## 2016 EMS Use of Naloxone Data Brief SIREN Pre-hospital Data Analysis

## About SIREN

The Statewide Incident Reporting Network (SIREN) is Vermont's pre-hospital electronic documentation database hosted by ImageTrend, Inc. According to Vermont State Rule, all Vermont licensed ambulance agencies are mandated to submit electronic patient care reports (ePCRs) within one business day after responding to an incident. There are currently over 360,000 records stored in SIREN, dating as far back as 2009. By 2014, 100% of Vermont based ambulances were reporting NEMSIS Version 2.2 compliant EMS data to the State. At the end of December 2016, 7 agencies had switched over to the new NEMSIS Version 3.4.0 Data Dictionary. Both databases were queried for this brief. First Response agencies are not required to submit incident reports to SIREN, but 14 of these agencies do submit their data to the state.

## Total uses of Naloxone by VT EMS agencies in 2016:

Total patients receiving naloxone: **587** Total number of naloxone administrations: **835** 

\* = Less than 6 cases, or potentially identifiable small numbers. Small numbers have been supressed.

Administrations by Age Group		
Age Group	# Administrations	
10 - 19	26	
20 - 29	215	
30 - 39	191	
40 - 49	161	
50 - 59	116	
60 - 69	51	
70 - 79	45	
80 - 89	23	

Administrations by Gender			
Gender	er # Administrations		
Female	305		
Male	528		

Route of Administration		
Administration Route	2016	
Intravenous	345	
Intranasal	383	
Intraosseous	60	
Intramuscular	31	
Other/Misc	16	

Patients Receiving Multiple Doses		
# Doses	2016	
1	398	
2	155	
3	20	
4	6	
5	5	
6	3	

Administrations by County		
County	2016	
Addison	30	
Bennington	57	
Caledonia	40	
Chittenden	154	
Essex	*	
Franklin	76	
Grand Isle	*	
Lamoille	16	
Orange	23	
Orleans	36	
Rutland	108	
Washington	114	
Windham	91	
Windsor	72	
New Hampshire	7	
New York	*	

EMS agencies in Vermont may carry and use naloxone across all four levels of licensed providers in accordance with the VT Statewide EMS Protocols. Note that indications for use of naloxone, particularly by advanced level providers, may be more expansive than solely for known/suspected acute opioid/opiate overdose reversal.

**Data Limitations:** If a patient received pre-hospital care for involving more than one data-submitting EMS agency, that patient may be counted multiple times (once for each EMS agency encounter).

SIREN data is entered by Vermont licensed EMS providers from across Vermont. Since there are a large number of providers submitting data, it should be recognized that individual, agency, or even regional tendencies and/or subjectivities in data reporting may exist. For this reason, administrations may be underreported.

