

ANNUAL REPORT ON ELECTROCONVULSIVE THERAPY (ECT) IN VERMONT
Number and Percentage of Post-Treatment Episode Global Improvement Scale (GIS) Scores
July 1, 2019-June 30, 2020 (Fiscal Year 2020)

	Total Episodes Assessed	GIS Scores							Not Assessed	
		Very much improved	Much improved	Minimally improved	No change	Minimally worse	Much worse	Very much worse		
		- 1 -	- 2 -	- 3 -	- 4 -	- 5 -	- 6 -	- 7 -		- 0 -
Hospital	University of Vermont Medical Center	385	244	94	45	2	0	0	0	5
			63%	24%	12%	1%	0%	0%	0%	1%
	Veterans Administration	29	15	12	2	0	0	0	0	26
			52%	41%	7%	0%	0%	0%	0%	47%
	Central Vermont Medical Center	0	0	0	0	0	0	0	0	43
			NA	NA	NA	NA	NA	NA	NA	100%
Gender	Male	156	95	45	15	1	0	0	0	33
			61%	29%	10%	1%	0%	0%	0%	17%
	Female	258	164	61	32	1	0	0	0	41
			64%	24%	12%	0%	0%	0%	0%	14%
Age	0-17	0	0	0	0	0	0	0	0	0
			NA	NA	NA	NA	NA	NA	NA	NA
	18-21	6	3	3	0	0	0	0	0	0
			50%	50%	0%	0%	0%	0%	0%	0%
	22-34	32	12	12	7	1	0	0	0	2
			38%	38%	22%	3%	0%	0%	0%	6%
	35-49	87	52	27	7	1	0	0	0	9
			60%	31%	8%	1%	0%	0%	0%	9%
	50-64	156	92	40	24	0	0	0	0	39
		59%	26%	15%	0%	0%	0%	0%	20%	
	65+	133	100	24	9	0	0	0	0	24
			75%	18%	7%	0%	0%	0%	0%	15%
	Unknown	0	0	0	0	0	0	0	0	0
			NA	NA	NA	NA	NA	NA	NA	NA
	Unilateral Only	323	215	79	27	2	0	0	0	58
			67%	24%	8%	1%	0%	0%	0%	15%
	Bitemporal Only	65	40	17	8	0	0	0	0	13
			62%	26%	12%	0%	0%	0%	0%	17%
	Bilateral Only	0	0	0	0	0	0	0	0	1
			NA	NA	NA	NA	NA	NA	NA	100%
	Bifrontal Only	5	1	1	3	0	0	0	0	0
			20%	20%	60%	0%	0%	0%	0%	0%
	LART Only	12	0	3	9	0	0	0	0	0
			0%	25%	75%	0%	0%	0%	0%	0%
	Other Only	0	0	0	0	0	0	0	0	0
			NA	NA	NA	NA	NA	NA	NA	NA
	Combination	9	3	6	0	0	0	0	0	2
			33%	67%	0%	0%	0%	0%	0%	18%
	Total	414	259	106	47	2	0	0	0	74
			63%	26%	11%	0%	0%	0%	0%	15%
			Improved			No Change		Worse		
			412			2		0		
			100%			0%		0.0%		

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

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Number and Percentage of Individuals Receiving ECT by Age and Sex

Hospital	Total	0-17	18-21	22-34	35-49	50-64	65+	F	M
University of Vermont Medical Center Burlington	90	0 0.0%	2 2.2%	9 10.0%	20 22.2%	30 33.3%	29 32.2%	57 63.3%	33 36.7%
Veterans Administration White River Junction	27	0 0.0%	0 0.0%	4 14.8%	6 22.2%	9 33.3%	8 29.6%	3 11.1%	24 88.9%
Central Vermont Medical Center Berlin	6	0 0.0%	0 0.0%	0 0.0%	0 0.0%	4 66.7%	2 33.3%	4 66.7%	2 33.3%
All hospitals	123	0 0.0%	2 1.6%	13 10.6%	26 21.1%	43 35.0%	39 31.7%	64 52.0%	59 48.0%

