

Data from the Statewide Incident Reporting Network (SIREN) and the Vermont EMS Office were analyzed for COVID-19-19 topics of interest for the week of April 26, 2020 – May 2, 2020. Topics of interest include:

- Assessing the impacts of COVID-19 on the Vermont EMS system, including reduced call volume.
- Measuring the PPE consumption (“burn rate”) in Vermont EMS.
- Evaluating potential EMS COVID-19 calls through supplemental questions.

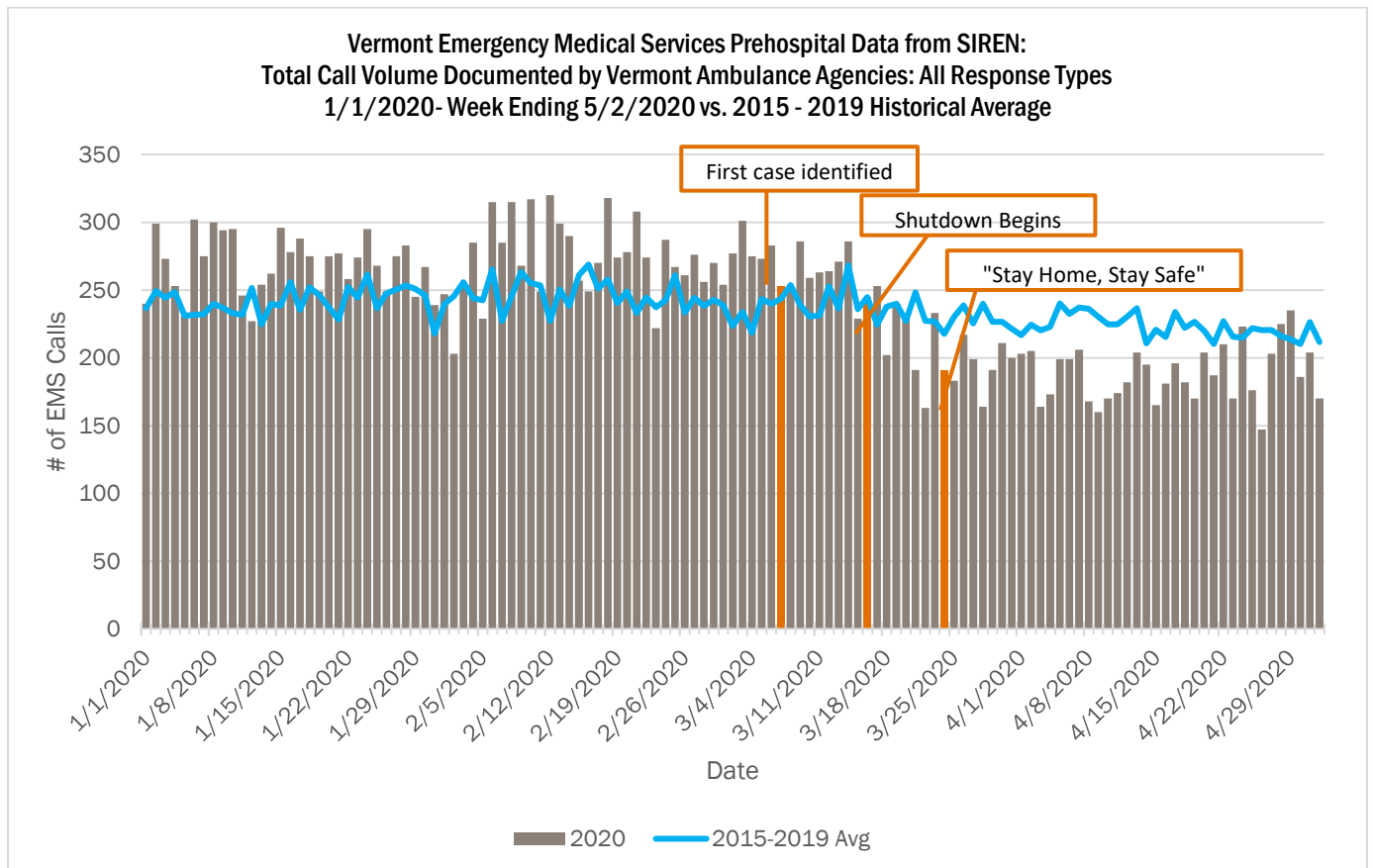
The data in this summary are preliminary and subject to change.

EMS Call Volume

Vermont EMS agencies have observed a significant decrease in call volumes for all response types, particularly 911 calls, interfacility and medical transports, mutual aid responses, and intercepts.

