



New Hampshire Drug Monitoring Initiative

New Hampshire Information & Analysis Center

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NHIAC Product #: 2019-3623

2018 Overview Report

8 August 2019

Purpose: The NH Drug Monitoring Initiative (DMI) is a holistic strategy to provide awareness and combat drug distribution and abuse. In line with this approach the DMI will obtain data from various sources (to include, but not limited to, Public Health, Law Enforcement, and EMS) and provide monthly products for stakeholders as well as situational awareness releases as needed.

2018 Overview—Drug Environment Report—UNCLASSIFIED

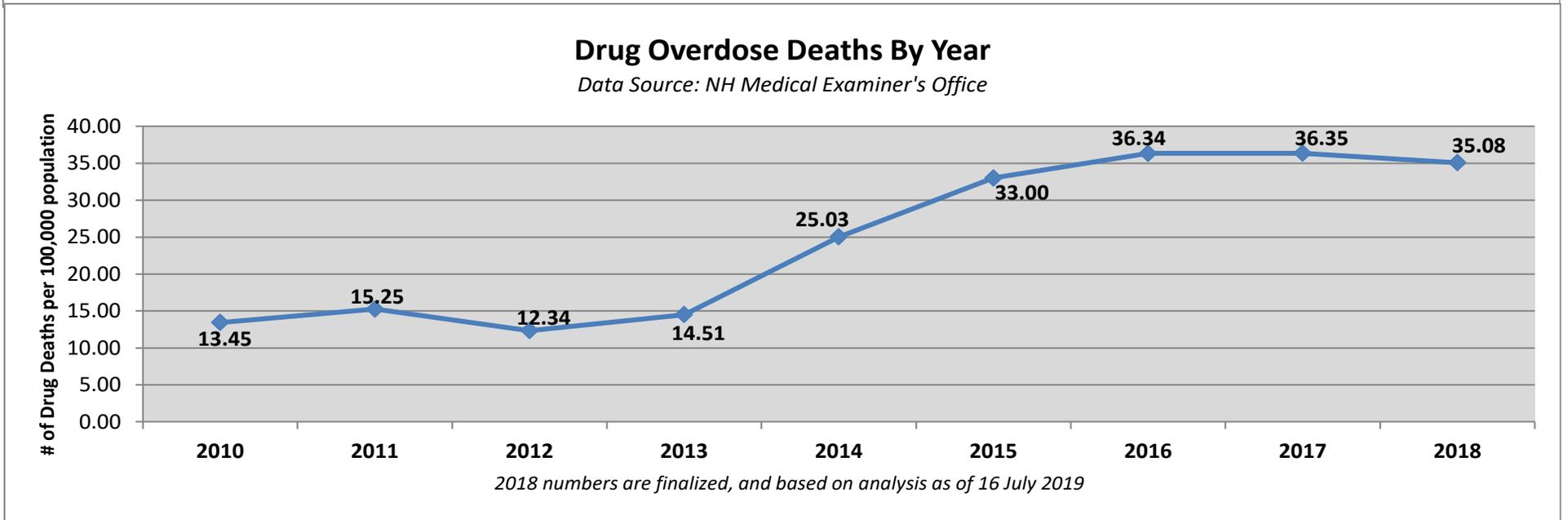
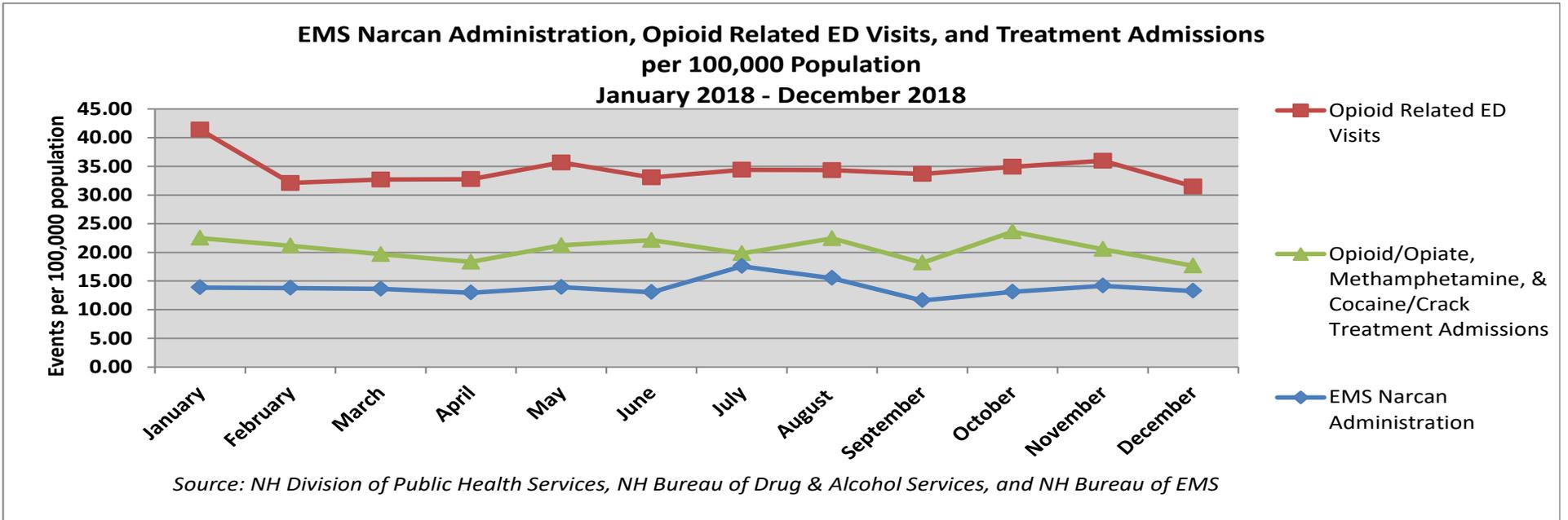
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***The monthly online DMI viewer can be found at:** <https://nhvieww.nh.gov/IAC/DMI/>

- ⇒ Population data source: <http://www.nh.gov/oep/data-center/population-estimates.htm>
 - Year/month overview charts are based on annual estimates from the above website.
 - County charts are based on a 2017 estimated population of each county.
- ⇒ If your agency is looking for further breakdowns than what is in this document please contact the NHIAC.

