

# TODAY'S FOCUS

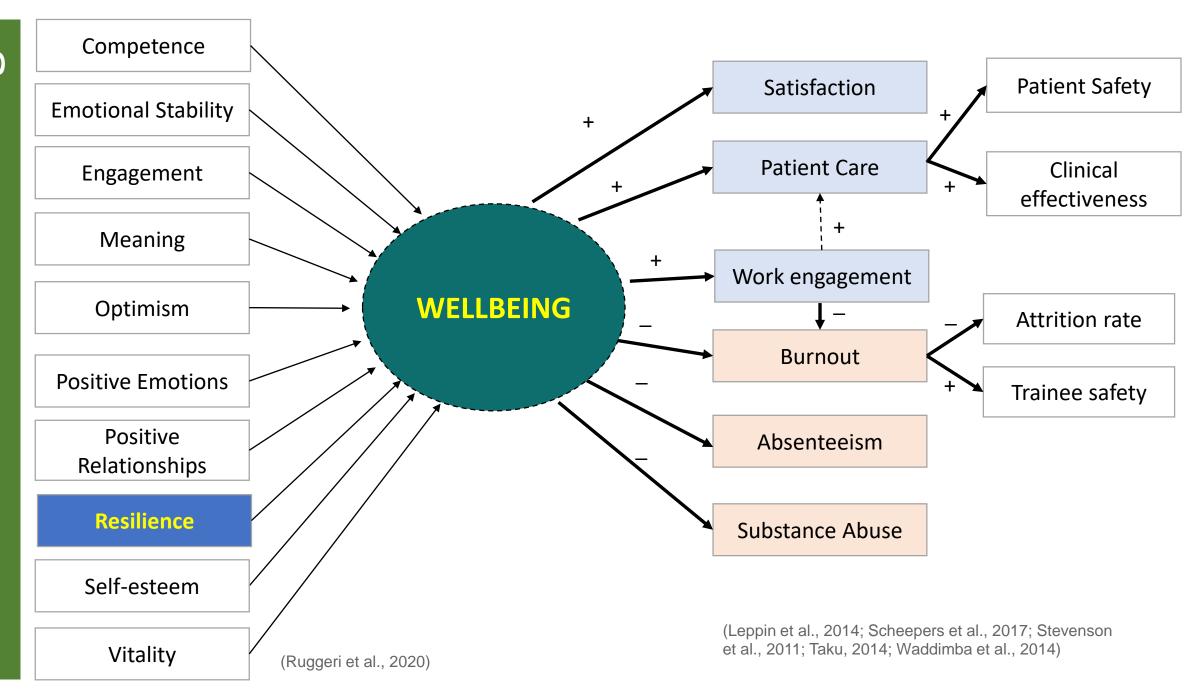


## Reflection on Well-Being

No	Wellbeing Statement	Rating Scale			
1	I often feel a sense of accomplishment from the activities I engage in	1	2	3	4
2	The amount of time I feel calm and peaceful in my daily life is significant	1	2	3	4
3	I am frequently fully engaged in my current tasks	1	2	3	4
4	I feel that the things I do in my life have value and are meaningful			3	4
5	My general tendency is to have positive expectations and hope for the future		2	3	4
6	My overall level of happiness, considering all aspects of my life, is high		2	3	4
7	The level of support and help I receive from the people I am close to when I need it is substantial	1	2	3	4
8	My ability to bounce back and recover from challenging or adverse situations and grow stronger is notable	1	2	3	4
9	I feel very positive about myself	1	2	3	4
10	The amount of time I experience a high level of energy is considerable	1	2	3	4

Please indicate the extent to which you agree with the following statements based on your experiences.

- 1 Strongly Disagree
- 2 Disagree
- 3 Agree
- 4 Strongly Agree



## The Evolution of Resilience Concepts

## 1<sup>st</sup> Wave

Resilience is seen as a stable trait

A consistent characteristic, demonstrated through repeated observations of positive accomplishments in individuals identified as "survivors," "stress-resistant," or "resilient.



## 2<sup>nd</sup> Wave

Resilience is seen as a dynamic process

Resilience development through the process of coping with adversities that results in a better outcome.



## 3<sup>rd</sup> Wave

Resilience is seen as multiple dynamic processes that shape resilience development

Identification of the forces that drive individuals to resilience reintegration.



