

Rhode Island Municipality Overdose Data Report

WEST WARWICK



Center for Health Data and Analysis | June 2019

Acknowledgements

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This report was prepared by the following Rhode Island Department of Health staff:

Center for Health Data and Analysis

- Ekoue Folly, MPH; Overdose Data Linkage Epidemiologist
- Sarah Karim, Overdose GIS Specialist
- Leanne C.C. Lasher, MPH; Overdose Surveillance Program Manager
- Chantal Lewis, MPH; Emergency Medical Services Overdose Epidemiologist
- Carolyn Malone, MPH; Emergency Department Overdose Epidemiologist
- Rachel Scagos, MPH; Fatal Overdose Epidemiologist
- Samara Viner-Brown, MS; Chief, Center for Health Data and Analysis

Communications

- Annemarie Beardsworth, CCPH; Provider and Internal Communications
- Rachael Elmaleh; Overdose Communications Manager

Drug Overdose Prevention Program

- Jennifer Koziol, MPH; Drug Overdose Prevention Program Administrator
- Meghan McCormick, MPH; Drug Overdose Prevention Program Assistant Administrator

Governor Raimondo's Task Force on Overdose Prevention and Intervention

Co-Chairs: Tom Coderre Rebecca Boss, MA Nicole Alexander-Scott, MD, MPH

Senior Advisor Director Director

Governor's Office Behavioral Health, Developmental Department of Health

Disabilities, and Hospitals

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Introduction

The current opioid epidemic is a national, state, and local public health crisis that affects all Rhode Islanders. Not one municipality in our state has been spared the devastation brought on by this crisis. Curbing this crisis requires a comprehensive, collaborative approach of local stakeholders from across the State. To respond to this public health crisis, Governor Raimondo's Overdose Prevention and Intervention Task Force, co-chaired by the Governor's Office, The Rhode Island Department of Health (RIDOH), and the Rhode Island Department of Behavioral Healthcare, Developmental Disabilities, and Hospitals (BHDDH), developed a strategic plan to address Rhode Island's overdose epidemic. The *Overdose Prevention Action Plan* focuses on four areas of strategies and interventions to help eliminate overdoses and save lives: prevention, treatment, rescue, and recovery. RIDOH invites municipal leaders to join the State's efforts to save lives and support our fellow Rhode Islanders who have been affected by overdose and addiction.

The Drug Overdose Surveillance Program in the Center for Health Data and Analysis at RIDOH maintains and utilizes multiple sources of overdose-related data. This city/town-specific report, focuses on three sources of data which may be helpful in overdose response planning for your municipality:

- 1. Emergency department visits;
- 2. Emergency Medical Services EMS runs; and
- 3. Fatal overdoses from the Office of State Medical Examiners (OSME).

Purpose of Report

The purpose of this report is to provide overdose data that may be helpful in informing community-level action. This report may help your community identify target populations and understand how the pattern of overdose in your city/town compares to the relevant county and statewide. We hope you find this report helpful as your Community Overdose Engagement (CODE) Planning Committee continues to develop, implement, and evaluate your local Overdose Action Plan.

Data Notes and Limitations

Small numbers: Counts of less than five have been suppressed per <u>RIDOH's Small Numbers Policy</u> (http://health.ri.gov/publications/policies/SmallNumbersReporting.pdf) due to privacy and reliability concerns. Any future use of counts to construct proportions, rates, and other statistics is subject to reliability and privacy verifications. Race and ethnicity data are not shown in this report due to small numbers.

Emergency Department (ED) Visits: RIDOH maintains an Opioid Overdose Reporting System, also known as the *48-Hour Reporting System*, which contains overdose reports from EDs in Rhode Island. Under regulation **R23-1-OPIOID**, RIDOH requires every health professional and every hospital in the state to report all opioid overdoses or suspected opioid overdoses within 48 hours. This includes nonfatal overdoses and any overdose fatalities that occur at the hospital. If a suspected overdose patient is brought to a hospital in a neighboring state, that overdose report may not be captured in Rhode Island's numbers. Municipalities that are located in close proximity to hospitals in Connecticut or Massachusetts may show an under-representation. Source for all ED visit data in this report is 48-Hour Reporting System. Data are current as of June 3, 2019 and are subject to change. Some questions in the 48-Hour Reporting System have changed over time, so the response categories have been re-grouped accordingly.

