



Epi Data Tables

New York City Department of Health and Mental Hygiene

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Patterns of Opioid Analgesic Prescriptions for New York City Residents

Data Tables

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Data Source

NYS PMP: The Prescription Monitoring Program (PMP), managed by the New York State Department of Health Bureau of Narcotics, collects data from drug dispensers on schedule II-V controlled substances. Data from 2008 to 2011 on schedule II and select schedule III opioid analgesics filled by New York City residents are presented here.

To access the related Epi Data Brief, go to www.nyc.gov/html/doh/downloads/pdf/epi/databrief32.pdf

Table 1. Demographics of New York City residents who filled an opioid analgesic prescription¹, age-adjusted rates² per 1,000 residents, 2008-2011

Source: Prescription Monitoring Program; analysis by NYC DOHMH Bureau of Alcohol and Drug Prevention, Care and Treatment

	2008			2009			2010			2011			2008-2011 % change*
	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate	
Total number who filled a prescription	632,204	100%	75	687,515	100%	81	724,083	100%	84	764,917	100%	89	19%
Age³													
0-14	2,872	1%	2	3,195	1%	2	3,220	0%	2	3,304	0%	2	14%
15-24	50,013	8%	43	56,834	8%	48	59,284	8%	50	63,847	8%	55	28%
25-34	110,968	18%	81	122,534	18%	88	127,977	18%	91	137,315	18%	96	19%
35-44	119,528	19%	101	127,187	19%	109	131,097	18%	113	135,448	18%	117	16%
45-54	130,302	21%	118	141,235	21%	127	148,758	21%	133	155,076	20%	140	18%
55-64	104,027	17%	122	113,295	17%	129	122,743	17%	136	130,751	17%	142	16%
65-84	98,303	16%	117	105,952	15%	124	112,275	16%	130	119,086	16%	137	18%
85+	16,191	3%	119	17,283	3%	123	18,729	3%	130	20,090	3%	137	15%
Age³													
≤ 44	283,381	45%	55	309,750	45%	59	321,578	44%	62	339,914	44%	65	19%
≥ 45	348,823	55%	119	377,765	55%	127	402,505	56%	133	425,003	56%	139	17%
Mean age (years)	47.9			47.7			47.9			47.9			
Gender					0%								
Male	270,332	43%	70	293,140	43%	75	310,461	43%	78	327,654	43%	82	18%
Female	361,820	57%	80	393,921	57%	86	413,454	57%	90	437,171	57%	95	19%
Unknown	52	0%	X	454	0%	X	168	0%	X	92	0%	X	
Borough of Residence⁴													
Bronx	101,549	16%	77	117,881	17%	89	126,943	18%	94	133,784	18%	99	28%
Brooklyn	150,827	24%	60	165,923	24%	65	175,783	24%	68	190,241	25%	74	23%
Manhattan	161,493	26%	93	171,305	25%	98	177,752	25%	102	187,105	25%	106	14%
Queens	158,404	25%	67	170,121	25%	71	179,818	25%	75	189,639	25%	79	18%
Staten Island	59,931	10%	126	62,285	9%	130	63,787	9%	132	64,148	8%	131	4%
Number who received at least one hydrocodone prescription	411,711	65%	49	409,669	60%	48	397,160	55%	46	391,932	51%	46	-7%
<i>By borough of residence</i>													
Bronx	54,814	13%	42	56,612	14%	42	56,026	14%	42	55,348	14%	41	-3%
Brooklyn	100,606	24%	40	101,445	25%	40	97,933	25%	38	98,007	25%	38	-5%
Manhattan	106,250	26%	61	105,159	26%	60	102,988	26%	59	103,838	26%	59	-4%
Queens	109,012	26%	47	107,256	26%	45	103,691	26%	43	100,296	26%	42	-10%
Staten Island	41,029	10%	86	39,197	10%	81	36,522	9%	75	34,443	9%	70	-19%
Number who received at least one oxycodone prescription	253,953	40%	30	318,356	46%	37	369,451	51%	43	415,473	54%	48	60%
<i>By borough of residence</i>													
Bronx	51,724	20%	39	67,585	21%	51	78,195	21%	58	85,681	21%	63	60%
Brooklyn	56,612	22%	22	73,104	23%	29	86,894	24%	34	101,477	24%	40	76%
Manhattan	63,600	25%	36	75,640	24%	43	84,674	23%	48	93,053	22%	52	44%
Queens	57,572	23%	24	72,982	23%	31	86,368	23%	36	100,082	24%	42	71%
Staten Island	24,445	10%	51	29,045	9%	61	33,320	9%	69	35,180	8%	73	41%
Number who received at least one prescription > 100 MED⁵													
Yes	35,327	6%	4	40,895	6%	5	50,362	7%	6	62,256	8%	7	73%

