Pennsylvania State Hospital and Restoration Center System: Length of Stay, Demographics, and Diagnoses Report

Pennsylvania Department of Human Services

Office of Mental Health and Substance Abuse Services

January 2017 – December 2017

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Introduction and Purpose

This report is created and prepared by the Pennsylvania Office of Mental Health and Substance Abuse Services (OMHSAS). The information contained within this report is extracted from the Patient Tracking System (PTS) of the State Facility Tracking System. The medical records staff at each of the six state hospitals and one restoration center are continually updating PTS with the necessary information of any individual served.

The purpose of this report is to provide the reader with an overview of lengths of stay, demographics, and diagnosis information, as it exists on the last day of the month for each of the state hospitals. This report is a limited data set designed for the purposes of research, public health, or health care operations in accordance with 45 C.F.R. § 164.502.

Counts of individuals that are less than 11 individuals include the designation of "<11" to protect the confidentiality of individuals in accordance with the Department's data governance policies.

Each table, chart, and graph are labeled regarding the content contained within the visualization. For definitions of terminology and data used, please refer to the appendix.

End of Month Census by Facility between January 1, 2017 and December 31, 2017

Month	Psychiatric							Forensic			Long Term	SRTP	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	TOR	Total
Jan. 2017	186	159	53	159	151	262	970	193	104	297	147	52	1466
Feb. 2017	185	161	53	162	146	264	971	199	104	303	146	52	1472
Mar. 2017	184	159	54	161	147	258	963	200	111	311	149	53	1476
Apr. 2017	184	156	54	159	146	262	961	201	108	309	146	53	1469
May 2017	182	160	53	158	151	262	966	202	108	310	147	53	1476
Jun. 2017	181	160	53	154	151	260	959	202	108	310	147	54	1470
Jul. 2017	180	161	51	158	151	260	961	205	111	316	147	55	1479
Aug. 2017	184	159	51	157	149	261	961	204	114	318	146	55	1480
Sep. 2017	182	159	51	151	149	262	954	203	112	315	143	55	1467
Oct. 2017	181	161	52	153	150	259	956	205	111	316	143	55	1470
Nov. 2017	179	159	40	153	150	258	939	203	114	317	143	55	1454
Dec. 2017	175	154	36	147	147	261	920	200	111	311	143	55	1429

This table provides the number of persons in each facility on the last day of each month. Counts are separated by facility and level of care.

Number of Admissions and Discharges per Facility between January 1, 2017 and December 31, 2017

Process	Psychiatric							Forensic			Long Term	SRTP	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	TOR	Total
Admissions	57	65	<11	60	86	63	337	108	172	280	27	<11	647
Discharges	71	70	23	79	83	64	390	106	166	272	29		691

This table provides the number of persons admitted to, and discharged from, each facility over the past year. Counts are separated by facility and level of care.

Age of Patients in the State Hospital System as of December 31, 2017

Age	Psychiatric							Forensic			Long Term	SRTP	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	TOR	Total
Census	175	154	36	147	147	261	920	200	111	311	143	55	1429
< 21	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11

Age	Psychiatric							Forensic			Long Term	SRTP	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	TOR	Total
> 21	174	153	36	146	145	260	914	197	110	307	143	55	1419
30-39	24	20	11	22	13	33	123	43	24	67	<11	18	210
40-49	20	25	<11	22	21	33	126	42	16	58	<11	<11	192
50-59	48	41	13	47	44	66	259	46	20	66	23	<11	348
60-69	55	42	16	37	40	69	259	28	12	40	48	<11	347
70-79	19	11	<11	<11	14	20	75	<11	<11	14	43	<11	132
80-89	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	19	<11	27
90-99	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
> 65	45	26	<11	21	29	47	175	18	<11	28	91	<11	294

This table provides the number of persons in each listed age range, as well as the end-of-year census. Counts are separated by facility and level of care.

Race and Gender for Patients in the State Hospital System as of December 31, 2017

Race and Gender	Psychiatric							Forensic			Long Term	SRTP	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	TOR	Total
American Indian/Alaskan Native	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Asian/Pacific Islander	<11	<11	<11	<11	<11	<11	11	<11	<11	<11	<11	<11	18
Black Hispanic	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Black Non-Hispanic	<11	23	11	<11	17	37	107	118	39	157	30	<11	297
White Hispanic	<11	<11	<11	<11	<11	32	43	16	<11	17	<11	<11	68
White Non-Hispanic	159	123	22	132	125	184	745	60	69	129	105	50	1029
Other	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Female	64	64	13	62	60	91	354	31	21	52	55	<11	461
Male	111	90	23	85	87	170	566	169	90	259	88	55	968

Race and Gender for Patients Discharged between January 1, 2017 and December 31, 2017

Race and Gender	Psychiatric							Forensic			Long Term	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	Total
Asian/Pacific Islander	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Black Hispanic	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Black Non-Hispanic	<11	<11	<11	16	<11	<11	41	60	56	116	<11	163

Race and Gender	Psychiatric							Forensic			Long Term	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	Total
White Hispanic	<11	<11	<11	<11	<11	<11	16	14	<11	17	<11	34
White Non-Hispanic	60	61	18	62	72	54	327	29	105	134	21	482
Other	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Female	26	31	12	42	42	33	186	16	40	56	14	256
Male	45	39	11	37	41	31	204	90	126	216	15	435

Commitment Type of Patients in the State Hospital System as of December 31, 2017, Legal Status Code

