



A New Model for Care:

**How SGB Can Prevent Suicide,
Improve Performance, and
Bring Lasting Relief for Post
Traumatic Injury**

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Why This Matters

Mental trauma is a global health crisis

Trauma experienced in our everyday lives...

- **70% of US Adults** have had experience at least one traumatic event.

...leads to debilitating afflictions...

- **8m+** Americans suffer **Post Traumatic Stress (PTS)** each year.
- **18m+** Americans suffer from from **Major Depressive Disorder** each year.
- **28m+** Americans suffer from an **Anxiety Disorder** each year.
- **6m+** Americans suffer from **Panic Disorder**.

...and unthinkable societal costs

- **9.8x** more likely to die by suicide if struggling with **PTS**.
- **\$16b** Anxiety Disorder and Depression US treatment market.
- **\$238b** Annual US spend on mental health treatments and ancillary services.

And much more suffering & spend globally

Myths and Misunderstandings Create Incalculable Human Suffering

PTSD is a “veteran’s issue”.

MYTH

TRUTH

Trauma impacts people of all types and walks of life. Nearly 80% of Stella patients are civilians.

Many don’t fit the “PTSD sufferer” stereotype.

If I haven’t had an event like combat or sexual assault, I’m not really a trauma survivor.

MYTH

TRUTH

Trauma has multiple causes - and everyone deserves effective, efficient care.

Because my trauma was not a major event, I don’t deserve to see myself as having PTS or needing treatment.

MYTH

TRUTH

Trauma is often caused by things we can’t see (and by things that didn’t happen FOR us, as much as things that happen TO us).

Barriers in Current Care Model

Prevailing Treatment Models Also Lead Many to Suffer in Silence





THE CORE PRINCIPLE BEHIND
STELLA'S INNOVATIVE
APPROACH:

Trauma
is not
mysterious
or invisible.



Trauma exposure causes a biological injury that is associated with changes in how we think and behave.

How is SGB used for trauma?



Trauma exposure can lead to biological alterations.



The Stellate Ganglion is associated with the “fight or flight” response.



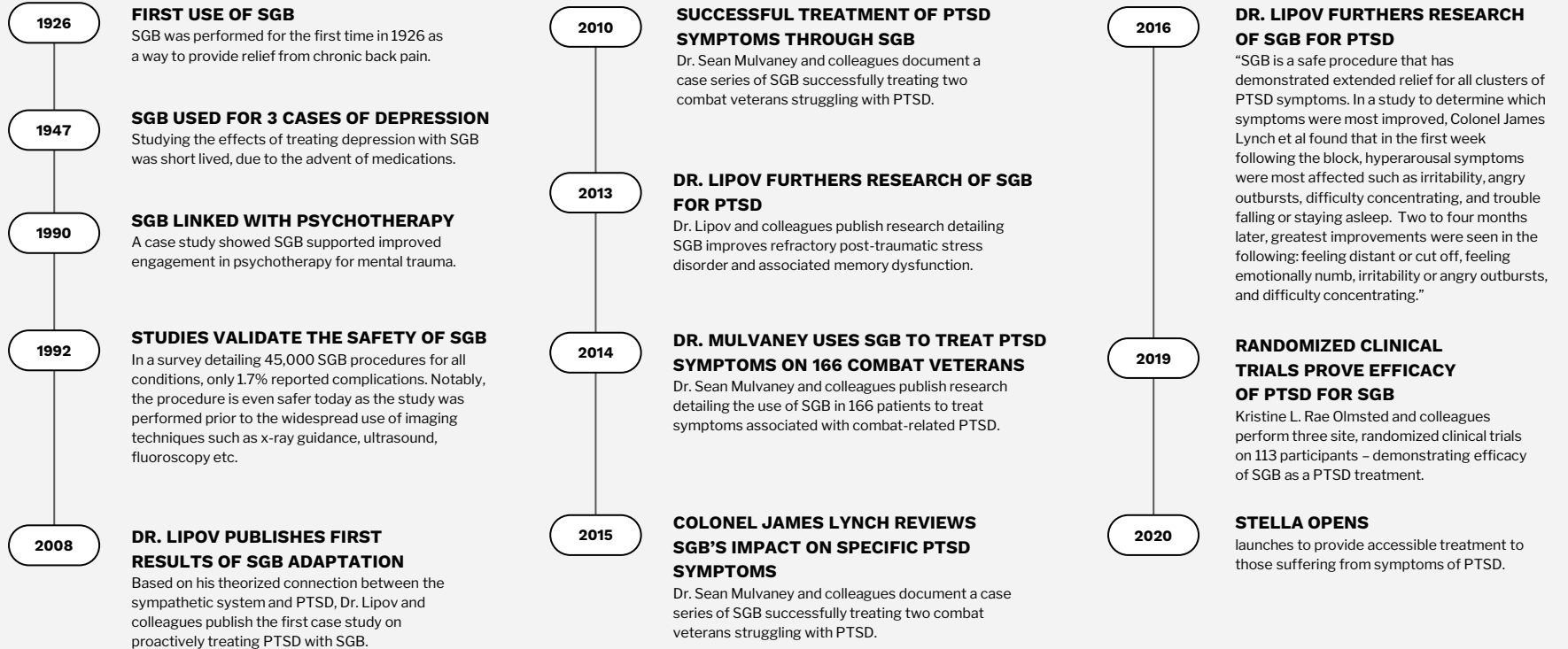
SGB targets the hyper-reactivity symptoms of Post-Traumatic Stress.