Number and Percentage of ECT Treatments, by Location and Type

Hospital	Number of Treatments		Inpatient						Outpatient					
	Total	Number of Tx per Person	Unilateral	Bitemporal	Bilateral	Bifrontal	LART	Other	Unilateral	Bitemporal	Bilateral	Bifrontal	LART	Other
University of Vermont Medical Center Burlington	1,354	15.0	201 14.8%	114 8.4%	0 0.0%	5 0.4%	0 0.0%	0 0.0%	872 64.4%	94 6.9%	0 0.0%	19 1.4%	49 3.6%	0 0.0%
Veterans Administration White River Junction	249	9.2	120 48.2%	92 36.9%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	21 8.4%	16 6.4%	0 0.0%	0 0.0%	0 0.0%	0 0.0%
Central Vermont Medical Center Berlin	43	7.2	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	42 97.7%	0 0.0%	1 2.3%	0 0.0%	0 0.0%	0 0.0%
All hospitals	1,646	13.4	321 19.5%	206 12.5%	0 0.0%	5 0.3%	0 0.0%	0 0.0%	935 56.8%	110 6.7%	1 0.1%	19 1.2%	49 3.0%	0 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	Combination
University of Vermont Medical Center Burlington	90	6 6.7%	64 71.1%	20 22.2%	69 76.7%	10 11.1%	0 0.0%	1 1.1%	1 1.1%	0 0.0%	9 10.0%
Veterans Administration White River Junction	27	21 77.8%	4 14.8%	2 7.4%	14 51.9%	7 25.9%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	6 22.2%
Central Vermont Medical Center Berlin	6	0 0.0%	6 100.0%	0 0.0%	5 83.3%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 16.7%
All hospitals	123	27 22.0%	74 60.2%	22 17.9%	88 71.5%	17 13.8%	0 0.0%	1 0.8%	1 0.8%	0 0.0%	16 13.0%

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

Hospital	Memory Impairment During FY	Total	Sum of Treatments in Year			Treatment Type Status						
			1-12	13-29	30+	Unilateral Only	Bitemporal Only	Bilateral Only	Bifrontal Only	LART Only	Other Only	Combination
All hospitals	No	34	29	4	1	27	5	0	0	0	0	2
	Yes	78	41	28	9	53	11	0	0	1	0	13
	Unreported/ Missing	11										

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.

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

Hospital	Memory Impairment During FY	Total	Sum of treatments in Year			Treatment Type Status						
			1-12	13-29	30+	Unilateral Only	Bitemporal Only	Bilateral Only	Bifrontal Only	LART Only	Other Only	Combination
University of Vermont Medical Center Burlington	No	16	13	2	1	14	2	0	0	0	0	0
	Yes	70	36	25	9	53	7	0	0	1	0	9
Veterans Administration White River Junction	No	18	16	2	0	13	3	0	0	0	0	2
	Yes	8	5	3	0	0	4	0	0	0	0	4
Central Vermont Medical Center Berlin	No	0	0	0	0	0	0	0	0	0	0	0
	Yes	0	0	0	0	0	0	0	0	0	0	0
All hospitals	No	34	29	4	1	27	5	0	0	0	0	2
	Yes	78	41	28	9	53	11	0	0	1	0	13

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

Note: Central Vermont Medical Center provided no data on Memory Impairment during FY20.