Legal Status	Status Description	CLA	DAN	NOR	SOU	TOR	WAR	WER	Total
0	For use by Restoration Centers and ICF Units of State Mental Hospitals.	<11	<11	<11	62	<11	<11	<11	62
1	For use by Restoration Centers and SNF Units of State Mental Hospitals.	<11	<11	<11	67	<11	<11	<11	67
21	ACT 21 SRTP Commitment	<11	<11	<11	<11	55	<11	<11	55
2300	Voluntary admission of an adult.	<11	<11	<11	<11	<11	<11	<11	13
2400	Conversion to voluntary from an involuntary commitment (302, 303, 304, or 305).	<11	<11	<11	<11	<11	<11	<11	<11
3200	Involuntary emergency commitment.	<11	<11	<11	<11	<11	<11	<11	<11
3300	Extended involuntary emergency commitment.	<11	<11	<11	<11	<11	<11	<11	<11
3400	Involuntary commitment of a person currently receiving emergency involuntary treatment in a State Mental Hospital.	<11	<11	<11	<11	<11	<11	<11	<11
3500	Involuntary commitment of a person currently receiving voluntary treatment in a State Mental Hospital.	<11	<11	<11	<11	<11	<11	<11	<11
3600	Involuntary commitment of a person not currently receiving treatment in a State Mental Hospital or other psychiatric service.	<11	<11	<11	<11	<11	<11	22	24
3700	Involuntary commitment of a person currently receiving treatment in a psychiatric service other than a State Mental Hospital.	112	71	<11	<11	90	115	67	465
3800	Involuntary commitment of a person found not guilty by reason of insanity.	<11	<11	<11	<11	<11	<11	<11	12
3900	Involuntary criminal commitment of a person found incompetent to stand trial on charges enumerated under Section 304.	<11	<11	<11	<11	<11	<11	<11	16
4000	Extended involuntary commitment.	31	75	13	<11	50	25	130	324
4030	Hearing/Determination of Incompetency to Proceed/Stay/Dismiss	<11	<11	<11	<11	<11	<11	<11	<11
4100	Extended involuntary commitment of a person found not guilty by reason of insanity.	<11	<11	<11	<11	<11	<11	<11	<11
4200	Extended involuntary commitment of a person found incompetent to stand trial on charges enumerated under Section 304.	<11	<11	<11	<11	<11	<11	<11	11
7000	Involuntary commitment for up to 60 days of a person found incompetent to stand trial who is not mentally disabled.	<11	<11	159	<11	63	<11	<11	224
7500	Involuntary commitment for examination of a person convicted of a crime as an aid in sentencing.	<11	<11	13	<11	<11	<11	<11	22
8000	Involuntary emergency commitment of a person charged with or convicted of a criminal offense, including a person on probation or parole.	<11	<11	<11	<11	<11	<11	<11	<11
8100	Extended involuntary emergency commitment of a person charged with or convicted of a criminal offense, including a person on probation or parole.	<11	<11	<11	<11	<11	<11	<11	<11
8200	Involuntary commitment of a person charged with or convicted of a criminal offense, including a person on probation or parole.	13	<11	18	<11	28	<11	<11	70
8300	Extended involuntary commitment of a person charged with or convicted of a criminal offense, including a person on probation or parole.	<11	<11	<11	<11	<11	<11	<11	18

This table provides the number of patients in each facility that were admitted under specific legal status codes.

Commitment Type of Patients in the State Hospital System as of December 31, 2017, Section of the Law

Commitment Code	CLA	DAN	NOR	SOU	TOR	WAR	WER	Total
201b	<11	<11	<11	<11	<11	<11	<11	18
21	0	<11	<11	<11	55	<11	<11	55
304	130	77	30	<11	125	120	120	603
305	34	76	31	<11	56	25	134	356
402b	0	<11	159	<11	63	<11	<11	224
405	0	<11	13	<11	<11	<11	<11	22

This table provides the number of patients in each facility that were admitted under specific sections of the law.

Veteran Status of Patients in the State Hospital System as of December 31, 2017

Veteran Status	Psychiatric							Forensic			Long Term	SRTP	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	TOR	Total
Non-Veteran	168	150	36	143	144	260	901	196	101	297	137	55	1,390
Veteran	<11	<11	<11	<11	<11	<11	19	<11	<11	14	<11	<11	39

This table provides details regarding the veteran status of patients in each facility, separated by level of care.

Level of Education of Patients in the State Hospital System as of December 31, 2017

Level of Education	Psychiatric							Forensic			Long Term	SRTP	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	TOR	Total
Preschool (persons only ENROLLED in preschool)	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Second Grade	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Third Grade	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Fourth Grade	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Fifth Grade	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Sixth Grade	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Seventh Grade	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	11
Eighth Grade	<11	<11	<11	<11	<11	<11	15	<11	<11	<11	<11	<11	29
Ninth Grade	<11	<11	<11	<11	<11	<11	26	<11	<11	<11	<11	<11	32
Tenth Grade	<11	<11	<11	<11	<11	16	37	<11	<11	<11	12	<11	56
Eleventh Grade	<11	13	<11	<11	<11	13	37	<11	11	11	<11	<11	55
Twelfth Grade	46	72	<11	98	<11	80	306	<11	42	48	33	47	434
First Year College	<11	<11	<11	<11	<11	<11	24	<11	<11	<11	<11	<11	34
Second Year College	<11	<11	<11	<11	<11	<11	25	<11	<11	<11	<11	<11	40
Third Year College	<11	<11	<11	<11	<11	<11	11	<11	<11	<11	<11	<11	13
Fourth Year College	<11	14	<11	<11	<11	<11	30	<11	<11	<11	<11	<11	43
Special Education (inc. persons presently enrolled)	<11	<11	<11	<11	<11	11	12	<11	<11	<11	<11	<11	20
Attended school but never completed grade	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11

This table provides details regarding the level of education of patients in each facility, separated by level of care. Data for level of education was collected at time of admission. Please note that only 55.4% of data have valid entries for employment status. Invalid entries have been filtered out.

Marital status of Patients in the State Hospital System as of December 31, 2017

Marital Status	Psychiatric							Forensic			Long Term	SRTP	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	TOR	Total
Divorced	19	30	<11	24	21	29	125	<11	13	23	43	<11	191
Married	<11	<11	<11	<11	<11	<11	31	12	<11	20	11	<11	62
Separated	<11	<11	<11	<11	<11	<11	23	<11	<11	<11	<11	<11	34
Single	143	114	30	110	110	160	667	162	82	244	68	54	1,033
Widowed	<11	<11	<11	<11	<11	<11	16	<11	<11	<11	11	<11	29

This table provides details regarding the marital status of patients in each facility, separated by level of care. Data for marital status was collected at time of admission. Please note that only 94.4% of data have valid entries for employment status. Invalid entries have been filtered out.

Employment Status of Patients in the State Hospital System as of December 31, 2017

Employment Status	Psychiatric							Forensic			Long Term	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	Total
Employed - Full-Time	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Employed - Part-Time (Sheltered workshop - Competitive)	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Retired	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	11	18
Unemployed - (includes not gainfully employed)	<11	140	<11	<11	100	15	267	<11	12	21	88	376

This table provides details regarding the employment status of patients in each facility, separated by level of care. Data for employment status was collected at time of admission. Please note that only 27.7% of data have valid entries for employment status. Invalid entries have been filtered out.

