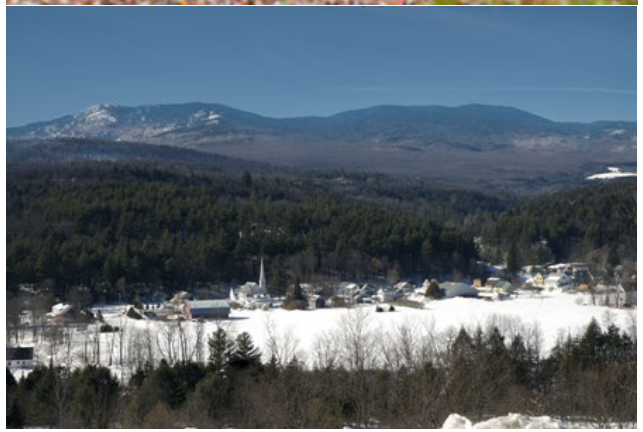

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Medication Assisted Treatment in Vermont Hubs and Spokes Quarterly Report

4th Quarter 2020

April 2021

VERMONT
DEPARTMENT OF HEALTH

Medication Assisted Treatment in Vermont: Hub & Spoke System of Care

Hub and Spoke is Vermont's system of Medication Assisted Treatment (MAT), supporting people in recovery from opioid use disorder. Federal regulations designate two settings where MAT can take place: Opioid Treatment Programs (OTPs) and Office Based Opioid Treatment (OBOT) settings. Regional Hubs (OTPs) offer daily support for patients with complex addictions. At Spokes (OBOTs), doctors, nurses, and counselors offer ongoing opioid use disorder treatment fully integrated with general healthcare and wellness services. This framework efficiently deploys opioid use disorder expertise and helps expand access to opioid use disorder treatment for Vermonters.

Medication Assisted Treatment in Vermont: Hub & Spoke System of Care

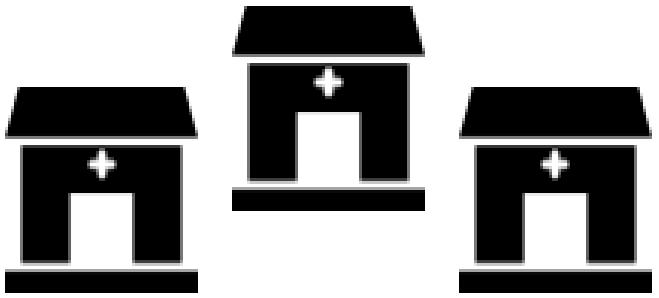
Hubs

High intensity MAT
Methadone, buprenorphine, naltrexone
Regional locations
All staff specialize in addictions treatment

Patients
Information

Consultation
Training

Spokes



Maintenance MAT
Buprenorphine, naltrexone
Community locations
Lead provider + nurse and LADC/MA counselor

Data Sources and limitations:

Spoke Data:

Spokes are office-based opioid treatment providers (OBOT) that prescribe medication to treat opioid use disorders. Prescriptions are captured in the Vermont Prescription Monitoring System (VPMS) which is a statewide electronic database of controlled substance prescriptions dispensed from Vermont-licensed pharmacies. It is a clinical tool to promote the appropriate use of controlled substances for legitimate medical purposes, while deterring the misuse, abuse, and diversion of controlled substances. It also serves as a surveillance tool that is used to monitor statewide trends in the prescribing, dispensing, and use of controlled substances.

Spoke data is based on receipt of at least one prescription for buprenorphine or a related medication used to treat opioid use disorder. VPMS contains information for all payers including Medicaid, Medicare, private insurance, etc.

A limitation of this data source is that some people may fill prescriptions at a pharmacy that is not licensed by the state of Vermont and so excluded from the calculations. This is more common in counties along the eastern border of Vermont. It also doesn't capture injectable naltrexone because it is not dispensed by pharmacies. This would also not include the use of injectable vivitrol used for treating OUD.

Hubs:

Hubs are opioid treatment providers (OTPs) that dispense methadone, buprenorphine, and naltrexone to clients to in a specialty treatment facility. The source of hub data is the Substance Abuse Treatment Information System (SATIS) which captures treatment data for providers with agreements with the Vermont Department of Health Division of Drug and Alcohol Abuse. It contains information for all payers.

SATIS uses a unique identifier for each client and does not contain full identifying information. Providers are often late in providing data which results in estimations and in changes to historic data.

Duplicative data:

Because different identifiers are used for hub data and spoke data, deduplication of annual data is estimated based on Medicaid enrollees who receive both hub and spoke services in a year. The quarterly data are not deduplicated.