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 Mean	MMSE Follow- Up Mean	MMSE Improvement					
			Improved		Declined		No Change	
			Number	Percentage	Number	Percentage	Number	Percentage
CVMC	29.3	29.5	2	33.3%	1	16.7%	3	50.0%
UVM-MC	24.9	24.2	12	14.1%	66	77.6%	7	8.2%
VA	24.0	25.0	1	100.0%	0	0.0%	0	0.0%
Total (n= 92)	26.1	26.2	15	16.3%	67	72.8%	10	10.9%

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 Mean	MADRS Follow- Up Mean	MADRS Improvement					
			Improved		Declined		No Change	
			Number	Percentage	Number	Percentage	Number	Percentage
CVMC	29.5	12.3	6	100.0%	0	0.0%	0	0.0%
UVM-MC	37.6	18.5	78	98.7%	1	1.3%	0	0.0%
VA	37.3	17.4	22	91.7%	1	4.2%	1	4.2%
Total (n= 109)	34.8	16.1	106	97.2%	2	1.8%	1	0.9%

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, 2020 (Fiscal Years 2001 - 2020)**

Number of Individuals Receiving ECT by Gender

Hospital		Fiscal Year (FY)																			
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
University of Vermont Medical Center Burlington	Total	33	43	55	66	79	79	91	87	81	84	92	76	88	98	76	69	59	84	104	90
	Male	11	11	17	20	20	26	33	31	29	23	34	32	33	41	23	27	20	45	47	33
	Female	22	32	38	46	59	53	58	56	52	61	58	44	55	57	53	42	39	39	57	57
Brattleboro Retreat Brattleboro*	Total	0	8	13	6	10	25	30	35	42	22	11	-	-	-	-	-	-	-	-	-
	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 Administration** White River Junction	Total	13	16	16	23	18	11	-	-	-	-	-	-	14	51	45	44	1	49	45	27
	Male	12	16	14	21	17	9	-	-	-	-	-	-	12	42	42	41	1	46	37	24
	Female	1	0	2	2	1	2	-	-	-	-	-	-	2	9	3	3	0	3	8	3
Springfield Hospital Springfield	Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-
	Male	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
	Female	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
Central Vermont Medical Center*** Berlin	Total	-	-	-	-	-	-	6	20	25	17	18	7	2	3	1	1	1	1	1	6
	Male	-	-	-	-	-	-	2	8	13	6	10	1	0	0	0	0	0	0	0	2
	Female	-	-	-	-	-	-	4	12	12	11	8	6	2	3	1	1	1	1	1	4
Total	Total	46	67	84	95	107	115	121	128	143	131	120	94	109	151	124	114	61	134	153	123
	Male	23	28	33	42	39	42	39	48	50	48	45	42	46	83	65	68	21	91	85	59
	Female	23	39	51	53	68	73	82	80	93	83	75	52	63	68	59	46	40	43	68	64

Number of Treatments and Treatments Per Person

Hospital		Fiscal Year (FY)																			
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
University of Vermont Medical Center Burlington	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	1,354
	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	15.0
Brattleboro Retreat Brattleboro*	Treatments	244	465	538	419	260	465	350	407	510	209	43	-	-	-	-	-	-	-	-	-
	Treatments / Person	--	58.1	41.4	69.8	26.0	18.6	11.7	11.6	12.1	9.5	3.9	-	-	-	-	-	-	-	-	-
Veterans Administration** White River Junction	Treatments	88	148	178	302	155	75	0	0	0	0	0	0	46	555	423	440	4	425	397	249
	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	9.2
Springfield Hospital Springfield	Treatments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-
	Treatments / Person	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	-
Central Vermont Medical Center*** Berlin	Treatments	-	-	-	-	-	-	31	214	266	178	124	71	5	18	5	7	7	17	43	-
	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	7.2	-
Total	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	1,646
	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	13.4