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Received: 12-07-2021 Accepted: 15-11-2021 Online: 30-03-2022 Evolution of Resilience Construct, Its Distinction with Hardiness, Mental Toughness, Work Engagement and Grit, and Implications to Future Healthcare Research

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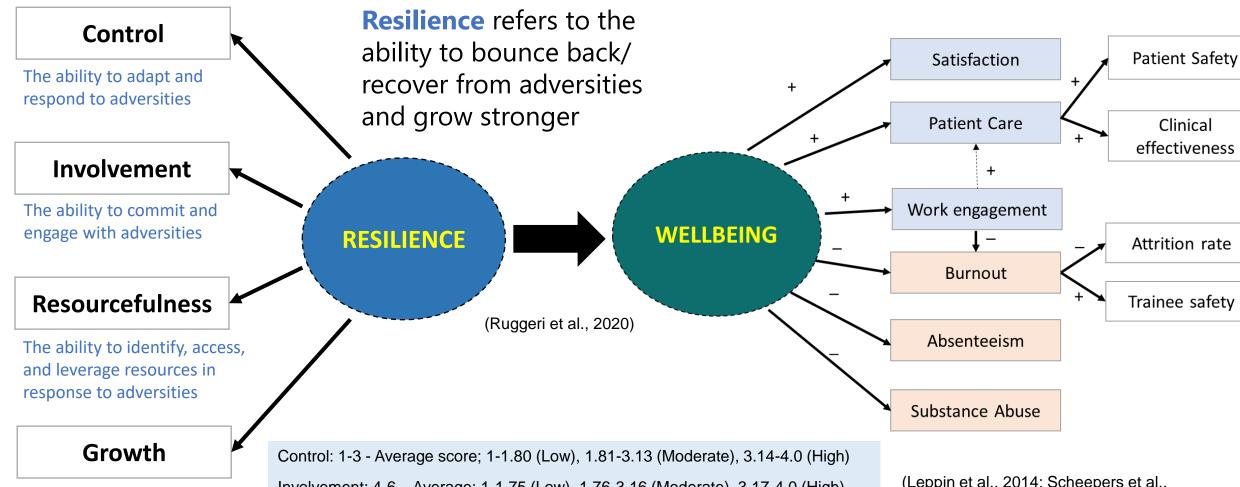
Figure 1: Relationship between resilience and related concepts.

## Reflection on Resilience

No	Resilience Statement	Rating Scale			
1	I can stay calm in hard situations	1	2	3	4
2	I can handle unpleasant feelings	1	2	3	4
3	I can control my anger	1	2	3	4
4	I can adapt to change at work situations		2	3	4
5	People always believe in me to make difficult decision	1	2	3	4
6	I have good coping skills when dealing with stress	1	2	3	4
7	I know who to talk to when I have a problem	1	2	3	4
8	I know where to go if I need help	1	2	3	4
9	I always have someone by my side when I have problems	1	2	3	4
10	I believe everything happens for a reason	1	2	3	4
11	When I face new situations, I will learn from it	1	2	3	4
12	I believe by helping others, I am helping myself too	1	2	3	4

Please indicate the extent to which you agree with the following statements based on your experiences.

- 1 Strongly Disagree
- 2 Disagree
- 3 Agree
- 4 Strongly Agree



The ability to take adversities as opportunities for self-development and learning

(Wadi et al, 2020, Rahman et al, 2021) Involvement: 4-6 – Average; 1-1.75 (Low), 1.76-3.16 (Moderate), 3.17-4.0 (High)

