# How can academic educators rethink teaching and learning to better support student wellbeing?

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# Mental Health of Medical Students in the US: A Somewhat Grim Picture

## Mental Health of Medical Students in the US: A Somewhat Grim Picture

Depression rates 20-30%
Anxiety and burnout rates greater than 50%
Suicidal ideation rate 11%

## Saint Louis University Medical Student Mental Health

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Moderate- Severe Depression Symptoms (Percent of Class) at end of year

	MS1	MS2
2008 Pre-change	27%	28%
2009 Pre-change	27%	35%

### Saint Louis University Medical Student Mental Health

Moderate- Severe Anxiety Symptoms (Percent of Class) at end of year

	MS1	MS2
2008 Pre-change	56%	58%
2009 Pre-change	54%	61%

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Changes implemented over the past seven years- were guided by students' perceptions of stressors and were evidence-based whenever possible

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2015- Focused support of second year students facing their national board exam

## Impact of Curricular Changes in Years 1 and 2

## Moderate- Severe Depression Symptoms (Percent of Class) at end of year

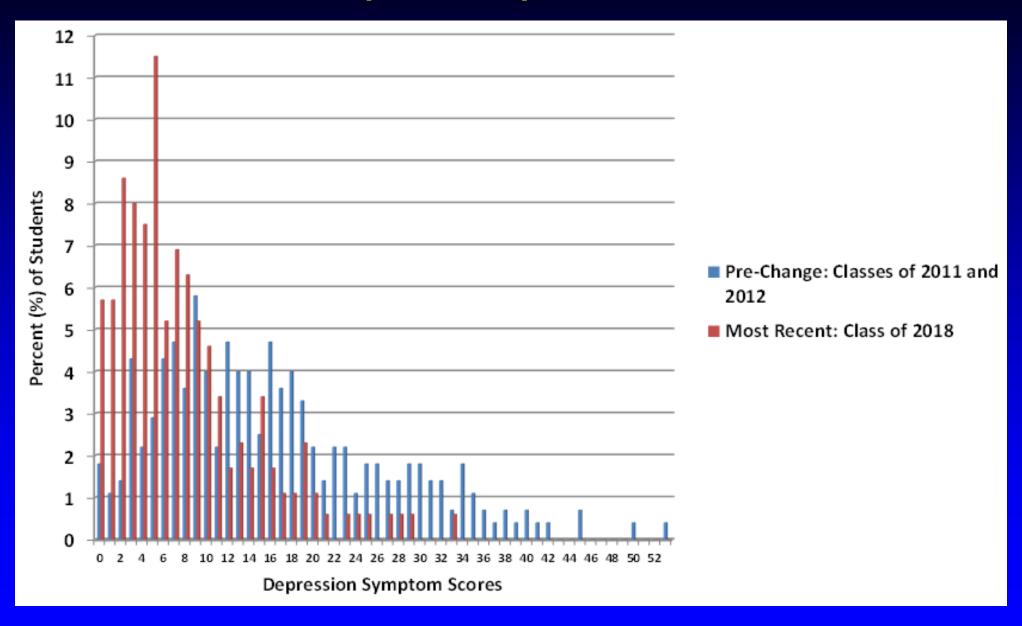
	MS1	MS2
2008 Pre-change	27%	28%
2009 Pre-change	27%	35%
2010 Post-change	19%	17%
2011 Post-change	18%	18%
2012 Post-change	11%	16%
2013 Post-change	14%	17%
2014 Post-change	8%	21%
2015 Post-change	4%	20%
2016 Post-change	6%	6%

## Impact of Curricular Changes in Years 1 and 2

## Moderate- Severe Anxiety Symptoms (Percent of Class) at end of year

	MS1	MS2
2008 Pre-change	56%	58%
2009 Pre-change	54%	61%
2010 Post-change	44%	61%
2011 Post-change	30%	39%
2012 Post-change	31%	46%
2013 Post-change	43%	44%
2014 Post-change	23%	47%
2015 Post-change	14%	47%
2016 Post-change	14%	20%

### **End-of-year 1 Depression Scores**



# External Bench-marking Association of American Medical Colleges Year 2 Questionnaire

# External Bench-marking AAMC Year 2 Questionnaire Results

	National	SLU
<b>Emotional Climate</b>	9.2	10.8
Student-fac. Interaction	14.8	16.0
Quality of life	40.1	45.5
Perceived stress	5.8	4.7
Disengagement	9.7	8.2
Exhaustion	11.8	9.3

## Association of American Medical Colleges Year 2 Questionnaire

My medical school has done a good job of fostering and nurturing my development as a person.

Strongly agree to strongly disagree

### Year 2 Questionnaire

My medical school has done a good job of fostering and nurturing my development as a person.

Strongly agree or agree National- 70.7% SLU- 92.3%

## Impact of Curricular Changes in Years 1 and 2

But what happened to academic performance???

## Impact of Curricular Changes in Years 1 and 2

Performance in Years 1 and 2

No decrease in mean exam scores or increase in failure rate in courses.

Mean national board scores have shown significant increase



# Mindfulness, Metacognition, and Resilience

### Mindfulness

Paying attention in a particular way: on purpose, in the present moment, and nonjudgmentally.

## **Mindfulness**

How to cultivate
Formal practice
Informal practice

## Metacognition

**Cognitive restructuring** 

Cognitive restructuring
Risks of maladaptive perfectionism

**Cognitive restructuring Negativity bias** 

Cognitive restructuring
Negativity bias
Optimistic versus pessimistic explanatory styles

Cognitive restructuring
Negativity bias
Optimistic versus pessimistic explanatory styles
Positive emotions

- **Cognitive restructuring**
- **Negativity bias**
- Optimistic versus pessimistic explanatory styles
- **Positive emotions**
- **Emotional self-regulation**

#### Resilience

**Cognitive restructuring** 

**Negativity bias** 

Optimistic versus pessimistic explanatory styles

**Positive emotions** 

**Emotional self-regulation** 

**Investing in well-being** 

#### Resilience

Cognitive restructuring
Negativity bias
Optimistic versus pessimistic explanatory styles
Positive emotions
Emotional self-regulation
Investing in well-being
Finding meaning in life

Need for measurement of mental health

Need for measurement
Can't resilience our way out of this

**Need for measurement** 

Can't resilience our way out of this

Need to look at and change the environment

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Help students develop skills of meta-cognition

# David Foster Wallace Kenyon College Commencement Address

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"I have come gradually to understand that the liberal-arts cliche about "teaching you how to think" is actually shorthand for a much deeper, more serious idea: "Learning how to think" really means learning how to exercise some control over how and what you think. It means being conscious and aware enough to choose what you pay attention to and to choose how you construct meaning from experience."

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Recognize risk of thinking of mental health issues as disease/illness

Help students develop skills of meta-cognition Help students find meaning in their lives

# **Viktor Frankl**

### Viktor Frankl

"There is nothing in the world, I venture to say, that would so effectively help one to survive even the worst conditions as the knowledge that there is a meaning in one's life. There is much wisdom in the words of Nietzsche: "He who has a why to live for can bear almost any how."

