

2014-15 EMS Use of Naloxone Data Brief – NEW 2015 DATA

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 almost 350,000 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. 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:

2014 – Total patients receiving naloxone: **397**

2015 – Total patients receiving naloxone: **437**

2014 – Total number of naloxone administrations: **546**

2015 – Total number of naloxone administrations: **618**

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

Administrations by Age Group		
Age Group	2014 Count	2015 Count
10 - 19	25	24
20 - 29	174	132
30 - 39	77	137
40 - 49	81	99
50 - 59	82	105
60 - 69	46	68
70 - 79	25	19
80 - 89	24	26
89+	10	7

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.

Administrations by Gender		
Gender	2014 Count	2015 Count
Female	219	273
Male	323	345

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).

Additionally, 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.

Administrations by County		
County	2014	2015
ADDISON	32	29
BENNINGTON	34	40
CALEDONIA	41	40
CHITTENDEN	120	188
ESSEX	*	*
FRANKLIN	48	47
GRAND ISLE	*	*
LAMOILLE	17	13
ORANGE	14	30
ORLEANS	15	19
RUTLAND	68	64
WASHINGTON	49	54
WINDHAM	48	50
WINDSOR	31	35
Out of State	20	*

Patients Receiving Multiple Doses		
# of Doses	2014	2015
1	281	302
2	90	101
3	19	26
4	7	6
5	0	1
7	0	1

Route of Administration			
Administration Route	2014	2015	
Intramuscular	13	9	
Intranasal	180	260	
Intraosseous	32	37	
Intravenous	306	299	
Other/Miscellaneous	13	13	
Not Available	3	0	