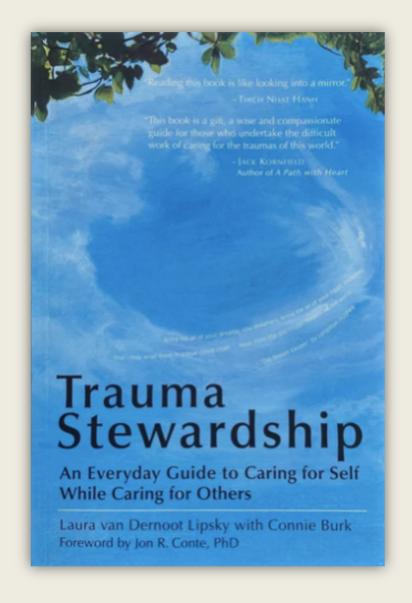
# Evidence of Secondary Traumatic Stress in Medical Students over the Course of Clinical Clerkships

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### The Dream Keeper

By Langston Hughes

Bring me all of your dreams,

You dreamers,

Bring me all of your

Heart melodies

That I may wrap them

In a blue cloud-cloth

Away from the too-rough fingers

of the world.



# Background

#### Definitions

- Burnout/Compassion Fatigue
- Major Depressive Disorder (MDD)
- Secondary Traumatic Stress (STS)

"Job related stress in any practice environment...[leading to] emotional exhaustion, depersonalization, and low personal accomplishment." 1,2

Depressive symptoms among medical students was found to be 27.7%<sup>3</sup>
Among resident physicians 28.8% and increased with each year<sup>4</sup>

"The natural, consequent behaviors and emotions resulting from knowledge about a traumatizing event experienced by a significant other. It is the stress resulting from helping or wanting to help a traumatized or suffering person"<sup>5</sup>



# Background

- STS in providers<sup>6,7</sup>
  - EM physicians: 12.7%
  - Licensed social workers: 19%
  - Mental health providers treating active military: 19%
  - Trauma surgeons: 22%
  - EM nurses: 33%
- STS in medical students<sup>8,9</sup>
  - Protective factors
  - Risk factors



## **Aims**

- To determine if STS is present among third year medical students at the University of Colorado School of Medicine
- 2. To assess how the prevalence may vary as students progress through their third-year clerkships
- To investigate how the type of curriculum (LIC versus traditional) contributes to the development or progression of these symptoms



## Methods

- Study participants
  - Third year medical students 2020-2021 (n = 190)
  - LIC students
  - Non-LIC students
- Survey administration
  - June, October, January, April
- STSS Scale<sup>6</sup>
- Data Analysis
  - Multilevel growth modeling

#### STSS SCALE

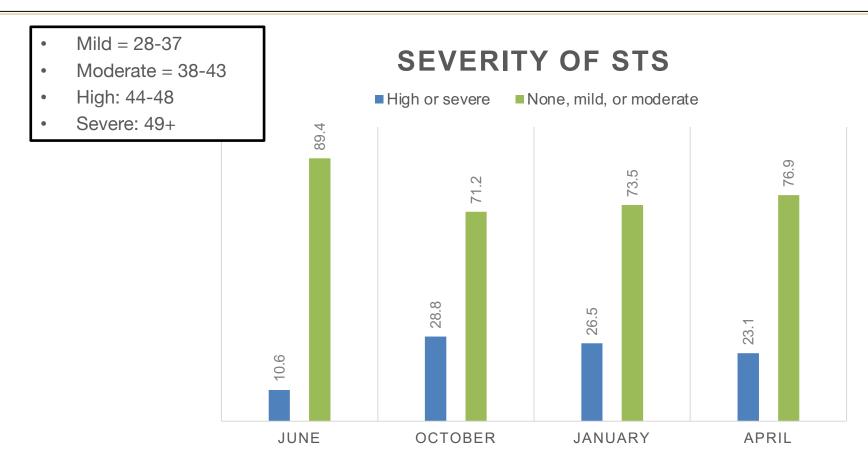
For each statement below, indicate how frequently the statement was true for you in the past seven days (never, rarely, occasionally, often, very often).

- 1. I felt emotionally numb.
- 2. My heart started pounding when I thought about my work with patients.
- 3. It seemed as if I was reliving the trauma(s) experienced by my patient(s).
- 4. I had trouble sleeping.
- 5. I felt discouraged about the future.
- 6. Reminders of my work with patients upset me.
- 7. I had little interest in being around others.
- 8. I felt jumpy.
- 9. I was less active than usual.
- 10. I thought about my work with patients when I didn't intend to.
- 11. I had trouble concentrating.
- 12. I avoided people, places, or things that reminded me of my work with patients.
- 13. I had disturbing dreams about my work with patients.
- 14. I wanted to avoid working with some patients.
- 15. I was easily annoyed.
- 16. I expected something bad to happen.
- 17. I noticed gaps in my memory about patient sessions.

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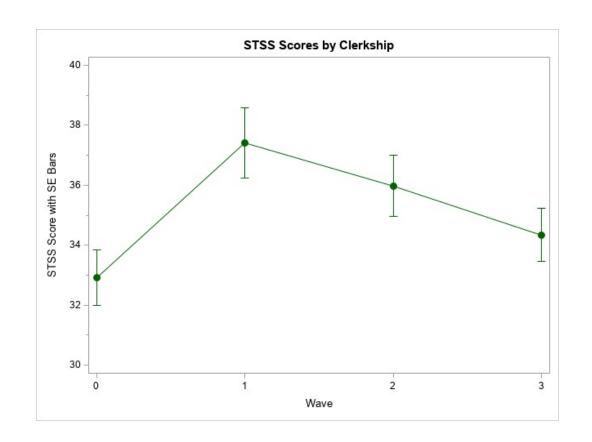
## Results

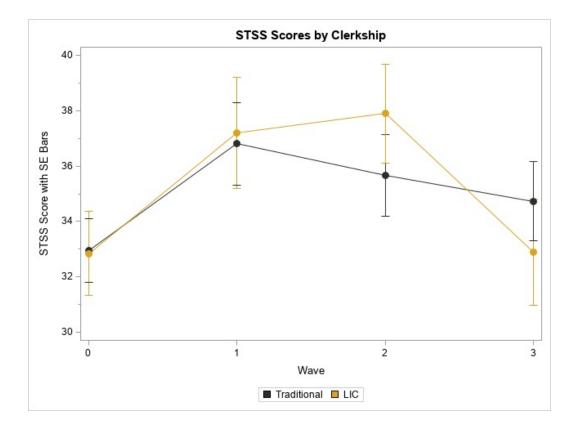


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## Results





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# Discussion & Implications

- Overall STS rates among medical students
  - Trajectory over time
  - LIC participation
- Limitations
  - COVID-19 pandemic
- Future directions
  - STS by subcategory (intrusion, avoidance, arousal)
  - Interventions



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# **THANK YOU!**

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