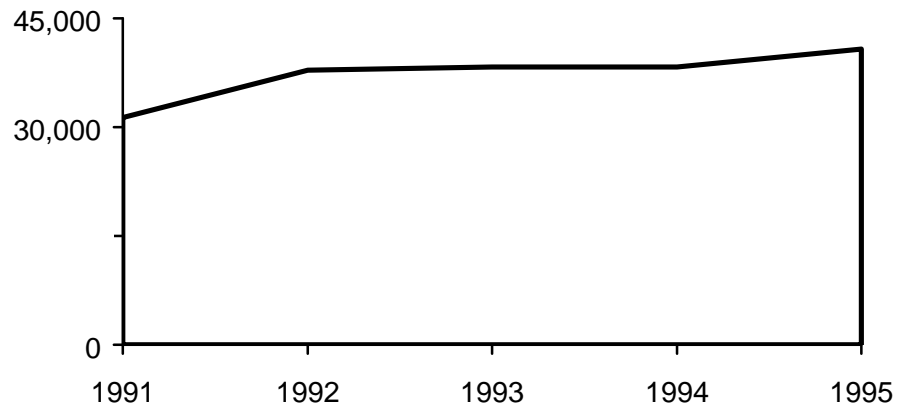

SPECIAL REPORT

FOR THE BUREAU OF NARCOTICS

DRUG-RELATED INPATIENT HOSPITALIZATIONS: A FIVE YEAR PERSPECTIVE

1991-1995



SPECIAL REPORT FOR THE BUREAU OF NARCOTICS

DRUG-RELATED INPATIENT HOSPITALIZATIONS: A FIVE YEAR PERSPECTIVE

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Data: Calendar years 1991-1995

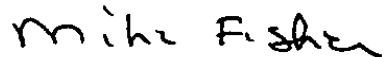
A MESSAGE FROM PENNSYLVANIA'S ATTORNEY GENERAL MIKE FISHER

I would like to commend the fine work done by the Pennsylvania Health Care Cost Containment Council in producing this report entitled, ***Drug-Related Inpatient Hospitalizations: A Five Year Perspective (1991-1995)***.

As I am sure you are aware, I have made drug enforcement within the Commonwealth a top priority for the Office of Attorney General. In fighting the "war on drugs," however, it is imperative that law enforcement be given the ability to "size-up" the nature and extent of the problem so as to create the most effective and efficient strategy to combat it. One such way to do this is through the tracking of drug-related hospital admissions throughout the Commonwealth.

This report does an excellent job of breaking down this information, thus allowing law enforcement to review trends with regard to the use of particular drugs; the use of drugs in various geographic locations; the overall number of hospitalizations from drugs, as well as in a variety of other ways. These data, when used in conjunction with other law enforcement tools and intelligence information, provide policy makers and agents on the street alike with the information they need to more effectively perform their duties.

This report is a service to the citizens of the Commonwealth that is greatly appreciated.

A handwritten signature in black ink that reads "Mike Fisher". The signature is written in a cursive, slightly slanted style.

Mike Fisher
Attorney General
Commonwealth of Pennsylvania

Select Drug-Related Inpatient Hospitalizations: Case Counts by Year

Category and ICD.9.CM Codes	1991		1992		1993		1994		1995	
	total charges		total charges		total charges		total charges		total charges	
	n	%	n	%	n	%	n	%	n	%
Drug-Related Admissions										
<i>Psychosis</i> 292.0-292.9	5,180	16.5	6,166	16.3	5,727	15.0	6,329	16.5	7,773	19.1
<i>Dependence</i> 304	16,911	53.9	20,851	55.1	20,791	54.3	18,900	49.4	19,581	48.0
<i>Abuse</i> 305.2-305.9	9,253	29.5	10,813	28.6	11,754	30.7	13,020	34.0	13,362	32.8
<i>rehab and/or detox</i> px94.64-px94.69	6	<0.1	12	<0.1	11	<0.1	32	0.1	43	0.1
Total	31,350	100.0	37,842	100.0	38,283	100.0	38,281	100.0	40,759	100.0