Length of Stay for Patients Discharged between January 1, 2017 and December 31, 2017

LOS	Psychiatric							Forensic			Long Term	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	Total
< 6 months	17	<11	<11	21	31	<11	86	34	95	129	<11	219
< 12 months	38	31	<11	37	58	20	185	60	147	207	<11	399
< 2 Years	53	53	<11	56	70	33	268	79	163	242	11	521
< 3 Years	57	61	<11	59	75	38	294	90	164	254	12	560
< 4 Years	59	63	<11	61	76	43	311	93	165	258	17	586
< 5 Years	60	64	12	63	80	46	325	94	165	259	22	606
< 10 Years	67	67	17	71	82	54	358	99	166	265	25	648
< 15 Years	69	69	19	73	82	60	372	101	166	267	28	667
< 20 Years	69	69	20	76	82	61	377	104	166	270	28	675
< 25 Years	69	70	20	77	82	63	381	104	166	270	29	680
< 30 Years	71	70	23	77	82	63	386	106	166	272	29	687
< 40 Years	71	70	23	78	83	64	389	106	166	272	29	690
< 50 Years	71	70	23	79	83	64	390	106	166	272	29	691

This table provides the number of patients discharged during the past year whose length of stay in the state hospital system is less than a specified length of time. Counts are separated by facility and level of care.

This table is also available separated by mental health diagnosis later in this document.
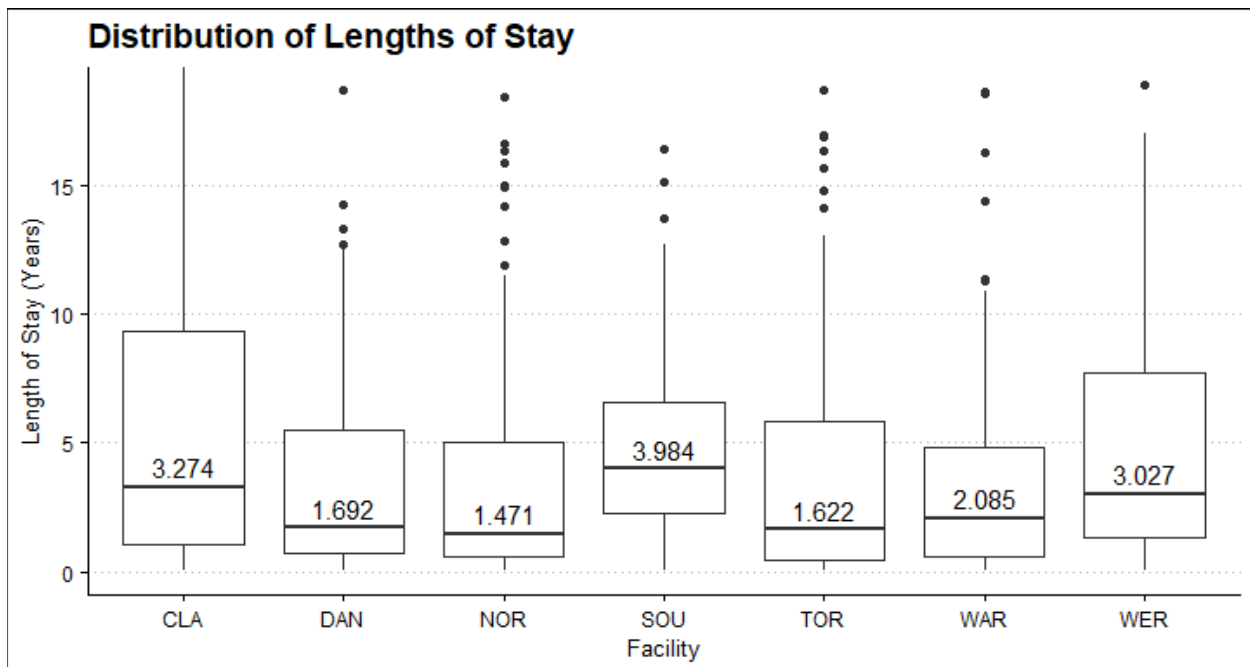
Distributions and Mean Lengths of Stay

The plots in this section detail the distribution of lengths of stay at each state hospital and are separated by level of care. This section also contains plots that detail the average length of stay for each state hospital.

Mean and Median Lengths of Stay of Patients in the State Hospital System as of December 31, 2017

Measure	Psychiatric						Forensic		Long Term	SRTP
	CLA	DAN	NOR	TOR	WAR	WER	NOR	TOR	SOU	TOR
Mean	6.52	4.76	8.57	5.25	4.6	5.54	3.21	1.07	4.98	6.37
Median	3.27	1.69	4.17	2.85	2.08	3.03	1.36	0.41	3.98	5.94

This table displays the mean and median lengths of stay, separated by state hospital and level of care by number of years.

Distribution of Lengths of Stay of Patients in the State Hospital System as of December 31, 2017, All Levels of Care

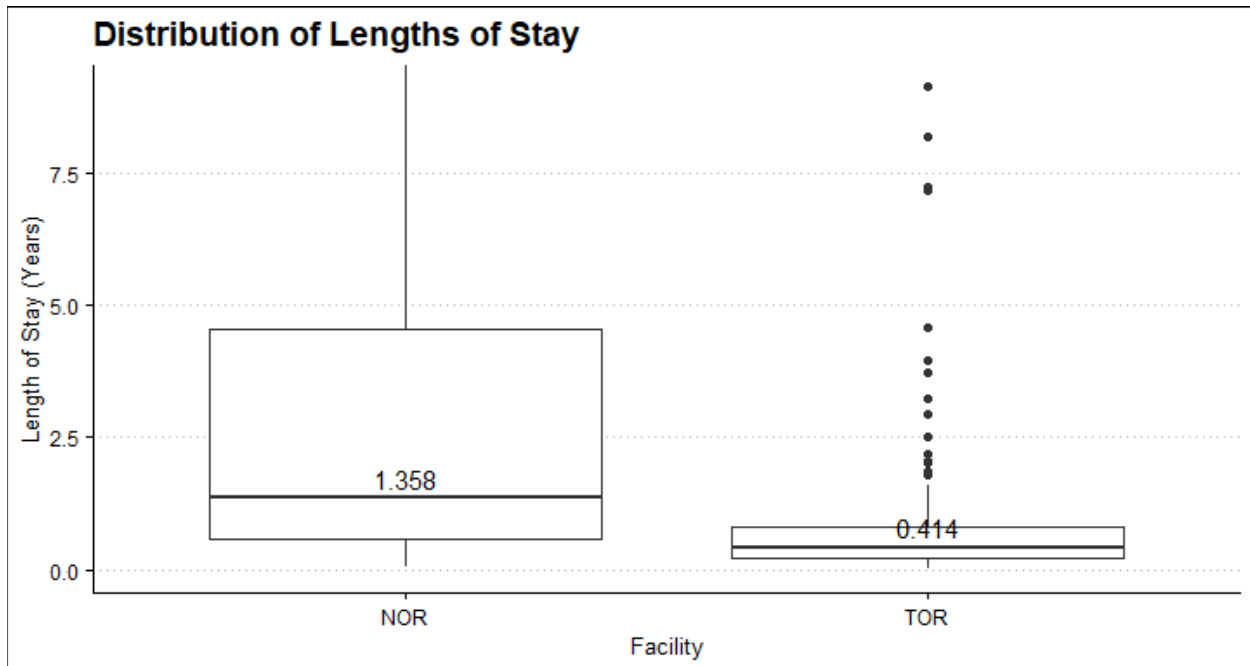This plot displays the distribution of lengths of stay for patients in all levels of care using a boxplot. Please note that any values above 18.6 years (twice the greatest third quartile) are not displayed (this has no effect on the distribution).

