

Stella

Mental Health



2024 Impact Report

Patient Reported Outcome (PRO)

Michael Gershenzon

CEO

Stella
Mental Health



At Stella Mental Health, we believe that those suffering from post-traumatic stress injury, anxiety, and depression deserve nothing less than the most advanced, evidence-based care available.

In 2025, our mission remains clear: to save and change more lives by delivering best-in-class outcomes through a modality-agnostic approach. By blending highly effective biological interventions with trauma-informed psychological support, Stella's patients are regaining control of their lives.

Our impact continues to grow. We've treated over 30,000 patients with precision-targeted treatments. Behind each outcome stands a world-class medical team—now more than 70 providers strong—bringing unmatched expertise and compassionate care to every person we serve.

This year, we continue to deepen our commitment to research, innovation, accessibility, and community. Through partnerships with providers and leading institutions, we are advancing the science and understanding of interventional psychiatry while setting new standards for treatment of resistant conditions. On top of publishing four peer-reviewed journals since the publication of Stella's last Impact Report, we will soon share the outcomes of NYU's clinical study highlighting SGB's impact on the brain to help those suffering from post-traumatic stress injury.

While some of our treatments are covered by insurance, we remain committed to ensuring that all research-backed interventions are accessible to those who need them.

Together, we are building the future of mental health care. Thank you for being part of this journey. Let's continue to push boundaries—because lives depend on it.

Interventional Psychiatry: Stella's Medical & Mental Health Team



Dr. Eugene Lipov, MD
Co-Founder &
Chief Medical Officer



Dr. Shauna Springer, PhD
Chief Psychology
Officer



Dr. Brian Boyle, MD
Chief Psychiatric
Officer



Dr. Karen DeCocker, DNP, PMHNP, CNM
Vice President of
Clinical Services



Dr. John How, MD
Medical Director,
San Diego



Dr. Paul Thielking, MD
Chief Psychiatry
Officer, Utah



Dr. Brett Sharp, MD
Medical Director,
Layton



Dr. Scott Salomone, MD
Medical Director,
Murray



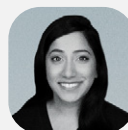
Dr. Chris Sorensen, MD
Medical Director,
Draper



Center of Excellence Team



Network Doctors



Stella

Mental Health

11

Centers of
Excellence

20+

Locations
Worldwide



Stella Chicago, IL



Stella New York



Stella Boston, MA



Stella Oak Park, IL



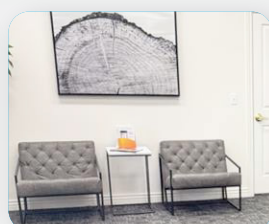
Stella San Diego, CA



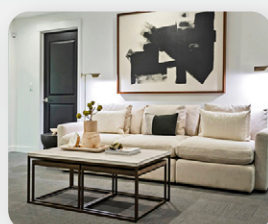
Stella Irvine, CA



Stella Draper, UT



Stella American Fork, UT



Stella Layton, UT



Stella Murray, UT

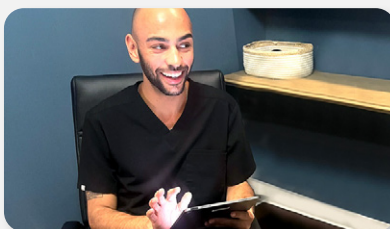


Stella Springville, UT

Interventional Psychiatry

Stella's biological interventions are one piece in a broader puzzle of psychiatric care.

Stella's protocols target the biological cause of symptoms instead of just managing them. By incorporating short-term interventional therapies along with the care they are receiving from mental health care professionals, patients report getting better faster and for longer.



Virtual Intake Assessment

Advanced practice providers ask questions, listen closely, identify medical contraindications, and assess what care journey best fits each patient based on decades of scientific research.



Spravato® (esketamine)

Nasal spray form of a ketamine derivative for treatment of Major Depressive Disorder and Treatment-Resistant Depression.



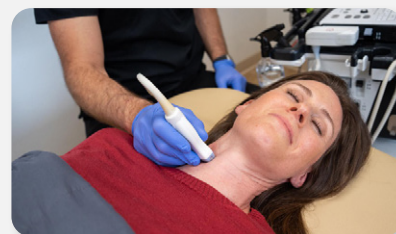
Transcranial Magnetic Stimulation (TMS)

Magnetic pulses targeted to specific brain regions that regulate mood to treat Major Depressive Disorder, Anxious Depression, and Obsessive Compulsive Disorder.



Ketamine Infusion Therapy

IV infusions leveraging an advanced ketamine blend to help rebuild neuron pathways, and facilitate awareness of new possibilities and healthy habits.



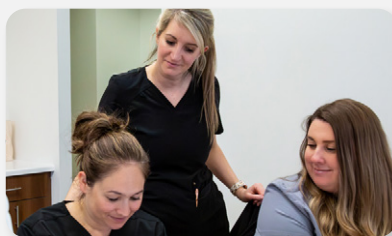
The Dual Sympathetic Reset (DSR)

Two 15-minute advanced stellate ganglion blocks that can alleviate PTSD, anxiety and long COVID symptoms by reducing amygdala overactivity which can calm the fight-or flight response.