Emergency Medical Services (EMS) Runs: National EMS Information System (NEMSIS) is a nationwide prehospital patient care database utilized by licensed ambulance services in Rhode Island. To accurately and systematically identify opioid overdose-related EMS runs, RIDOH developed a case definition (http://www.health.ri.gov/publications/guidelines/ESOOSCaseDefinitionForEMS.pdfs) of what constitutes an overdose case based on five components:

- 1. Primary/secondary impression categories;
- 2. Medication given (dropdown field);
- 3. Medication response;
- 4. Mention of naloxone and unresponsive term in narrative report; and
- 5. Naloxone given prior to EMS.

Source for all EMS data in this report is the Rhode Island Emergency Medical Services Information System (RI-EMSIS). All data are current as of May 10, 2019, and subject to change. Due to a system transition from NEMSIS 2.2.1 to NEMSIS 3.4 in 2017 and early 2018, some information may not yet be entered.

ED and EMS data are both based on the location of the overdose, not the patient's city/town of residence. Differences between ED and EMS data can occur and can be attributed to variations based on reporting completeness, accuracy, timeliness, and case definitions. In addition, a patient may arrive at the emergency department in a manner other than EMS. Statewide, transport refusal for opioid overdose-related EMS runs is less than 1%.

Fatal Overdoses: Source for all fatal overdose data in this report is Office of State Medical Examiners (OSME). Data reflect accidental drug overdose deaths when an individual is pronounced dead *in Rhode Island*. The city or town where the overdose occurred can be different than the city or town where the individual was pronounced dead. If the location of the incident was not in Rhode Island or is unknown, the death is not usually included in a geographical count. Variations in unknown city of incident may impact trends. Rhode Island residents who died of accidental drug overdose deaths outside of Rhode Island are not included. County level data may be provided in figures if the city/town level counts were too small to display.

Municipalities by County

Rhode Island has 39 municipalities which are divided into five counties:

Bristol County: Barrington, Bristol, and Warren

Kent County: Coventry, East Greenwich, Warwick, West Greenwich,

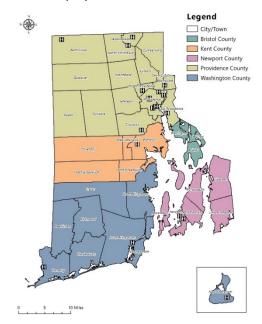
and West Warwick

Newport County: Jamestown, Little Compton, Middletown, Newport,

Portsmouth, and Tiverton

Providence County: Burrillville, Central Falls, Cranston, Cumberland, East Providence, Foster, Glocester, Johnston, Lincoln, North Providence, North Smithfield, Pawtucket, Providence, Scituate, Smithfield, and Woonsocket

Washington (South) County: Charlestown, Exeter, Hopkinton, Narragansett, New Shoreham (Block Island), North Kingstown, Richmond, South Kingstown, and Westerly



Emergency Department Visits: City, County, and Statewide Trend

Between 2016* - 2018, West Warwick accounted for 23% of opioid overdose-related ED visits in Kent County and 4.3% of the state. The number of opioid overdose-related ED visits in West Warwick decreased from 56 in 2016 to 54 in 2018. Percent change not calculated due to incomplete data in 2016.