The lower and upper ends of the box represent the first and third quartiles, respectively, while the line through the middle of the box represents the median. For example, the
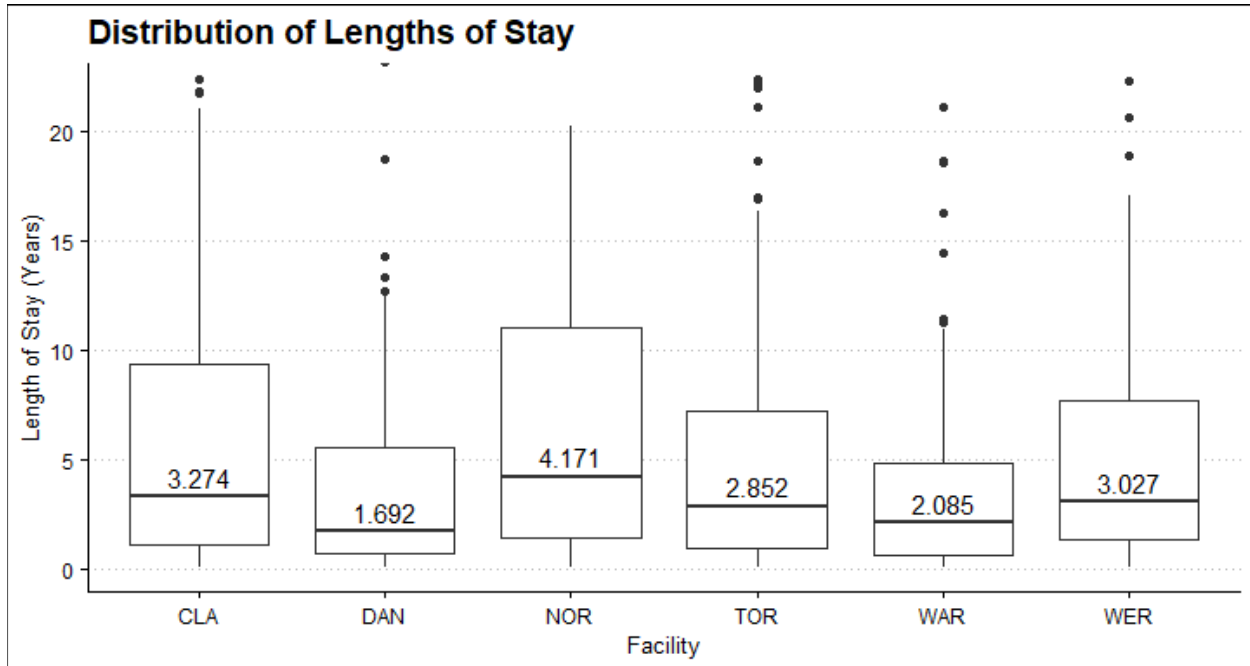
median for CLA on this plot is approximately 3.274 years, the first quartile is 1.071 years, and the third quartile is 9.296 years. On a box plot, 25% of the data fits between each quartile. Therefore, for CLA on this plot, 25% of the lengths of stay at CLA are below 1.071 years, 25% of lengths of stay are between 1.071 years and 3.274 years, 25% are between 3.274 years and 9.296 years, and 25% are above 9.296 years.

Distribution of Lengths of Stay of Patients in the State Hospital System as of December 31, 2017, Forensic Care

This plot displays the distribution of lengths of stay for patients in forensic care using a boxplot. The lower and upper ends of the box represent the first and third quartiles, respectively, while the line through the middle of the box represents the median (labeled). Please note that any values above 9.1 years (twice the greatest third quartile) are not displayed (this has no effect on the distribution).

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Distribution of Lengths of Stay of Patients in the State Hospital System as of December 31, 2017, Psychiatric Care

This plot displays the distribution of lengths of stay for patients in psychiatric care using a boxplot. The lower and upper ends of the box represent the first and third quartiles, respectively, while the line through the middle of the box represents the median (labeled). Please note that any values above 21.9 years (twice the greatest third quartile) are not displayed (this has no effect on the distribution).

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Distribution of Lengths of Stay of Patients in the State Hospital System as of December 31, 2017, Long Term Care
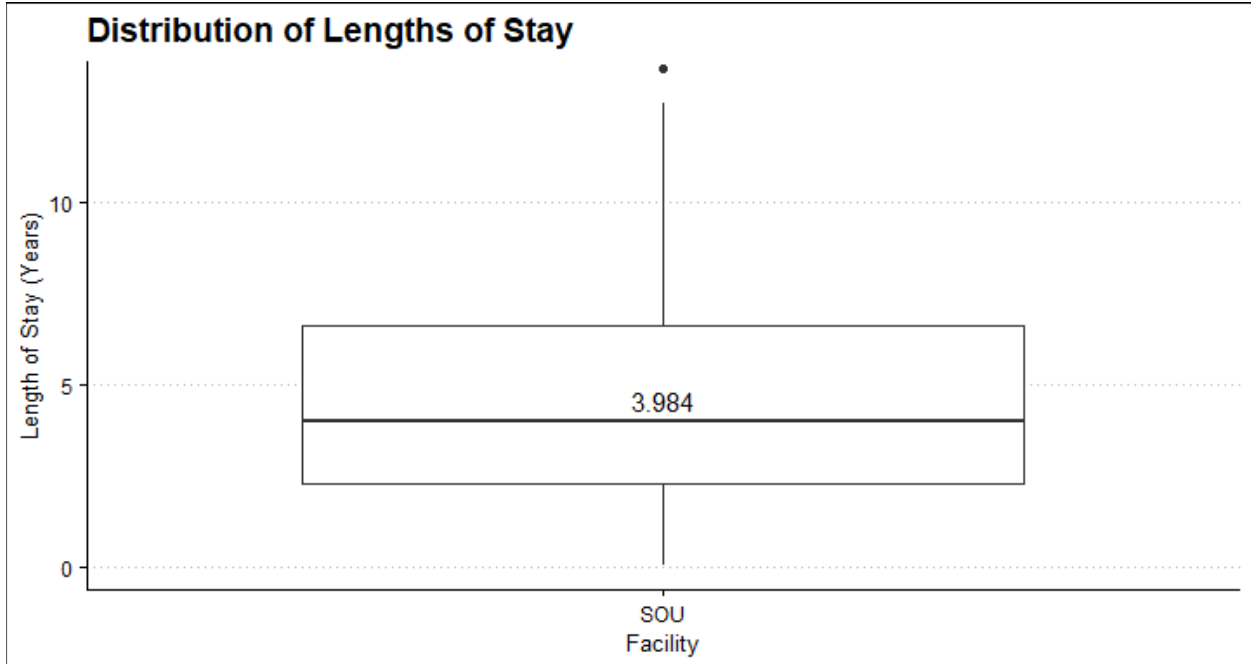
Distribution of Lengths of Stay

