ANNUAL REPORT ON ELECTROCONVULSIVE THERAPY (ECT) IN VERMONT Number and Percentage of Post-Treatment Episode Global Improvement Scale (GIS) Scores July 1, 2017-June 30, 2018 (Fiscal Year 2018)

						GIS Scores	S			
		Total Episodes Assessed	Very much improved	Much improved	Minimally improved	No change	Minimally worse	Much worse	Very much worse	Not Assessed
			-1-	- 2 -	- 3 -	- 4 -	- 5 -	- 6 -	-7-	- 0 -
	University of Vermont Medical Center	406	260	59	60	27	0	0	0	1
_	Medical Center		64%	15%	15%	7%	0%	0%	0%	0%
Hospita	Veterans Administration	108	0	108	0	0	0	0	0	0
Hos			0%	100%	0%	0%	0%	0%	0%	0%
_	Central Vermont	0	0	0	0	0	0	0	0	7
	Medical Center	1	NA	NA	NA	NA	NA	NA	NA	100%
	Male	272	112	133	18	9	0	0	0	1
Gender			41%	49%	7%	3%	0%	0%	0%	0%
Sen	Female	242	148	34	42	18	0	0	0	7
Ū		l	61%	14%	17%	7%	0%	0%	0%	3%
	0-17	2	0	0	1	1	0	0	0	0
			0%	0%	50%	50%	0%	0%	0%	0%
	18-21	0	0	0	0	0	0	0	0	0
			NA	NA	NA	NA	NA	NA	NA	NA
	22-34	44	16	12	8	8	0	0	0	0
			36%	27%	18%	18%	0%	0%	0%	0%
Age	35-49	96	45	39	7	5	0	0	0	0
⋖			47%	41%	7%	5%	0%	0%	0%	0%
	50-64	212	117	59	24	12	0	0	0	8
	CF.	100	55%	28%	11%	6%	0%	0%	0%	4%
	65+	160	82 51%	57 36%	20 13%	1 1%	0 0%	0 0%	0 0%	0 0%
	Unknown	l o	0	0	0	0	0	0	0	0
			NA	NA	NA	NA	NA	NA	NA	NA
	Unilateral Only	332	184	112	23	13	0	0	0	8
	•		55%	34%	7%	4%	0%	0%	0%	2%
	Bitemporal Only	117	58	36	20	3	0	0	0	0
e			50%	31%	17%	3%	0%	0%	0%	0%
Σ	Bilateral Only	0	0	0	0	0	0	0	0	0
ent			NA	NA	NA	NA	NA	NA	NA	NA
Ĕ	Bifrontal Only	23	15	5	2	1	0	0	0	0
Treatment Type			65%	22%	9%	4%	0%	0%	0%	0%
_	LART Only	12	0	0	5	7	0	0	0	0
	Other Oak	_	0%	0%	42%	58%	0%	0%	0%	0%
	Other Only	0	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA	0 NA
	Combination	30	3	14	10	3	0	0	0	0
	Combination		10%	47%	33%	10%	0%	0%	0%	0%
	Total	514	260	167	60	27	0	0	0	8
			51%	32%	12%	5%	0%	0%	0%	2%
				Improved		No Chang	е	Worse		
				487		27		0		
				95%		5%		0.0%		

ANNUAL REPORT ON ELECTROCONVULSIVE THERAPY (ECT) IN VERMONT July 1, 2017-June 30, 2018 (Fiscal Year 2018)

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	М
University of Vermont Medical Center	84	1	0	11	19	32	21	39	45
Burlington		1.2%	0.0%	13.1%	22.6%	38.1%	25.0%	46.4%	53.6%
Veterans Administration	51	0	0	4	12	24	11	3	48
White River Junction		0.0%	0.0%	7.8%	23.5%	47.1%	21.6%	5.9%	94.1%
Central Vermont Medical Center	1	0	0	0	0	1	0	1	0
Berlin		0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%	0.0%
All above the sociation	136	1	0	15	31	57	32	43	93
All three hospitals		0.7%	0.0%	11.0%	22.8%	41.9%	23.5%	31.6%	68.4%