Access to MAT has continued to increase during the COVID-19 pandemic as shown by Medicaid trends

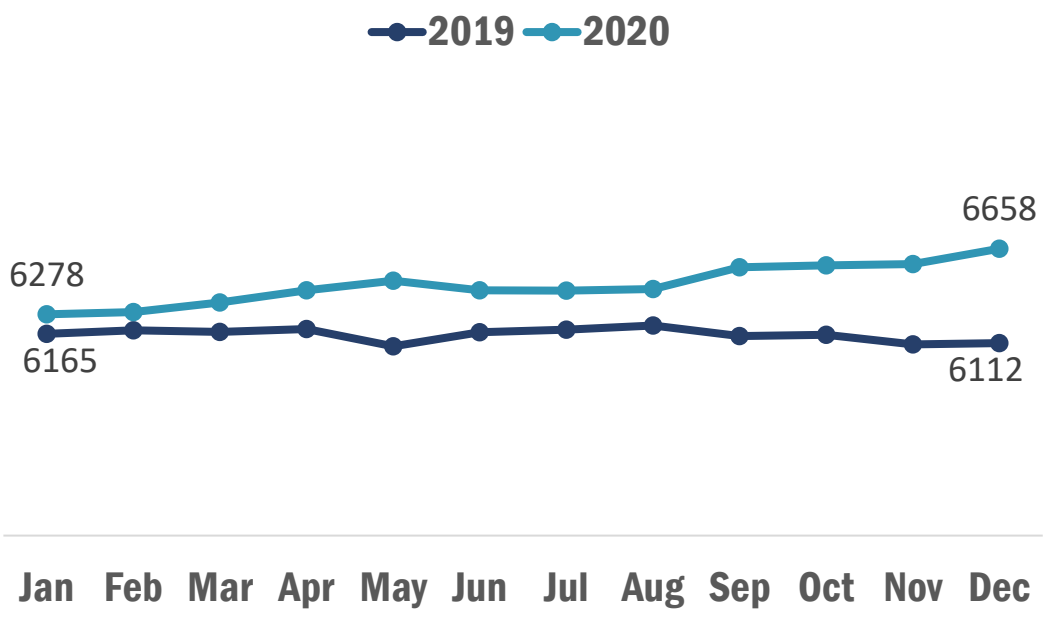
2020 data showing all payers are preliminary due to delays in receipt of both hub and spoke data from vendors.

This means:

- 2020 quarterly data are subject to change
- Inclusion of 2020 annual data will be delayed

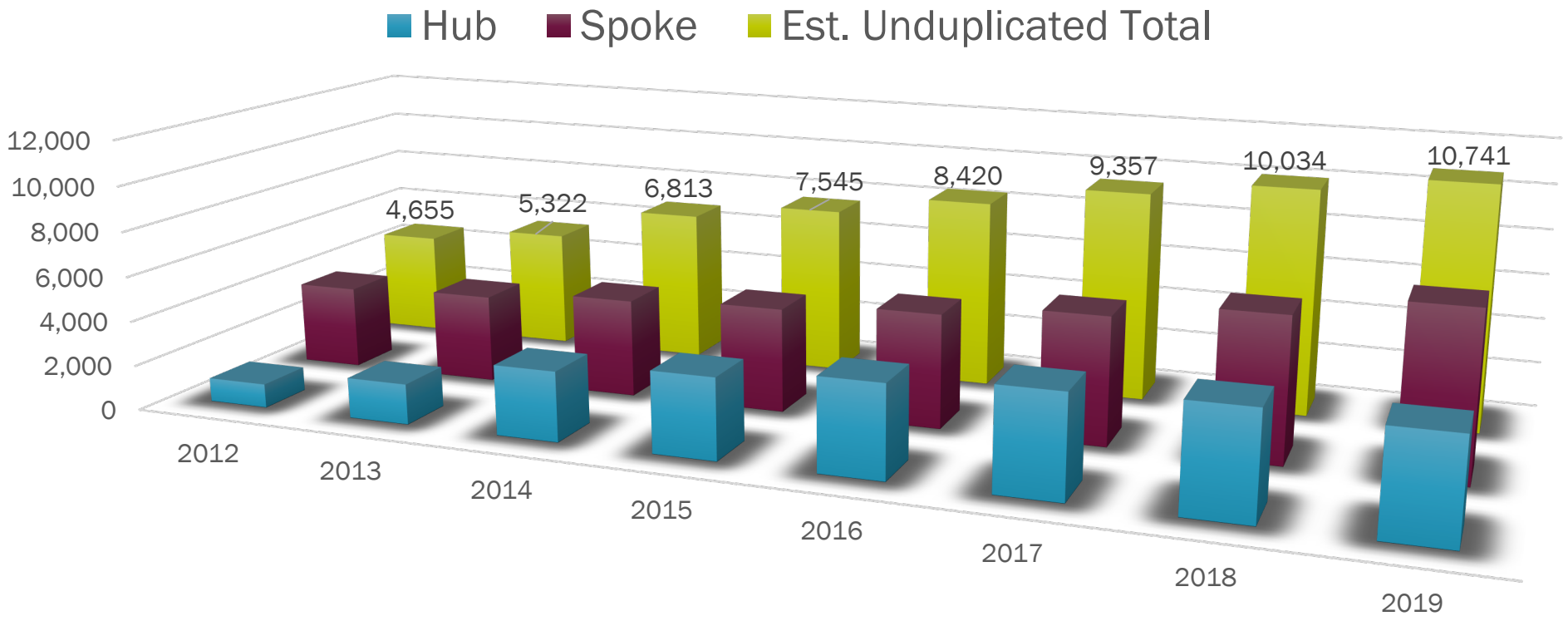
Slides will be updated when data are available.