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

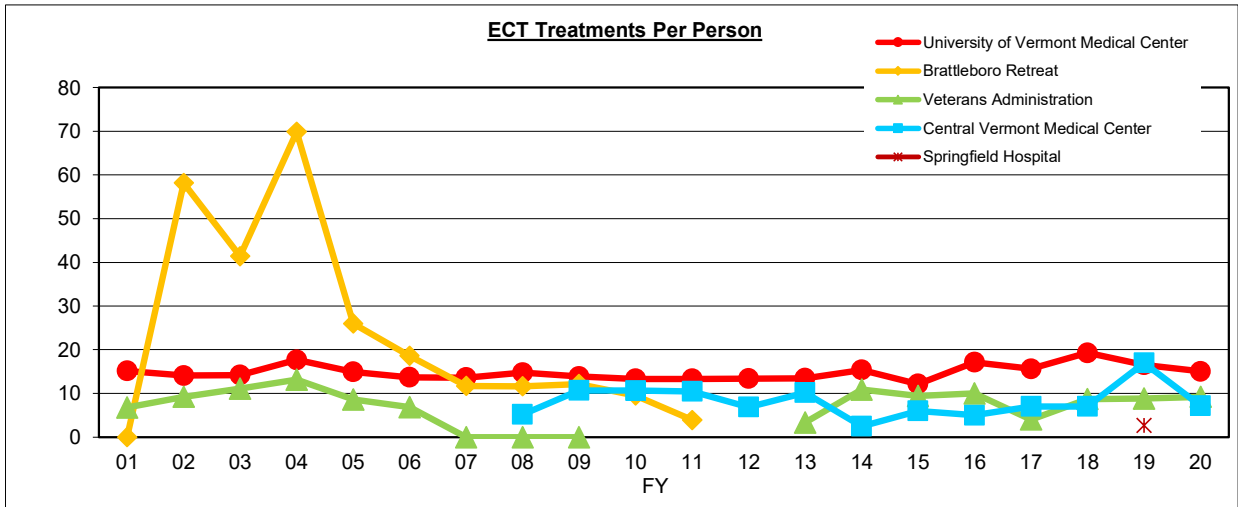
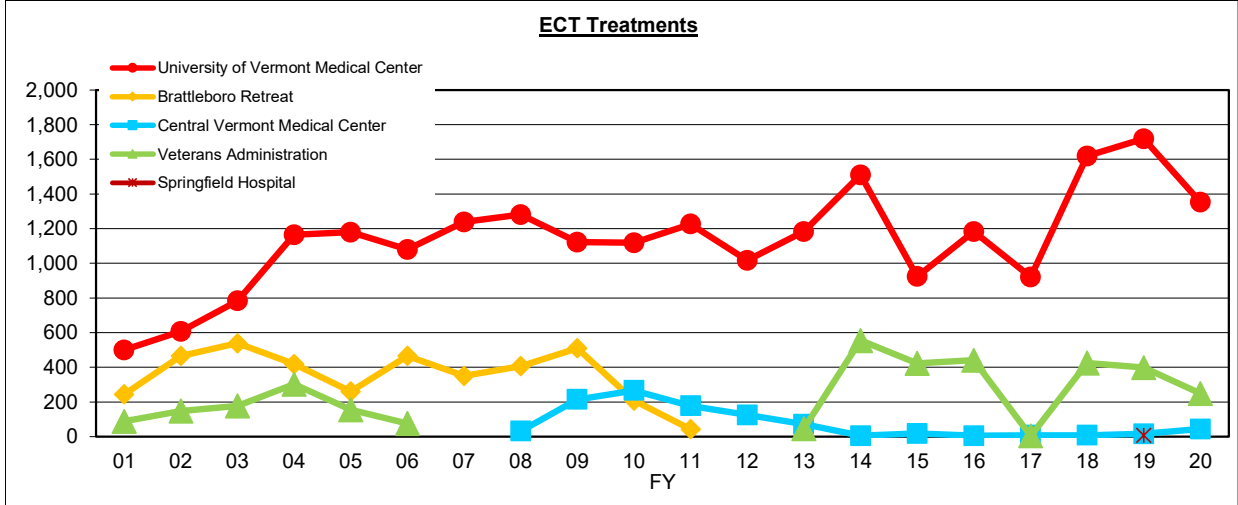
**The Veterans Administration stopped providing data after FY2009 and restarted submitting data in June 2013.