Overview: Trends for EMS Naloxone Incidents, Opioid Related ED Visits, Treatment Admissions, and Overdose Deaths:



Drug Overdose Deaths (Continued):

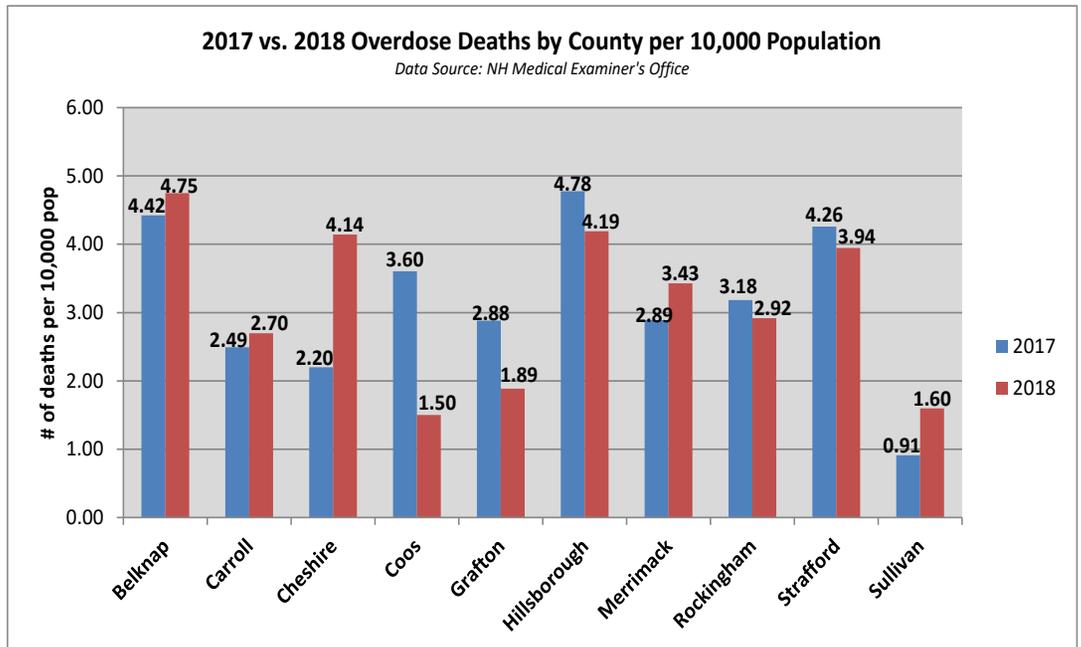
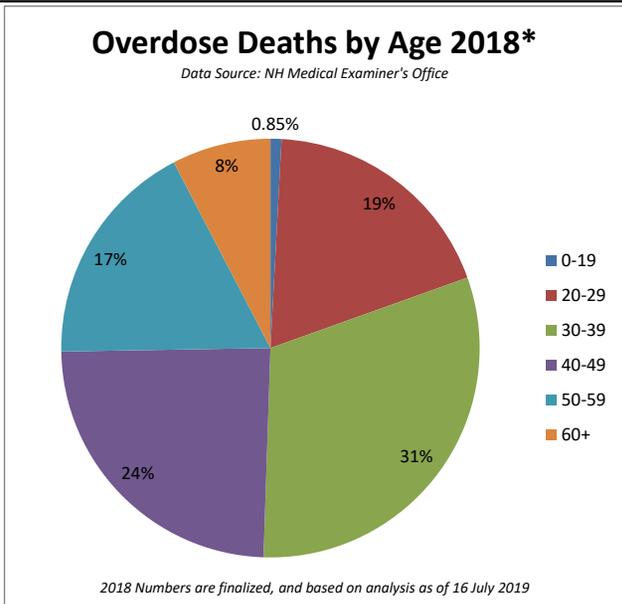
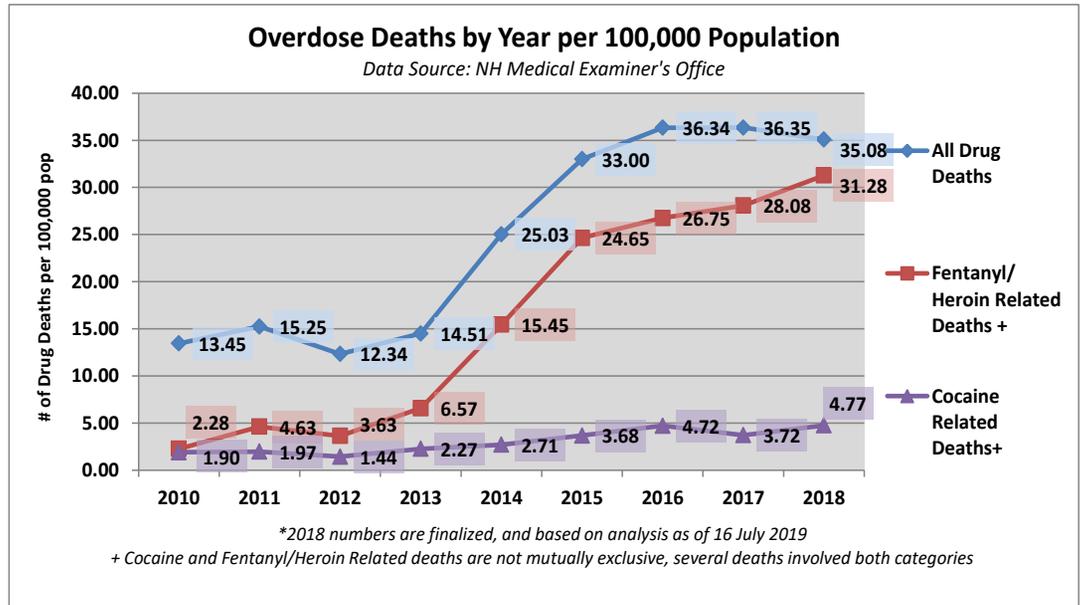
Data Source: NH Medical Examiner's Office

Trends:

- Drug overdose deaths decreased 3.5% from 2017 to 2018, a registered decrease for the first time in seven years. **However, despite the decrease, Belknap, Carroll, Merrimack, Sullivan Cheshire counties experienced increases during the elapsed year.**
- In 2018, Belknap County had the highest suspected drug use resulting in overdose deaths per capita at 4.75 deaths per 10,000 population.
- Cheshire County experienced a 88% increase in their suspected drug overdose death rate per capita, from 2.20 to 4.14 deaths per 10,000 population.
- In 2018, the age group with the largest number of drug overdose deaths was 30-39 year olds, at 31%.