SGB can “reboot” the adrenaline system to a calm state.

History and Research on SGB

The History of Stellate Ganglion Block (SGB)



SGB: Key Research Findings

- Across the board, the range of **positive outcomes is 70-80%** for SGB.

(Mulvaney et al 2014; Navaie, et al 2014, Lipov et al 2021)

- SGB shows **clinically significant results** in an RCT study.

(Olmsted, et al 2019)

- SGB brings **sustained relief** from “hyperarousal PTSD symptoms”

(Lynch et al 2016)

- SGB actually **improves neurocognitive function** and response time.

(Mulvaney et al 2015)

- Of 250 soldiers who received SGB, **100% were satisfied** and would recommend it to a friend.

(Lynch et al 2015)

- **95%** of behavioral health providers would also recommend SGB.

(Lynch et al 2021)

SGB: Political Momentum



H.R.1656

TREAT PTSD Act

- Requires the VA and the DOD to furnish stellate ganglion block to veterans or members of the Armed Forces diagnosed with PTSD.
- Requires the VA and DOD to update their Clinical Practice Guideline (CPG) for the Management of PTSD to ensure that information about stellate ganglion block is included.
- HR 1656 has been endorsed by the VFW, AMVETS, and the American Legion. It has 22+ bi-partisan co-sponsors in Congress

Safety & Efficacy of SGB

Our results are transformative.

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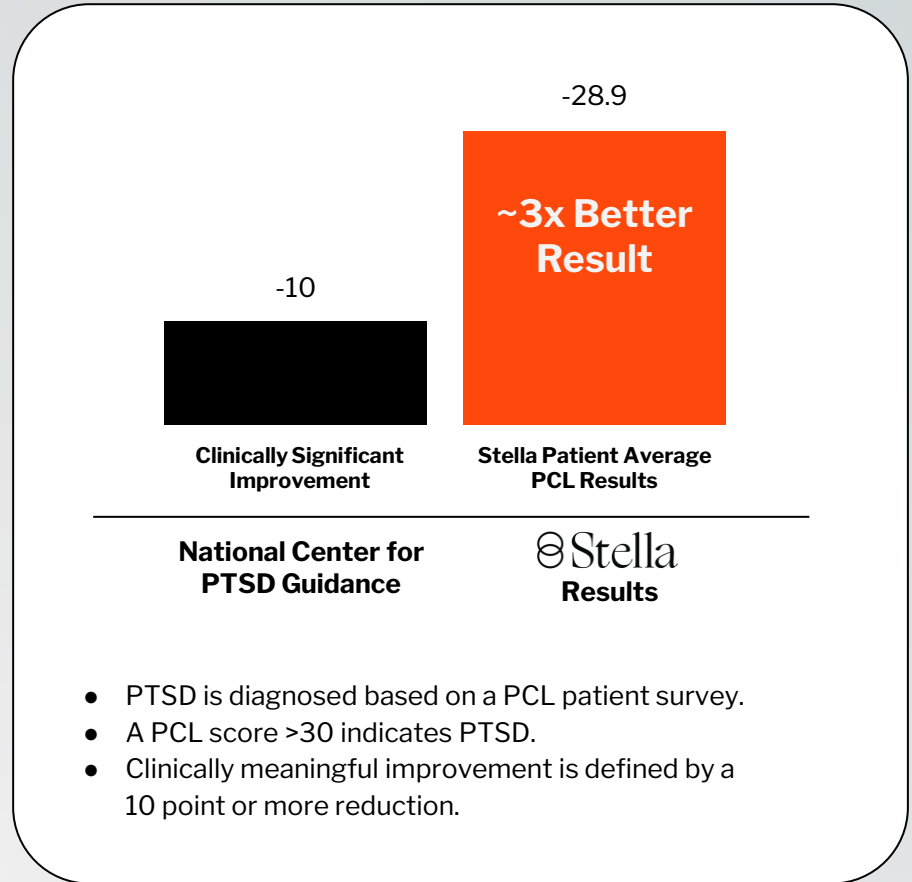
is the average reduction of Stella's patients PCL score, a 2.9x magnitude of improvement versus the threshold of 10.

83%+

of patients treated by Stella experience a clinically effective improvement (as defined by the National Center for PTSD).

Thousands

of patients treated from across all 50 states.



Treatment by Stella is effective.

See our patient profile below.

