

# Quarterly EMS Use of Naloxone Data Brief

## SIREN Pre-hospital Data Analysis

### Quarter 1: January 1, 2018 – March 31, 2018

#### Background

Opioids are a class of drugs used to reduce pain and include natural opioids (morphine and codeine), semi-synthetic (oxycodone, hydrocodone, hydromorphone, oxymorphone), synthetic (methadone, tramadol, fentanyl), and illicit opioids (heroin).<sup>1</sup> Drug overdoses continue to increase in the United States and are a public health concern in Vermont. Emergency Medical Service (EMS) personnel use the state's electronic patient care reporting system, the Statewide Incident Reporting Network (SIREN), to document calls where EMS was activated. This data brief includes all EMS calls documented in SIREN from 1/1/2018 – 3/31/2018 where Naloxone administration was documented.

Vermont EMS agencies, including transporting ambulance agencies and first response organizations without transport capabilities, may carry and use naloxone across all four levels of licensed providers (EMR, EMT, AEMT, and paramedic), in accordance with the VT Statewide EMS Protocols. EMRs and EMTs may administer Naloxone intranasally, while AEMTs and paramedics may administer Naloxone through additional methods such as intravenously, intraosseous, or intramuscular.

#### Total Uses of Naloxone by EMS Agencies in Quarter 1 (1/1/2018 – 3/31/2018)

Number of patients that received Naloxone = **131**

Number of Naloxone administrations = **180**

Administrations by County	
County	Quarter 1 2018
Addison	*
Bennington	15
Caledonia	*
Chittenden	19
Essex	*
Franklin	20
Grand Isle	*
Lamoille	*
Orange	*
Orleans	*
Rutland	26
Washington	26
Windham	31
Windsor	16
Out of state	3

Patients Receiving Multiple Doses	
# Doses	# of Patients
1	88
2	38
3	4
4	1

Administrations by Age Group	
Age Group	# of Administrations
< 14	1
14 - 24	20
25 - 44	92
45 - 64	42
65+	25

Route of Administration	
Route	# of Patients
Intravenous (IV)	44
Intranasal	113
Intraosseous (IO)	18
Intramuscular (IM)	1
Other/Miscellaneous	4

Administrations by Gender	
Gender	# of Administrations
Male	96
Female	84
Unknown/Blank	0

\*Numbers less than 10 have been suppressed due to potentially identifiable numbers

<sup>1</sup>CDC, Opioid Data Analysis, <https://www.cdc.gov/drugoverdose/data/analysis.html>