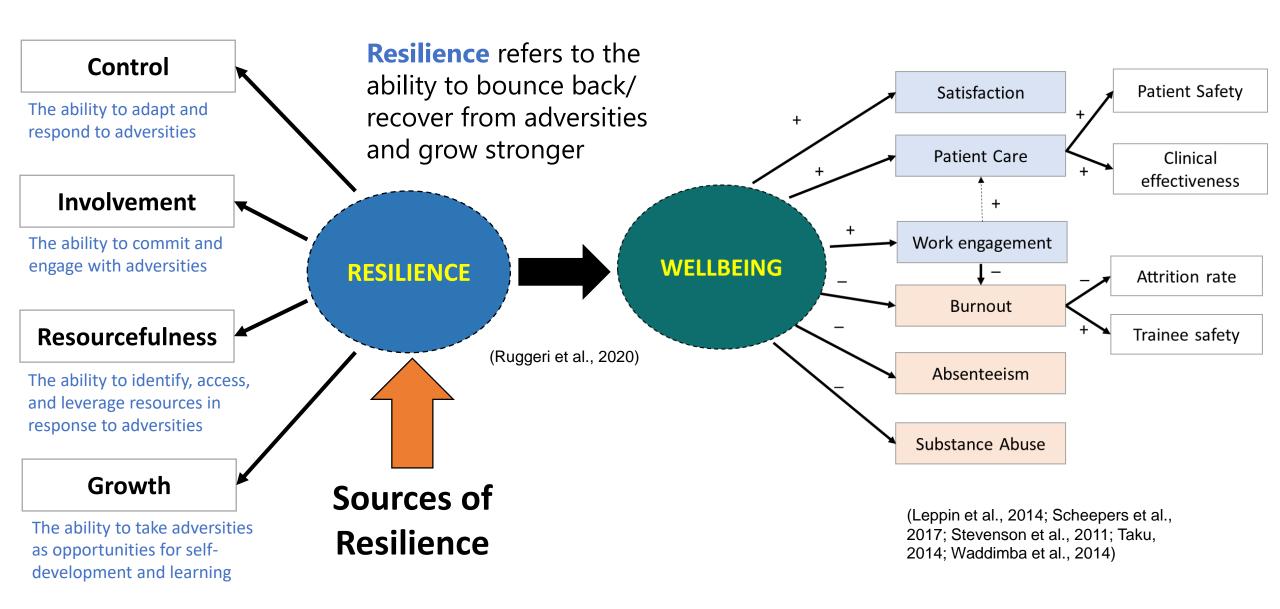
Resourcefulness: 7-9 – Average; 1-1.83 (Low), 1.84-3.0 (Moderate), 3.01-4.0 (High)

Growth: 10-12 - Average; 1-1.75 (Low), 1.76-3.0 (Moderate), 3.01-4.0 (High)

Global: 1-12 – Average; 1-1.78 (Low),1.79-3.19 (Moderate), 3.20-4.0 (High)

(Leppin et al., 2014; Scheepers et al., 2017; Stevenson et al., 2011; Taku,

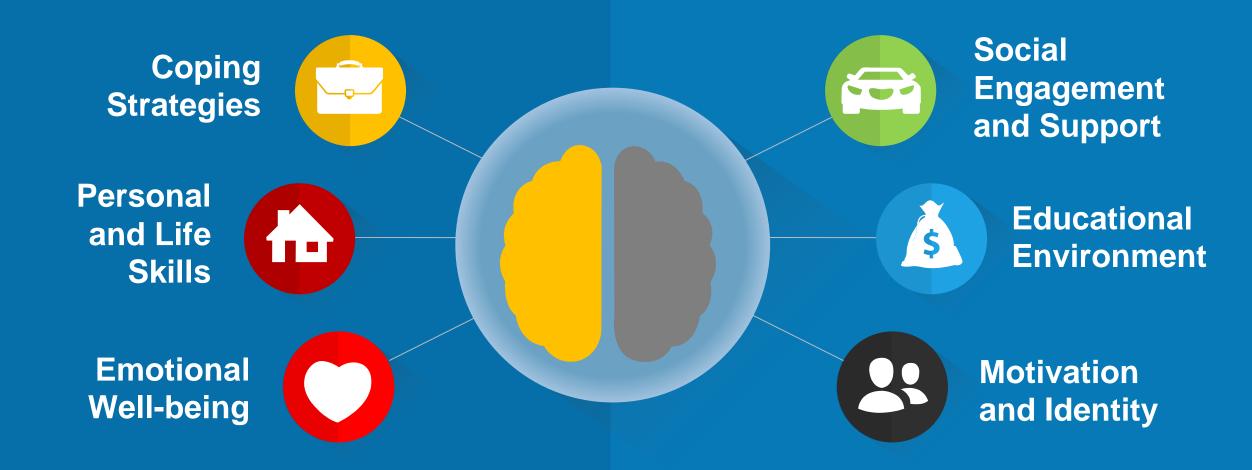
2014; Waddimba et al., 2014)



(Wadi et al, 2020, Rahman et al, 2021)

## **CONTROL INVOLVEMENT** The ability to adapt and The ability to commit and respond to adversities engage with adversities **SOURCES OF RESILIENCE** The ability to take adversities as opportunities The ability to identify, access, and leverage for self-development and learning resources in response to adversities **RESOURCEFULNESS GROWTH**