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

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Number of Treatments and Treatments per Person



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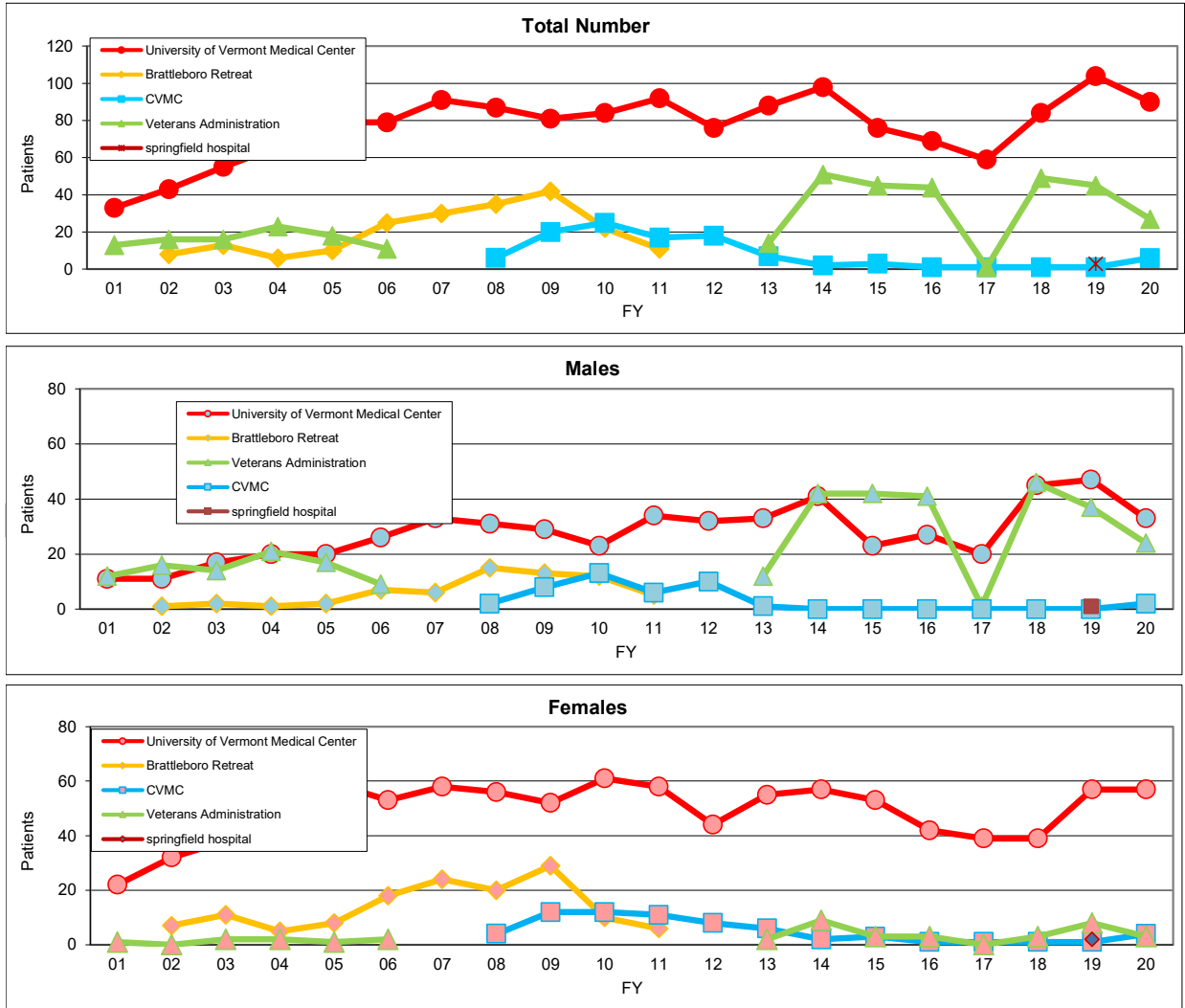
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Number of Individuals Receiving ECT Total and by Gender



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