Select Drug-Related Inpatient Hospitalizations: Total Charges by Year

Category and ICD.9.CM Codes	1991	1992	1993	1994	1995
	total charges	total charges	total charges	total charges	total charges
Drug-Related Admissions					
<i>Psychosis</i> 292.0-292.9	\$ 28,721,300	\$38,258,300	\$ 39,376,200	\$ 56,915,400	\$ 74,176,100
<i>Dependence</i> 304	98,282,500	123,493,600	176,818,000	151,001,900	173,759,600
<i>Abuse</i> 305.2-305.9	94,976,300	117,619,600	134,194,800	175,108,700	178,418,000
<i>rehab and/or detox</i> px94.64-px94.69	19,500	52,300	71,500	222,300	292,400
Total	\$ 221,999,600	\$ 279,423,800	\$ 350,460,500	\$ 383,248,300	\$ 426,646,100

Notes: Cases with ICD. 9. CM codes in more than one category (i.e., psychosis, dependence) have been assigned to a single category according to the order listed in the above tables. This approach undercounts the admissions involving rehab/detox (approximately 40% of all inpatient hospitalizations). These cases are captured under the psychosis, dependence, and abuse categories. All the codes used for the analysis are based on ICD.9.CM diagnosis codes except codes 94.64-94.69, which are procedure codes.

Source: Pennsylvania Health Care Cost Containment Council, inpatient hospitalization data, 1991 - 1995

Select Drug-Related Inpatient Hospitalizations According to Incoming Source

Incoming Source	psychosis	dependence	abuse	detox/rehab	totals
	n	n	n	n	n
<i>emergency department.....</i>					
1991	2,820	6,999	8,746	6	18,571
1992	3,194	7,280	10,336	12	20,822
1993	3,353	7,462	11,239	11	22,065
1994	4,395	7,682	12,687	32	24,796
1995	6,076	8,224	12,968	43	27,311
<i>referral.....</i>					
1991	2,255	8,210	460	0	10,925
1992	2,838	12,826	409	0	16,073
1993	2,251	12,890	414	0	15,555
1994	1,797	10,752	256	0	12,805
1995	1,431	10,772	297	0	12,500
<i>transfer-in from health care facility.....</i>					
1991	75	275	40	0	390
1992	106	394	56	0	556
1993	107	353	76	0	536
1994	123	415	21	0	559
1995	241	289	50	0	580
<i>court of law.....</i>					
1991	2	29	1	0	32
1992	6	33	8	0	47
1993	12	46	14	0	72
1994	1	19	2	0	22
1995	14	14	2	0	30
<i>unknown.....</i>					
1991	28	1,398	6	0	1432
1992	22	318	4	0	344
1993	4	40	11	0	55
1994	13	32	54	0	99
1995	11	282	45	0	338

Select Drug-Related Inpatient Hospitalizations According to Incoming Source

<i>Total</i>					
1991	5,180	16,911	9,253	6	31,350
1992	6,166	20,851	10,813	12	37,842
1993	5,727	20,791	11,754	11	38,283
1994	6,329	18,900	13,020	32	38,281
1995	7,773	19,581	13,362	43	40,759

Notes:

- referrals include from: HMO, clinic, physician
- transfer-ins include from: general acute care facility, skilled nursing facility, other health care facility

Source: Pennsylvania Health Care Cost Containment Council, inpatient hospitalization data, 1991 - 1995