More Medicaid recipients received MAT services for OUD in 2020 than in 2019



Source: Vermont Medicaid Claims, 2019/2020.

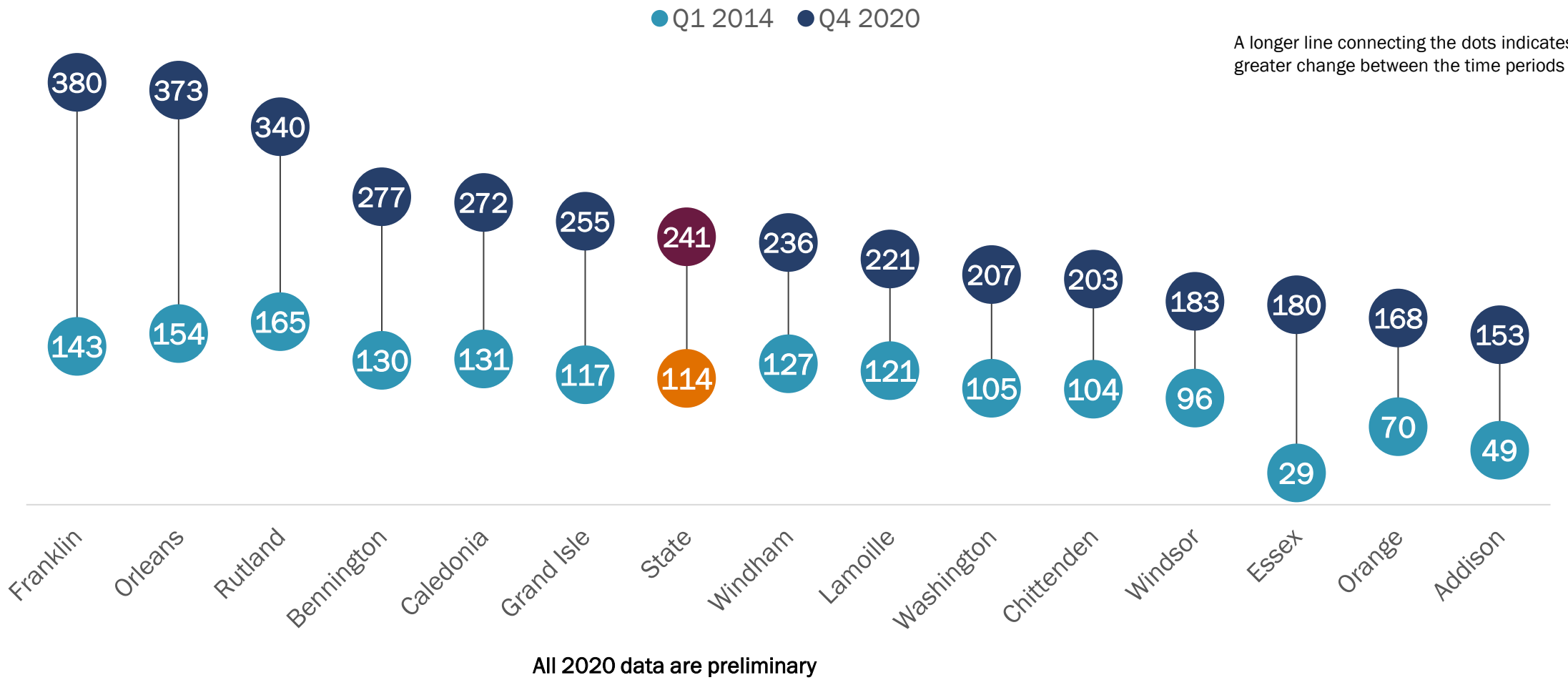
People Age 18-64 receiving medication assisted treatment for opioid use disorder by year



	2012	2013	2014	2015	2016	2017	2018	2019
Hub	1,061	1,795	3,090	3,571	4,070	4,471	4,616	4,420
Spoke	3,706	3,928	4,368	4,627	5,048	5,617	6,321	7,256
Est. Unduplicated Total	4,655	5,322	6,813	7,545	8,420	9,357	10,034	10,741

People may be transferred between hubs and spokes so some individuals may receive services in both locations during the same month which is why the unduplicated total is less than the combined hub and spoke amounts.