Figure 1: Number of Opioid Overdose ED Visits That Occurred in WEST WARWICK by Quarter, 2016* - 2018



^{*}January 2016 data may be incomplete.
Data Source: 48-Hour Overdose Reporting System

Table 1: Opioid Overdose ED Visits by Incident Location and Quarter, 2016* -2018

Incident		2016						2017			2018				
Location	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
West Warwick	<5	12	21	20	56	17	15	23	18	73	15	16	7	16	54
Kent County	18	63	79	73	233	64	75	88	85	312	55	65	47	73	240
Rhode Island	252	425	412	321	1,410	294	364	414	403	1,475	300	390	332	377	1,399

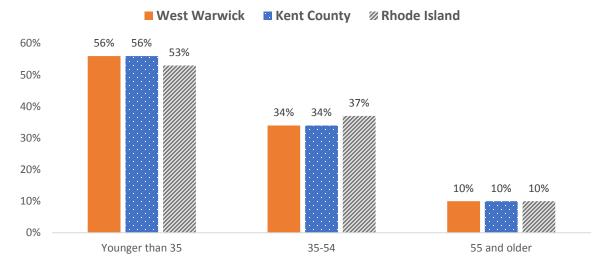
Note: 345 overdoses were reported with an "unknown" incident location and 176 overdoses were reported with an incident location outside of Rhode Island between 2016 and 2018, these cases are excluded from the table above.

^{*}January 2016 data may be incomplete.

Emergency Department Visits: Age Group

The percentage of opioid overdose-related ED visits among persons age 55 and older was the same in West Warwick (10%) compared to the statewide percentage (10%).

Figure 2: Percentage of Opioid Overdose ED Visits by Age Group and Incident Location, 2016* - 2018



^{*}January 2016 data may be incomplete.

Note: Percentages may not total to 100% due to rounding.

Data Source: 48-Hour Overdose Reporting System

Table 2: Opioid Overdose ED Visits by Age Group and Incident Location, 2016* - 2018

Incident Location	Younger than 35	35-54	55 or older	Total
West Warwick	102 (56%)	63 (34%)	18 (10%)	183 (100%)
Kent County	442 (56%)	266 (34%)	77 (10%)	785 (100%)
Rhode Island	2,274 (53%)	1,581 (37%)	429 (10%)	4,284 (100%)

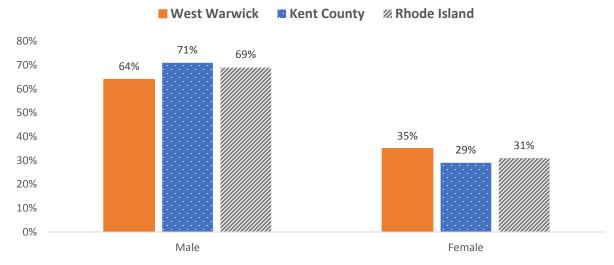
^{*}January 2016 data may be incomplete.

Note: Percentages may not total to 100% due to rounding.

Emergency Department Visits: Sex

Of the persons who experienced an opioid overdose in West Warwick between 2016-2018, a higher proportion were male (64%), compared to female (35%). This is similar to the distribution seen in Kent County and in the State.

Figure 3: Opioid Overdose ED Visits by Sex and Incident Location, 2016* - 2018



^{*}January 2016 data may be incomplete.

Note: Percentages may not total to 100% due to rounding.

Data Source: 48-Hour Overdose Reporting System

Table 3: Opioid Overdose ED Visits by Sex and Incident Location, 2016* - 2018

Location	Male	Female	Transgender	Total
West Warwick	118 (64%)	64 (35%)	<5	183(100%)
Kent County	557 (71%)	225 (29%)	<5	785 (100%)
Rhode Island	2,950 (69%)	1,328 (31%)	6 (<1%)	4,284 (100%)

*January 2016 data may be incomplete.

Note: Percentages may not total to 100% due to rounding.

Emergency Department Visits: Patient Outcome

Of the persons who experienced an opioid overdose in West Warwick, a lower percentage were discharged (61%) compared to the statewide total (65%), and a similar percentage were transferred to the ICU (9%) compared to statewide totals (7%). This information is not specific to hospitals within your city/town. See page 10 for information on which hospitals patients presented at.