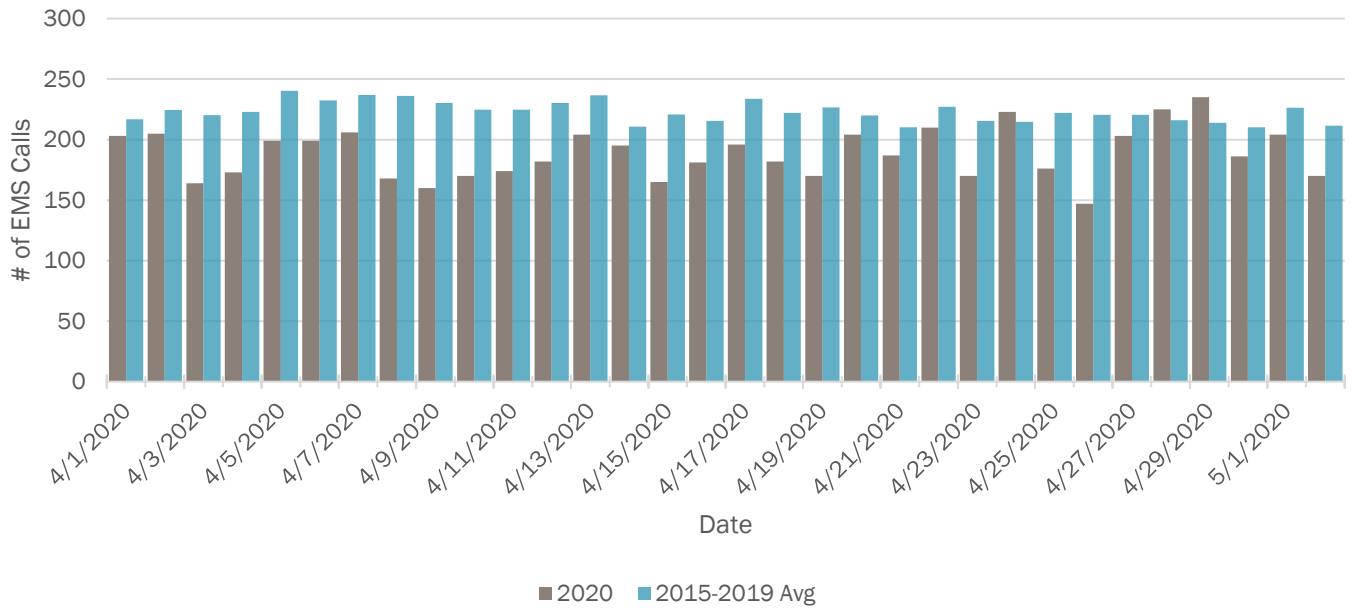
911 responses documented in SIREN were approximately 16.6% lower than at this time last year

The graphs below display call volume data for 2020 compared to the 2015-2019 historical average for Vermont ambulance agencies.