Franklin County had the greatest increase in rate of MAT per 10,000. All counties increased compared to 2014

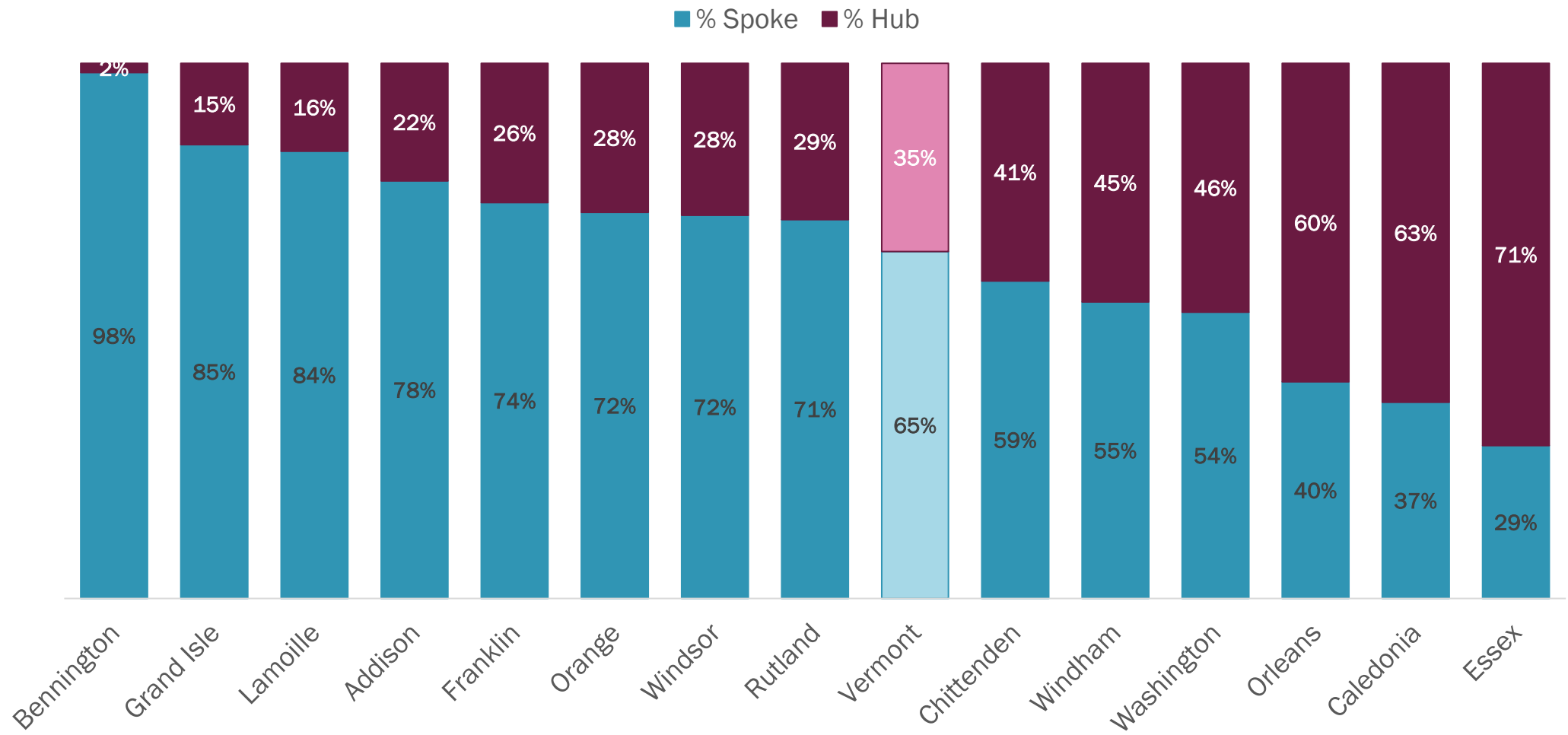


All 2020 data are preliminary

Data Sources: Vermont Prescription Monitoring System (Spoke) and Substance Abuse Treatment Information System (Hub)

