						GIS Scores	;			
		Total Episodes Assessed	Very much improved	Much improved	Minimally improved		Minimally worse	Much worse	Very much worse	Not Assessed
			- 1 -	- 2 -	- 3 -	- 4 -	- 5 -	- 6 -	- 7 -	- 0 -
	University of Vermont Medical Center	438	279	70	66	21	0	0	0	0
			64%	16%	15%	5%	0%	0%	0%	0%
<u>9</u>	Veterans Administration	56	28	22	4	1	1	0	0	34
Hospital			50%	39%	7%	2%	2%	0%	0%	38%
Ř	Springfield Hospital	0	0	0	0	0	0	0	0	8
			NA	NA	NA	NA	NA	NA	NA	100%
	Central Vermont	0	0	0	0	0	0	0	0	17
	Medical Center		NA	NA	NA	NA	NA	NA	NA	100%
	Male	214	130	49	23	10	1	0	0	22
Gender	mare		61%	23%	11%	5%	0%	0%	0%	9%
en	Female	280	177	43	47	12	0	0	0	37
0			63%	15%	17%	4%	0%	0%	0%	12%
	0.47		0	0	~	0	0	0	0	0
	0-17	0	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA
	18-21	8	3	NA 4	1	0	0	0	0	0
	10-21	°	38%	4 50%	13%	0%	0%	0%	0%	0%
	22-34	27	15	4	5	2	1	070	0	4
	22-04	21	56%	15%	19%	7%	4%	0%	0%	13%
Ð	35-49	81	43	17	19	1	0	0	0	6
Age			53%	21%	23%	1%	0%	0%	0%	7%
	50-64	229	144	38	31	16	0	0	0	29
			63%	17%	14%	7%	0%	0%	0%	11%
	65+	149	102	29	14	3	0	0	0	20
			68%	19%	9%	2%	0%	0%	0%	12%
	Unknown	Ιo	0	0	0	0	0	0	0	0
	UTIKITOWIT		NA	NA	NA	NA	NA	NA	NA	NA
	Unilateral Only	372	249	66	39	17	0	0	0	43
	ormatoral ormy		67%	18%	10%	5%	0%	0%	0%	10%
	Bitemporal Only	82	44	19	16	1	1	0	0	6
ø			54%	23%	20%	1%	1%	0%	0%	7%
Treatment Type	Bilateral Only	0	0	0	0	0	0	0	0	4
Ĕ			NA	NA	NA	NA	NA	NA	NA	100%
me	Bifrontal Only	10	9	0	0	1	0	0	0	0
eat			90%	0%	0%	10%	0%	0%	0%	0%
l ⊢	LART Only	10	1	0	7	2	0	0	0	0
			10%	0%	70%	20%	0%	0%	0%	0%
	Other Only	0	0	0	0	0	0	0	0	0
	<b>.</b>		NA	NA	NA	NA	NA	NA	NA	NA
	Combination	20	4	7	8	1	0	0	0	6
		I	20%	35%	40%	5%	0%	0%	0%	23%
	Total	494	307	92	70	22	1	0	0	59
			62%	19%	14%	4%	0%	0%	0%	11%
				Improved		No Change	<b>a</b>	Worse		
				469		22	5	1		
				409 95%		4%		0.2%		
				5570		70		0.2/0		

## ANNUAL REPORT ON ELECTROCONVULSIVE THERAPY (ECT) IN VERMONT Number and Percentage of Post-Treatment Episode Global Improvement Scale (GIS) Scores July 1, 2018-June 30, 2019 (Fiscal Year 2019)

Based on reports from hospitals to the Vermont Department of Mental Health. The reports contain monthly individual-level summaries for each patient.

### ANNUAL REPORT ON ELECTROCONVULSIVE THERAPY (ECT) IN VERMONT July 1, 2018-June 30, 2019 (Fiscal Year 2019)

	1 01001110	90 01 1110			9 - 0 - 8 - 9				
Hospital	Total	0-17	18-21	22-34	35-49	50-64	65+	F	М
University of Vermont Medical Center	104	0	1	7	20	45	31	57	47
Burlington		0.0%	1.0%	6.7%	19.2%	43.3%	29.8%	54.8%	45.2%
Veterans Administration	45	0	0	7	8	21	9	8	37
White River Junction		0.0%	0.0%	15.6%	17.8%	46.7%	20.0%	17.8%	82.2%
Springfield Hospital	3	0	0	0	0	1	2	2	1
Springfield		0	0	0	0	33.3%	66.7%	66.7%	33.3%
Central Vermont Medical Center	1	0	0	0	0	0	1	1	0
Berlin		0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	0.0%
All four hospitals	153	0	1	14	28	67	43	68	85
All lour hospitals		0.0%	0.7%	9.2%	18.3%	43.8%	28.1%	44.4%	55.6%