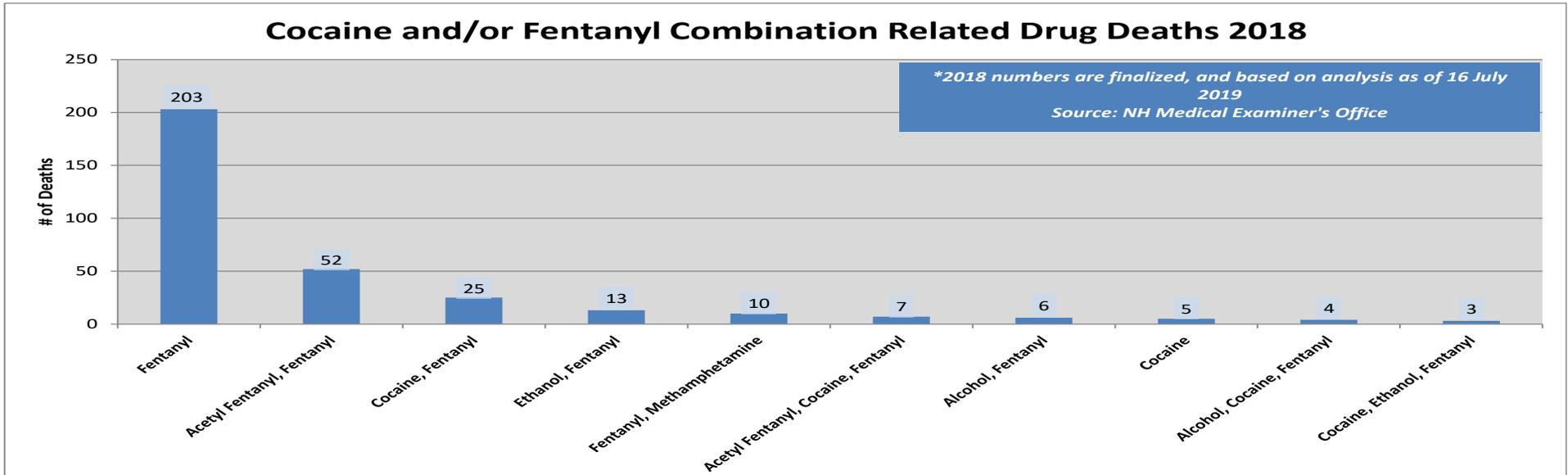
***** IMPORTANT DATA NOTES*****

- 2018 numbers are finalized as of 16 July 2019.
- Analysis is based on county where the drug (s) is suspected to have been used.



Drug Overdose Deaths (Continued):

Data Source: NH Medical Examiner's Office



Cocaine and/or Fentanyl Combination Related Drug Deaths that were noted once or twice*

Acetyl Fentanyl, Diazepam, Ethanol, Fentanyl	4-ANPP, Fentanyl, Valeryl Fentanyl	Alcohol, Fentanyl, Heroin, Oxycodone, Sertraline	Amphetamines, Buprenorphine, Fentanyl, Hydroxyzine, Methamphetamine, Trazodone	Clonazepam, Fentanyl	Duloxetine, Fentanyl, Valeryl Fentanyl	Amitriptyline, Cocaine, Diphenhydramine
Acetyl Fentanyl, Ethanol, Fentanyl	Acetyl Fentanyl, Amphetamines, Clonazepam, Fentanyl	Alcohol, Fentanyl, Quetiapine, Sertraline	Amphetamines, Fentanyl	Clonazepam, Fentanyl, Lamotrigine, Loperamide, Meprobamate	Ethanol, Fentanyl, Morphine	Buprenorphine, Cocaine
Acetyl Fentanyl, Ethanol, Fentanyl, Oxycodone	Acetyl Fentanyl, Amphetamines, Fentanyl, Methadone	Alprazolam, Amphetamines, Clonazepam, Cocaine, Ethanol, Fentanyl	Amphetamines, Fentanyl, Hydromorphone	Cocaine, Cyclobenzaprine, Fentanyl	Ethanol, Fentanyl, Oxycodone	Cocaine, Diazepam, Oxazepam
Acetyl Fentanyl, Fentanyl, Mitragynine	Acetyl Fentanyl, Ethanol, Fentanyl, Ketamine, MDMA	Alprazolam, Amphetamines, Cocaine, Fentanyl, Morphine	Aripirazole, Fentanyl, Quetiapine	Cocaine, Diazepam, Fentanyl	Fentanyl, Ketamine	Cocaine, Diphenhydramine, Ethanol
Alprazolam, Fentanyl	Acetyl Fentanyl, Fentanyl, Heroin	Alprazolam, Buprenorphine, Fentanyl, Lorazepam, Oxycodone	Buprenorphine, Diphenhydramine, Fentanyl	Cocaine, Duloxetine, Fentanyl	Fentanyl, MDMA, Methamphetamine	Cocaine, Ethanol, Morphine, Oxycodone
Clonazepam, Cocaine, Fentanyl	Acetyl Fentanyl, Fentanyl, Methadone	Alprazolam, Cocaine, Fentanyl	Bupropion, Diazepam, Ethanol, Fentanyl	Cocaine, Fentanyl, Methamphetamine	Fentanyl, Methamphetamine, Methylenedioxymethamphetamine	Cocaine, Morphine
Cocaine, Fentanyl, Hydroxyzine	Acetyl Fentanyl, Fentanyl, Methamphetamine	Alprazolam, Fentanyl, Heroin	Bupropion, Fentanyl, Olanzapine	Diazepam, Ethanol, Fentanyl	Fentanyl, Mitragynine	Methamphetamine, Cocaine, Fentanyl, Alprazolam
Fentanyl, Methadone	Alcohol, Amphetamines, Fentanyl	Alprazolam, Fentanyl, Hydrocodone	Clonazepam, Cocaine, Fentanyl, Morphine	Diazepam, Fentanyl, Methamphetamine	Fentanyl, Morphine	
4-ANPP, Acetyl Fentanyl, Fentanyl, Parafloisobutyrylfentanyl	Alcohol, Chlorpheniramine, Fentanyl	Amitriptyline, Clonazepam, Diazepam, Fentanyl	Clonazepam, Cocaine, Fentanyl, Phenobarbital	Duloxetine, Ethanol, Fentanyl, Hydromorphone	Fentanyl, Oxycodone	

*Cells filled with gray indicate combinations noted twice

Drug Overdose Deaths (Continued):

Data Source: NH Medical Examiner's Office

2018 numbers **are finalized**, and are based on analysis as of 16 July 2019

	2013	2014	2015	2016	2017	January	February	March	April	May	June	July	August	September	October	November	December	YTD 2018
Total	192	332	439	485	488	30	40	45	36	44	21	56	35	38	42	40	44	471
County																		
Belknap	8	17	17	16	27	3	3	2	5	2	1	4	1	2	1	4	1	29
Carroll	4	9	22	16	12	3	0	1	2	1	0	2	1	0	0	0	3	13
Cheshire	14	17	11	20	17	0	4	6	3	2	0	6	4	3	1	1	2	32
Coos	6	9	14	10	12	0	1	0	1	1	0	1	0	0	1	0	0	5
Grafton	13	17	13	16	26	1	5	0	2	3	0	1	2	3	0	0	0	17
Hillsborough	68	106	178	199	195	9	13	23	7	11	12	24	9	13	12	16	22	171
Merrimack	17	40	39	43	43	3	3	1	5	7	2	2	5	5	6	6	6	51
Rockingham	34	64	89	90	97	11	6	6	4	11	4	11	8	7	7	8	6	89
Strafford	25	40	47	55	54	0	4	6	4	4	1	3	4	3	12	5	4	50
Sullivan	4	4	8	9	4	0	0	0	1	1	0	1	1	2	1	0	0	7
Out of State	0	3	0	2	0	0	1	0	1	1	1	1	0	0	1	0	0	6
Undetermined	0	0	0	9	1	0	0	0	1	0	0	0	0	0	0	0	0	1
Gender																		
Male	132	219	307	336	347	20	26	31	26	34	16	41	24	24	26	29	31	328
Female	61	107	131	149	141	10	14	14	10	10	5	15	11	14	16	11	13	143
Age																		
0-19	3	3	8	7	2	0	0	1	0	2	0	0	1	0	0	0	0	4
20-29	40	79	110	123	118	5	10	9	7	5	3	10	7	9	9	7	7	88
30-39	32	80	116	147	127	13	13	15	6	11	10	17	14	9	10	14	14	146
40-49	52	67	99	98	114	8	6	13	14	15	4	14	6	7	9	8	10	114
50-59	51	78	91	89	98	2	7	7	6	6	3	11	6	6	11	8	10	83
60+	15	19	14	21	29	2	4	0	3	5	1	4	1	7	3	3	3	36

Overdose Deaths by Town* - 2018 +

(Data Source: NH Medical Examiner's Office)

*Location where the drug(s) is suspected to have been used.