Select Drug-Related Inpatient Hospitalizations Age Cohorts

	1991		1992		1993		1994		1995	
	cases		cases		cases		cases		cases	
	n	%	n	%	n	%	n	%	n	%
Age Cohorts.....										
0 – 5	19	0.1	15	<0.1	15	<0.1	8	<0.1	8	<0.1
6 – 17	405	1.3	424	1.1	534	1.4	746	1.9	826	2.0
18 – 20	1,089	3.5	1,144	3.0	1,137	3.0	1,108	2.9	1,416	3.5
21 – 29	9,767	31.2	11,043	39.2	10,165	26.6	9,064	23.7	9,331	22.9
30 – 39	13,208	42.1	16,352	43.2	16,478	43.0	15,995	41.8	16,633	40.8
40 – 49	4,593	14.7	6,048	16.0	6,912	18.1	7,712	20.1	8,712	21.4
50 – 59	1,011	3.2	1,291	3.4	1,490	3.9	1,698	4.4	1,798	4.4
60 - 69	509	1.6	588	1.6	629	1.6	762	2.0	751	1.8
70 – 79	435	1.4	535	1.4	538	1.4	681	1.8	712	1.8
80 +	314	1.0	402	1.1	385	1.0	507	1.3	572	1.4
Total.....	31,350	100.00	37,842	100.00	38,283	100.00	38,281	100.00	40,759	100.00

Source: Pennsylvania Health Care Cost Containment Council

Select Drug-Related Inpatient Hospitalizations
Cases & Population Rate Per Ten Thousand by County of Residence

County	1991		1992		1993		1994		1995	
	<i>n</i>	<i>per 10,000</i>	<i>n</i>	<i>per 10,000</i>	<i>n</i>	<i>per 10,000</i>	<i>n</i>	<i>per 10,000</i>	<i>n</i>	<i>per 10,000</i>
Adams.....	16	2.0	31	3.9	44	5.5	48	5.8	35	4.2
Allegheny.....	4,766	35.6	5,455	40.8	6,520	48.7	6,342	48.0	5,958	45.5
Armstrong.....	36	4.9	50	6.7	146	19.7	123	16.5	125	16.8
Beaver.....	190	10.1	171	9.1	227	12.1	372	19.8	400	21.3
Bedford.....	5	1.0	9	1.9	22	4.6	10	2.0	10	2.0
Berks.....	694	20.3	788	23.1	978	28.7	844	24.3	978	28.0
Blair.....	26	2.0	38	2.9	59	4.5	53	4.0	42	3.2
Bradford.....	30	4.9	28	4.6	24	3.9	31	5.0	36	5.8
Bucks.....	598	10.9	730	13.3	954	17.4	934	16.5	1,148	20.0
Butler.....	239	15.4	259	16.7	239	15.4	337	20.8	395	23.9
Cambria.....	242	14.9	305	18.8	325	20.0	267	16.6	299	18.6
Cameron.....	3	5.1	2	3.4	1	1.7	0	0	2	3.5
Carbon.....	43	7.5	60	10.4	100	17.4	60	10.2	80	13.6
Centre.....	6	0.5	18	1.4	20	1.6	27	2.1	43	3.3
Chester.....	353	9.2	582	15.2	697	18.2	610	15.4	782	19.3
Clarion.....	14	3.3	19	4.5	16	3.8	14	3.3	20	4.7
Clearfield.....	28	3.6	37	4.7	65	8.3	29	3.7	35	4.4
Clinton.....	6	1.6	10	2.7	12	3.2	21	5.6	20	5.4
Columbia.....	52	8.2	62	9.7	120	18.8	56	8.8	45	7.0
Crawford.....	69	8.0	94	10.8	142	16.4	127	14.4	137	15.4
Cumberland.....	82	4.1	125	6.3	112	5.7	136	6.6	162	7.9
Dauphin.....	363	15.1	453	18.9	501	20.9	501	20.4	525	21.3
Delaware.....	1,458	26.5	1,480	26.9	1,509	27.5	1,095	20.0	1,687	30.7
Elk.....	12	3.4	22	6.3	22	6.3	27	7.7	28	8.0
Erie.....	335	12.1	500	18.0	645	23.2	567	20.2	609	21.7
Fayette.....	113	7.7	171	11.7	219	15.0	219	14.9	254	17.3