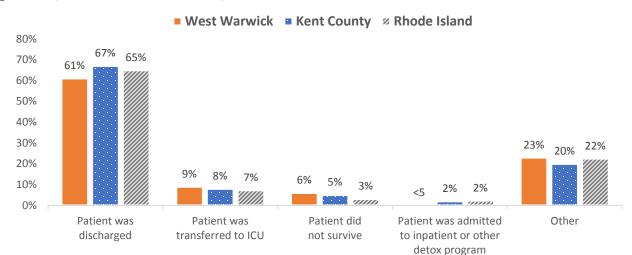


Figure 4: Opioid Overdose ED Visits by Patient Outcome and Incident Location, 2016* - 2018

Note: The category "other" includes patient left against medical advice (AMA), patient left without being treated, patient was admitted to an inpatient floor, patient was transferred to another facility, the outcome after patient's survival was unknown, and unknown. Percentages may not total to 100% due to rounding. Percentages may not total to 100% due to rounding.

Data Source: 48-Hour Overdose Reporting System

Table 4: Opioid Overdose ED Visits by Patient Outcome and Incident Location, 2016* - 2018

Incident Location	Patient discharged	Patient transferred to ICU	Patient did not survive	Patient admitted to detox program (inpatient or other)	Other	Total
West Warwick	112 (61%)	17 (9%)	11 (6%)	<5	42 (23%)	183 (100%)
Kent County	521 (67%)	60 (8%)	37 (5%)	14 (2%)	153 (20%)	785 (100%)
Rhode Island	2,781 (65%)	308 (7%)	133 (3%)	96 (2%)	966 (22%)	4,284 (100%)

^{*}January 2016 data may be incomplete.

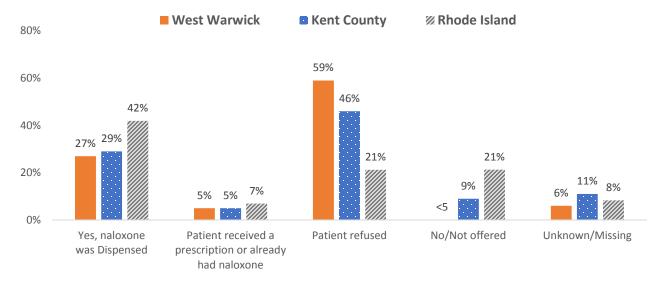
Note: The category "other" includes patient left against medical advice (AMA), patient left without being treated, patient was admitted to an inpatient floor, patient was transferred to another facility, the outcome after patient's survival was unknown, and unknown. Percentages may not total to 100% due to rounding. Percentages may not total to 100% due to rounding.

^{*}January 2016 data may be incomplete.

Emergency Department Visits: Naloxone Distribution at Discharge

Among persons who experienced an opioid overdose in West Warwick and were discharged from an ED, 27% received naloxone. This is lower than the statewide percentage.

Figure 5: Naloxone Distribution Status to Patients Discharged from ED after Opioid Overdose by Incident Location, 2016* - 2018



^{*}January 2016 data may be incomplete.

Note: Percentages may not total to 100% due to rounding.

Data Source: 48-Hour Overdose Reporting System

Table 5: Naloxone Distribution Status to Patients Discharged from ED after Opioid Overdose by Incident Location, 2016* - 2018

Incident Location	Yes, naloxone was dispensed	Patient received a prescription or already had naloxone	Patient refused	No/Not offered	Unknown/ Missing	Total
West Warwick	30 (27%)	6 (5%)	66 (59%)	<5	7 (6%)	112 (100%)
Kent County	151 (29%)	28 (5%)	241 (46%)	46 (9%)	55 (11%)	521 (100%)
Rhode Island	1,165 (42%)	202 (7%)	590 (21%)	593 (21%)	231 (8%)	2,781 (100%)

^{*}January 2016 data may be incomplete.

Note: Percentages may not total to 100% due to rounding.

Emergency Department Visits: Hospital Treatment Site

Among persons who experienced an opioid overdose in the city of West Warwick, 95% were treated at Kent County Hospital.