#### Number and Percentage of Individuals Receiving ECT by Age and Sex

### Number and Percentage of ECT Treatments, by Location and Type

				croonitag			····, ·· <b>·</b> , -			-				
	Number of	Treatments			Inpat	tient					Outpati	ent		
Hospital	Total	Number of Tx per Person		Bitemporal	Bilateral	Bifrontal	LART	Other	Unilateral	Bitemporal	Bilateral	Bifrontal	LART	Other
University of Vermont Medical Center	1,719	16.5	289	30	0	0	2	0	1112	237	0	13	36	0
Burlington			16.8%	1.7%	0.0%	0.0%	0.1%	0.0%	64.7%	13.8%	0.0%	0.8%	2.1%	0.0%
Veterans Administration	397	8.8	226	91	0	0	0	0	56	24	0	0	0	0
White River Junction			56.9%	22.9%	0.0%	0.0%	0.0%	0.0%	14.1%	6.0%	0.0%	0.0%	0.0%	0.0%
Springfield Hospital	8	2.7	0	0	0	0	0	0	4	0	4	0	0	0
Springfield			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%
Central Vermont Medical Center	17	17.0	0	0	0	0	0	0	17	0	0	0	0	0
Berlin			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
All four boonitals	2,141	14.0	515	121	0	0	2	0	1189	261	4	13	36	0
All four hospitals			24.1%	5.7%	0.0%	0.0%	0.1%	0.0%	55.5%	12.2%	0.2%	0.6%	1.7%	0.0%

### Number and Percentage of Individuals Receiving Treatments by Location and Type of Treatment

Hospital	Total	Inpat. Only	Outpat. Only	Both	Unilateral Only	Bitemporal Only	Bilateral Only	Bifrontal Only	LART Only	Other Only	Combin- ation
University of Vermont Medical Center	104	11	66	27	77	7	0	2	1	0	17
Burlington		10.6%	63.5%	26.0%	74.0%	6.7%	0.0%	1.9%	1.0%	0.0%	16.3%
Veterans Administration	45	32	4	9	28	7	0	0	0	0	10
White River Junction		71.1%	8.9%	20.0%	62.2%	15.6%	0.0%	0.0%	0.0%	0.0%	22.2%
Springfield Hospital	3	0	3	0	2	0	1	0	0	0	0
Springfield		0.0%	100.0%	0.0%	66.7%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%
Central Vermont Medical Center	1	0	1	0	1	0	0	0	0	0	0
Berlin		0.0%	100.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
All four boon itals	153	43	74	36	108	14	1	2	1	0	27
All four hospitals		28.1%	48.4%	23.5%	70.6%	9.2%	0.7%	1.3%	0.7%	0.0%	17.6%

#### Individuals with Some Degree of Memory Impairment By Number of Treatments and Treatment Type

		,										
	Memory		Sum o	f Treatments	in Year			Treatm	ent Type Sta	atus		
Hospital	Impairment During FY	Total	1-12	13-29	30+	Unilateral Only	Bitemporal Only	Bilateral Only	Bifrontal Only	LART Only	Other Only	Combin- ation
	No	53	45	8	0	38	7	0	0	0	0	8
All four hospitals	Yes Unreported/ Missing	88 12	33	46	9	64	5	0	2	1	0	16

Based on reports from hospitals to the Vermont Department of Mental Health. The reports contain monthly individual-level summaries for each patient.

A 'No' means no memory impairment recorded after any episode of treatment no matter how many episodes occurred throughout the year for each individual who received ECT Treatment. 'Yes' means at least one recorded memory impairment no matter how many episodes of treatment might have occurred for each individual receiving treatment. For example, if one individual received 12 treatments and experienced memory impairment after one treatment but not after the other 11 treatments, this individual would still be recorded as having some degree of memory impairment for the year.