¹Analysis includes prescriptions written for Schedule II (excluding Codeine-2) + Hydrocodone. Prescriptions written by veterinarians, or written under institutional licenses, or missing prescriber ID, or missing patient ID are excluded.

²Age adjusted rates are calculated using intercensal estimates updated July 2013, and are weighted to Census 2000.

³Patient age is an average of their age at all their prescriptions in the year.

⁴Borough of residence is derived from the 3-digit zip code listed for patient zip on prescription. Most frequent borough of residence per patient is reported.

⁵Morphine Equivalent Dose (MED) is equivalent of 1 mg of morphine. High MED is prescriptions greater than 100 MED.

*Percent change based on age-adjusted rate and significant at P<0.05.

Table 2. Median day supply¹ of short-acting opioid analgesic prescriptions² filled, by age³, borough⁴, and gender, NYC, 2008-2011

Source: Prescription Monitoring Program; analysis by NYC DOHMH Bureau of Alcohol and Drug Prevention, Care and Treatment

	2008		2009		2010		2011	
	Number	Median Day Supply	Number	Median Day Supply	Number	Median Day Supply	Number	Median Day Supply
Total short-acting prescriptions filled	1,426,018	10	1,625,200	12	1,770,998	14	1,941,885	15
Age								
0-14	3,425	6	3,879	6	3,920	5	4,118	5
15-24	71,543	5	81,842	5	87,003	5	93,399	5
25-34	200,204	6	226,806	7	244,933	7	269,777	7
35-44	264,319	10	291,347	10	310,873	12	332,778	15
45-54	345,639	15	397,245	15	432,626	17	480,356	22
55-64	268,627	15	314,029	15	353,543	15	393,112	20
65-84	234,506	15	266,811	15	290,937	15	317,151	15
85 and over	37,766	15	43,241	15	47,163	15	51,194	15
Gender								
Male	642,787	12	735,084	15	808,137	15	892,718	16
Female	783,170	10	889,169	10	962,566	12	1,049,019	13
Missing/Unknown	72	8	947	23	295	25	148	30
Borough of Residence								
Bronx	232,110	11	281,749	12	318,601	14	365,084	15
Brooklyn	332,718	13	388,943	15	424,845	15	477,003	15
Manhattan	331,564	8	363,124	8	385,203	8	421,521	10
Queens	344,336	10	389,689	12	421,928	13	457,285	15
Staten Island	185,301	19	201,695	20	220,421	25	220,992	25

¹Median day supply is calculated for prescriptions with non-missing day supply.²Analysis includes prescriptions written for short-acting Schedule II (excluding Codeine-2) + Hydrocodone . Opioid analgesic formulations are classified as short-acting or long-acting on the basis of their duration of action. Prescriptions written by veterinarians, or written under institutional licenses, or missing prescriber ID, or missing patient ID are excluded.³Patient age is an average of their age at all their prescriptions in the year.⁴Borough of residence is derived from the 3-digit zip code listed for patient zip on prescription. Most frequent borough of residence per patient is reported.

Table 3. Number and rate of high-dose (greater than 100 morphine equivalent dose)¹ opioid analgesic prescriptions² filled, by borough of residence³, NYC, 2008-2011

Source: Prescription Monitoring Program; analysis by NYC DOHMH Bureau of Alcohol and Drug Prevention, Care and Treatment

Rates per 1,000 New Yorkers are age adjusted, except those for specific age groups. Rates are calculated using intercensal population estimates updated July 2013.