+2018 data was reported on July 16, 2019



Prepared by:
NH Information & Analysis Center

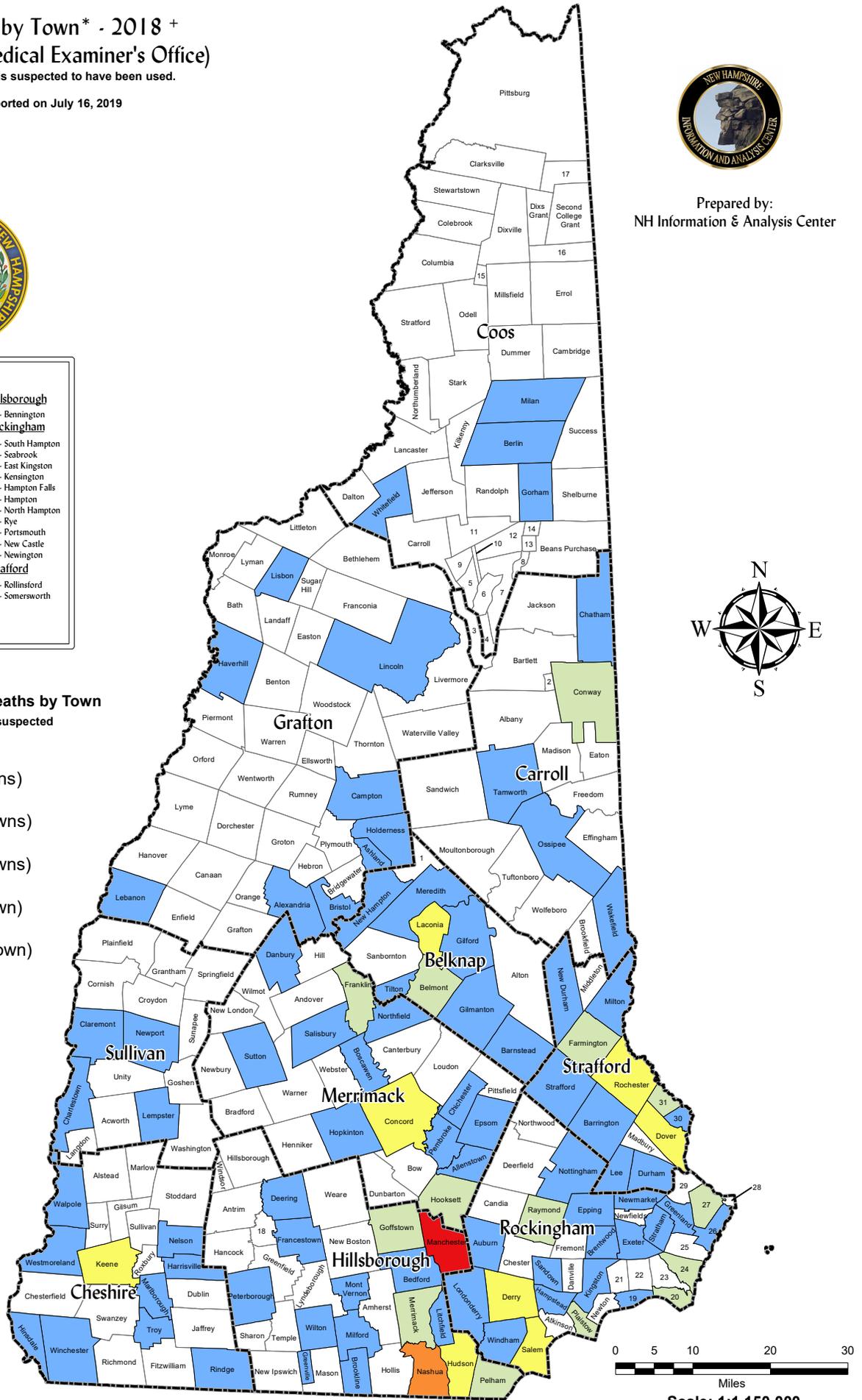


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Belknap	Hillsborough
1 - Center Harbor	18 - Bennington
Carroll	Rockingham
2 - Hales Location	19 - South Hampton
3 - Harts Location	20 - Seabrook
Coos	21 - East Kingston
4 - Hadleys Purchase	22 - Kensington
5 - Beans Grant	23 - Hampton Falls
6 - Cutts Grant	24 - Hampton
7 - Sargents Purchase	25 - North Hampton
8 - Pinkhams Grant	26 - Rye
9 - Crawfords Purchase	27 - Portsmouth
10 - Chandlers Purchase	28 - New Castle
11 - Low & Burbanks Grant	29 - Newington
12 - Thompson & Meserves Purchase	Strafford
13 - Greens Grant	30 - Rollinsford
14 - Martins Location	31 - Somersworth
15 - Ervings Grant	
16 - Wentworth Location	
17 - Atkinson & Gilmanton Academy Grant	

Number of Overdose Deaths by Town

*Location where the drug(s) is suspected to have been used.



EMS Narcan Administration:

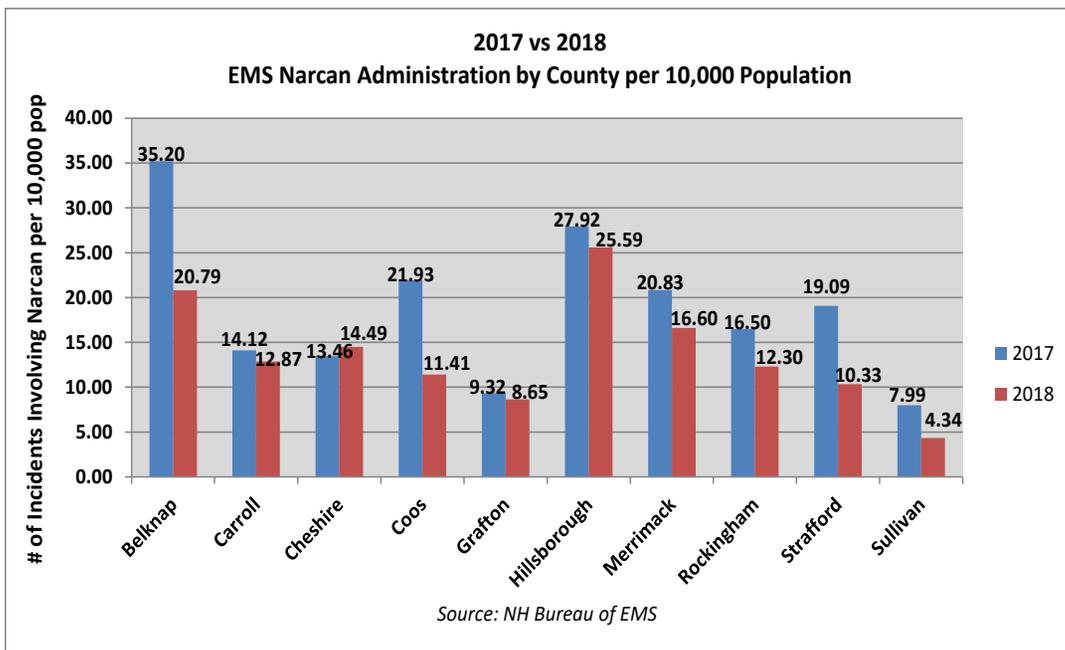
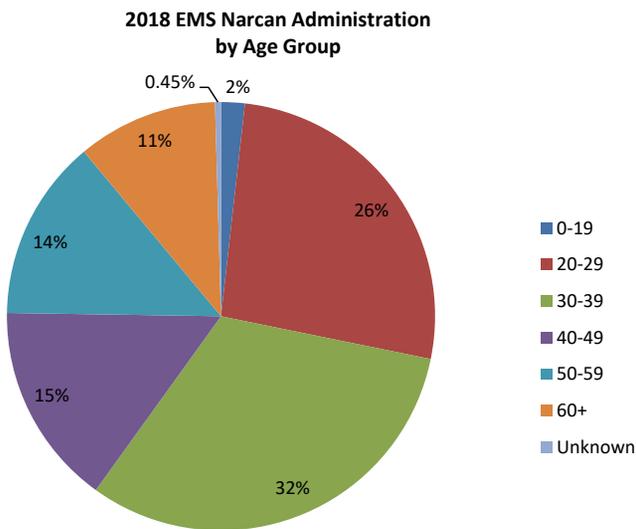
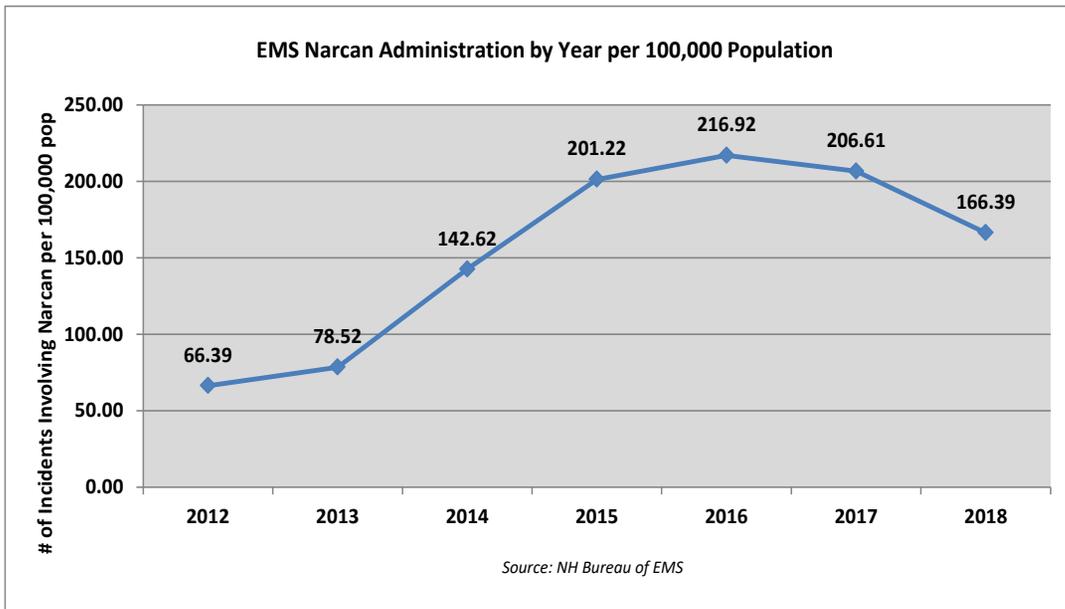
Data Source: NH Bureau of Emergency Medical Services (EMS)

Trends:

- EMS Narcan administration incidents decreased by 19.5% from 2017 to 2018, significantly more than the 5% decrease from 2016 to 2017.
- In 2018, Hillsborough County had the most EMS Narcan administration incidents per capita with 25.59 incidents per 10,000 population, while Belknap had the greatest decrease from 2017 to 2018, with a 41% reduction.
- The age group with the largest number of EMS Narcan administration incidents is 30-39 which represented 32% of all EMS Narcan administration incidents for 2018.

***** IMPORTANT DATA NOTES *****

- Narcan data in this report involves the number of incidents where Narcan was administered, NOT the number of doses of Narcan during a certain time period. Multiple doses may be administered during an incident.
- Narcan may be given for a decrease in alertness or respirations due to an overdose or unknown cause. Therefore, it cannot be concluded that all reported Narcan incidents actually involved drugs.



EMS Narcan Administration (Continued):*Data Source: NH Bureau of Emergency Medical Services (EMS)*

	2014	2015	2016	2017	January	February	March	April	May	June	July	August	Septem-	October	November	December	2018
Total	1,892	2,677	2,895	2,774	186	185	183	174	187	175	236	208	156	176	190	178	2,234
County																	
Belknap	59	113	116	215	15	19	12	10	5	8	9	7	5	12	13	12	127
Carroll	52	80	91	68	4	4	4	2	6	8	11	10	1	2	4	6	62
Cheshire	65	79	144	104	6	12	9	11	15	11	14	6	9	9	7	3	112
Coos	41	65	65	73	1	4	2	6	2	2	8	2	1	3	3	4	38
Grafton	56	57	66	84	9	13	5	3	7	5	7	9	6	4	6	4	78
Hillsborough	757	1,139	1,209	1,140	69	81	95	81	92	70	123	112	82	78	85	77	1,045
Merrimack	185	228	233	310	23	22	17	15	18	18	23	22	17	28	26	18	247
Rockingham	380	501	488	503	49	21	29	29	29	37	29	30	24	33	30	35	375
Strafford	286	380	449	242	9	7	6	14	11	15	9	9	10	7	15	19	131
Sullivan	11	35	34	35	1	2	4	3	2	1	3	1	1	0	1	0	19
Gender																	
Male	1,185	1,736	1,916	1,879	130	110	123	117	125	124	154	152	96	123	129	120	1,503
Female	706	938	979	887	56	75	60	57	61	51	82	56	60	53	61	58	730
Age																	
0-19	83	94	87	75	3	6	9	3	3	3	1	1	3	5	2	1	40
20-29	588	954	973	863	54	53	54	59	42	44	70	53	45	36	48	32	590
30-39	428	684	853	808	65	59	50	43	58	55	73	72	52	56	70	56	709
40-49	304	364	385	439	27	30	30	26	34	31	28	27	18	29	28	34	342
50-59	233	314	327	326	15	27	27	28	21	23	35	36	16	32	21	25	306
60+	246	256	253	246	22	9	9	14	27	19	28	18	22	18	21	30	237
Age or Gender Not Given	10	11	17	20	0	1	4	1	2	0	1	1	0	0	0	0	10