County	1991		1992		1993		1994		1995	
	<i>n</i>	<i>per 10,000</i>	<i>n</i>	<i>per 10,000</i>	<i>n</i>	<i>per 10,000</i>	<i>n</i>	<i>per 10,000</i>	<i>n</i>	<i>per 10,000</i>
Forest.....	4	8.3	4	8.3	4	8.3	4	8.3	4	8.0
Franklin	17	1.4	27	2.2	31	2.5	39	3.1	38	3.0
Fulton.....	2	1.4	4	2.8	3	2.1	4	2.8	9	6.3
Greene.....	19	4.8	16	4.0	19	4.8	18	4.5	15	3.6
Huntingdon.....	19	4.3	11	2.5	8	1.8	22	4.9	22	4.9
Indiana	41	4.5	43	4.8	60	6.6	47	5.2	62	6.8
Jefferson	11	2.4	17	3.7	6	1.3	13	2.8	17	3.6
Juniata	8	3.8	2	1.0	6	2.9	12	5.6	17	7.8
Lackawanna	173	7.9	221	10.1	323	14.7	290	13.4	330	15.3
Lancaster	637	14.8	780	18.1	969	22.5	1,019	23.0	857	19.1
Lawrence	87	9.0	130	13.5	95	9.9	183	18.9	180	18.6
Lebanon	59	5.1	75	6.5	74	6.4	93	8.0	85	7.3
Lehigh	575	19.5	605	20.6	1,023	34.8	677	22.7	783	26.3
Luzerne.....	216	6.6	275	8.3	240	7.3	296	9.0	427	13.1
Lycoming.....	126	10.5	112	9.3	164	13.7	143	11.8	131	10.9
McKean.....	12	2.5	19	4.0	29	6.1	16	3.3	26	5.4
Mercer.....	132	10.8	134	11.0	187	15.4	298	24.4	311	25.4
Mifflin	15	3.2	22	4.7	28	6.0	31	6.6	45	9.6
Monroe.....	55	5.5	101	10.0	101	10.0	138	12.3	117	10.1
Montgomery	873	12.7	1,138	16.6	1,446	21.1	1,308	18.7	1,438	20.4
Montour.....	22	12.3	32	17.9	18	10.1	27	14.8	25	13.7
Northampton	325	13.0	449	17.9	56	2.2	483	18.9	593	23.1
Northumberland.....	92	9.5	118	12.2	91	9.4	155	16.2	173	18.0
Perry	10	2.4	10	2.4	11	2.6	21	4.9	20	4.6
Philadelphia	16,159	102.8	19,709	125.3	17,517	111.4	17,523	115.0	18,336	122.3
Pike.....	8	2.6	17	5.6	10	3.3	8	2.3	15	4.1
Potter	10	5.9	6	3.6	7	4.1	0	0	2	1.2
Schuylkill.....	97	6.3	163	10.7	163	10.7	175	11.4	200	13.0

County	1991		1992		1993		1994		1995	
	<i>n</i>	<i>per 10,000</i>	<i>n</i>	<i>per 10,000</i>	<i>n</i>	<i>per 10,000</i>	<i>n</i>	<i>per 10,000</i>	<i>n</i>	<i>per 10,000</i>
Snyder	14	3.8	21	5.7	33	8.9	26	6.9	31	8.2
Somerset.....	30	3.8	39	4.9	22	2.8	37	4.7	46	5.7
Sullivan	1	1.6	4	6.5	3	4.9	5	8.2	6	9.7
Susquehanna	3	0.7	10	2.4	11	2.7	8	1.9	13	3.1
Tioga.....	11	2.7	16	3.9	9	2.2	18	4.3	13	3.1
Union	17	4.7	29	8.0	29	8.0	38	10.2	43	10.5
Venango.....	52	8.7	58	9.7	49	8.2	43	7.3	63	10.7
Warren	8	1.8	21	4.7	25	5.6	39	8.7	55	12.2
Washington	278	13.5	292	14.2	254	12.4	380	18.3	388	18.7
Wayne.....	32	7.8	55	13.4	15	3.6	30	7.0	31	7.0
Westmoreland	326	8.8	406	10.9	242	6.5	533	14.2	542	14.4
Wyoming.....	9	3.2	10	3.5	1	0.4	13	4.4	14	4.8
York	391	11.3	493	14.3	445	12.9	533	14.9	594	16.4
<i>Total PA Residents</i>	30,755	25.7	37,193	31.0	37,546	31.2	37,596	31.2	39,972	33.1

Note: The statewide totals in this table represent fewer cases due to invalid, missing or out-of-state zip codes (1991=595 cases; 1992=649; 1993=737; 1994=685; 1995=787).