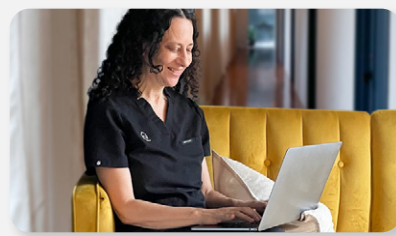
Multi-Modality Care

Clients with higher symptom severity or comorbid conditions may find greater relief when they combine interventions that target multiple systems.



Medication Management

Evidence-based psychopharmacology to treat adults experiencing mental health challenges like depression, bipolar disorder, anxiety, OCD, ADHD, perinatal disorders, thought disorders, PTSD/PTSI, substance use disorders (addiction) and more.



Integration Therapy

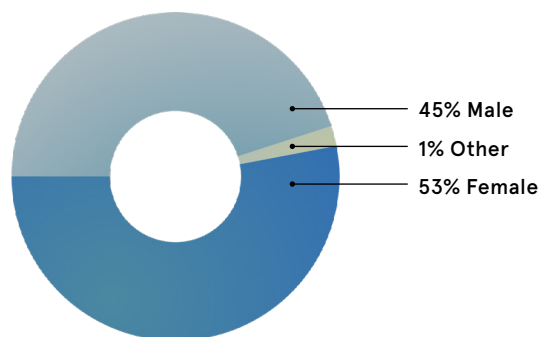
Short-term sessions that optimize healing and growth by making meaning of treatment sessions and creating individualized action plans that turn insights into transformation.

Patient Demographic

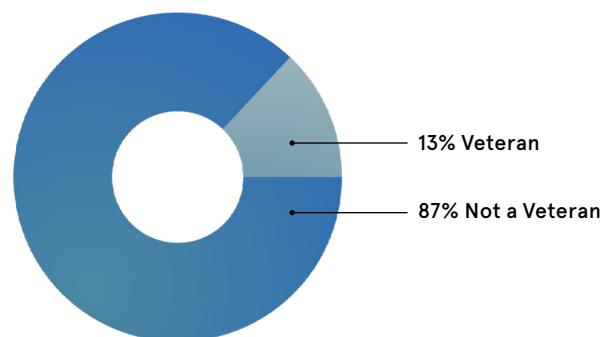
The following report leverages pre- and post-core measures of 2077 patients who submitted outcomes since January 2024.

The treatments patients received within this outcomes report vary across 5 unique modalities and protocols, including the dual sympathetic reset (an advanced stellate ganglion block), spravato (esketamine), ketamine infusion therapy, transcranial magnetic simulation or a combination of multiple modalities.

Gender Distribution



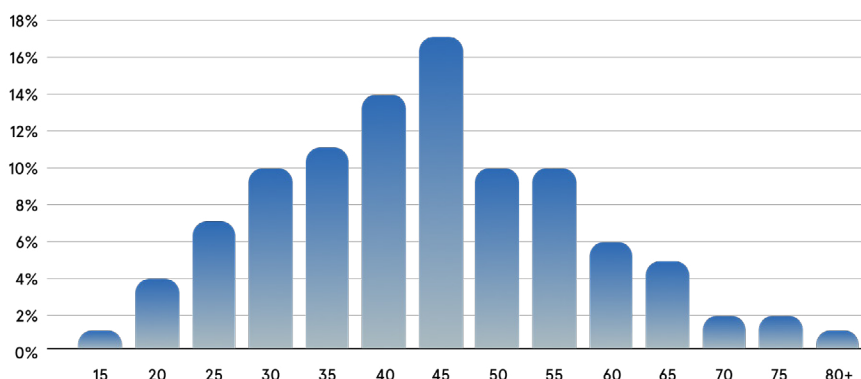
% of Veterans



Average Age
of Stella Patient

42

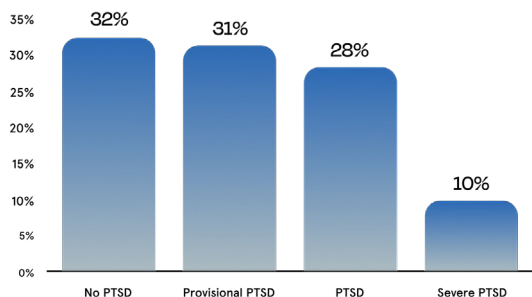
% Age Distribution



Symptom Prevalence

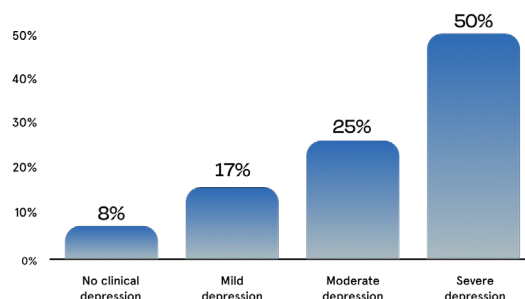
PTSD

Among those who completed the PTSD Checklist (PCL-5), 31% of patients reported mild trauma symptoms, 28% reported moderate trauma symptoms, and 10% reported severe trauma symptoms.