Figure 6: Opioid Overdose ED Visits by Incident Location and Hospital, 2016* - 2018

W	est Warw	vick		ŀ	Kent C	ounty			Rhode Island		
Westerly	0%			Westerly	0%			Westerly	3%		
TMH	0%			TMH	<5			TMH	/// 11	%	
SC	0%			SC	0%			SC	3%		
RW	0%			RW	<5			RW	6%		
RIH/Hasbro	5%			RIH/Hasbro	7%			RIH/Hasbro		36%	
OLF	0%			OLF	0%			OLF	3%		
Newport	0%			Newport	0%			Newport	3%		
Memorial	0%			Memorial	<5			Memorial	6%		
Landmark	0%			Landmark	0%			Landmark	8%		
Kent			95%	Kent	141414		92%	Kent		21%	
Butler	0%			Butler	0%			Butler	0%		
0	% 50%	100	0%	C)%	50%	100%	(0%	50%	100%

^{*}January 2016 data may be incomplete.

Note: Memorial Hospital closed as of January 1, 2018. RIH: Rhode Island Hospital, RW: Roger Williams Hospital, OLF: Our Lady of Fatima, SC: South County Hospital, TMH: The Miriam Hospital. Percentages may not total to 100% due to rounding.

Data Source: 48-Hour Overdose Reporting System

Table 6: Opioid Overdose ED Visits by Incident Location and Hospital, 2016* - 2018

Incident Location	Butler	Kent	Land- mark	Memorial	New- port	OLF	RIH/ Hasbro	RW	SC	TMH	West- erly	Total
West Warwick	0%	95%	0%	0%	0%	0%	5%	0%	0%	0%	0%	100%
Kent County	0%	92%	0%	<5	0%	0%	7%	<5	0%	<5	0%	100%
Rhode Island	0.14%	21%	8%	6%	3%	3%	36%	6%	3%	11%	3%	100%

^{*}January 2016 data may be incomplete.

Note: Memorial Hospital closed as of January 1, 2018. RIH: Rhode Island Hospital, RW: Roger Williams Hospital, OLF: Our Lady of Fatima, SC: South County Hospital, TMH: The Miriam Hospital. Percentages may not total to 100% due to rounding.

Emergency Medical Services Runs: City, County, and Statewide Trend

In 2016, 2017, and 2018, West Warwick has consistently accounted for approximately 16% of opioid overdose-related EMS runs in Kent County and 2% of opioid overdose-related EMS runs in the State.

Figure 7: Opioid Overdose-Related EMS Runs That Occurred in WEST WARWICK by Quarter, 2016 - 2018



Data Source: RI-EMSIS

Table 7: Opioid Overdose-Related EMS Runs by Incident Location and Quarter, 2016 - 2018

Incident		2016				2017				2018					
Location	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
West Warwick	7	16	10	8	41	<5	0	<5	8	12	10	17	7	8	42
Kent County	47	69	29	46	191	38	48	57	50	193	45	66	58	51	220
Rhode Island	348	489	408	392	1,637	377	388	395	350	1,510	288	409	383	422	1,502

Data Source: RI-EMSIS

Emergency Medical Services Runs: Location Type

Private settings are areas such as personal residence. Semi-private includes places such as hospitals, assisted living facilities, nursing homes, prisons, residential institutions, and hotels/motels. Public locations include a variety of settings, such as streets, parking lots, parks, restaurants, or stores.

The majority of opioid overdoses in West Warwick and Kent County occurred in private settings. The percentage of opioid overdoses in public settings was less in West Warwick and Kent County compared with the State.

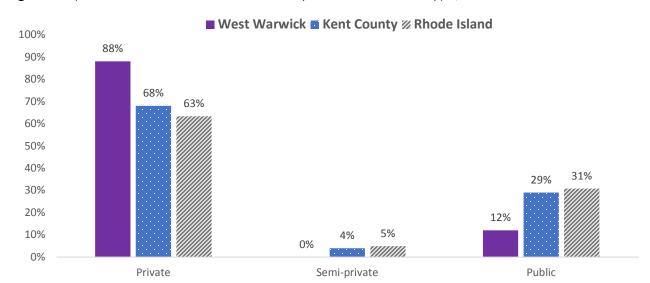


Figure 8: Opioid Overdose-Related EMS Runs by Incident Location Type, 2016 - 2018

Data Source: RI-EMSIS

Note: For EMS runs by incident location, unknown incident location accounted for 0.0% of opioid overdoses in West Warwick, 0.0% of opioid overdoses in Kent County, and 1.0% of opioid overdoses in the State. Percentages may not total to 100% due to rounding.