Source: Pennsylvania Health Care Cost Containment Council, 1991 - 1995

Drug Inpatient Hospitalizations
Select Drug-Related Inpatient Hospitalizations
Total Charges (rounded to hundreds) by County of Residence

County	1991	1992	1993	1994	1995
Adams.....	\$ 90,400	\$ 135,800	\$ 191,900	\$ 346,600	\$ 224,100
Allegheny	33,153,600	36,856,800	45,700,600	55,478,500	53,681,900
Armstrong.....	237,000	420,700	1,287,300	1,104,400	1,071,000
Beaver.....	882,600	1,113,500	1,640,300	2,396,100	2,960,400
Bedford	66,000	62,200	147,000	48,000	67,800
Berks.....	2,502,500	3,157,700	4,606,400	4,554,800	5,655,800
Blair.....	151,700	240,800	316,900	422,900	208,100
Bradford	126,100	105,500	141,600	201,400	1,168,700
Bucks	4,176,300	5,466,600	7,486,800	8,818,900	12,089,900
Butler.....	1,945,900	2,031,100	2,080,800	2,880,000	3,297,300
Cambria.....	1,149,700	1,453,900	1,376,900	1,658,100	2,974,600
Cameron	19,600	6,800	4,700	0	20,200
Carbon	279,100	323,800	15,658,600	523,100	709,600
Centre	19,900	140,900	177,400	346,500	395,200
Chester.....	2,513,400	4,298,400	5,938,400	6,201,200	8,320,400
Clarion.....	76,000	175,000	101,700	201,800	114,400
Clearfield.....	188,900	335,900	917,600	229,300	348,400
Clinton	21,100	84,900	78,400	98,400	83,600
Columbia	264,300	305,800	801,700	573,300	342,700
Crawford.....	500,800	679,000	941,400	1,159,300	1,114,500
Cumberland.....	383,400	904,300	617,700	1,064,500	1,054,300
Dauphin.....	1,544,600	2,491,800	3,066,700	3,808,400	4,899,900
Delaware	10,033,800	12,242,200	14,331,900	13,897,600	23,624,300
Elk.....	47,400	172,100	158,300	115,200	176,600
Erie	2,382,000	3,306,300	4,297,300	4,482,000	4,709,300
Fayette	917,900	1,162,500	1,543,900	1,639,900	1,864,900
Forest.....	19,300	17,100	37,000	55,100	16,500
Franklin	96,800	110,100	188,900	266,400	292,500