SYMPTOMS

Anxiety:
85%

Depression:
74%

Nervousness:
63%

Agitation:
62%

Mood Swings:
58%

Panic Episodes:
53%

DEMOGRAPHIC

Age:
12-84

Male:
58%

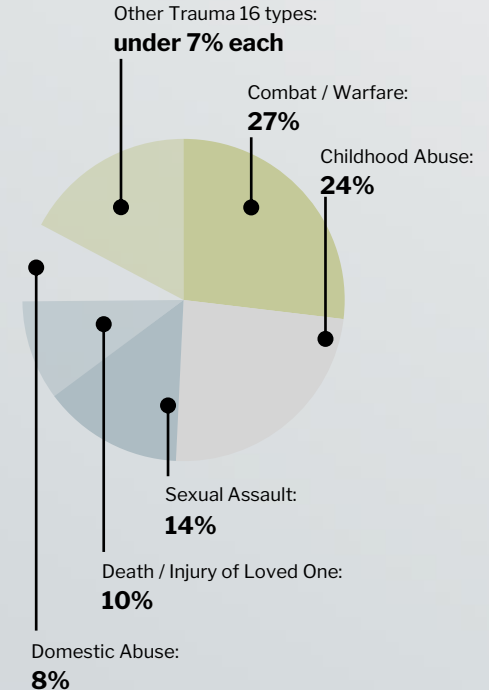
Female:
42%

Military:
34%

Civilian:
66%

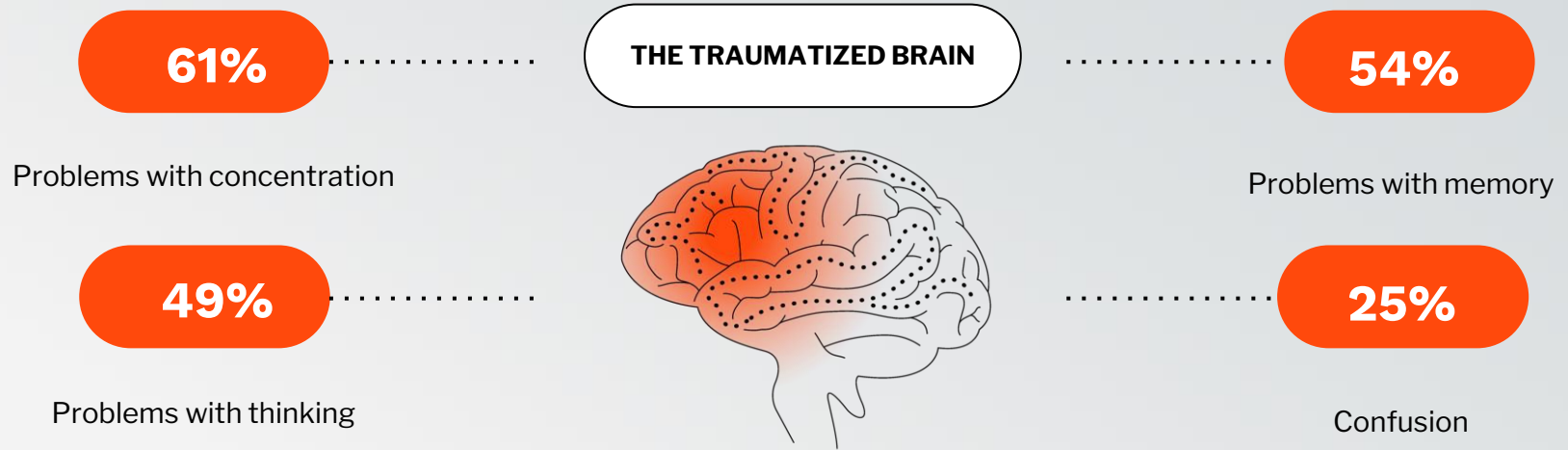


TRAUMA



**A New Model
of Care Biological
Treatment + Therapy**

The “Mind State Barrier”



Accelerant Effect

Biological treatments potentiate & accelerate the work of allied treatment providers.



Rethinking Trauma-focused Treatment

Medication may not be necessary and should no longer be considered the primary “front line” treatment for trauma

Precision medicine alternatives should be considered first

Therapy alone isn't enough for many people to recover

We get the best results when we treat the biological injury FIRST

It may not be the best form of treatment to “expose” people to their traumas without treating their injuries FIRST

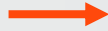
This can lead to treatment drop and lives of quiet suffering

People can repair as quickly as they can be injured, with the right treatments and the right support

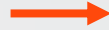
Healing doesn't require years of therapy or medication



Bigger paradigm shifts



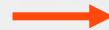
Medicine is a team effort – not about the healer as “savior”.



It’s time to realize the FULL potential of the “Bio-psycho-social” model of treatment.



Life-saving innovations often seem odd at first.



Our commitment to care must be stronger than our fear, and innovation must be done responsibly.

**Where to
Go Next**

Where to Go from Here

HEAL from trauma symptoms	PARTNER with us	PROVIDE THERAPY to patients who receive SGB
<p>Schedule a FREE consultation</p> <p>Or</p> <p>Check your symptoms on Stella's website</p>	<p>Learn more about the various ways that we partner with nonprofits.</p> <p>Receive tailored support and services based on the needs of your organization and the individuals that you serve.</p> <p>Request additional educational materials and resources.</p>	<p>Take our free basic SGB educational series (2 hours in total).</p> <p>Become qualified to accept our referrals.</p>

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