

ANNUAL REPORT ON ELECTROCONVULSIVE THERAPY (ECT) IN VERMONT
Number and Percentage of Post-Treatment Episode Global Improvement Scale (GIS) Scores
July 1, 2020-June 30, 2021 (Fiscal Year 2021)

	Total Episodes Assessed	GIS Scores								
		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 -	
Hospital	University of Vermont Medical Center	285	162	78	43	2	0	0	0	0
			57%	27%	15%	1%	0%	0%	0%	0%
	Veterans Administration	88	6	78	3	1	0	0	0	2
			7%	89%	3%	1%	0%	0%	0%	2%
	Central Vermont Medical Center	0	0	0	0	0	0	0	0	110
			NA	NA	NA	NA	NA	NA	NA	100%
Gender	Male	160	53	86	20	1	0	0	0	38
			33%	54%	13%	1%	0%	0%	0%	19%
	Female	213	115	70	26	2	0	0	0	74
			54%	33%	12%	1%	0%	0%	0%	26%
Age	0-17	0	0	0	0	0	0	0	0	0
			NA	NA	NA	NA	NA	NA	NA	NA
	18-21	3	0	0	3	0	0	0	0	0
			0%	0%	100%	0%	0%	0%	0%	0%
	22-34	42	16	15	10	1	0	0	0	0
			38%	36%	24%	2%	0%	0%	0%	0%
	35-49	76	34	34	8	0	0	0	0	36
			45%	45%	11%	0%	0%	0%	0%	32%
	50-64	158	70	68	18	2	0	0	0	52
		44%	43%	11%	1%	0%	0%	0%	25%	
65+	94	48	39	7	0	0	0	0	24	
			51%	41%	7%	0%	0%	0%	0%	20%
	Unknown	0	0	0	0	0	0	0	0	0
			NA	NA	NA	NA	NA	NA	NA	NA
Treatment Type	Unilateral Only	285	149	96	38	2	0	0	0	111
			52%	34%	13%	1%	0%	0%	0%	28%
	Bitemporal Only	62	13	45	3	1	0	0	0	0
			21%	73%	5%	2%	0%	0%	0%	0%
	Bilateral Only	0	0	0	0	0	0	0	0	0
			NA	NA	NA	NA	NA	NA	NA	NA
	Bifrontal Only	5	5	0	0	0	0	0	0	0
			100%	0%	0%	0%	0%	0%	0%	0%
	LART Only	8	1	5	2	0	0	0	0	0
			13%	63%	25%	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	13	0	10	3	0	0	0	0	1
		0%	77%	23%	0%	0%	0%	0%	7%	
Total	373	168	156	46	3	0	0	0	112	
		45%	42%	12%	1%	0%	0%	0%	23%	
			Improved			No Change		Worse		
			370			3		0		
			99%			1%		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	65	0 0.0%	1 1.5%	11 16.9%	11 16.9%	26 40.0%	16 24.6%	40 61.5%	25 38.5%
Veterans Administration White River Junction	36	0 0.0%	0 0.0%	3 8.3%	6 16.7%	15 41.7%	12 33.3%	4 11.1%	32 88.9%
Central Vermont Medical Center Berlin	9	0 0.0%	0 0.0%	0 0.0%	3 33.3%	4 44.4%	2 22.2%	6 66.7%	3 33.3%
All hospitals	110	0 0.0%	1 0.9%	14 12.7%	20 18.2%	45 40.9%	30 27.3%	50 45.5%	60 54.5%