# ANNUAL REPORT ON ELECTROCONVULSIVE THERAPY (ECT) IN VERMONT July 1, 2018-June 30, 2019 (Fiscal Year 2019)

	Memory		Sum of	treatments	in Year			Trea	atment Type Sta	itus		
Hospital	Impairment During FY	Total	1-12	13-29	30+	Unilateral Only	Bitemporal Only	Bilateral Only	Bifrontal Only	LART Only	Other Only	Combin- ation
University of Vermont Medical Center	No	18	13	5	0	14	2	0	0	0	0	2
Burlington	Yes	82	30	43	9	62	4	0	2	1	0	13
Veterans Administration	No	35	32	3	0	24	5	0	0	0	0	6
White River Junction	Yes	6	3	3	0	2	1	0	0	0	0	3
Springfield Hospital	No	0	0	0	0	0	0	0	0	0	0	0
Springfield	Yes	0	0	0	0	0	0	0	0	0	0	0
Central Vermont Medical Center	No	0	0	0	0	0	0	0	0	0	0	0
Berlin	Yes	0	0	0	0	0	0	0	0	0	0	0
All four bospitals	No	53	45	8	0	38	7	0	0	0	0	8
All four hospitals	Yes	88	33	46	9	64	5	0	2	1	0	16

# Individuals with Some Degree of Memory Impairment By Number of Treatments and Treatment Type

Based on reports from hospitals to the Vermont Department of Mental Health. The reports contain monthly individual-level summaries for each patient.

A 'No' means no memory impairment recorded after any episode of treatment no matter how many episodes occurred throughout the year for each individual who received ECT Treatment. 'Yes' means at least one recorded memory impairment no matter how many episodes of treatment might have occurred for each individual receiving treatment. For example, if one individual received 12 treatments and experienced memory impairment after one treatment but not after the other 11 treatments, this individual would still be recorded as having some degree of memory impairment for the year.

Hospital	MMSE Baseline	MMSE Follow- Up			1	mprovement		
	Mean	Mean	Im	proved	Did No	ot Improve	No	Change
	wicali	wean	Number	Percentage	Number	Percentage	Number	Percentage
СЛМС	30.0	30.0	0	0.0%	0	0.0%	1	100.0%
SPRINGFIELD	21.3	24.0	1	50.0%	1	50.0%	0	0.0%
UVM-MC	25.7	26.2	21	21.0%	67	67.0%	12	12.0%
VA	22.6	14.0	1	100.0%	0	0.0%	0	0.0%
Total (n= 104)	24.9	23.6	5 <b>23 22.1% 68 65.4%</b>		13	12.5%		

Note: Baseline values are the first reported value for that patient in the reporting period and the "Follow-Up" value are the last reported value for that patient in the reporting period. An improvement constitutes a positive change in score between baseline and follow-up.

Hospital	MADRS Baseline	MADRS Follow- Up			MADRS	Improvement		
позрітаї	Mean	Mean	Im	proved	Did No	ot Improve	No	Change
	Iviean	Iviean	Number	Percentage	Number	Percentage	Number	Percentage
CVMC	34.0	32.0	1	100.0%	0	0.0%	0	0.0%
SPRINGFIELD	34.0	21.0	2	100.0%	0	0.0%	0	0.0%
UVM-MC	37.2	18.2	92	94.8%	4	4.1%	1	1.0%
VA	37.6	19.9	25	78.1%	6	18.8%	1	3.1%
Total (n= 132)	35.7	22.8	120	90.9%	10	7.6%	2	1.5%

Note: Baseline values are the first reported value for that patient in the reporting period and the "Follow-Up" value are the last reported value for that patient in the reporting period. An improvement constitutes a positive change in score between baseline and follow-up.

#### REPORT ON ELECTROCONVULSIVE THERAPY (ECT) IN VERMONT July 1, 2000-June 30, 2019 (Fiscal Years 2001 - 2019)

										Fis	cal Ye	ar (FY	)							
Hospital		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
University of	Total	33	43	55	66	79	79	91	87	81	84	92	76	88	98	76	69	59	84	104
Vermont Medical Center	Male	11	11	17	20	20	26	33	31	29	23	34	32	33	41	23	27	20	45	47
Burlington	Female	22	32	38	46	59	53	58	56	52	61	58	44	55	57	53	42	39	39	57
	Total	0	8	13	6	10	25	30	35	42	22	11	-	-	-	-	-	-	-	-
Brattleboro Retreat Brattleboro*	Male	0	1	2	1	2	7	6	15	13	12	5	-	-	-	-	-	-	-	-
	Female	0	7	11	5	8	18	24	20	29	10	6	-	-	-	-	-	-	-	-
Veterans	Total	13	16	16	23	18	11	0	0	0	-	-	-	14	51	45	44	1	49	45
Administration** White River	Male	12	16	14	21	17	9	0	0	0	-	-	-	12	42	42	41	1	46	37
Junction	Female	1	0	2	2	1	2	0	0	0	-	-	-	2	9	3	3	0	3	8
Contractical	Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Springfield Hospital	Male	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Springfield	Female	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Central Vermont	Total	-	-	-	-	-	-	-	6	20	25	17	18	7	2	3	1	1	1	1
Medical Center***	Male	-	-	-	-	-	-	-	2	8	13	6	10	1	0	0	0	0	0	0
Berlin	Female	-	-	-	-	-	-	-	4	12	12	11	8	6	2	3	1	1	1	1
	Total	46	67	84	95	107	115	121	128	143	131	120	94	109	151	124	114	61	134	153
Total	Male	23	28	33	42	39	42	39	48	50	48	45	42	46	83	65	68	21	91	85
	Female	23	39	51	53	68	73	82	80	93	83	75	52	63	68	59	46	40	43	68