This plot displays the distribution of lengths of stay for patients in long term care using a boxplot. The lower and upper ends of the box represent the first and third quartiles, respectively, while the line through the middle of the box represents the median (labeled). Please note that any values above 13.2 years (twice the greatest third quartile) are not displayed (this has no effect on the distribution).

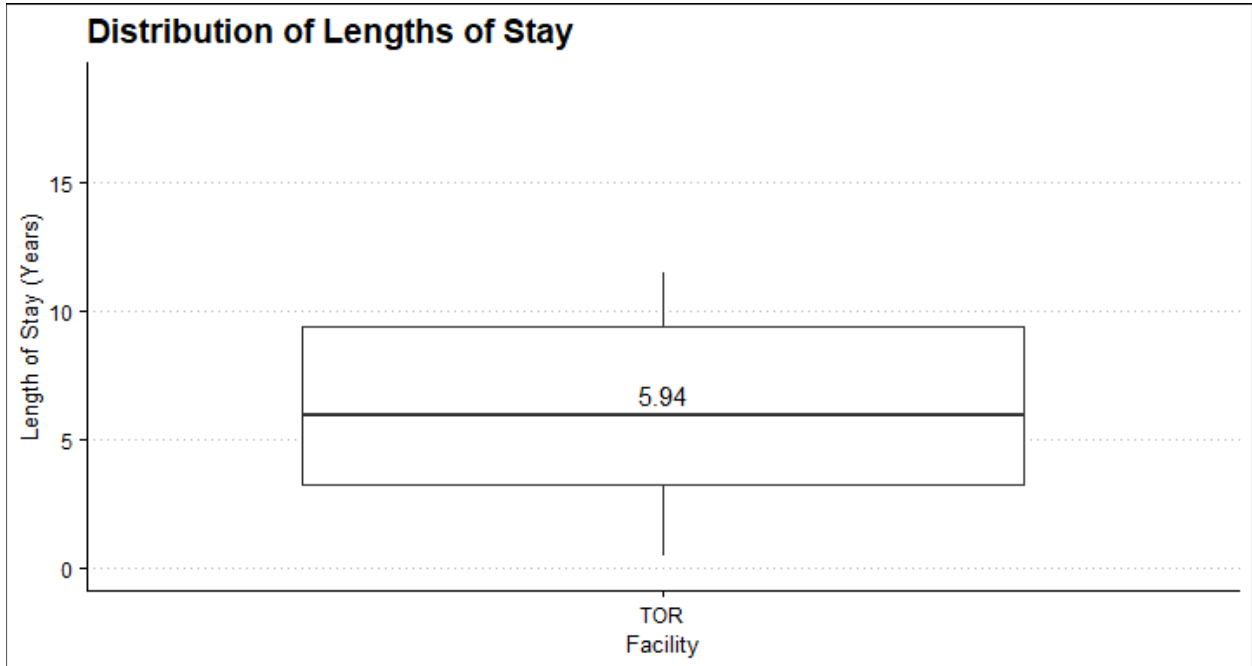## Distribution of Lengths of Stay of Patients in the State Hospital System as of December 31, 2017, Sexual Responsibility and Treatment Program

Distribution of Lengths of Stay

This plot displays the distribution of lengths of stay for patients in the sexual responsibility and treatment program using a boxplot. The lower and upper ends of the box represent the first and third quartiles, respectively, while the line through the middle of the box represents the median (labeled). Please note that any values above 18.7 years (twice the greatest third quartile) are not displayed (this has no effect on the distribution).

County of Origin for New Patients

This section breaks down the new patients to the state hospital system by county of origin and provides the raw counts of patients admitted from each county, and that county's total population. Additionally, these charts display the percent of all new patients that were admitted from each county, and the percent of the PA state population that resides within that county.

The "Significance Level" column displays the level of statistical significance of the difference between the "Percent of Total Patients Admitted" and the "County's Proportion of State Population." For more information, see the "Methodology" section of the appendix.

High statistical significance indicates that there is a significant difference between the proportion of patients in PA state hospitals that originate from a given county and that county's proportion of the state population. If each county committed the same number of patients to the state hospitals after adjusting for differences in population between counties, then the difference between these proportions should not be statistically significant.

If a county did not commit any patients to the state hospital system during the year, then that county will not be displayed in the table. Their population will still be taken into account when calculating population proportions.