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	1,024	15.8	187 18.3%	15 1.5%	0 0.0%	11 1.1%	9 0.9%	0 0.0%	711 69.4%	53 5.2%	0 0.0%	14 1.4%	24 2.3%	0 0.0%
Veterans Administration White River Junction	332	9.2	119 35.8%	120 36.1%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	42 12.7%	51 15.4%	0 0.0%	0 0.0%	0 0.0%	0 0.0%
Central Vermont Medical Center Berlin	110	12.2	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	110 100.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%
All hospitals	1,466	13.3	306 20.9%	135 9.2%	0 0.0%	11 0.8%	9 0.6%	0 0.0%	863 58.9%	104 7.1%	0 0.0%	14 1.0%	24 1.6%	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	65	7 10.8%	43 66.2%	15 23.1%	52 80.0%	2 3.1%	0 0.0%	1 1.5%	1 1.5%	0 0.0%	9 13.8%
Veterans Administration White River Junction	36	19 52.8%	12 33.3%	5 13.9%	13 36.1%	12 33.3%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	11 30.6%
Central Vermont Medical Center Berlin	9	0 0.0%	9 100.0%	0 0.0%	9 100.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%
All hospitals	110	26 23.6%	64 58.2%	20 18.2%	74 67.3%	14 12.7%	0 0.0%	1 0.9%	1 0.9%	0 0.0%	20 18.2%

**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	40	31	8	1	20	10	0	0	0	0	10
	Yes	58	27	28	3	42	4	0	1	1	0	10
	Unreported/ Missing	12										

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	9	3	5	1	8	0	0	0	0	0	1
	Yes	53	24	27	2	41	2	0	1	1	0	8
Veterans Administration White River Junction	No	31	28	3	0	12	10	0	0	0	0	9
	Yes	5	3	1	1	1	2	0	0	0	0	2
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	40	31	8	1	20	10	0	0	0	0	10
	Yes	58	27	28	3	42	4	0	1	1	0	10

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 FY21.

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	29.7	3	33.3%	1	11.1%	5	55.6%
UVM-MC	22.7	21.4	8	13.8%	40	69.0%	10	17.2%
VA	17.7	0.0	0	0.0%	0	0.0%	0	0.0%
Total (n= 67)	23.2	17.0	11	16.4%	41	61.2%	15	22.4%

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	27.3	11.2	8	88.9%	1	11.1%	0	0.0%
UVM-MC	36.6	18.5	52	89.7%	5	8.6%	1	1.7%
VA	33.1	20.0	29	80.6%	4	11.1%	3	8.3%
Total (n= 103)	32.3	16.6	89	86.4%	10	9.7%	4	3.9%

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, 2021 (Fiscal Years 2001 - 2021)**

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	2021
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	65
	Male	11	11	17	20	20	26	33	31	29	23	34	32	33	41	23	27	20	45	47	33	25
	Female	22	32	38	46	59	53	58	56	52	61	58	44	55	57	53	42	39	39	57	57	40
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	36	
	Male	12	16	14	21	17	9	-	-	-	-	-	12	42	42	41	1	46	37	24	32	
	Female	1	0	2	2	1	2	-	-	-	-	-	2	9	3	3	0	3	8	3	4	
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	6	9	
	Male	-	-	-	-	-	-	2	8	13	6	10	1	0	0	0	0	0	0	2	3	
	Female	-	-	-	-	-	-	4	12	12	11	8	6	2	3	1	1	1	1	4	6	
Total	Total	46	67	84	95	107	115	121	128	143	131	120	94	109	151	124	114	61	134	153	123	110
	Male	23	28	33	42	39	42	39	48	50	48	45	42	46	83	65	68	21	91	85	59	60
	Female	23	39	51	53	68	73	82	80	93	83	75	52	63	68	59	46	40	43	68	64	50

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	2021
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	1,024
	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	15.8
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	46	555	423	441	4	425	397	249	332	
	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	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	110	
	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	12.2	
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	1,629	931	2,051	2,141	1,646	1,466
	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	13.3