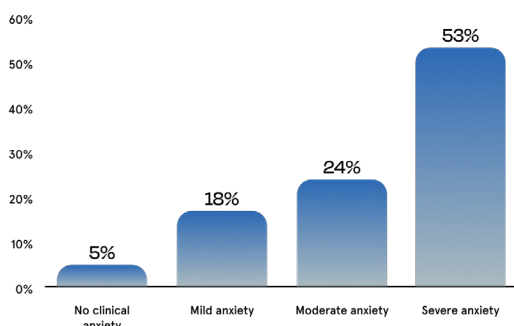
Depression

Among those who completed the Patient Health Questionnaire (PHQ-9), 17% of patients reported mild depressive symptoms, 25% reported moderate depressive symptoms, and 50% reported severe depressive symptoms.



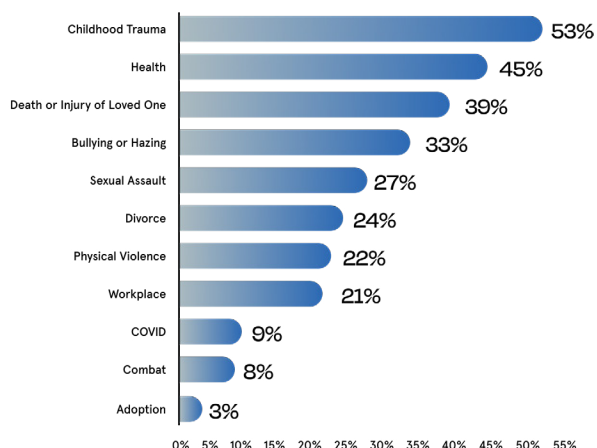
Anxiety

Among those who completed the Generalized Anxiety Disorder 7-item (GAD-7), 18% of patients reported mild anxiety symptoms, 24% reported moderate anxiety symptoms, and 53% of patients reported severe symptoms of anxiety.



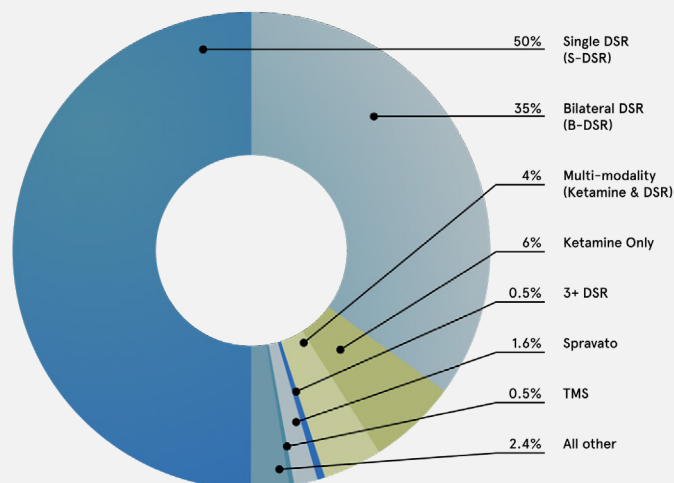
Trauma

Overall percentage of patients who reported trauma(s) experienced, with 3+ types of traumas experienced on average per patient.



Treatment Modality Distribution

Single DSR (S-DSR) was the primary intervention delivered for Stella patients with core measurement data available in 2024 (n=1039). 35 percent of the sample with measurement data received two total DSR treatments, one on the right and one on the left (n=727). 4 percent had a combination of DSR and Ketamine (n=83). 6 percent (n=125) had Ketamine infusions only, 1.6 percent had Spravato (n=33), and 0.5 percent had more than 3 DSR procedures (n=10). All other modalities comprised 2.4 percent (n=50).





Severe PTSD Symptoms

Post-Traumatic Checklist-5 (PCL-5) Pre-Tx PCL-5 > 65

Of patients who endorsed severe trauma symptoms (PCL-5>65), 85% had a clinically significant reduction and 81% reported full or partial remission after receiving treatment. The average decrease in their PCL-5 symptom score was 37 points 1 month post treatment. Patients continued to report sustained symptom relief on the PCL-5 when assessed at 3 and 6 months after treatment.

PATIENTS WHO EXPERIENCED:	BASELINE TO: 1 month	BASELINE TO: 1-3 months	BASELINE TO: 3-6 months
Clinically Significant Symptom Reduction >10 points	85%	78%	66%
Full or Partial Remission Post-Tx PCL-5 < 44	81%	75%	59%
Average Decrease in Symptom Score	37 Points N = 130	29 Points N = 59	21 Points N = 32

Severe Depression

Patient Health Questionnaire-9 (PHQ-9) Pre-Tx PHQ-9 > 15

Of patients who endorsed severe depression (PHQ-9 >15), 80% had a clinically significant reduction and 65% reported full or partial remission after receiving treatment. The average decrease in their PHQ-9 symptom score was 10 points 1 month post-treatment. Patients continued to report sustained symptom relief on the PHQ-9 when assessed at 3 to 6 months after treatment.