Number and Percentage of ECT Treatments, by Location and Type

p		Itali	bei ana	rercentag	C 01 E01	Treatmen	ito, by Et	oution t	ina rypc					
	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	1,619	19.3	269	107	0	8	0	0	912	229	0	46	48	0
Burlington			16.6%	6.6%	0.0%	0.5%	0.0%	0.0%	56.3%	14.1%	0.0%	2.8%	3.0%	0.0%
Veterans Administration	425	8.3	201	120	0	5	0	0	75	24	0	0	0	0
White River Junction			47.3%	28.2%	0.0%	1.2%	0.0%	0.0%	17.6%	5.6%	0.0%	0.0%	0.0%	0.0%
Central Vermont Medical Center	7	7.0	0	0	0	0	0	0	7	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 three hospitals	2,051	15.1	470	227	0	13	0	0	994	253	0	46	48	0
All tillee hospitals			22.9%	11.1%	0.0%	0.6%	0.0%	0.0%	48.5%	12.3%	0.0%	2.2%	2.3%	0.0%

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

		<u> </u>									
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	84	13	54	17	50	9	0	4	1	0	20
Burlington		15.5%	64.3%	20.2%	59.5%	10.7%	0.0%	4.8%	1.2%	0.0%	23.8%
Veterans Administration	51	32	7	12	32	12	0	1	0	0	6
White River Junction		62.7%	13.7%	23.5%	62.7%	23.5%	0.0%	2.0%	0.0%	0.0%	11.8%
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 three hospitals	136	45	62	29	83	21	0	5	1	0	26
All tillee hospitals		33.1%	45.6%	21.3%	61.0%	15.4%	0.0%	3.7%	0.7%	0.0%	19.1%

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

			,									
	Memory		Sum o	f Treatments	in Year			Treatm	nent Type Sta	itus		
Hospital	Impairment During FY	Total	1-12	13-29	30+	Unilateral Only	Bitemporal Only	•		LART Only	Other Only	Combin- ation
	No	62	50	11	1	41	13	0	2	0	0	6
All three hospitals	Yes	70	34	24	12	40	7	0	3	1	0	19
	Unreported/ Missing	4										

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, 2017-June 30, 2018 (Fiscal Year 2018)

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

	Memory		Sum of	treatments	in Year			Trea	atment 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
University of Vermont Medical Center	No	11	6	4	1	9	1	0	1	0	0	0
Burlington	Yes	70	34	24	12	40	7	0	3	1	0	19
Veterans Administration	No	51	44	7	0	32	12	0	1	0	0	6
White River Junction	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 three hospitals	No	62	50	11	1	41	13	0	2	0	0	6
All tillee Hospitals	Yes	70	34	24	12	40	7	0	3	1	0	19

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			MMSE	mprovement							
поѕрітаі	Mean	Mean	lm	oroved	Did No	ot Improve	No	Change					
	Ivicali	iviean	Number	Percentage	Number	Percentage	Number	Percentage					
CVMC	30.0	30.0	0 0.0% 0 0.0% 1 1										
UVM-MC	26.4	26.2	14	18.4%	58	76.3%	4	5.3%					
VA	18.9	0.0	0 0.0% 0 0.0% 0 0.0%										
Total (n= 77)	25.1	18.7	14 18.2% 58 75.3% 5 6.5%										

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						
поѕрітаі	Mean	Mean	lmı	oroved	Did No	ot Improve	No Change					
	iviean	iviean	Number	Percentage	Number	Percentage	Number	Percentage				
CVMC	34.0	14.0	1	100.0%	0	0.0%	0	0.0%				
UVM-MC	36.8	19.9	71	95.9%	3	4.1%	0	0.0%				
VA	36.0	25.8	32 62.7% 7 13.7% 12 23.5%									
Total (n= 126)	35.6	19.9	104 82.5% 10 7.9% 12 9.5%									

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, 2018 (Fiscal Years 2001 - 2018)