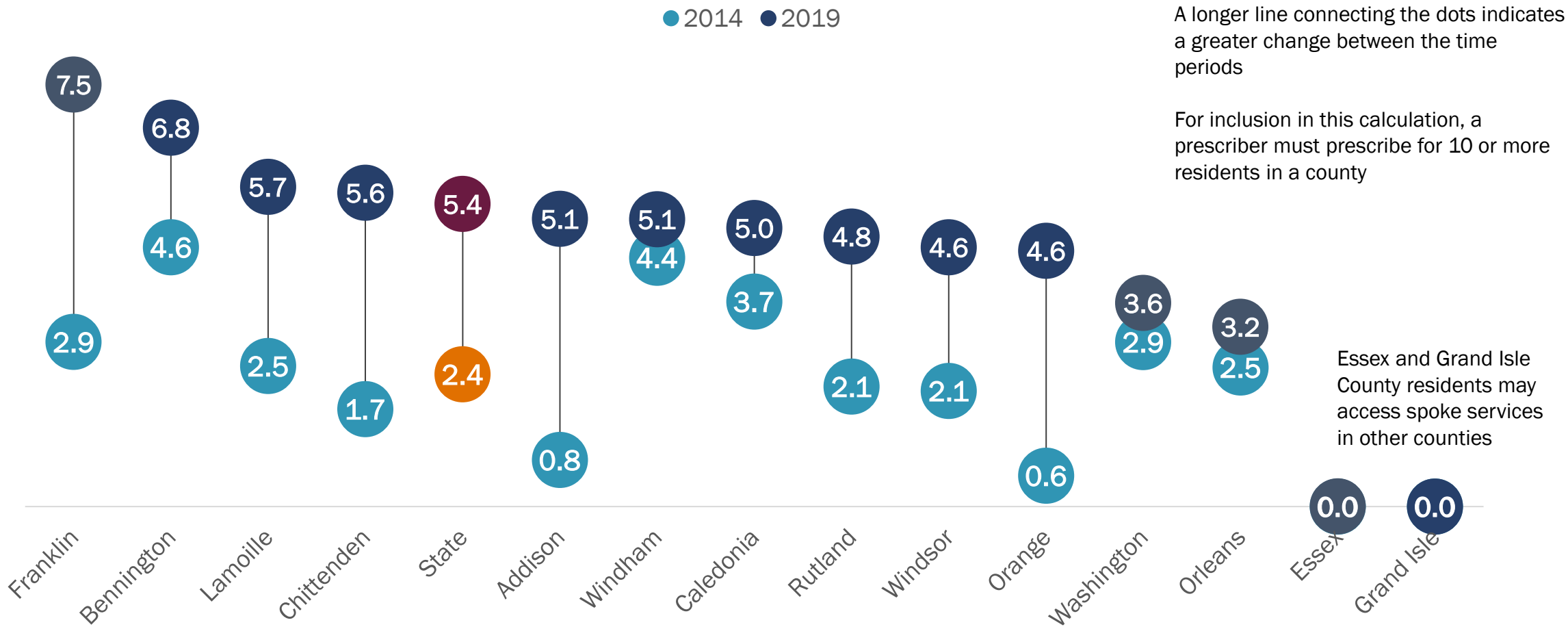
Percent of people age 18-64 receiving MAT for OUD in hubs vs spokes by county of residence for Q4 2020

Hub and Spoke service capacity varies by county due to differences in the types of MAT providers in that and nearby counties.



All 2020 data are preliminary

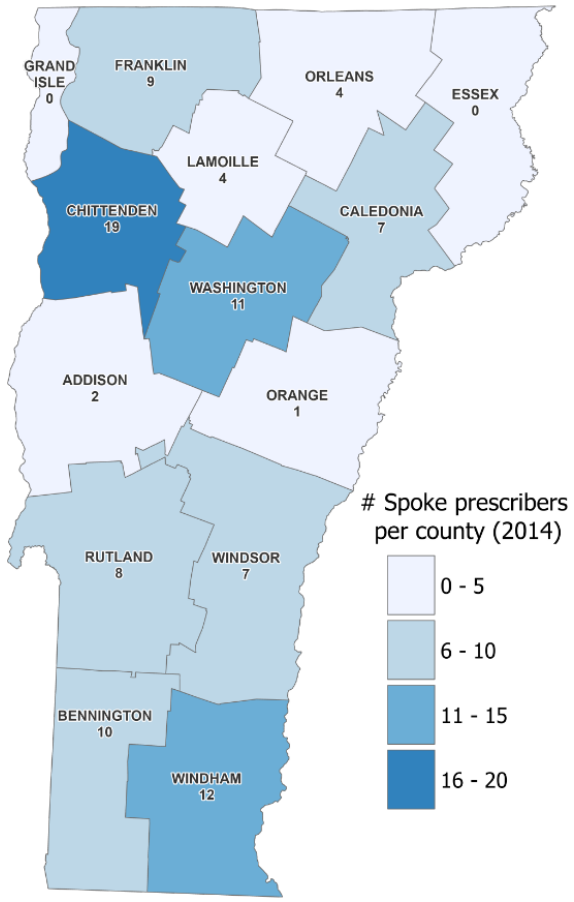
All counties besides Essex and Grand Isle increased the number of spoke prescribers per 10,000 people age 18-64 by County of residence