Table 8: Opioid Overdose-Related EMS Runs by Incident Location Type, 2016 - 2018

Location	Private	Semi-private	Public	Total
West Warwick	84 (88%)	0 (0%)	11 (12%)	95 (100%)
Kent County	408 (68%)	21 (4%)	175 (29%)	604 (100%)
Rhode Island	2,940 (63%)	227 (5%)	1,434 (31%)	4,649 (100%)

Data Source: RI-EMSIS

Note: For EMS runs by incident location, unknown incident location accounted for 0.0% of opioid overdoses in West Warwick, 0.0% of opioid overdoses in Kent County, and 1.0% of opioid overdoses in the State. Percentages may not total to 100% due to rounding.

Fatal Overdoses: City, County, and Statewide Trend

In 2018, 14 West Warwick residents died of an accidental drug overdose in Rhode Island, but not all necessarily died within West Warwick.

Statewide, accidental drug overdose deaths in Rhode Island have decreased by 6.5% since 2016. From 2016 to 2018, 85% of deaths in the state were opioid-involved.

Number of Deaths

Figure 9: Accidental Drug Overdose Deaths by year, 2009 - 2018: WEST WARWICK Residents

Data Source: OSME

Table 9: Accidental Drug Overdose Deaths by Location and Year, 2009 - 2018

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West Warwick	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Resident Count	<5	8	9	6	14	7	11	9	11	14
Incident Count	<5	6	8	5	12	6	9	11	11	14
Kent County										
Resident Count	28	26	35	39	46	31	42	39	39	47
Incident Count	27	24	23	25	32	36	38	42	45	50
Rhode Island										
Total Residents	128	142	160	176	211	222	268	295	294	279
Total Incidents	138	153	173	183	232	240	290	336	324	314

Data Source: OSME

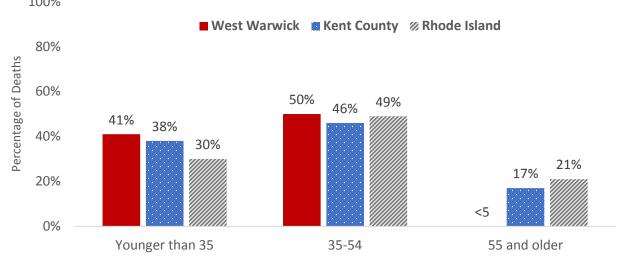
Note: Total residents reflects counts of accidental drug overdose deaths that occurred in Rhode Island among known Rhode Island residents. Total incidents reflect counts of accidental drug overdose deaths that occurred in Rhode Island but may include residents of other states.

Fatal Overdoses: Age Group

Between 2016 and 2018, half of West Warwick residents who died of an accidental drug overdose in Rhode Island were between the ages of 35 and 54 (50%). The percentage of overdose deaths among persons younger than 35 was higher in West Warwick compared to Kent County and statewide.

Statewide, between 2016 and 2018, the decrease in accidental drug overdose deaths was not consistent across all age groups. The percentage of fatal overdoses in persons age 35-44 and age 55 and older increased during this time. Due to small numbers, trends in age group by municipality are not included in this report.

Figure 10: Accidental Drug Overdose Deaths by Resident Location and Age Group, 2016 - 2018 100%



Data Source: OSME

Note: Percentages may not total to 100% due to rounding.

Table 10: Accidental Drug Overdose Deaths by Resident Location and Age Group, 2016 - 2018

Resident Location	Younger than 35	35-54	55 and older	Total
West Warwick	14 (41%)	17 (50%)	<5	34 (100%)
Kent County	47 (38%)	57 (46%)	21 (17%)	125 (100%)
Rhode Island	262 (30%)	425 (49%)	181 (21%)	868 (100%)

Data Source: OSME

Note: Percentages may not total to 100% due to rounding.