County of Origin for New Patients between January 1, 2017 and December 31, 2017, All Levels of Care, Raw Counts and Proportions

County	Total Population	County's Proportion of State Population	Number of Patients	Percent of Total Patients Admitted	Significance Level
Adams	101759	0.796%	<11	0.773%	Not Significant
Allegheny	1230360	9.624%	85	13.138%	Significant (0.01)
Armstrong	67512	0.528%	<11	0.309%	Not Significant
Beaver	169205	1.324%	<11	0.309%	Significant (0.05)
Bedford	48852	0.382%	<11	0.618%	Not Significant
Berks	414097	3.239%	28	4.328%	Not Significant
Blair	125917	0.985%	<11	1.546%	Not Significant
Bradford	61808	0.483%	<11	0.927%	Not Significant
Bucks	626220	4.898%	<11	0.773%	Significant (0.001)
Butler	185974	1.455%	11	1.7%	Not Significant
Cambria	137762	1.078%	13	2.009%	Significant (0.05)
Cameron	4807	0.038%	<11	0.309%	Significant (0.05)
Carbon	64330	0.503%	<11	0.464%	Not Significant
Centre	159178	1.245%	<11	0.773%	Not Significant
Chester	512028	4.005%	<11	0.464%	Significant (0.001)
Clarion	38939	0.305%	<11	0.618%	Not Significant
Clearfield	81170	0.635%	<11	1.546%	Significant (0.01)
Clinton	39536	0.309%	<11	0.309%	Not Significant
Columbia	66772	0.522%	<11	0.927%	Not Significant
Crawford	87027	0.681%	11	1.7%	Significant (0.01)
Cumberland	243838	1.907%	12	1.855%	Not Significant
Dauphin	271962	2.127%	18	2.782%	Not Significant
Delaware	562316	4.399%	13	2.009%	Significant (0.01)
Elk	31111	0.243%	<11	0.927%	Significant (0.01)
Erie	279133	2.183%	28	4.328%	Significant (0.001)

County	Total Population	County's Proportion of State Population	Number of Patients	Percent of Total Patients Admitted	Significance Level
Fayette	134229	1.05%	<11	0.773%	Not Significant
Franklin	152707	1.195%	36	5.564%	Significant (0.001)
Greene	37669	0.295%	<11	0.309%	Not Significant
Huntingdon	45844	0.359%	<11	0.155%	Not Significant
Indiana	87491	0.684%	<11	1.236%	Not Significant
Jefferson	44575	0.349%	<11	1.082%	Significant (0.01)
Lackawanna	213006	1.666%	19	2.937%	Significant (0.05)
Lancaster	533110	4.17%	21	3.246%	Not Significant
Lawrence	88528	0.692%	<11	0.464%	Not Significant
Lebanon	136950	1.071%	<11	1.236%	Not Significant
Lehigh	358792	2.807%	<11	1.391%	Significant (0.05)
Luzerne	318917	2.495%	20	3.091%	Not Significant
Lycoming	116313	0.91%	<11	1.236%	Not Significant
McKean	42609	0.333%	<11	1.082%	Significant (0.01)
Mercer	114598	0.896%	21	3.246%	Significant (0.001)
Monroe	167126	1.307%	<11	1.546%	Not Significant
Montgomery	815876	6.382%	<11	1.546%	Significant (0.001)
Montour	18404	0.144%	<11	0.309%	Not Significant
Northampton	300520	2.351%	<11	1.082%	Significant (0.05)
Northumberland	93590	0.732%	<11	1.082%	Not Significant
Out of State	<11	0%	<11	0.618%	Significant (0.001)
Perry	45647	0.357%	<11	0.155%	Not Significant
Philadelphia	1559938	12.202%	52	8.037%	Significant (0.01)
Pike	56210	0.44%	<11	0.155%	Not Significant
Schuylkill	145503	1.138%	14	2.164%	Significant (0.05)
Snyder	40246	0.315%	<11	0.155%	Not Significant
Somerset	76201	0.596%	<11	0.155%	Not Significant
Tioga	42031	0.329%	<11	0.927%	Significant (0.05)

County	Total Population	County's Proportion of State Population	Number of Patients	Percent of Total Patients Admitted	Significance Level
Union	45178	0.353%	<11	0.155%	Not Significant
Venango	53460	0.418%	<11	0.618%	Not Significant
Warren	40649	0.318%	<11	1.391%	Significant (0.001)
Washington	208269	1.629%	<11	0.464%	Significant (0.05)
Wayne	51307	0.401%	<11	0.155%	Not Significant
Westmoreland	359377	2.811%	17	2.628%	Not Significant
York	440604	3.447%	24	3.709%	Not Significant

County of Origin for New Patients between January 1, 2017 and December 31, 2017, Psychiatric Care, Raw Counts and Proportions

County	Total Population	County's Proportion of State Population	Number of Patients	Percent of Total Patients Admitted	Significance Level
Allegheny	1230360	9.624%	<11	0.297%	Significant (0.001)
Armstrong	67512	0.528%	<11	0.593%	Not Significant
Bedford	48852	0.382%	<11	0.297%	Not Significant
Berks	414097	3.239%	17	5.045%	Not Significant
Blair	125917	0.985%	<11	2.374%	Significant (0.05)
Bradford	61808	0.483%	<11	1.187%	Not Significant
Bucks	626220	4.898%	<11	0.297%	Significant (0.001)
Butler	185974	1.455%	<11	2.967%	Significant (0.05)
Cambria	137762	1.078%	<11	2.967%	Significant (0.01)
Cameron	4807	0.038%	<11	0.297%	Not Significant
Carbon	64330	0.503%	<11	0.593%	Not Significant
Centre	159178	1.245%	<11	1.484%	Not Significant
Clarion	38939	0.305%	<11	0.89%	Not Significant
Clearfield	81170	0.635%	<11	2.671%	Significant (0.001)
Clinton	39536	0.309%	<11	0.593%	Not Significant
Columbia	66772	0.522%	<11	1.484%	Significant (0.05)
Crawford	87027	0.681%	<11	1.78%	Significant (0.05)
Cumberland	243838	1.907%	<11	1.484%	Not Significant
Dauphin	271962	2.127%	13	3.858%	Significant (0.05)
Elk	31111	0.243%	<11	1.484%	Significant (0.001)
Erie	279133	2.183%	23	6.825%	Significant (0.001)
Fayette	134229	1.05%	<11	0.89%	Not Significant
Franklin	152707	1.195%	<11	1.78%	Not Significant
Huntingdon	45844	0.359%	<11	0.297%	Not Significant
Indiana	87491	0.684%	<11	1.78%	Significant (0.05)