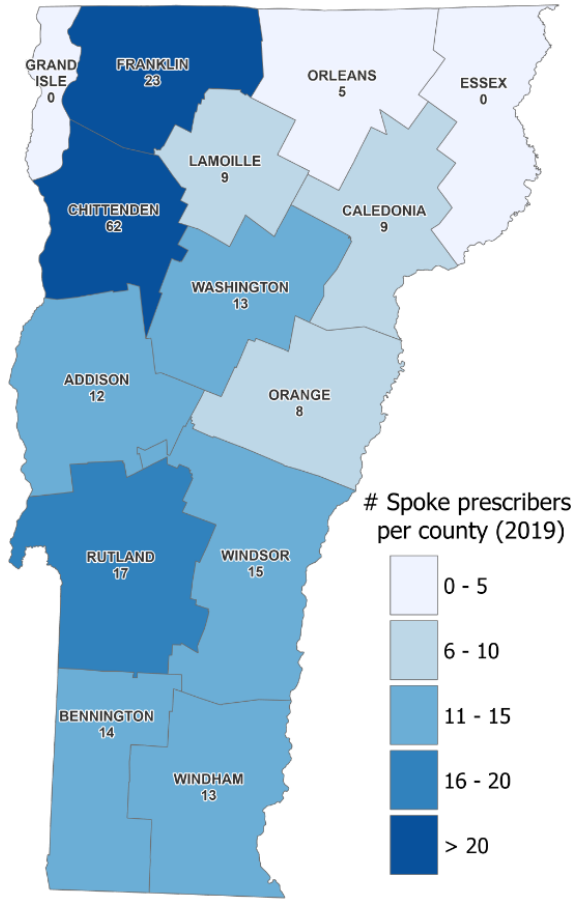
Data Sources: Vermont Prescription Monitoring System (Spoke)

The number of spoke prescribers per county increased significantly in some counties between 2014 and 2019