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

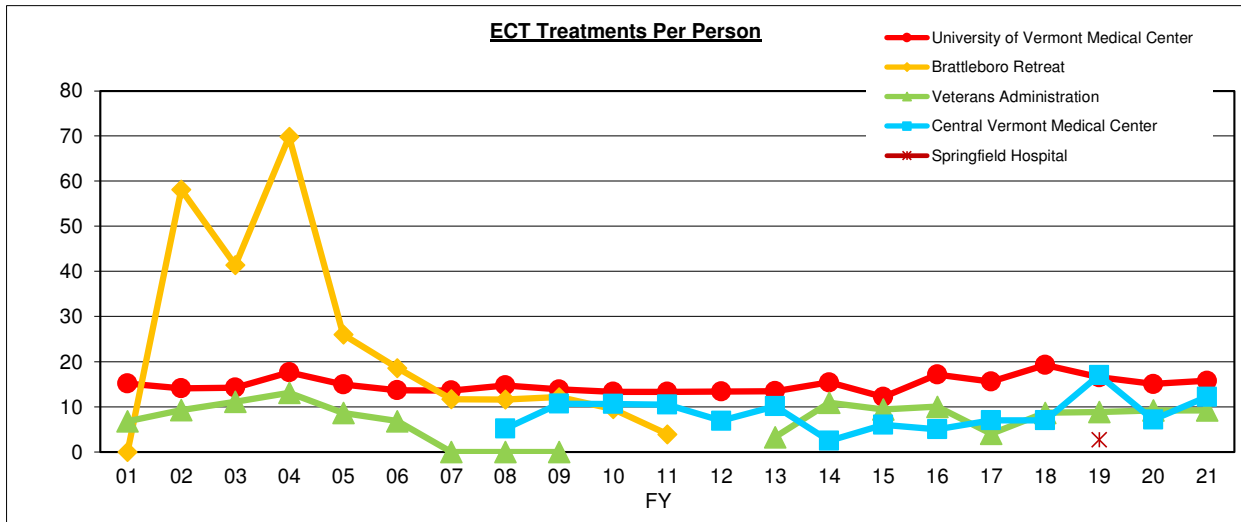
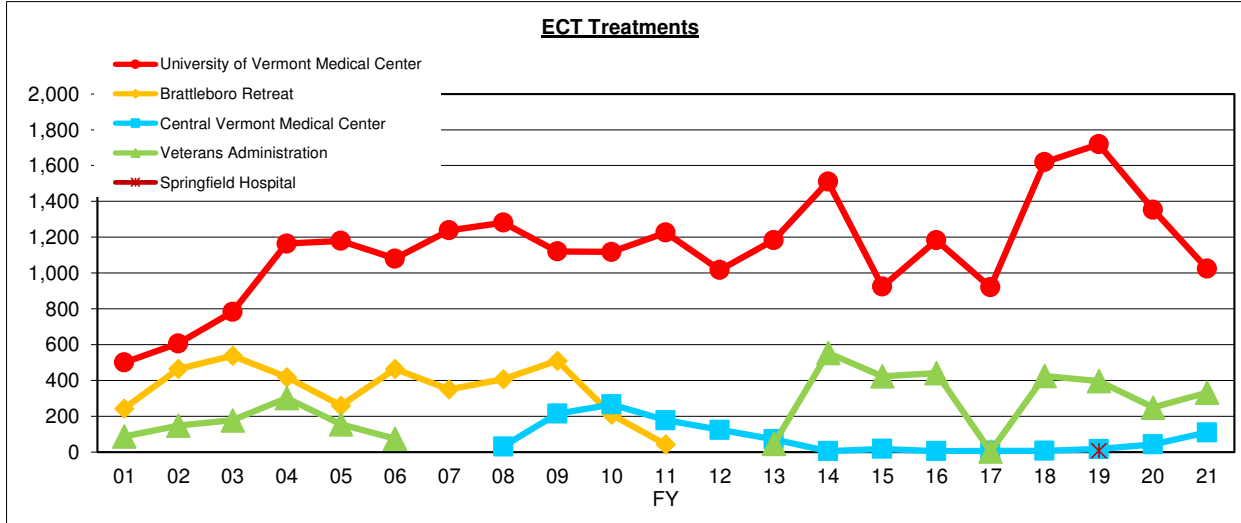
**The Veterans Administration stopped providing data after FY2009 and restarted submitting data in June 2013.