County	Total Population	County's Proportion of State Population	Number of Patients	Percent of Total Patients Admitted	Significance Level
Jefferson	44575	0.349%	<11	1.78%	Significant (0.001)
Lackawanna	213006	1.666%	18	5.341%	Significant (0.001)
Lancaster	533110	4.17%	16	4.748%	Not Significant
Lawrence	88528	0.692%	<11	0.297%	Not Significant
Lebanon	136950	1.071%	<11	2.374%	Significant (0.05)
Lehigh	358792	2.807%	<11	1.187%	Not Significant
Luzerne	318917	2.495%	17	5.045%	Significant (0.01)
Lycoming	116313	0.91%	<11	1.78%	Not Significant
McKean	42609	0.333%	<11	2.077%	Significant (0.001)
Mercer	114598	0.896%	17	5.045%	Significant (0.001)
Monroe	167126	1.307%	<11	2.374%	Not Significant
Montgomery	815876	6.382%	<11	0.593%	Significant (0.001)
Montour	18404	0.144%	<11	0.593%	Not Significant
Northampton	300520	2.351%	<11	0.89%	Not Significant
Northumberland	93590	0.732%	<11	2.077%	Significant (0.01)
Out of State	<11	0%	<11	1.187%	Significant (0.001)
Philadelphia	1559938	12.202%	<11	0.89%	Significant (0.001)
Pike	56210	0.44%	<11	0.297%	Not Significant
Schuylkill	145503	1.138%	14	4.154%	Significant (0.001)
Somerset	76201	0.596%	<11	0.297%	Not Significant
Tioga	42031	0.329%	<11	1.78%	Significant (0.001)
Union	45178	0.353%	<11	0.297%	Not Significant
Venango	53460	0.418%	<11	0.89%	Not Significant
Warren	40649	0.318%	<11	2.077%	Significant (0.001)
Washington	208269	1.629%	<11	0.297%	Not Significant
Wayne	51307	0.401%	<11	0.297%	Not Significant
Westmoreland	359377	2.811%	16	4.748%	Significant (0.05)
York	440604	3.447%	<11	2.374%	Not Significant

County of Origin for New Patients between January 1, 2017 and December 31, 2017, Forensic Care, Raw Counts and Proportions

County	Total Population	County's Proportion of State Population	Number of Patients	Percent of Total Patients Admitted	Significance Level
Adams	101759	0.796%	<11	1.786%	Not Significant
Allegheny	1230360	9.624%	83	29.643%	Significant (0.001)
Beaver	169205	1.324%	<11	0.714%	Not Significant
Bedford	48852	0.382%	<11	1.071%	Not Significant
Berks	414097	3.239%	11	3.929%	Not Significant
Blair	125917	0.985%	<11	0.714%	Not Significant
Bradford	61808	0.483%	<11	0.714%	Not Significant
Bucks	626220	4.898%	<11	1.429%	Significant (0.05)
Butler	185974	1.455%	<11	0.357%	Not Significant
Cambria	137762	1.078%	<11	1.071%	Not Significant
Cameron	4807	0.038%	<11	0.357%	Not Significant
Carbon	64330	0.503%	<11	0.357%	Not Significant
Chester	512028	4.005%	<11	1.071%	Significant (0.05)
Clarion	38939	0.305%	<11	0.357%	Not Significant
Clearfield	81170	0.635%	<11	0.357%	Not Significant
Columbia	66772	0.522%	<11	0.357%	Not Significant
Crawford	87027	0.681%	<11	1.786%	Not Significant
Cumberland	243838	1.907%	<11	2.143%	Not Significant
Dauphin	271962	2.127%	<11	1.429%	Not Significant
Delaware	562316	4.399%	13	4.643%	Not Significant
Elk	31111	0.243%	<11	0.357%	Not Significant
Erie	279133	2.183%	<11	1.786%	Not Significant
Fayette	134229	1.05%	<11	0.714%	Not Significant
Franklin	152707	1.195%	<11	2.5%	Not Significant
Greene	37669	0.295%	<11	0.714%	Not Significant

County	Total Population	County's Proportion of State Population	Number of Patients	Percent of Total Patients Admitted	Significance Level
Indiana	87491	0.684%	<11	0.714%	Not Significant
Jefferson	44575	0.349%	<11	0.357%	Not Significant
Lackawanna	213006	1.666%	<11	0.357%	Not Significant
Lancaster	533110	4.17%	<11	1.786%	Not Significant
Lawrence	88528	0.692%	<11	0.714%	Not Significant
Lehigh	358792	2.807%	<11	1.786%	Not Significant
Luzerne	318917	2.495%	<11	1.071%	Not Significant
Lycoming	116313	0.91%	<11	0.714%	Not Significant
Mercer	114598	0.896%	<11	1.429%	Not Significant
Monroe	167126	1.307%	<11	0.714%	Not Significant
Montgomery	815876	6.382%	<11	2.857%	Significant (0.05)
Northampton	300520	2.351%	<11	1.429%	Not Significant
Perry	45647	0.357%	<11	0.357%	Not Significant
Philadelphia	1559938	12.202%	49	17.5%	Significant (0.01)
Snyder	40246	0.315%	<11	0.357%	Not Significant
Venango	53460	0.418%	<11	0.357%	Not Significant
Warren	40649	0.318%	<11	0.714%	Not Significant
Washington	208269	1.629%	<11	0.714%	Not Significant
Westmoreland	359377	2.811%	<11	0.357%	Significant (0.05)
York	440604	3.447%	15	5.357%	Not Significant

Census by Diagnosis Type

The following tables detail the census for each state hospital, separated by level of care, for patients who have a specific category of diagnosis. Please note that patients may have multiple diagnoses and may therefore be represented on each table more than once.

Number of Patients by Mental Health Diagnosis in the State Hospital System as of December 31, 2017

Diagnosis	Psychiatric							Forensic			Long Term	SRTP	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	TOR	Total
Behavioural and emotional disorders with onset usually occurring in childhood and adolescence	<11	<11	<11	12	<11	<11	32	<11	<11	<11	<11	<11	47
Behavioural syndromes associated with physiological disturbances and physical factors	<11	<11	<11	<11	<11	<11	18	<11	<11	<11	<11	<11	19
Disorders of adult personality and behaviour	24	23	<11	66	25	74	219	32	31	63	17	44	343
Disorders of psychological development	<11	<11	<11	<11	<11	<11	25	<11	<11	<11	<11	<11	32
Intellectual disability	<11	<11	<11	13	<11	22	52	14	<11	22	<11	<11	86
Mood (affective) disorders	19	22	<11	27	22	35	131	25	19	44	56	17	248
Neurotic, stress-related, and somatoform disorders	27	22	<11	29	11	19	110	<11	<11	12	38	<11	169
Organic, including symptomatic, mental disorders	16	15	<11	<11	<11	21	73	16	<11	21	97	<11	191
Other mental disorder	0	0	0	0	0	0	0	0	0	0	0	0	0
Schizophrenia, schizotypal, and delusional disorders	149	127	26	113	121	217	753	165	86	251	104	<11	1,108
Severe cranial injury, including concussion and TBI	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Substance use disorder	73	42	<11	66	47	79	315	54	54	108	52	<11	477

This table is a census of all patients in the state hospital system taken on December 31, 2017, separated by facility, level of care, and mental health diagnosis.