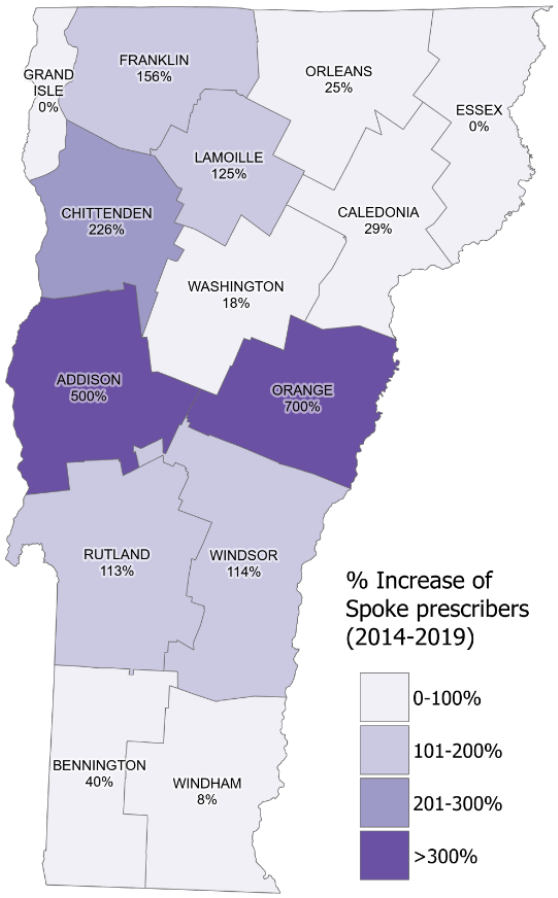
2014



2019

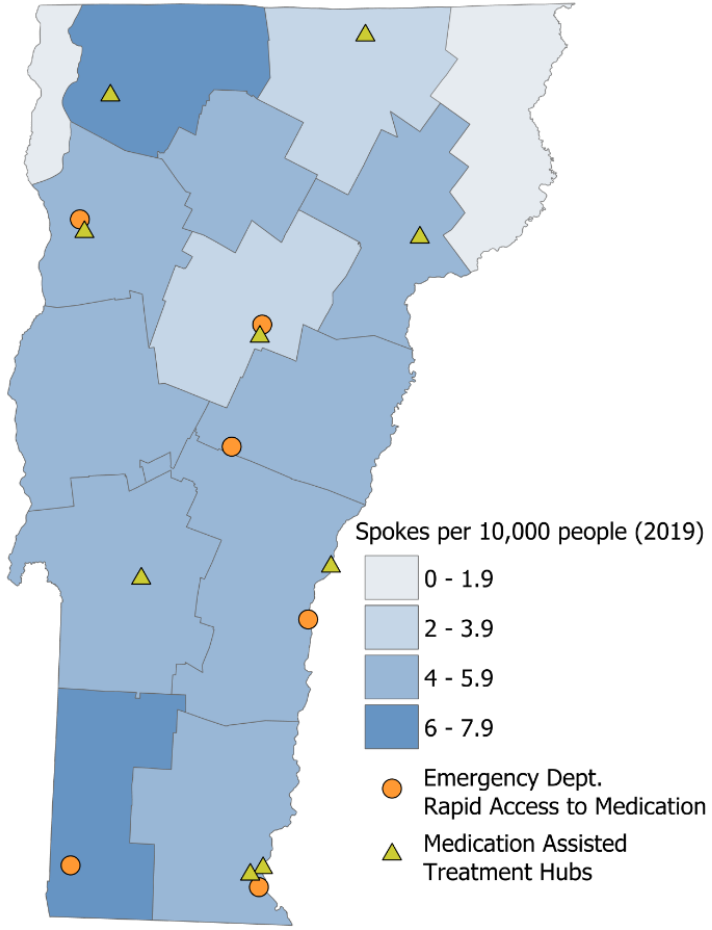


% Change 2014 to 2019

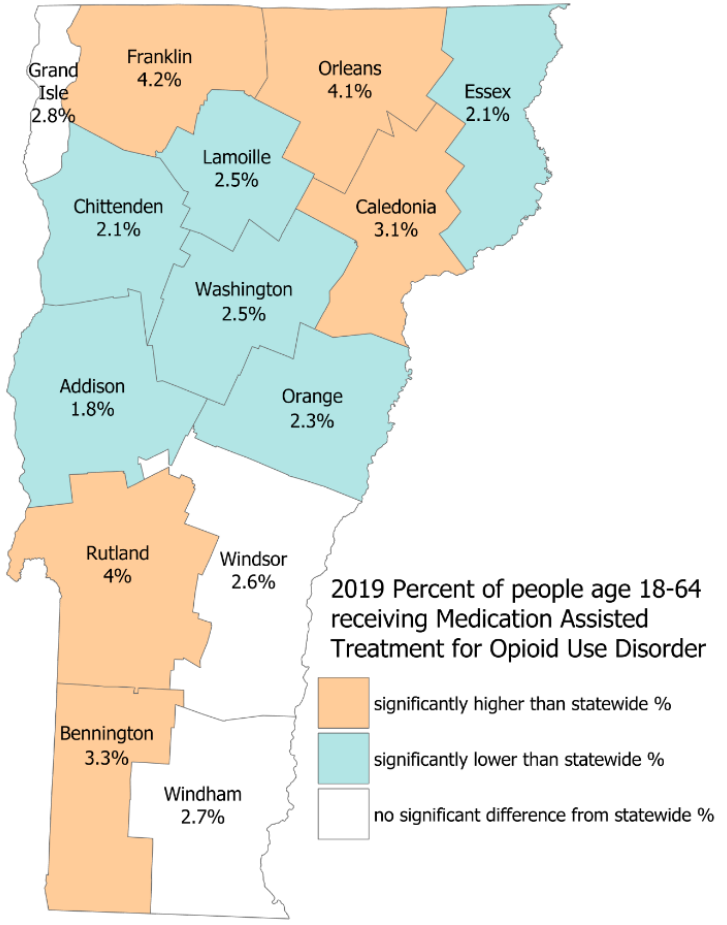


Access to care through hubs, spoke prescribers and Rapid Access to MAT in Emergency Departments varies by county

Availability of Services - 2019



% of Individuals Age 18-64 Receiving MAT for OUD in 2019



We are Seeking Feedback on Report

Please complete the survey on the usefulness of the **Quarter 4** Report. Feedback is encouraged and will inform future quarterly reports.

https://www.surveygizmo.com/s3/5948689/MAT-Quarterly-Report-Usefulness-Survey

Contact Information

- Data questions can be directed to Anne.VanDonsel@vermont.gov
- Programmatic questions can be directed Anthony.Folland@vermont.gov