Fatal Overdoses: Sex

From 2016-2018, the majority of accidental overdose deaths among West Warwick residents occurred among males, and was similar to the county distribution by sex and slightly higher among males than the statewide distribution.

Statewide, between 2016 and 2018, the percentage of accidental drug overdose deaths by sex remained consistent.

100% ■ West Warwick ■ Kent County ※ Rhode Island 79% 78% 80% 73% Percentage of Deaths 60% 40% 27% 22% 21% 20% 0% Male Female

Figure 11: Accidental Drug Overdose Deaths by Sex and Resident Location, 2016 - 2018

Data Source: OSME

Note: Percentages may not total to 100% due to rounding.

Table 11: Accidental Drug Overdose Deaths by Sex and Resident Location, 2016 - 2018

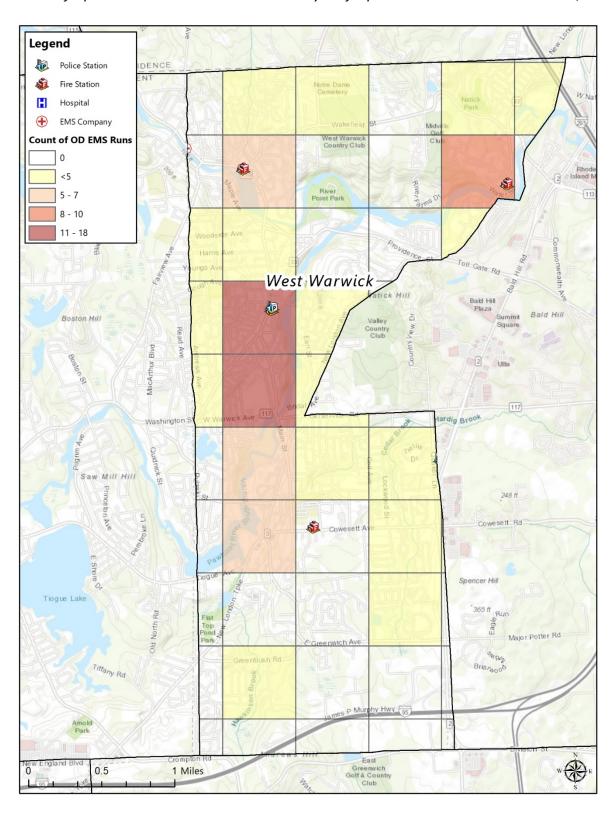
	3	,	,
Resident Location	Male	Female	Total
West Warwick	27 (79%)	7 (21%)	34 (100%)
Kent County	97 (78%)	28 (22%)	125 (100%)
Rhode Island	636 (73%)	232 (27%)	868 (100%)

Data Source: OSME

Note: Percentages may not total to 100% due to rounding.

Emergency Medical Services Runs: City-Specific Map

Map 1: Location of Opioid Overdose-Related EMS Runs by Half Square Mile Grid in West Warwick, 2016 - 2018