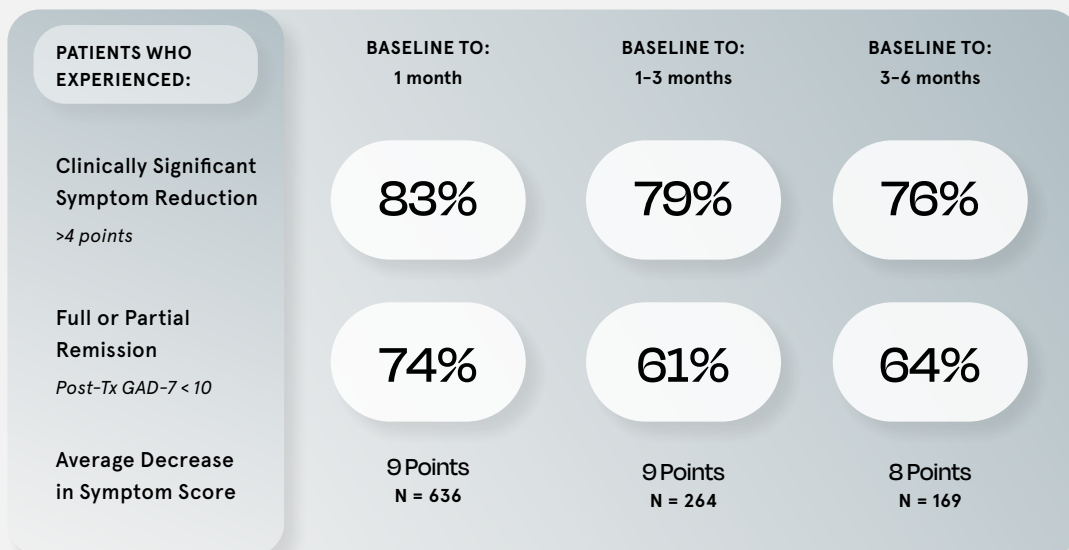
PATIENTS WHO EXPERIENCED:	BASELINE TO: 1 month	BASELINE TO: 1-3 months	BASELINE TO: 3-6 months
Clinically Significant Symptom Reduction >5 points	80%	76%	68%
Full or Partial Remission Post-Tx PHQ-9 < 10	65%	54%	52%
Average Decrease in Symptom Score	10 Points N = 601	9 Points N = 246	8 Points N = 155



Severe Anxiety

Generalized Anxiety Disorder-7 (GAD-7) Pre-Tx GAD-7 > 15

Of patients who endorsed severe anxiety (GAD-7>15), 83% had a clinically significant reduction and 74% reported full or partial remission after receiving treatment. The average decrease in their GAD-7 symptom score was 9 points 1 month post-treatment. Patients continued to report sustained symptom relief on the GAD-7 when assessed at 3 to 6 months after treatment.

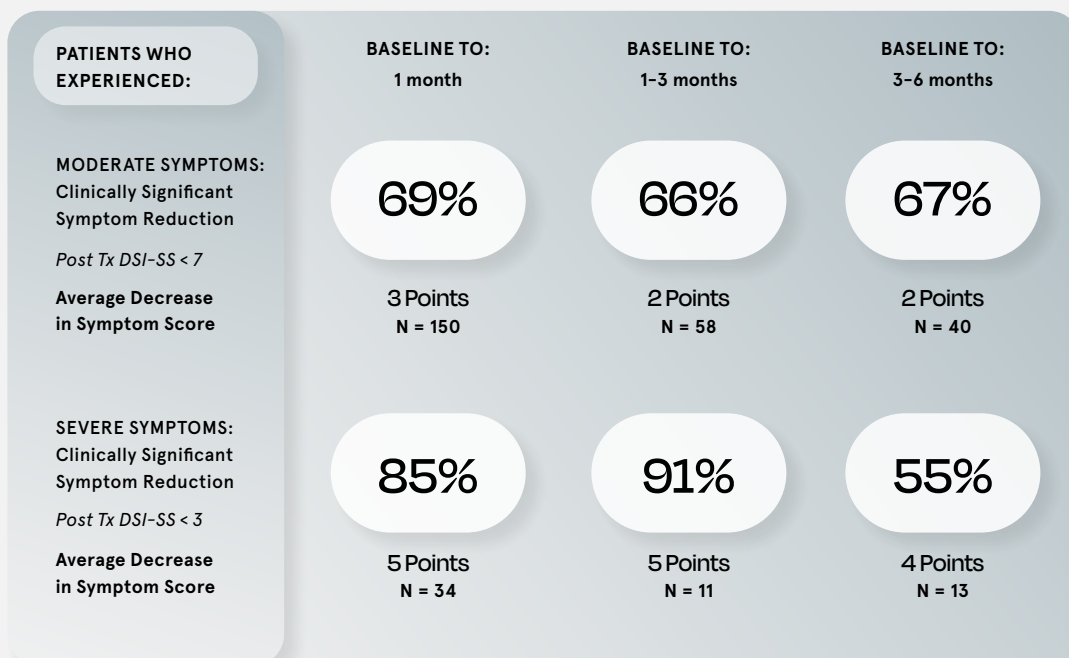


Suicidality Risk

Depressive Symptom Index
Suicidality Sub-scale (DSI-SS) Pre-Tx DSI-SS > 3

Sixty-nine percent of patients who initially endorsed a moderate level of suicidality (a DSI-SS score between 3-7) would be categorized as having low suicidality symptoms (a DSI-SS score lower than 3) after treatment by Stella.