Appendix 1– People age 18-64 treated in Hubs by County of Residence and Quarter

	2019				2020			
County	2019-Q1	2019-Q2	2019-Q3	2019-Q4	2020-Q1	2020-Q2	2020-Q3	2020-Q4
Addison	66	70	71	72	74	75	77	78
Bennington	30	26	20	22	18	16	13	10
Caledonia	295	308	323	323	328	315	311	304
Chittenden	889	882	888	891	895	899	903	907
Essex	41	47	44	41	42	42	43	45
Franklin	331	330	329	297	279	277	284	300
Grand Isle	21	26	30	16	17	17	16	17
Lamoille	60	62	64	54	55	54	54	57
Orange	94	99	93	89	88	77	80	81
Orleans	406	426	432	389	364	363	359	344
Rutland	369	368	357	348	336	332	338	345
Washington	373	375	375	351	346	340	344	345
Windham	262	249	200	239	246	250	255	260
Windsor	222	224	161	152	157	159	162	166
Vermont	**3,459**	**3,491**	**3,387**	**3,285**	**3,245**	**3,216**	**3,240**	**3,259**

All 2020 data are preliminary

Appendix 2– People age 18-64 treated in Spokes by County of Residence and Quarter

	2019				2020			
County	2019-Q1	2019-Q2	2019-Q3	2019-Q4	2020-Q1	2020-Q2	2020-Q3	2020-Q4
Addison	241	251	252	264	277	274	272	277
Bennington	471	507	537	541	561	553	550	561
Caledonia	142	142	141	144	159	166	170	176
Chittenden	1,061	1,129	1,167	1,215	1,264	1,274	1,298	1,323
Essex	13	12	14	12	13	11	15	18
Franklin	752	785	794	798	831	869	867	853
Grand Isle	70	77	75	81	82	86	90	95
Lamoille	254	264	261	269	282	286	288	290
Orange	133	163	175	187	200	174	204	210
Orleans	111	112	131	184	214	223	228	234
Rutland	704	738	758	785	801	825	817	837
Washington	370	382	393	396	414	416	413	397
Windham	275	291	286	291	289	296	299	323
Windsor	381	413	419	409	408	418	425	419
Vermont	**4,977**	**5,267**	**5,403**	**5,577**	**5,795**	**5,870**	**5,934**	**6,012**

All 2020 data are preliminary

Appendix 3– People age 18-64 treated in Hubs and Spokes by County of Residence and Quarter

	2019				2020			
County	2019-Q1	2019-Q2	2019-Q3	2019-Q4	2020-Q1	2020-Q2	2020-Q3	2020-Q4
Addison	307	321	323	336	351	349	349	355
Bennington	501	533	557	563	579	568	563	571
Caledonia	437	450	464	467	487	481	481	480
Chittenden	1,950	2,012	2,055	2,107	2,159	2,173	2,201	2,230
Essex	54	59	58	53	55	53	58	63
Franklin	1,083	1,115	1,124	1,095	1,110	1,146	1,152	1,153
Grand Isle	91	103	105	97	98	103	106	112
Lamoille	314	325	325	324	337	340	342	347
Orange	226	263	268	276	288	251	284	291
Orleans	517	538	563	573	579	586	587	578
Rutland	1,073	1,106	1,115	1,133	1,137	1,157	1,155	1,182
Washington	744	757	768	747	760	756	756	742
Windham	536	540	485	530	535	546	554	583
Windsor	603	637	580	561	565	577	587	585
Vermont	**8,435**	**8,758**	**8,790**	**8,862**	**9,039**	**9,087**	**9,174**	**9,271**

All 2020 data are preliminary

Appendix 4 – MAT for OUD per 10,000 people age 18-64 by county of residence and quarter

	2019				2020			
County	2019-Q1	2019-Q2	2019-Q3	2019-Q4	2020-Q1	2020-Q2	2020-Q3	2020-Q4
Addison	133	139	140	145	152	151	151	153
Bennington	243	259	271	274	281	276	274	277
Caledonia	248	255	263	265	276	273	273	272
Chittenden	178	183	187	192	197	198	201	203
Essex	156	170	166	153	159	153	167	180
Franklin	357	368	371	361	366	378	380	380
Grand Isle	208	235	239	221	225	236	242	255
Lamoille	200	207	207	206	215	216	218	221
Orange	131	152	155	160	166	145	164	168
Orleans	333	347	363	369	373	378	378	373
Rutland	309	318	321	326	327	333	332	340
Washington	207	211	214	208	212	211	211	207
Windham	217	219	197	215	217	221	224	236
Windsor	189	200	182	176	177	181	184	183
Vermont	219	228	228	230	235	236	238	241

All 2020 data are preliminary