EMS/Narcarn Administration by Town
1/1/2018 - 12/31/2018

Data Source: New Hampshire Bureau of EMS

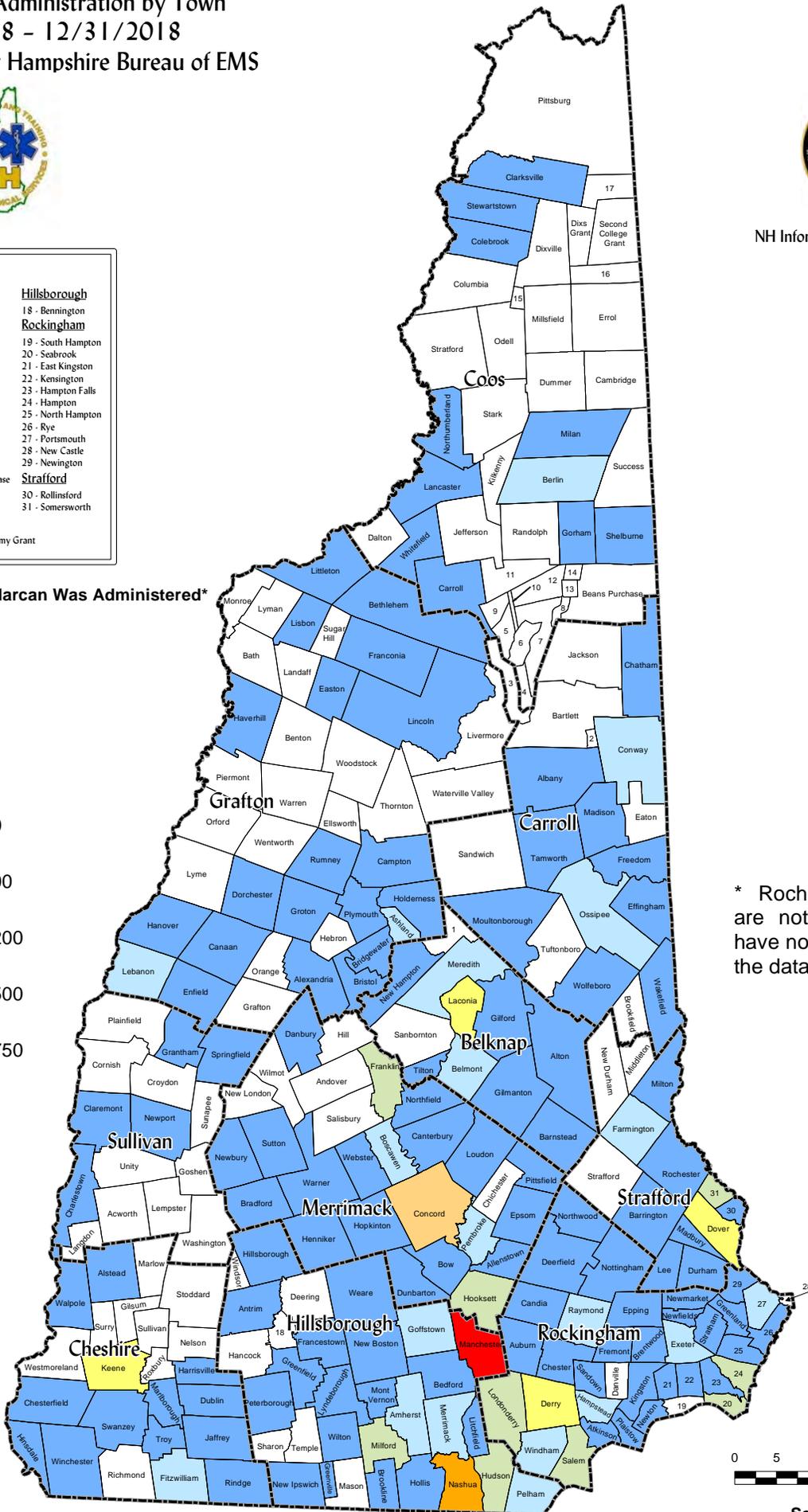
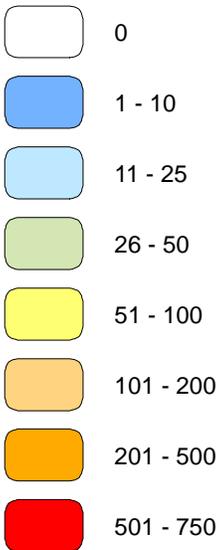


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Incidents Where Narcan Was Administered



* Rochester totals for 2018 are not complete as runs have not been uploaded into the database since April.



Opium Related Emergency Department Visits:

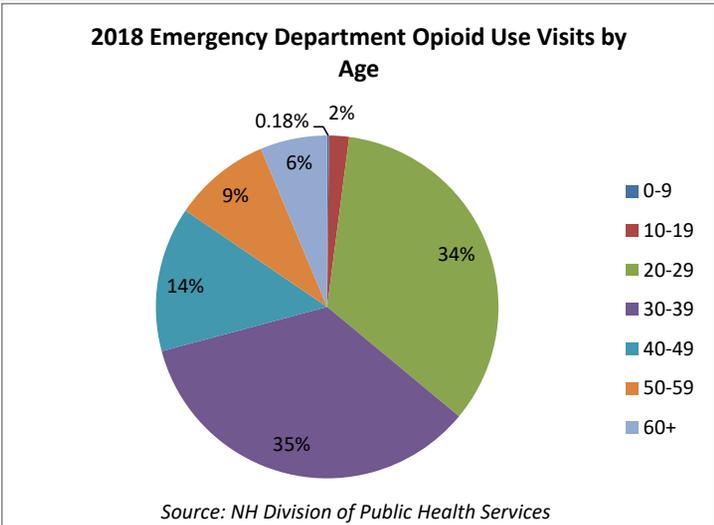
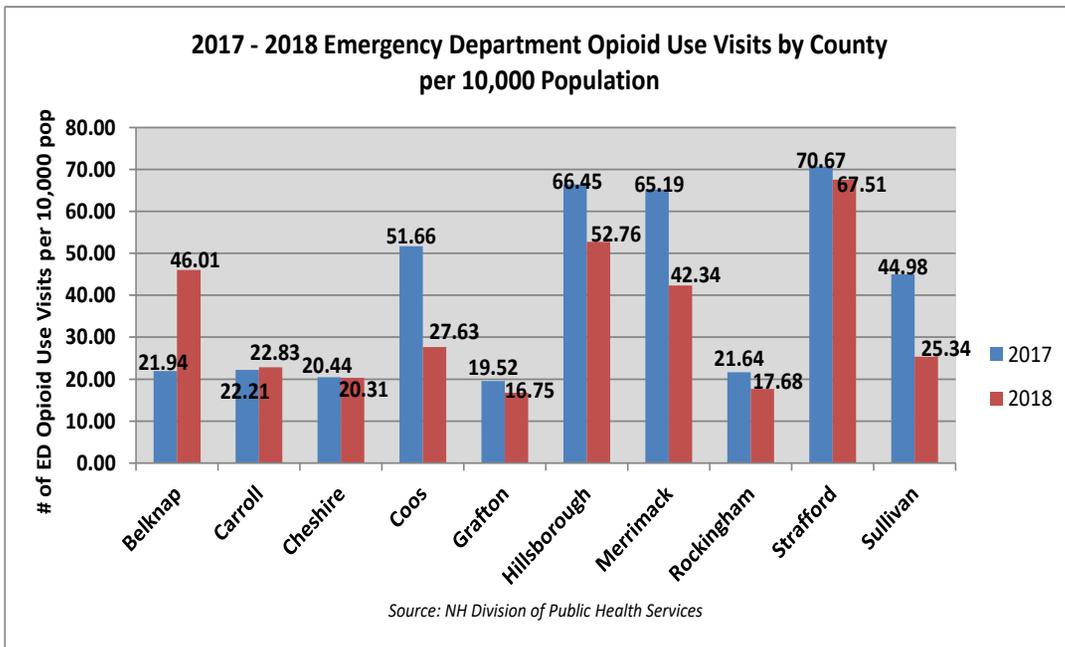
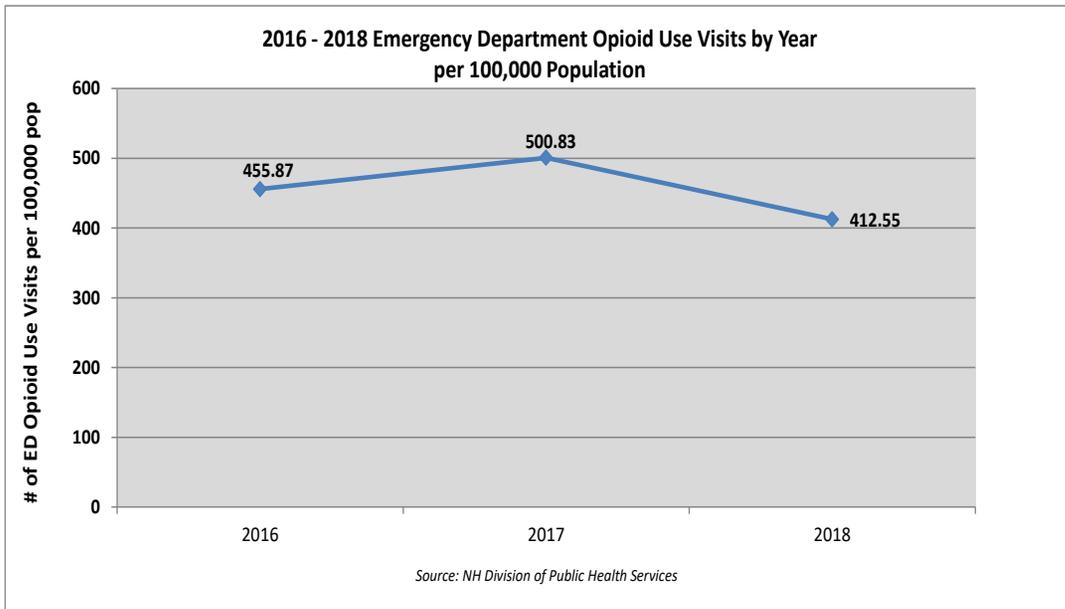
Data Source: NH Division of Public Health Services

Trends:

- Opioid related ED visits decreased by 17.6% from 2017—2018.
- For the third year in a row, residents from Strafford County had the most opioid related ED visits per capita with 67.51 visits per 10,000 population in 2018.
- Based on absolute numbers, residents from Hillsborough County had the most opioid related ED visits with 2154 visits in 2018.
- In 2018, the age group with the largest number of opioid related ED visits is 30-39 which represented 35% of all opioid related ED visits for 2018, followed closely by 20-29, with 34%.

***** IMPORTANT DATA NOTES*****

- County represents where the opioid use patient resides.
- These data represent any encounter with the term “heroin, opioid, opiate, or fentanyl” listed as chief complaint text. These data also represent any encounter with an ICD-10 code that was designated for heroin and opioids.
- Currently all but two of the hospitals are sending ICD-10 data.
- These data include other opioid-related encounters such as poisonings, withdrawals, and detox.



Opioid Related Emergency Department Visits (Continued):*Data Source: NH Division of Public Health Services*

	2016	2017	January	February	March	April	May	June	July	August	September	October	November	December	2018
Total	6,084	6,684	556	431	439	440	479	444	462	461	452	469	483	423	5,539
County															
Belknap	94	134	14	4	6	19	27	36	38	34	36	13	34	20	281
Carroll	175	107	12	7	6	8	10	9	9	10	14	6	8	11	110
Cheshire	135	158	11	23	12	10	16	15	10	13	16	13	8	10	157
Coos	143	172	12	10	6	7	8	12	3	7	5	9	10	3	92
Grafton	205	176	9	11	10	13	15	14	11	14	12	13	22	7	151
Hillsborough	2,501	2,713	239	174	174	161	177	151	168	176	192	184	187	171	2,154
Merrimack	559	970	67	41	58	54	48	44	62	63	45	50	54	44	630
Rockingham	736	660	54	39	41	35	46	46	47	27	39	64	50	51	539
Strafford	961	896	84	77	70	74	75	79	58	71	60	71	72	65	856
Sullivan	81	197	14	14	27	20	6	2	6	1	5	7	5	4	111
Out of State	494	501	40	31	29	39	51	36	50	45	28	39	33	37	458
Gender															
Male	3,452	3,798	326	229	257	241	279	269	246	267	259	281	285	244	3,183
Female	2,632	2,886	230	202	182	199	200	175	216	194	193	188	198	179	2,356
Age															
0-9	5	11	2	1	0	1	0	1	0	1	0	0	4	0	10
10-19	176	170	14	6	4	12	9	6	15	12	8	6	6	6	104
20-29	2,443	2,477	214	155	139	154	169	156	152	164	152	150	174	102	1,881
30-39	1,889	2,235	183	167	158	150	158	153	172	144	158	144	172	170	1,929
40-49	774	879	75	46	79	63	64	52	51	63	58	84	54	67	756
50-59	500	562	40	29	31	38	47	46	38	47	45	57	47	44	509
60+	297	350	28	27	28	22	32	30	34	30	31	28	26	34	350

Treatment Admissions:

Data Source: NH Bureau of Drug & Alcohol Services

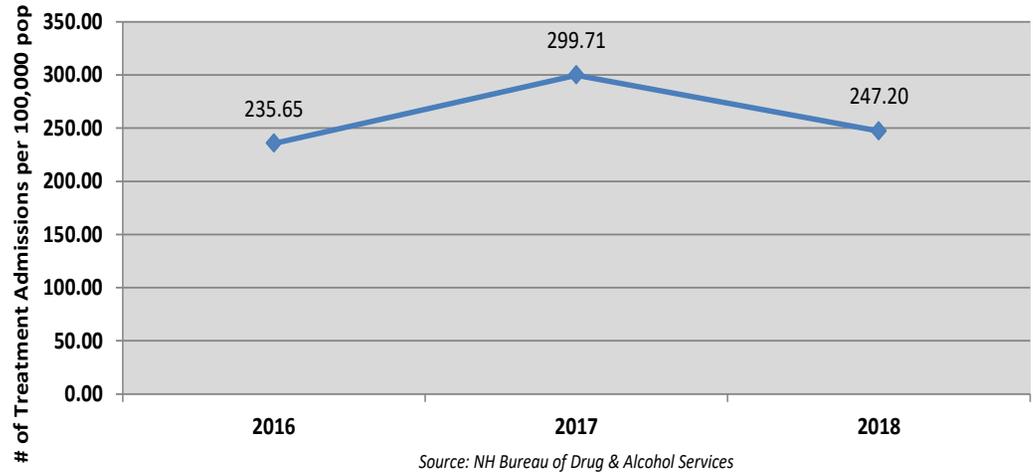
Trends:

- Opioid/opiate, methamphetamine, & cocaine/crack treatment admissions decreased by 17.5% from 2017 to 2018.
- In 2018, residents from Strafford County were admitted most often for opioid/opiate, methamphetamine, & cocaine/crack treatment per capita with 25.40 admissions per 10,000 population.
- Hillsborough County had the most residents admitted for opioid/opiate, methamphetamine, & cocaine/crack treatment with 797 admissions in 2018, a 24% reduction from 2017, when Hillsborough County also had the most residents admitted.
- In 2018, 82% of treatment admissions for the referenced substances involved opioid/opiates.

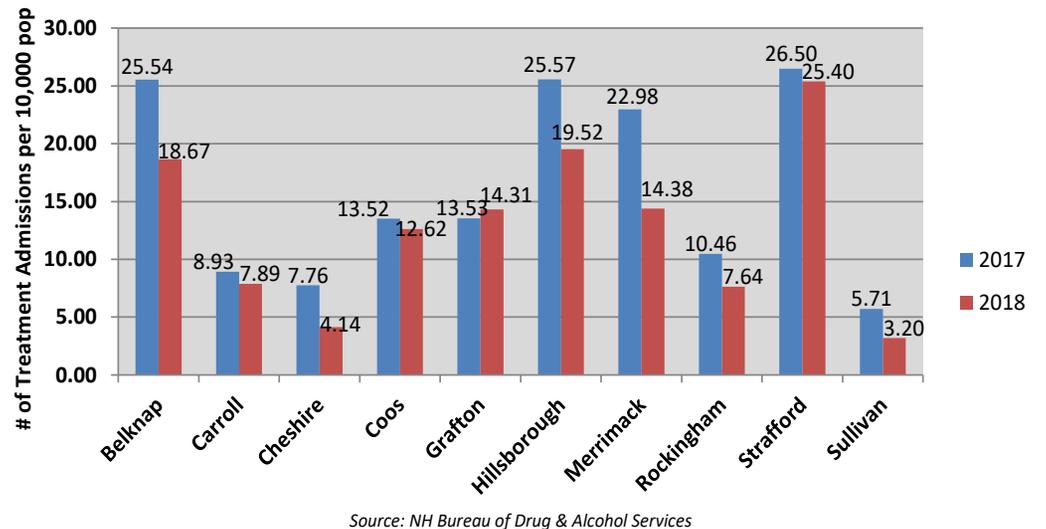
***** IMPORTANT DATA NOTES*****

- County represents where the patient resides.
- These data represent treatment admissions to state funded facilities.

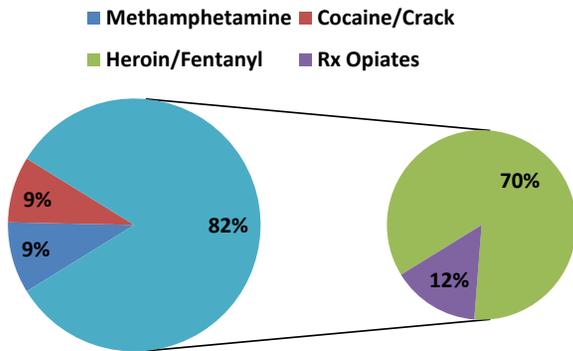
Opioid/Opiate, Methamphetamine, & Cocaine/Crack Treatment Admissions by Year per 100,000 Population



2017-2018 Opioid/Opiate, Methamphetamine, & Cocaine/Crack Treatment Admissions by County per 10,000 Population



2018 Percentage of Opioid/Opiate (Rx Opiate, Heroin/Fentanyl), Methamphetamine, & Cocaine/Crack Treatment Admissions



Source: NH Bureau of Drug & Alcohol Services

Treatment Admissions (Continued):

Data Source: NH Bureau of Drug & Alcohol Services

	2017	January	February	March	April	May	June	July	August	September	October	November	December	2018
Total	4,024	302	284	264	246	285	297	266	301	244	317	276	237	3,319
County														
Belknap	156	13	15	3	10	16	10	3	7	8	12	13	4	114
Carroll	43	4	1	3	3	7	7	2	3	1	4	1	2	38
Cheshire	60	1	3	0	0	2	2	2	16	2	0	2	2	32
Coos	45	2	6	8	4	2	2	6	6	3	1	1	1	42
Grafton	122	4	9	11	9	12	15	19	9	9	18	8	6	129
Hillsborough	1,044	76	57	59	53	63	85	68	90	55	44	78	69	797
Merrimack	342	28	15	17	10	18	25	15	21	6	26	18	15	214
Rockingham	319	27	17	19	21	22	20	17	17	13	24	24	12	233
Strafford	336	29	33	30	26	34	34	24	11	20	34	30	17	322
Sullivan	25	1	2	1	0	1	2	2	1	0	1	1	2	14
Out of State	129	0	1	2	4	1	1	1	1	0	2	1	2	16
Not Provided	1,403	117	125	111	106	107	94	107	119	127	151	99	105	1,368
Gender														
Male	2,419	179	167	154	131	162	183	138	165	141	183	160	128	1,891
Female	1,602	123	117	110	115	123	114	128	134	103	134	116	108	1,425
Transgender	2	0	0	0	0	0	0	0	2	0	0	0	1	3
Age														
< 18	7	0	0	0	0	1	0	1	0	0	0	0	0	2
18-25	821	44	61	44	54	54	44	47	57	47	51	39	39	581
> 26	3,196	258	223	220	192	230	253	218	244	197	266	237	198	2,736