason	228	*	*	*	*	*	*	*	*	*	*	*
231	Stonewall	98	*	*	*	*	*	*	*	*	*	*	*
232	Dickens	175	*	*	*	*	*	*	*	*	*	*	*
233	Crockett	253	*	*	*	*	*	*	*	*	*	*	*
234	Sterling	72	*	*	*	*	*	*	*	*	*	*	*
235	Armstrong	106	*	*	*	*	*	*	*	*	*	*	*
236	Irion	109	*	*	*	*	*	*	*	*	*	*	*
237	Lipscomb	124	*	*	*	*	*	*	*	*	*	*	*
238	Hemphill	179	*	*	*	*	*	*	*	*	*	*	*
239	Reagan	195	*	*	*	*	*	*	*	*	*	*	*
240	Kent	89	*	*	*	*	*	*	*	*	*	*	*
241	Sutton	256	*	*	*	*	*	*	*	*	*	*	*
242	Briscoe	103	*	*	*	*	*	*	*	*	*	*	*
243	Throckmorton	98	*	*	*	*	*	*	*	*	*	*	*
244	Oldham	95	*	*	*	*	*	*	*	*	*	*	*
245	Terrell	71	*	*	*	*	*	*	*	*	*	*	*
246	Edwards	181	*	*	*	*	*	*	*	*	*	*	*
247	Motley	80	*	*	*	*	*	*	*	*	*	*	*
248	Sherman	118	*	*	*	*	*	*	*	*	*	*	*
249	McMullen	50	*	*	*	*	*	*	*	*	*	*	*
250	Borden	*	*	*	*	*	*	*	*	*	*	*	*
251	Kenedy	42	*	*	*	*	*	*	*	*	*	*	*
252	Loving	*	*	*	*	*	*	*	*	*	*	*	*
253	King	*	*	*	*	*	*	*	*	*	*	*	*
254	Roberts	31	*	*	*	*	*	*	*	*	*	*	*
255	Glasscock	20	*	*	*	*	*	*	*	*	*	*	*
Total		1877327	232348	114632	62923	175827	101569	58394	64891	130012	17501		29833

Appendix A

ICD-9 Codes Used to Identify Cases with SMI Diagnoses

ICD-9 Codes	Description
Schizophrenia, including schizoaffective disorder	295.0x Simple type schizophrenia
	295.1x Disorganized type schizophrenia
	295.2x Catatonic type schizophrenia
	295.3x Paranoid type schizophrenia
	295.4x Schizophreniform disorder
	295.5x Latent schizophrenia
	295.6x Schizophrenic disorders, residual type
	295.7x Schizoaffective disorder
	295.8x Other specified types of schizophrenia
	295.9x Unspecified type schizophrenia
Major depressive	296.2x Major depressive affective disorder single episode
	296.3x Major depressive affective disorder recurrent episode
	311 Depressive disorder not elsewhere classified
Bipolar disorder	296.0x Bipolar disorder, single manic episode
	296.1x Manic affective disorder recurrent episode
	296.4x Bipolar disorder, most recent episode (or current) manic
	296.5x Bipolar disorder, most recent episode (or current) depressed
	296.6x Bipolar disorder, most recent episode (or current) mixed
	296.7x Bipolar disorder, most recent episode (or current) unspecified
	296.8x Bipolar disorder/atypical manic disorder/atypical depressive disorder/other and unspecified bipolar disorders, other
	296.9x Unspecified episodic mood disorder/other specified episodic mood disorder

Appendix B

Comorbidity Groups and Associated ICD-9 and 10 Diagnosis Codes

	Comorbidity	ICD10	ICD9
1	Diabetes mellitus	E10–E14	250
2	Diseases of heart	I00–I09,I11,I13,I20–I51	390-398 , 402 , 404 , 410 , 411 , 412 - 417 , 420 , 421 , 422 -429
3	Chronic lower respiratory diseases	J40–J47	490 -494 , 496
4	Disorders of lipid metabolism (High cholesterol)	E78,E88.1	272
5	Arthritis	M05,M06,M08,M13	714.0-714.3,715
6	Cerebrovascular diseases	I60–I69	430-434, 436-438
7	Nephritis, nephrotic syndrome and nephrosis	N00–N07,N17–N19,N25–N27	580 -589
8	Influenza and pneumonia	J10–J18	487-488.1,480-486
9	Malignant neoplasms	C00–C97	140-175 , 179 -208
10	Septicemia	A40–A41	038
11	Alzheimer's disease	G30	331.0
12	Osteoporosis	M80,M81	733.0
13	Hepatitis C	B17.1 ,B18.2,B19.2	070.41 , 070.44, 070.51,070.54, 070.7