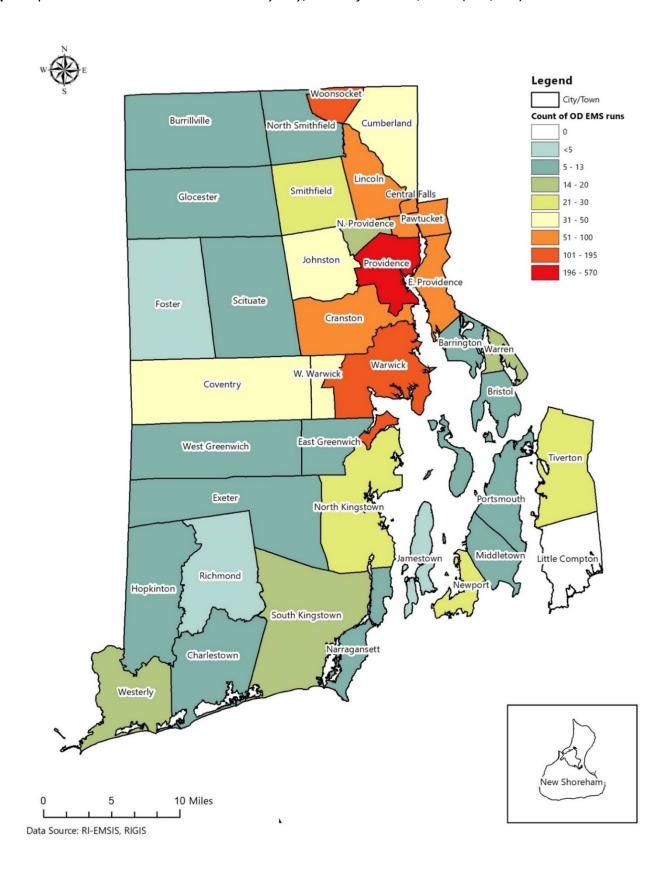


Data source: RI-EMSIS; RIGIS

Note: Each map has its own data source and its own definition for the denominator. Therefore, an individual city/town data map may provide different results and look different than the city/town shown in comparison to all municipalities in the State.

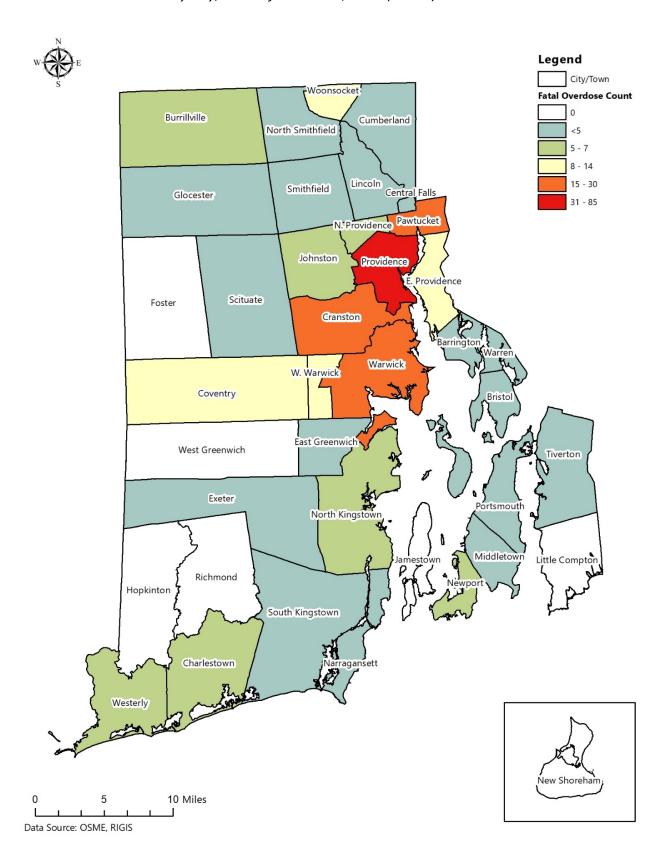
Emergency Medical Services Runs: City/Town Map

Map 2: Opioid Overdose-Related EMS Runs by City/Town of Incident, 2018 (n=1,500)



Fatal Overdoses: City/Town Map

Map 3: Fatal Overdose Counts by City/Town of Residence, 2018 (n=279)



More Information

• For overdose-related data questions, contact:

Leanne Lasher, MPH
Program Manager, Drug Overdose Surveillance Program
RIDOH
3 Capitol Hill
Providence, RI 02908
Leanne.Lasher@health.ri.gov
401-222-5746

• To find resources on Rhode Island's *Overdose Prevention Action Plan* and local treatment and recovery support services, visit **PreventOverdoseRI.org.**



In coordination with:

Governor Raimondo's Task Force on Overdose Prevention and Intervention



3 Capitol Hill, Providence, RI 02908 Health Information Line: 401-222-5960 / RI Relay 711 www.health.ri.gov

Nicole Alexander-Scott, MD, MPH Director of Health



Gina M. Raimondo Governor