***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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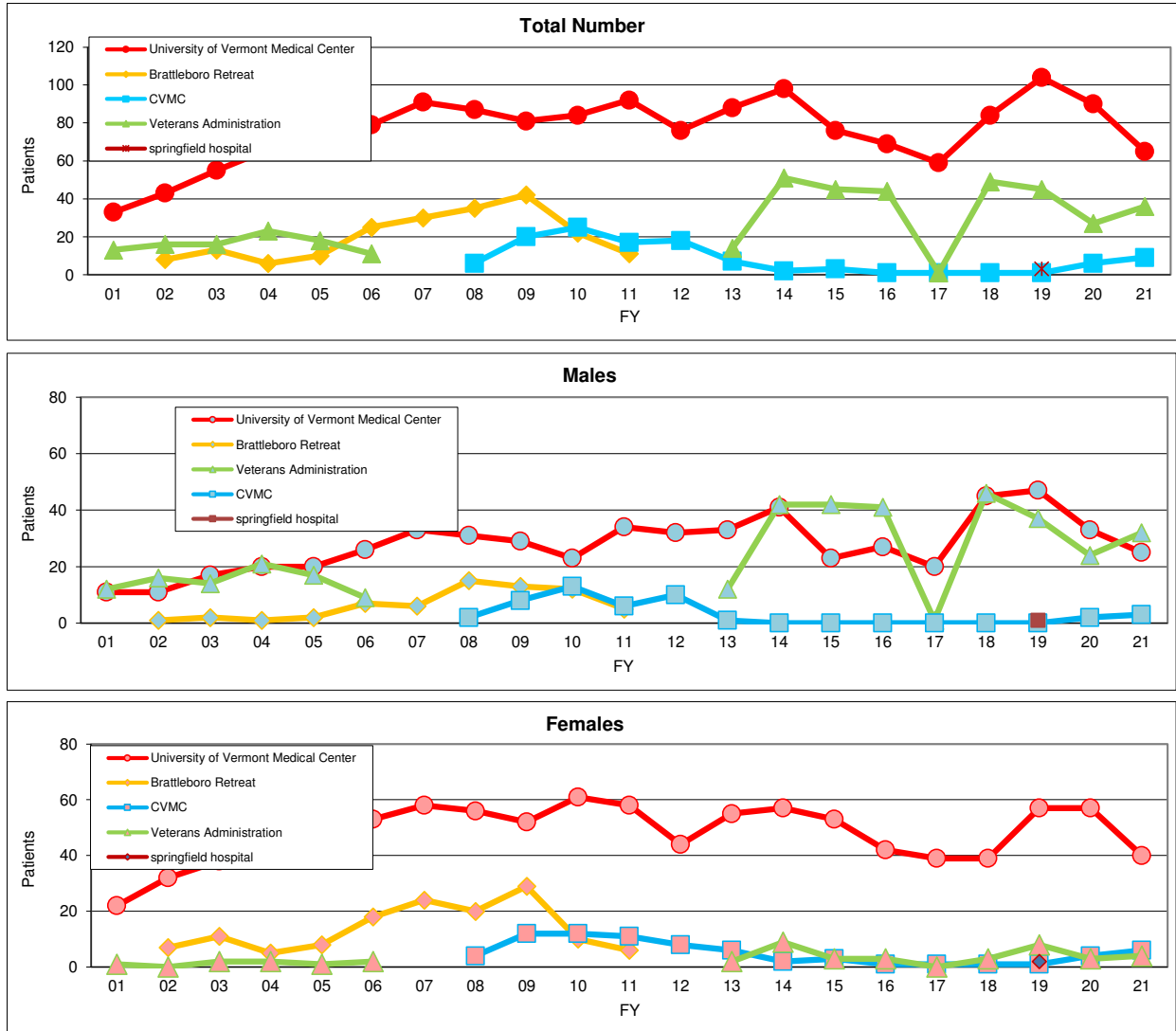
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Number of Individuals Receiving ECT Total and by Gender



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