## Six Sources of Resilience





## **Coping Strategies**

### **Increased Resilience**

Flexibility & involvement (Neumann et al., 1990)

Positive attitude & feeling toward challenges (Cazan, 2015)

Task-oriented coping (Watson et al., 2008)



### **Reduced Resilience**

Emotion-oriented coping (Watson et al., 2008)

Avoidance coping (Gibbons, 2010)



## Personal and Life Skills

#### **Increased Resilience**

Self-efficacy (Neumann, 1990; Yang, 2004; Gibbons, 2004; Yang et al., 2005, Cazan, 2015)

Commitment & compassion (Neumann, 1990; Kyeong, 2013)

Positive life events (Dyrbye et al., 2009, 2010; Capri et al., 2012)

Dispositional control, self-esteem • & self-oriented perfectionism (Gibbons, 2010; Skodova, 2013; Chang et al, 2015)

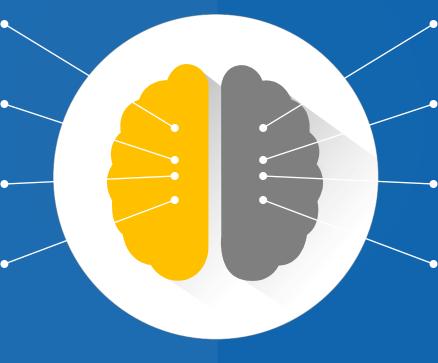
#### Reduced Resilience

Negative life events (Dyrbye et al., 2006; Dyrbye et al, 2009)

Intention to leave the course or profession (Dyrbye et al., 2009; Moneta, 2011)

Lack of confidence in skills (Chang et al., 2015)

Negative self-judgment – being harsh to self in time of suffering (Beaumont, 2016)





## **Emotional Well-being**

#### **Increased Resilience**

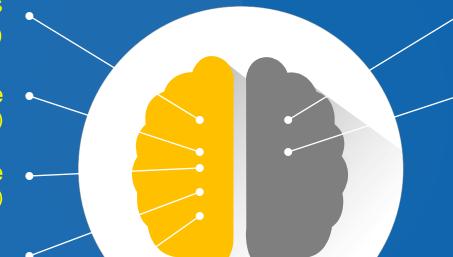
Psychological wellbeing - less stress (Dyrbye et al., 2010; Kyeong, 2013)

Less fatigue (Dyrbye et al., 2010)

Emotional intelligence (Cazan, 2015)

Vacation days (Howard-Hamilton et al., 1998)

High sleep quality (Rella et al., 2008)



### **Reduced Resilience**

Low motivation to learning (Tukaev et al., 2013)

Unfavorable stress (Watson et al., 2008)



## Social Engagement and Support

#### **Increased Resilience**

Support uplifts (Gibbon, 2010)

Social support (Dyrbye et al., 2010; Yeang, 2004; Yang & Farn, 2005)

Engage with social activities (Fares et al., 2016)

Music-related activities (Fares et al., 2016)

Femininity – sex-role socialization (Atalayin et al., 2015)

#### Reduced Resilience

Lack of social integration & competence (Pohlmann et al., 2005)

In an unhealthy relationship (Fares et al., 2016)

Living with relative (Fares et al., 2016)

Socially prescribed perfectionism (Chang et al., 2015)

Living away from family (Atalayin et al., 2015)



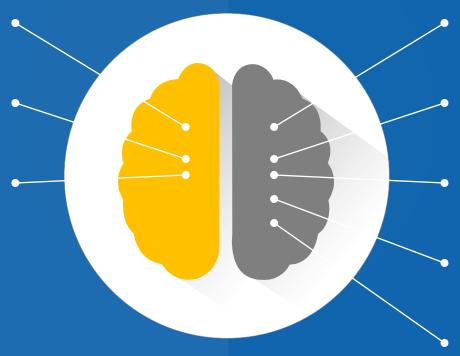
## **Educational Environment**

#### **Increased Resilience**

Psychological need satisfaction – autonomy, competence & relatedness (Sulea et al., 2015)

Academic satisfaction (Atalayin et al., 2015)

Positive learning climate (Dyrbye et al., 2009)



#### Reduced Resilience

High course load (Yang, 2004; Pohlmann, 2005)

Hospital ward rotation, overnight call & placement hassles (Dyrbye et al., 2009; Gibbons, 2010)