Number of Patients by Physical Health Diagnosis in the State Hospital System as of December 31, 2017

Diagnosis	Psychiatric							Forensic			Long Term	SRTP	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	TOR	Total
Certain conditions originating in the perinatal period	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Congenital malformations, deformations, and chromosomal abnormalities	<11	<11	<11	<11	<11	<11	17	<11	<11	<11	<11	<11	27
Diseases of the blood and blood-forming organs, and certain disorders involving the immune mechanism	28	26	<11	26	16	36	136	<11	<11	15	31	11	193
Diseases of the central nervous system	51	32	<11	47	17	51	207	15	19	34	86	25	352
Diseases of the circulatory system	75	62	<11	66	41	113	365	59	29	88	70	<11	528
Diseases of the digestive system	105	93	22	104	71	168	563	58	50	108	94	42	807
Diseases of the genitourinary system	55	21	<11	55	16	52	203	13	12	25	42	<11	278
Diseases of the musculoskeletal system and connective tissue	53	51	<11	52	31	72	269	24	26	50	72	18	409
Diseases of the respiratory system	64	40	<11	36	23	68	236	19	20	39	34	44	353
Diseases of the skin and subcutaneous tissue	25	22	<11	26	12	31	119	<11	12	17	30	23	189
Disorders of sensory organs	26	76	<11	28	<11	57	204	17	<11	26	36	13	279
Endocrine, nutritional, and metabolic diseases	157	118	26	142	121	219	783	72	70	142	93	52	1,070
Infectious and parasitic diseases	15	15	<11	12	<11	29	80	21	<11	27	21	<11	130
Neoplasms	13	<11	<11	<11	<11	17	54	<11	<11	<11	11	<11	71
Other diagnoses	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Other injury, poisoning, or external causes of morbidity and mortality	12	35	<11	<11	<11	11	66	<11	<11	15	22	<11	105
Pregnancy, childbirth, and the puerperium	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Specific signs and symptoms	81	66	16	76	70	126	435	31	23	54	119	26	634

This table is a census of all patients in the state hospital system taken on December 31, 2017, separated by facility, level of care, and physical health diagnosis.

Number of Patients with a Substance Use Disorder by Substance in the State Hospital System as of December 31, 2017

Substance						Psychiatric				Forensic	Long Term	SRTP	System
	CLA	DAN	NOR	TOR	WAR	WER	Total	NOR	TOR	Total	SOU	TOR	Total
Alcohol	23	25	<11	37	<11	21	114	14	38	52	33	<11	199
Amphetamines	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Cannabinoids	<11	11	<11	<11	<11	<11	30	<11	16	24	<11	<11	62
Cocaine	<11	<11	<11	<11	<11	<11	14	<11	<11	<11	<11	<11	30
Hallucinogens	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	12
Opioids	<11	<11	<11	<11	<11	<11	17	<11	<11	<11	<11	<11	29
Other drug dependence	14	12	<11	21	<11	22	84	31	<11	40	16	<11	141
Prescription medications	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Sedatives and Hypnotics	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11
Stimulants	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	14
Tobacco	53	<11	<11	34	41	49	180	<11	<11	<11	11	<11	199

This table is a census of all patients diagnosed with a substance use disorder in the state hospital system taken on December 31, 2017, separated by facility, level of care, and substance.

Appendix

Glossary of Terms

- Level of Care

    – PS: Psychiatric Care; a.k.a. Civil Units
    – FO: Forensic Care
    – LT: Long Term Care
    – SRTP: Sexual Responsibility and Treatment Program (Act-21)

- State Hospital Abbreviations/Facility Codes

    – CLA: Clarks Summit State Hospital
    – DAN: Danville State Hospital
    – NOR: Norristown State Hospital
    – SOU: South Mountain Restoration Center
    – TOR: Torrance State Hospital
    – WAR: Warren State Hospital
    – WER: Wernersville State Hospital

Data Sets

- Patient Tracking System (PTS)

    – These data are extracted from the State Facility Tracking System and provided to us by the PA Dept. of Human Services. The extraction date of the data for this report is Feb 16, 2021.
    – Pennsylvania Department of Human Services, State Facility Tracking System. (2021). *Patient Tracking System* [XLSX file] Harrisburg, PA.
    – The variables used in this data set are listed below with their definitions.

- Pennsylvania County Population Data

    – These data are pulled from the U.S. Census Bureau's American Community Survey.
    – United States Census Bureau, Population Division. (June 2019). *U.S. Census Bureau, American Community Survey 1-Year Estimates* [CSV file]. Retrieved from https://data.census.gov/cedsci/table?q=pennsylvania%20population&g=0400000US42.050000&tid=ACSDT1Y2019.B01003&hidePreview=true
    – This data set provides population estimates for each year from 2010 through 2019.

Methodology

- Null/Missing County Data

    – 11.37% of the records in the PTS data set contain missing county data.

- Within the PTS data set, the Base Service Unit (BSU) is also recorded. The BSU is defined as "…an organizational unit consisting of multidisciplinary professional and nonprofessional staff capable of planning, directing and coordinating appropriate services for individuals with an intellectual disability and in need of service from the county program" (055 PA Code § 6201.12).
  - For each record with missing county data, the county corresponding to that patient's BSU of record will be used instead. This leaves only 0% of the records with missing county data.

- Population Estimates

  - The U.S. Census Bureau tends to release new population estimates each June for the previous year. Therefore, all calculations in this report that require population counts will be conducted using population counts from the previous year.
  - Populations for each area tend to have little variation in the span of a single year, so the estimates from the previous year will be considered an analogous and valid alternative.

- County of Origin for New Patients

  - The significance level is based on the *p-value* produced by a Pearson's Chi-squared test of two proportions with Yates' continuity correction applied where possible.
  - A smaller *p-value* indicates greater statistical significance. Any value above 0.05 is considered not statistically significant.
  - Note that if the number of total patients statewide for a given category is low, significance level may be inaccurate, as small sample sizes have fewer degrees of freedom (This may be partially corrected via Yates). This is most likely to occur in long term care and SRTP (Act-21) care.
  - Yates' continuity correction is applied to cases with small sample sizes, and may increase the *p-value* produced by the test. Please note that Yates has a tendency to over-correct, increasing the risk of type II error.
  - It should be noted that patients listed as "Out of State" will have zero percent of the state population. Therefore, it is likely that a single patient may cause the *p-value* for "Out of State" patients to be significant.