	2008			2009			2010			2011			2008-2011
	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate	% change*
Total high-dose prescriptions filled	189,380	100%	22	226,851	100%	26	286,283	100%	33	348,972	100%	40	80%
Age													
0-14	128	0%	0	160	0%	0	181	0%	0	183	0%	0	43%
15-24	5,528	3%	5	6,929	3%	6	9,852	3%	8	11,494	3%	10	108%
25-34	23,666	12%	17	29,106	13%	21	41,435	14%	29	52,586	15%	37	114%
35-44	41,200	22%	35	46,937	21%	40	59,126	21%	51	70,493	20%	61	76%
45-54	61,954	33%	56	73,886	33%	66	89,364	31%	80	108,935	31%	98	74%
55-64	38,089	20%	45	47,433	21%	54	59,341	21%	66	72,234	21%	78	75%
65-84	17,190	9%	20	20,444	9%	24	24,471	9%	28	29,611	8%	34	67%
85+	1,625	1%	12	1,956	1%	14	2,513	1%	17	3,436	1%	23	95%
Gender													
Male	106,234	56%	27	127,800	56%	32	164,266	57%	41	199,025	57%	49	83%
Female	83,142	44%	18	98,917	44%	21	121,966	43%	26	149,926	43%	32	77%
Borough of residence													
Bronx	41,862	22%	31	50,393	22%	37	60,455	21%	44	76,739	22%	56	77%
Brooklyn	38,285	20%	15	48,899	22%	19	63,454	22%	25	82,900	24%	32	114%
Manhattan	41,787	22%	24	48,016	21%	28	54,901	19%	31	66,976	19%	38	57%
Queens	29,006	15%	12	34,704	15%	14	47,838	17%	20	64,519	18%	27	121%
Staten Island	38,440	20%	82	44,839	20%	95	59,635	21%	128	57,838	17%	121	48%

¹Morphine Equivalent Dose (MED) is equivalent of 1 mg of morphine. High MED is prescriptions greater than 100 MED.²Analysis includes prescriptions written for Schedule II (excluding Codeine-2) + Hydrocodone. Prescriptions written by veterinarians, or written under institutional licenses, or missing prescriber ID, or missing patient ID are excluded.³Borough of residence is derived from the 3-digit zip code listed for patient zip on prescription. Most frequent borough of residence per patient is reported.

*Percent change based on age-adjusted rate and significant at P<0.05.

Table 4. Opioid analgesic prescriptions filled by New York City residents by drug type, 2008-2011

Source: Prescription Monitoring Program; analysis by NYC DOHMH Bureau of Alcohol and Drug Prevention, Care and Treatment

Opioid Analgesic	Brand Names	2008*		2009*		2010*		2011*		2010-2011	2009-2011	2008-2011
		Number	% [†]	Number	% [†]	Number	% [†]	Number	% [†]	% change [^]	% change [^]	% change [^]
TOTAL		1,661,381	100%	1,883,364	100%	2,035,010	100%	2,172,238	100%	7%	15%	31%
FENTANYL	Duragesic®, Fentanyl®	76,108	4.6%	76,973	4.1%	76,617	3.8%	76,750	4.0%	0%	0%	1%
HYDROCODONE	Vicodin®, Lortab®	774,414	46.6%	804,449	42.7%	772,130	37.9%	742,052	34.0%	-4%	-8%	-4%
HYDROMORPHONE	Dilaudid®	36,930	2.2%	39,915	2.1%	46,705	2.3%	54,287	3.0%	16%	36%	47%
MEPERIDINE	Demerol®	2,543	0.2%	2,133	0.1%	2,117	0.1%	1,952	0.1%	-8%	-8%	-23%
METHADONE	Dolophine®, Methadose®	34,892	2.1%	37,366	2.0%	38,114	1.9%	40,112	1.9%	5%	7%	15%
MORPHINE	MS Contin®, Kadian®	66,791	4.0%	75,419	4.0%	78,157	3.8%	82,037	3.8%	5%	9%	23%
OXYCODONE	Percocet®, OxyContin®	663,616	39.9%	837,659	44.5%	1,006,862	49.5%	1,145,200	52.7%	14%	37%	73%
OXYMORPHONE	Opana®	6,087	0.4%	9,450	0.5%	14,308	0.7%	29,848	1.4%	109%	216%	390%

*Year based on the date the prescription was filled. Data on schedule II and select schedule III opioid analgesics are presented here.

[†]Column percent is presented using total prescription drugs as denominator.[^]Percent change calculated based on the number of prescriptions.