County	1991	1992	1993	1994	1995
Fulton	6,500	15,100	19,200	187,600	58,000
Greene	144,200	142,000	132,000	151,700	71,000
Huntingdon	130,100	82,100	69,800	183,600	191,500
Indiana	299,900	437,200	390,000	314,600	653,000
Jefferson	75,700	182,400	73,800	179,800	190,300
Juniata	21,700	10,000	68,200	149,800	113,200
Lackawanna	979,900	1,450,700	5,138,200	2,132,500	2,184,200
Lancaster.....	2,008,200	2,919,200	4,223,800	5,380,400	4,599,700
Lawrence.....	592,400	982,100	613,200	1,202,500	1,288,600
Lebanon	230,800	318,300	445,000	701,100	804,100
Lehigh	3,078,100	3,326,600	5,969,300	4,908,400	5,164,800
Luzerne	967,200	1,277,200	13,970,600	1,845,200	3,083,600
Lycoming.....	682,500	607,100	3,465,400	691,000	1,151,400
McKean	99,600	153,500	101,400	255,000	168,400
Mercer	659,100	811,000	1,122,300	2,137,800	2,046,600
Mifflin.....	38,100	80,200	158,200	148,000	477,700
Monroe	354,400	589,500	7,420,300	963,600	844,500
Montgomery	7,091,600	9,903,800	11,352,500	12,619,100	14,167,500
Montour	164,000	129,200	127,900	268,700	169,900
Northampton.....	1,385,600	2471,300	281,300	3,191,700	4,026,800
Northumberland.....	478,500	722,200	554,900	1,103,400	1,177,300
Perry	43,300	36,700	150,000	81,400	166,900
Philadelphia.....	124,985,700	159,228,800	162,841,600	208,399,400	224,809,600
Pike	48,300	144,200	78,300	56,500	97,300
Potter	35,200	24,000	40,100	0	4,900
Schuylkill	711,300	976,500	4,108,600	1,290,500	1,517,700
Snyder.....	99,300	135,500	220,300	168,900	183,200
Somerset.....	178,000	271,300	211,700	386,400	366,300
Sullivan	2,500	52,500	48,200	42,600	36,500
Susquehanna	13,800	35,600	105,700	159,000	58,100
Tioga	72,600	100,800	46,200	136,700	78,400
Union.....	105,200	139,500	251,800	201,000	384,000

County	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>
Venango.....	322,300	383,100	281,800	405,500	412,400
Warren	38,100	272,100	488,30	275,100	416,900
Washington	1,698,300	1,696,600	1,605,100	2,750,100	3,783,900
Wayne.....	233,100	449,200	72,400	209,700	179,600
Westmoreland	2,400,000	3,172,400	1,624,400	4,596,600	4,480,700
Wyoming	70,100	33,200	4,100	68,800	260,500
York.....	1,832,500	2,325,600	2,119,500	3,048,600	4,143,400
<i>Total PA Residents...</i>	\$216,167,900	\$273,889,800	\$343,833,500	\$373,558,300	\$415,498,600

Note: The statewide total charges in this table represent fewer cases due to invalid, missing or out-of-state zip codes (1991=\$5,831,700; 1992=\$5,534,000; 1993=\$6,627,000; 1994=\$9,690,000; 1995=\$11,147,500).

Source: Pennsylvania Health Care Cost Containment Council, 1991 - 1995

Select Drug-Related Inpatient Hospitalizations According to Drug Type

Drug Type	1991		1992		1993		1994		1995	
	cases		cases		Cases		Cases		Cases	
	n	%	n	%	n	%	n	%	n	%
<i>Amphetamine and other psychostimulant.....</i>	131	0.4	144	0.4	171	0.4	165	0.4	159	0.4
<i>Antidepressant type.....</i>	20	0.1	22	0.1	20	0.1	23	0.1	33	0.1
<i>Barbiturate and Similarly acting sedative or</i>	633	2.0	715	1.9	668	1.7	655	1.7	645	1.6
<i>Cannabis.....</i>	524	1.7	823	2.2	1,117	2.9	1,369	3.6	1,640	4.0
<i>Cocaine</i>	15,527	49.5	18,510	48.9	15,974	41.7	13,323	34.8	11,623	28.5
<i>Hallucinogen</i>	46	0.1	64	0.2	59	0.2	70	0.2	94	0.2
<i>Multiple combinations of drugs.....</i>	7,129	22.7	8,493	22.4	9,652	25.2	10,794	28.2	12,214	30.0
<i>Opioid type</i>	2,695	8.6	3,603	9.5	5,174	13.5	5,548	14.5	7,006	17.2
<i>Other / unspecified / unknown drug.....</i>	4,645	14.8	5,468	14.4	5,448	14.2	6,334	16.5	7,345	18.0

Note: Cases classified under a specific drug type include both abuse and dependency-related hospitalizations. "Other, unspecified, unknown drug" includes cases where drug used was not among those listed above, or the drug was not identified.

Source: Pennsylvania Health Care Cost Containment Council, inpatient hospitalization data, 1991 - 1995