Of patients who initially reported severe suicidality (a DSI-SS score higher than 7), 55% had an improvement in suicidality which resulted in moderate to low suicidality symptoms (a DSI-SS of lower than 7).

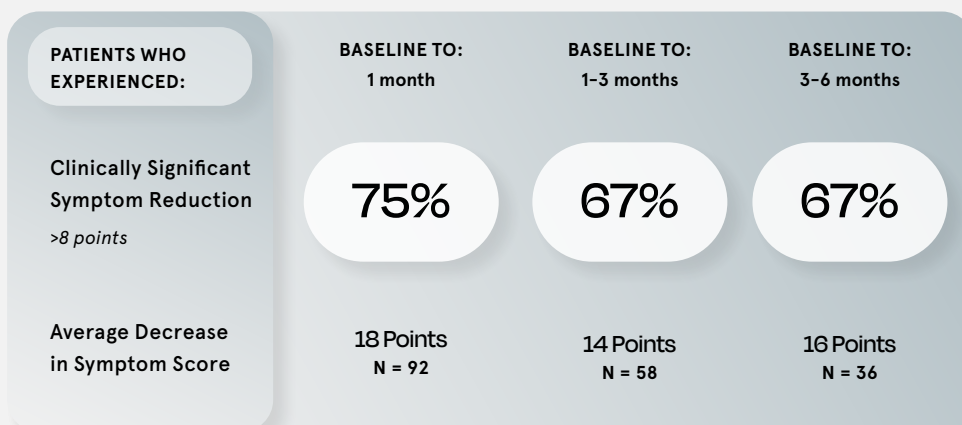




Neurobehavioral Symptoms

Neurobehavioral Symptom Inventory (NSI)

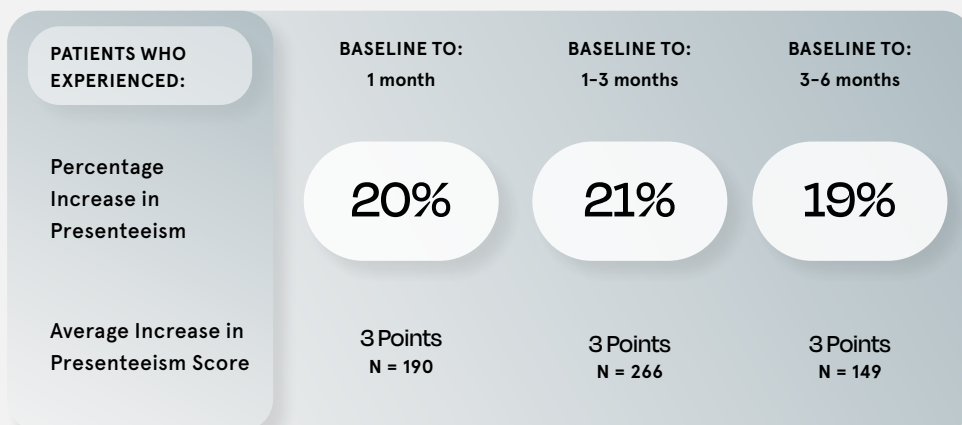
The NSI is only assessed if patients endorse symptoms associated with a history of concussion or brain injury. Therefore, the sub-sample that qualifies for analysis in this time period is 133 patients. Based on the existing literature, Stella uses a decrease of 8 points in a total sum score as the standard of a clinically significant positive outcome. The average decrease reported by Stella patients was 18.48. To put this into context, the average score decrease in a sample of 314 patients who received a 30 day, 8-hour-a-day inpatient care at the National Intrepid Center for Excellence (NICoE) was 12.08.⁵



Presenteeism

Stanford Presenteeism Scale (SPS-6)

The Stanford Presenteeism Scale looks at the link between a patient's health (in this case their mental health) and productivity. The scale ranges from 6-30, with a low SPS-6 score indicating decreased presenteeism (i.e. someone who is physically present but experiences decreased productivity). A high SPS-6 score indicates increased presenteeism, or a higher ability to concentrate and accomplish work tasks despite their health condition. A cutoff score of 18 is used to differentiate lower vs. higher scores. Among the 506 patients who provided pre- and post-treatment SPS scores in this measurement period, nearly a quarter (24%) of patients were below 18 before treatment and above 18 after treatment.



Data shown on the treatment outcomes for individuals with depression, anxiety and PTSD are based on self-reported information from patients collected through clinical surveys and assessments such as the PHQ-9, GAD-7, and PCL-5. All patient reported outcome data below is based on patients treated since January 2024 who exhibited mild or higher level of severity symptoms.