#### Number of Individuals Receiving ECT by Gender

### Number of Treatments and Treatments Per Person

										Fis	cal Ye	ar (FY	)							
Hospital		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
University of	Treatments	500	607	783	1,164	1,179	1,080	1,238	1,281	1,121	1,118	1,226	1,017	1,184	1,510	924	1,183	920	1,619	1,719
Vermont Medical Center Burlington	Treatments / Person	15.2	14.1	14.2	17.6	14.9	13.7	13.6	14.7	13.8	13.3	13.3	13.4	13.5	15.4	12.2	17.1	15.6	19.3	16.5
	Treatments	244	465	538	419	260	465	350	407	510	209	43	-	-	-	-	-	-	-	-
Brattleboro Retreat Brattleboro*	Treatments / Person		58.1	41.4	69.8	26.0	18.6	11.7	11.6	12.1	9.5	3.9	-	-	-	-	-	-	-	-
Veterans	Treatments	88	148	178	302	155	75	0	0	0	0	0	0	46	555	423	440	4	425	397
Administration** White River Junction	Treatments / Person	6.8	9.3	11.1	13.1	8.6	6.8	-	-	-	-	-	-	3.3	10.9	9.4	10.0	4.0	8.7	8.8
Springfield	Treatments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Hospital Springfield	Treatments/ Person	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7
Central Vermont	Treatments	-	-	-	-	-	-	-	31	214	266	178	124	71	5	18	5	7	7	17
Medical Center*** Berlin	Treatments / Person	-	-	-	-	-	-	-	5.2	10.7	10.6	10.5	6.9	10.1	2.5	6.0	5.0	7.0	7.0	17.0
	Treatments	832	1,220	1,499	1,885	1,594	1,620	1,588	1,719	1,845	1,593	1,447	1,141	1,301	2,070	1,365	1,628	931	2,051	2,141
Total	Treatments / Person	18.1	18.2	17.8	19.8	14.9	14.1	13.1	13.4	12.9	12.2	12.1	12.1	11.9	13.7	11.0	14.3	15.3	15.3	14.0

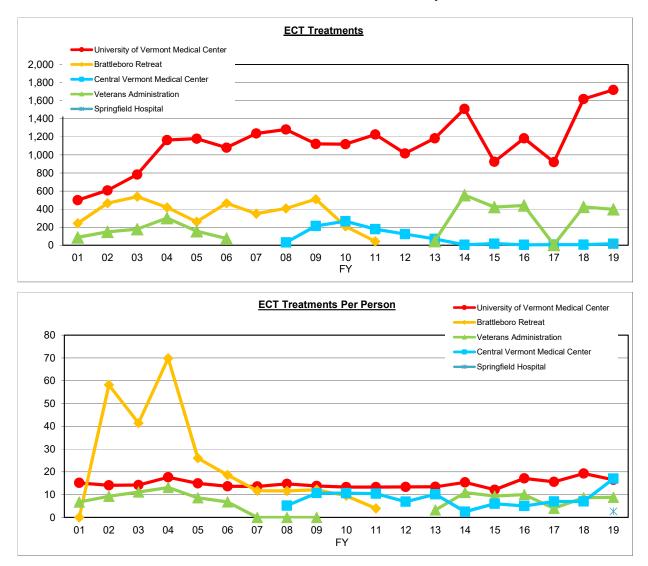
Based on reports from hospitals to the Vermont Department of Mental Health. The reports contain monthly individual-level summaries for each patient.

\*Brattleboro Retreat discontinued ECT January 2010. FY2011 data represents a partial year of information.

\*\*The Veterans Administration stopped providing data after FY2009 and restarted submitting data in June 2013.