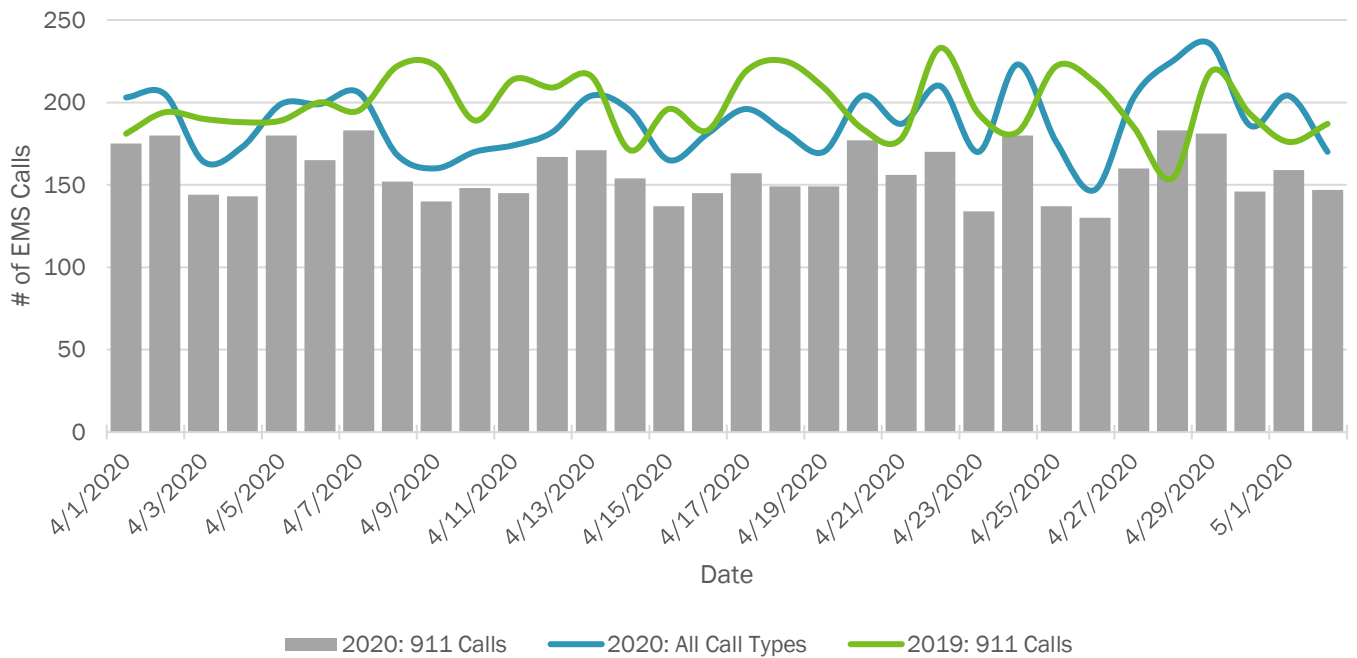


Vermont Emergency Medical Services Data

**Vermont Emergency Medical Services Prehospital Data from SIREN:
Total Call Volume Documented by Vermont Ambulance Agencies: All Response Types
April 1 - May 2, 2020 vs. 2015 - 2019 Historical Average**



**Vermont Emergency Medical Services Prehospital Data from SIREN:
911 and Total Call Volume Documented by Vermont Ambulance Agencies
April 1 - May 2, 2020 vs. April 1 - May 2, 2019**



*First response agency data were excluded from analysis. This is to account for the increase in the number of first response agencies reporting data into SIREN as time progresses compared to the number of agencies that reported data into SIREN historically.

**Numbers may be underreported due to potential lag in reporting.

Vermont Emergency Medical Services Data

Incident / Patient Disposition

The table below shows EMS response types by month for 2020 versus 2019 as documented in SIREN by ambulance agencies. The overall call volume for all response types were **8.3% lower** in March 2020 compared to March 2019, and **20.3% lower** in April 2020 compared to April 2019.

Response Type	January		February		March		April	
	2019	2020	2019	2020	2019	2020	2019	2020
911 Response	6,749	7,010	6,335	6,627	6,763	6,226	5,967	4,746
Interfacility/Medical Transport	1,008	1,108	953	1,084	1,039	973	952	763
Mutual Aid	205	227	191	210	178	139	141	108
Intercept	85	87	89	91	92	84	67	59
Standby	41	40	70	51	51	30	17	16
Public Assistance/Other	23	18	26	24	31	24	19	19
TOTAL	8,111	8,490	7,664	8,087	8,154	7,476	7,163	5,711

Disposable PPE Use by Vermont Ambulance and First Response Agencies

Measuring the PPE consumption rate, also referred to as the “burn rate”, helps the state and EMS agencies plan and optimize the use of PPE for response to COVID-19. The burn rate can help the state better understand the specific resource needs that exist and help the state advocate for PPE resources at the federal level. This information can be used to estimate how long the remaining supply of PPE will last, based on the average consumption rate, and can help make projections for future needs.

Documented Amount of Disposable PPE	Week	Cumulative
	April 26 - May 2, 2020	April 5 - May 2, 2020
Documented Amount of Disposable PPE	2,511	7,550
Face Mask	478	1,479
Face Shield	212	618
Gloves	714	2,147
Gown	244	661
N-95	415	1,274
Protective Eyewear	448	1,371

**Please note that the PPE numbers listed in the table above only represent what was documented in the PPE grid in SIREN by EMS providers. Therefore, it is possible that the numbers in the table above are an underrepresentation of the actual amount of PPE used.*

COVID-19 Supplemental Questions

	Week
	April 26 - May 2, 2020
Was the patient screened by EMS for COVID-19 symptoms?	
Yes	853
No	116
Blank	8
Has the patient had contact with someone being monitored for or diagnosed with COVID-19 within 14 days of symptom onset?	
Yes	19
No	668
Unknown	242
N/A	47
Did the patient have symptoms consistent with COVID-19 (fever, cough, shortness of breath)?	
Yes	150
No	765
N/A	62
If EMS suspects or knows that the patient has COVID-19, was the receiving facility notified?	
Yes	144
No	86
N/A	736

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