Demographics

# of patients treated	2077
Average Age	42
Veteran	13%
Gender	
Male	45%
Female	53%
Other	1%

Trauma Types Reported

Childhood Trauma	17%	Physical violence	7%
Health	14%	Workplace	7%
Death or injury of loved one	13%	Covid	3%
Bullying or hazing	11%	Combat or Warfare	3%
Sexual assault	9%	Adoption	1%
Divorce	8%	Other	8%

Treatments Executed

Single DSR (S-DSR)	50%
Bilateral DSR (B-DSR)	35%
Multi-Modality (Ketamine & DSR)	4%
Ketamine Only	6%
3+ DSR	0.5%
Spravato Only	1.6%
TMS Only	0.5%
All Other	2.4%

PRE-TX SCORE

N

AVG
PRE-TX

AVG
POST-TX

AVG
DROP

MARGIN
OF ERROR

% DROP

% CLINICAL
RESPONSE

% FULL
REMISSION

% PARTIAL
REMISSION

% FULL OR
PARTIAL
REMISSION

PTSD Symptoms

Post-Traumatic Checklist-5 (PCL-5)

BASE LINE TO 1 MONTH

MILD SYMPTOMS	>=33	<49	375	41.6	20.2	21.4	1.2	51%	82%	83%	-	83%
MODERATE SYMPTOMS	>=49	<65	360	56.4	28.5	27.9	1.6	49%	86%	70%	24%	94%
SEVERE SYMPTOMS	>=65	<80	130	70.0	33.0	37.0	3.2	53%	85%	60%	21%	81%
ALL PATIENTS	>=33	<80	865	52.05	25.62	26.44	1.03	51%	84%	74%	13%	87%

BASE LINE TO 1-3 MONTHS

MILD SYMPTOMS	>=33	<49	156	41.8	21.5	20.4	2.1	49%	76%	81%	-	81%
MODERATE SYMPTOMS	>=49	<65	143	56.1	28.4	27.7	2.4	49%	83%	69%	24%	93%
SEVERE SYMPTOMS	>=65	<80	59	69.5	40.0	29.4	4.5	42%	78%	50%	25%	75%
ALL PATIENTS	>=33	<80	358	52.32	27.40	24.92	1.56	48%	79%	71%	14%	85%

BASE LINE TO 3-6 MONTHS

MILD SYMPTOMS	>=33	<49	112	41.7	23.5	18.2	2.5	44%	75%	74%	-	74%
MODERATE SYMPTOMS	>=49	<65	90	56.7	30.7	26.0	3.5	46%	76%	54%	24%	79%
SEVERE SYMPTOMS	>=65	<80	32	68.9	47.7	21.2	6.8	31%	66%	31%	28%	59%
ALL PATIENTS	>=33	<80	234	51.03	29.38	21.65	2.05	42%	74%	61%	13%	74%

Depression Symptoms

Patient Health Questionnaire - 9 (PHQ-9)

BASE LINE TO 1 MONTH

MILD SYMPTOMS	>=5	<10	196	7.2	5.1	2.1	0.5	29%	36%	60%	-	60%
MODERATE SYMPTOMS	>=10	<15	289	12.1	6.6	5.5	0.4	46%	71%	50%	40%	90%
SEVERE SYMPTOMS	>=15	<20	601	19.9	10.3	9.7	0.5	48%	80%	30%	35%	65%
ALL PATIENTS	>=5	<20	1086	15.64	8.40	7.24	0.32	46%	69%	41%	30%	71%

BASE LINE TO 1-3 MONTHS

MILD SYMPTOMS	>=5	<10	83	7.1	5.9	1.2	0.7	17%	24%	49%	-	49%
MODERATE SYMPTOMS	>=10	<15	109	12.2	8.1	4.1	0.8	34%	57%	32%	40%	72%
SEVERE SYMPTOMS	>=15	<20	246	19.8	10.5	9.2	0.7	47%	76%	30%	24%	54%
ALL PATIENTS	>=5	<20	438	15.41	9.01	6.40	0.52	42%	61%	34%	23%	57%

BASE LINE TO 3-6 MONTHS

MILD SYMPTOMS	>=5	<10	46	7.1	4.8	2.3	0.9	33%	33%	63%	-	63%
MODERATE SYMPTOMS	>=10	<15	70	12.1	9.5	2.6	1.2	22%	53%	31%	41%	73%
SEVERE SYMPTOMS	>=15	<20	155	19.5	11.7	7.8	0.9	40%	68%	19%	33%	52%
ALL PATIENTS	>=5	<20	271	15.07	9.74	5.33	0.67	35%	58%	30%	30%	60%

Anxiety Symptoms

Generalized Anxiety Disorder-7 (GAD-7)

BASE LINE TO 1 MONTH

MILD SYMPTOMS	>=5	<10	181	7.3	5.2	2.1	0.4	29%	49%	59%	-	59%
MODERATE SYMPTOMS	>=10	<15	292	12.2	6.5	5.7	0.4	47%	79%	47%	46%	92%
SEVERE SYMPTOMS	>=15	<20	636	18.1	8.8	9.3	0.4	51%	83%	33%	41%	74%
ALL PATIENTS	>=5	<20	1109	14.82	7.63	7.18	0.29	48%	77%	41%	35%	76%

BASE LINE TO 1-3 MONTHS

MILD SYMPTOMS	>=5	<10	66	7.1	4.8	2.4	0.7	33%	50%	61%	-	61%
MODERATE SYMPTOMS	>=10	<15	119	12.2	7.3	4.9	0.7	40%	71%	34%	38%	71%
SEVERE SYMPTOMS	>=15	<20	264	18.2	9.6	8.6	0.6	47%	79%	25%	36%	61%
ALL PATIENTS	>=5	<20	449	15.02	8.30	6.72	0.45	45%	73%	33%	31%	64%

BASE LINE TO 3-6 MONTHS

MILD SYMPTOMS	>=5	<10	43	7.1	4.8	2.3	1.0	33%	47%	65%	-	65%
MODERATE SYMPTOMS	>=10	<15	73	12.4	7.1	5.3	0.9	43%	73%	47%	42%	89%
SEVERE SYMPTOMS	>=15	<20	169	17.9	10.2	7.7	0.8	43%	76%	25%	40%	64%
ALL PATIENTS	>=5	<20	285	14.91	8.62	6.30	0.56	42%	71%	36%	35%	71%

Data shown on the treatment outcomes for individuals with depression, anxiety and PTSD are based on self-reported information from patients collected through clinical surveys and assessments such as the PHQ-9, GAD-7, and PCL-5. All patient reported outcome data below is based on patients treated since January 2024 who exhibited mild or higher level of severity symptoms.