Number of Individuals Receiving ECT by Gender

								• • • • • • • • • • • • • • • • • • • •			Year (-, -						
Hospital		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
University of	Total	33	43	55	66	79	79	91	87	81	84	92	76	88	98	76	69	59	84
Vermont Medical Center	Male	11	11	17	20	20	26	33	31	29	23	34	32	33	41	23	27	20	45
Burlington	Female	22	32	38	46	59	53	58	56	52	61	58	44	55	57	53	42	39	39
	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	48	51
Administration** White River	Male	12	16	14	21	17	9	0	0	0	-	-	-	12	42	42	41	44	48
Junction	Female	1	0	2	2	1	2	0	0	0	-	-	-	2	9	3	3	4	3
Central Vermont	Total	-	-	-	-	-	-	-	6	20	25	17	18	7	2	3	1	2	1
Medical Center***	Male	-	-	-	-	-	-	-	2	8	13	6	10	1	0	0	0	1	0
Berlin	Female	-	-	-	-	-	-	-	4	12	12	11	8	6	2	3	1	1	1
	Total	46	67	84	95	107	115	121	128	143	131	120	94	109	151	124	114	109	136
Total	Male	23	28	33	42	39	42	39	48	50	48	45	42	46	83	65	68	65	93
	Female	23	39	51	53	68	73	82	80	93	83	75	52	63	68	59	46	44	43

Number of Treatments and Treatments Per Person

									F	iscal	Year (l	FY)							
Hospital		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
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
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
	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				46	555	423	440	443	425
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	9.2	8.3
Central Vermont	Treatments	-	-	-	-	-	-	-	31	214	266	178	124	71	5	18	5	58	7
Medical Center*** Berlin	Treatments / Person	-	-	-	-	-	-	-	5.2	10.7	10.6	10.5	6.9	10.1	2.5	6.0	5.0	29.0	7.0
	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	1,421	2,051
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	13.0	15.1

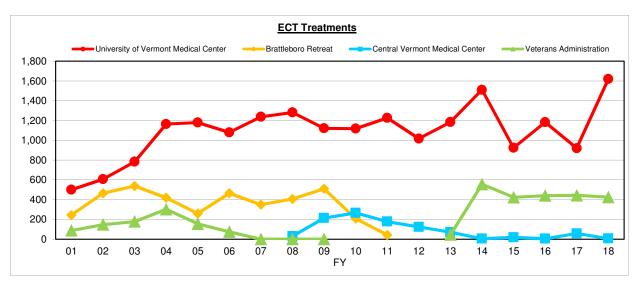
^{*}Brattleboro Retreat discontinued ECT January 2010. FY2011 data represents a partial year of information.

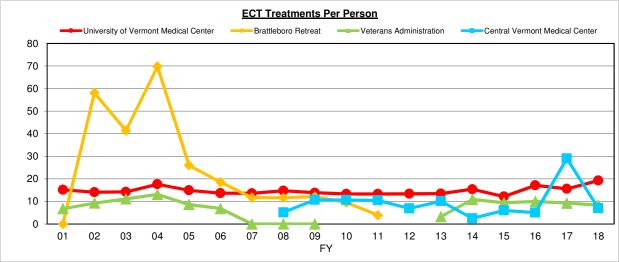
^{**}The Veterans Administration stopped providing data after FY2009 and restarted submitting data in June 2013.

^{***}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, 2018 (Fiscal Years 2001 - 2018)

Number of Treatments and Treatments per Person





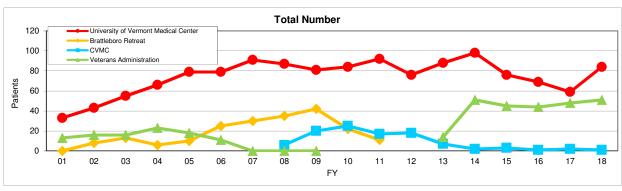
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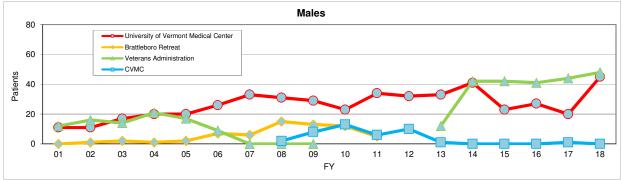
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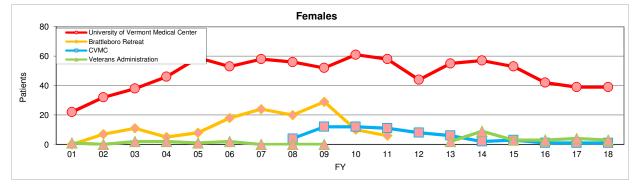
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REPORT ON ELECTROCONVULSIVE THERAPY (ECT) IN VERMONT July 1, 2000-June 30, 2018 (Fiscal Years 2001 - 2018)

Number of Individuals Receiving ECT Total and by Gender







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

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