\*\*\*Central Vermont Medical Center did not start providing ECT until April 2008. FY2008 data represents a partial year of information.

# REPORT ON ELECTROCONVULSIVE THERAPY (ECT) IN VERMONT July 1, 2000-June 30, 2019 (Fiscal Years 2001 - 2019)



# Number of Treatments and Treatments per Person

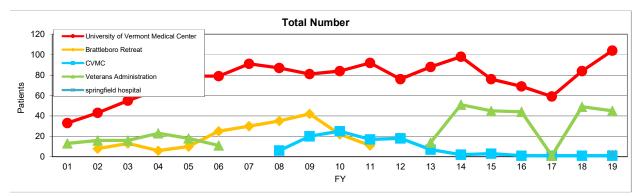
Based on reports from hospitals to the Vermont Department of Mental Health. The reports contain monthly individual-level summaries for each patient.

\*Brattleboro Retreat discontinued ECT January 2010. FY2011 data represents a partial year of information.

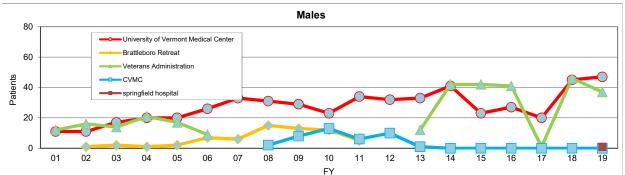
\*\*The Veterans Administration stopped providing data after FY2009 and restarted submitting data in June 2013.

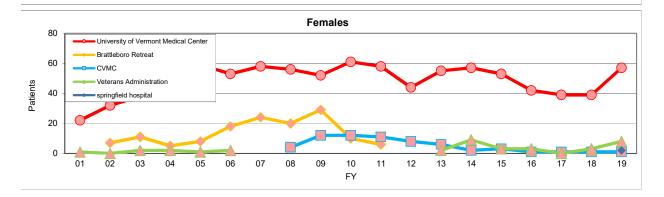
\*\*\*Central Vermont Medical Center did not start providing ECT until April 2008. FY2008 data represents a partial year of information.

# REPORT ON ELECTROCONVULSIVE THERAPY (ECT) IN VERMONT July 1, 2000-June 30, 2019 (Fiscal Years 2001 - 2019)



Number of Individuals Receiving ECT Total and by Gender





Based on reports from hospitals to the Vermont Department of Mental Health. The reports contain monthly individual-level summaries for each patient.

\*Brattleboro Retreat discontinued ECT January 2010. FY2011 data represents a partial year of information.

\*\*The Veterans Administration stopped providing data after FY2009 and restarted submitting data in June 2013.

\*\*\*Central Vermont Medical Center did not start providing ECT until April 2008. FY2008 data represents a partial year of information.

Hospital	MMSE Baseline	MMSE Follow- Up			1	mprovement		
	Mean	Mean	Im	proved	Did No	ot Improve	No	Change
	wicali	wean	Number	Percentage	Number	Percentage	Number	Percentage
СЛМС	30.0	30.0	0	0.0%	0	0.0%	1	100.0%
SPRINGFIELD	21.3	24.0	1	50.0%	1	50.0%	0	0.0%
UVM-MC	25.7	26.2	21	21.0%	67	67.0%	12	12.0%
VA	22.6	14.0	1	100.0%	0	0.0%	0	0.0%
Total (n= 104)	24.9	23.6	5 <b>23 22.1% 68 65.4%</b>		13	12.5%		

Note: Baseline values are the first reported value for that patient in the reporting period and the "Follow-Up" value are the last reported value for that patient in the reporting period. An improvement constitutes a positive change in score between baseline and follow-up.

Hospital	MADRS Baseline	MADRS Follow- Up			MADRS	Improvement		
позрітаї	Mean	Mean	Im	proved	Did No	ot Improve	No	Change
	Iviean	Iviean	Number	Percentage	Number	Percentage	Number	Percentage
CVMC	34.0	32.0	1	100.0%	0	0.0%	0	0.0%
SPRINGFIELD	34.0	21.0	2	100.0%	0	0.0%	0	0.0%
UVM-MC	37.2	18.2	92	94.8%	4	4.1%	1	1.0%
VA	37.6	19.9	25	78.1%	6	18.8%	1	3.1%
Total (n= 132)	35.7	22.8	120	90.9%	10	7.6%	2	1.5%

Note: Baseline values are the first reported value for that patient in the reporting period and the "Follow-Up" value are the last reported value for that patient in the reporting period. An improvement constitutes a positive change in score between baseline and follow-up.