PRE-TX SCORE

N

AVG
PRE-TX

AVG
POST-TX

AVG
DROP

MARGIN
OF ERROR

% DROP

% CLINICAL
RESPONSE

Suicidality Risk

Depressive Symptom Index - Suicidality Subscale (DSI-SS)

BASE LINE TO 1 MONTH

MILD SYMPTOMS	>=0	<4	1030	0.5	0.2	0.3	0.1	51%	-
MODERATE SYMPTOMS	>=4	<7	150	4.6	2.2	2.5	0.3	53%	69%
SEVERE SYMPTOMS	>=7	<=10	34	7.2	2.7	4.6	0.8	63%	85%
ALL PATIENTS	>=0	<=10	1214	1.20	0.55	0.65	0.08	54%	

BASE LINE TO 1-3 MONTHS

MILD SYMPTOMS	>=0	<4	422	0.5	0.3	0.2	0.1	42%	-
MODERATE SYMPTOMS	>=4	<7	58	4.5	2.3	2.2	0.6	49%	66%
SEVERE SYMPTOMS	>=7	<=10	11	7.0	1.8	5.2	1.4	74%	91%
ALL PATIENTS	>=0	<=10	491	1.08	0.53	0.55	0.14	51%	

BASE LINE TO 3-6 MONTHS

MILD SYMPTOMS	>=0	<4	256	0.5	0.4	0.1	0.1	26%	-
MODERATE SYMPTOMS	>=4	<7	40	4.8	2.5	2.2	0.8	47%	67%
SEVERE SYMPTOMS	>=7	<=10	13	7.6	3.5	4.1	1.7	54%	55%
ALL PATIENTS	>=0	<=10	309	1.30	0.75	0.54	0.19	42%	

Neurobehavioral Symptoms

Neurobehavioral Symptoms Inventory (NSI)

BASE LINE TO 1 MONTH

ALL PATIENTS	>=0	<89	92	42.54	24.13	18.42	2.49	43%	75%
--------------	-----	-----	----	-------	-------	-------	------	-----	-----

BASE LINE TO 1-3 MONTHS

ALL PATIENTS	>=0	<89	58	40.54	26.68	13.86	3.77	34%	67%
--------------	-----	-----	----	-------	-------	-------	------	-----	-----

BASE LINE TO 3-6 MONTHS

ALL PATIENTS	>=0	<89	36	38.31	22.75	15.56	3.61	41%	67%
--------------	-----	-----	----	-------	-------	-------	------	-----	-----

Presenteeism

Stanford Presenteeism Scale (SPS-6)

BASE LINE TO 1 MONTH

ALL PATIENTS	>=6	<31	190	15.8	18.9	3.12	0.65	20%	
--------------	-----	-----	-----	------	------	------	------	-----	--

BASE LINE TO 1-3 MONTHS

ALL PATIENTS	>=6	<31	266	15.8	19.2	3.37	0.61	21%	
--------------	-----	-----	-----	------	------	------	------	-----	--

BASE LINE TO 3-6 MONTHS

ALL PATIENTS	>=6	<31	149	16.0	19.1	3.06	0.68	19%	
--------------	-----	-----	-----	------	------	------	------	-----	--

Methods

Stella uses the PTSD Checklist for DSM-5 (PCL)* to score the self-reported severity of PTSD symptoms. Scores on the PCL range from 0-80. In analyzing this data, Stella used the following PCL standard cutoffs: 0-32 minimal PTSD symptoms, 33-49 mild PTSD symptoms, 50-65 moderate PTSD symptoms, and 65-80 severe PTSD symptoms. Based on the clinically meaningful threshold set by the National Center for PTSD, Stella defines 'responsiveness' as a post-treatment PCL decrease of at least 10 points. Stella defines 'full remission' as a PCL score of less than 33 and 'partial remission' as a score between 33-50 on the PCL.

The Patient Health Questionnaire (PHQ-9)* is used to score the self-reported severity of depression symptoms. Stella uses the following PHQ-9 standard cutoffs: 0-4 no depressive symptoms, 5-9 mild depressive symptoms, 10-14 moderate depressive symptoms, 15-19 moderately-severe depressive symptoms, and 20-27 severe depressive symptoms. Stella defines 'responsiveness' as a drop of 5 or more points in PHQ-9 score after treatment intervention. Stella defines 'full remission' as a score below 5 on the PHQ-9 and 'partial remission' as a PHQ-9 score between 5-10 following treatment.

The Generalized Anxiety Disorder 7-item (GAD-7) is used to score the self-reported severity of anxiety symptoms. Stella uses the following GAD-7 standard cutoffs: 0-4 minimal anxiety, 5-9 mild anxiety, 10-14 moderate Anxiety, greater than 15 Severe Anxiety. Stella defines 'responsiveness' as a drop of 4 or more points in GAD-7 score after treatment intervention. Stella defines 'full remission' as a score below 5 on the GAD-7 and 'partial remission' as a score between 5-10 on the GAD-7 after treatment.

The Depression Symptom Index – Suicidality Scale (DSI-SS) is a self-reported measure of the frequency and intensity of suicidality intention and impulses within the past two weeks. With a total of four items ranging from 0-3 per item, the DSI-SS ranges between 0-12 points. Existing research suggests that a score higher than 3 may indicate elevated risk (Joiner et al, 2002). Therefore, Stella interprets scores of less than 3 as indicating low suicidality, scores between 3-7 and indicating moderate suicidality, and scores higher than 7 as indicating severe suicidality.

The Neurobehavioral Symptom Inventory (NSI) is a 22-item measure of post-concussive symptoms. Patients are asked to rate the severity of their symptoms, as experienced within the past 2 weeks, on a scale from 0 (None) to 4 (Very Severe). Total scores range from 0-88, with higher scores indicative of more severe post-concussive symptoms. Stella uses a decrease of 8 points in a total sum score as the standard of a clinically significant positive outcome based on outcomes published in the medical literature. (Belanger, et. al, 2016; Scarlett et al. 2023).^{6,7}

All margins of error are calculated at a 90% confidence level.

Disclaimer

Dual Sympathetic Reset (an advanced version of SGB) and Ketamine are both used as off-label interventions based on research showing positive outcomes for these treatments for symptoms of PTSD, depression and anxiety. Ketamine and the dual sympathetic reset are not FDA-approved for the treatment of depression, anxiety, PTSD or PTSD. Stella MSO, LLC, Lipov Medical, S.C. and their parents, subsidiaries, and affiliates (collectively "Stella") make no representations or warranties that the content contained in this Report satisfies government regulations regarding the disclosure of information on prescription drug products.

The information conveyed in this 2024 Impact Report ("Report") is for general informational purposes only and does not constitute medical advice, treatment, or the practice of medicine. Data shown on the rates and percentages of individuals with depression, anxiety and PTSD are based on self-reported information from patients collected through clinical surveys and assessments such as the PHQ and GAD survey tools.

References and Resources

1. Lipov, E., Rolain, H., and Lammers, L. Ketamine plus Cervical Sympathetic Blockade (CSB) Seems to be Significantly More Effective in Reducing the Symptoms of PTSD and Depression than CSB alone in a PTSD Cohort. *Anesth Pain Res.* 2024; 8(2): 1-5.
2. Lipov, E. Rolain H., and Lammers, L. Cervical Sympathetic Blockade Produces a Significant Reduction in Suicidal Ideation in a PTSD Cohort: A Case Series of 254 Patients. *Anesth Pain Res.* 2024; 8(3): 1-4.
3. Lipov E., Sethi Z., Nandra G., and Frueh C. Efficacy of combined subanesthetic ketamine infusion and cervical sympathetic blockade as a symptomatic treatment of PTSD/TBI in a special forces patient with a 1-year follow-up: A case report. *Heliyon.* 2023 Mar 27;9(4):e14891.
4. Springer S, Whitmer P, Steinlin M, Gray L, Blankfield J. Optimizing clinical outcomes with stellate ganglion block and trauma-informed care: A review article. *NeuroRehabilitation.* 2024;55(3):385-396.
5. Dretsch, et al. (2016). Three Scoring Approaches to the Neurobehavioral Symptom Inventory for Measuring Clinical Change in Service Members Receiving Intensive Treatment for Combat-Related mTBI. *Journal of Head Trauma Rehabilitation* 31(1), 23-29.
6. Belanger H.G., Lange R.T., Bailie J., Iverson G.L., Arrieux J.P., Ivins B.J., & Cole W.R. Interpreting change on the neurobehavioral symptom inventory and the PTSD checklist in military personnel. *Clin Neuropsychol.* 2016 Oct;30(7):1063-73.
7. Scarlett E., Lu L.H., Cummings L.D., & Bowles A.O. Neurobehavioral Symptom Inventory Item-Level Change Complements the Reliable Change Method. *J Head Trauma Rehabil.* 2023 Jul-Aug 01;38(4):E312-E317.
8. Lynch JH, Mulvaney SW, Bryan CJ, Hernandez D. Stellate Ganglion Block Reduces Anxiety Symptoms by Half: A Case Series of 285 Patients. *J Pers Med.* 2023 Jun;13(6):958.
9. Joiner, T. E., Pfaff, J. J., & Acres, J. G. (2002). A brief screening tool for suicidal symptoms in adolescents and young adults in general health settings: reliability and validity data from the Australian National General Practice Youth Suicide Prevention Project. *Behaviour Research and Therapy*, 40(4), 471-481.

Stella

Mental Health

We look forward to
partnering with you.

Contact:

Molly Seifert

molly@stellamentalhealth

872-250-3785

stellamentalhealth.com