Excessive workload (Atalayin et al., 2015; Pohlmann, 2005)

Dissatisfaction with learning support (Dyrbye et al., 2009; Chang et al., 2015)

Course organization, teaching & learning hassles (Gibbons, 2010)



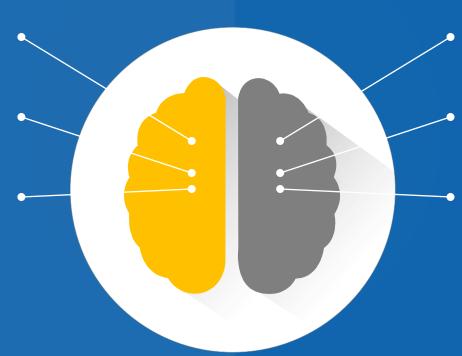
## **Motivation and Identity**

#### **Increased Resilience**

Intrinsic motivation (Pisarik, 2009)

Need for achievement (Moneta, 2011)

Learning motivation (Cazan, 2015)



### **Reduced Resilience**

Amotivation & external regulation (Pisarik, 2009)

Extrinsic motivation (Chang et al., 2015)

The choice of a specialty with a high income (Enoch et al., 2013)

**Academic stress** directly contribute .20 Neuroticism Academic Stress to psychological distress & burnout .38 Anxiety Personal Burnout .34 Burnout Psychological Work\_Burnout Overall **Distress** -.39 Depression Client\_Burnout ( e3 ) .30 **Emotional** El is a protective **El positively** Intelligence factor for burnout contributed to (reduce burnout) 1.07 resilience (Trigueros **(**e10) et al, 2020) 1.14 Personal Competence Social Competence

**Fig. 2** Structural equation modelling (standardised estimates) for the mediating effects of academic stress, neuroticism, and emotional intelligence on the psychological distress-burnout relationship. (e = error; the decimal value estimates contribution of an item to the construct's variance)

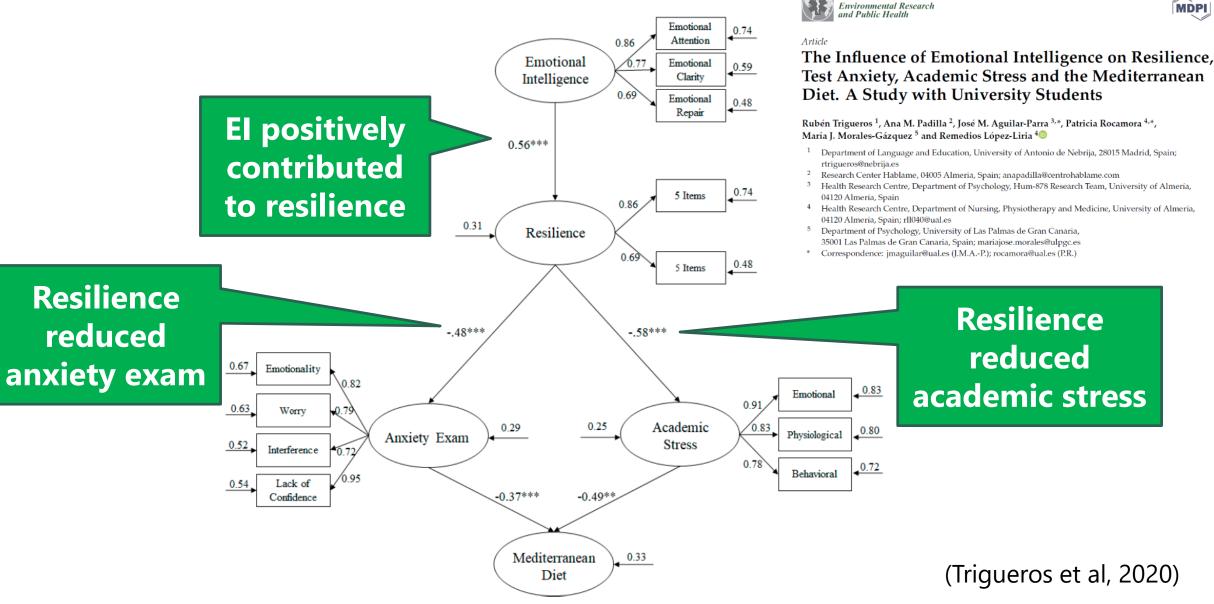
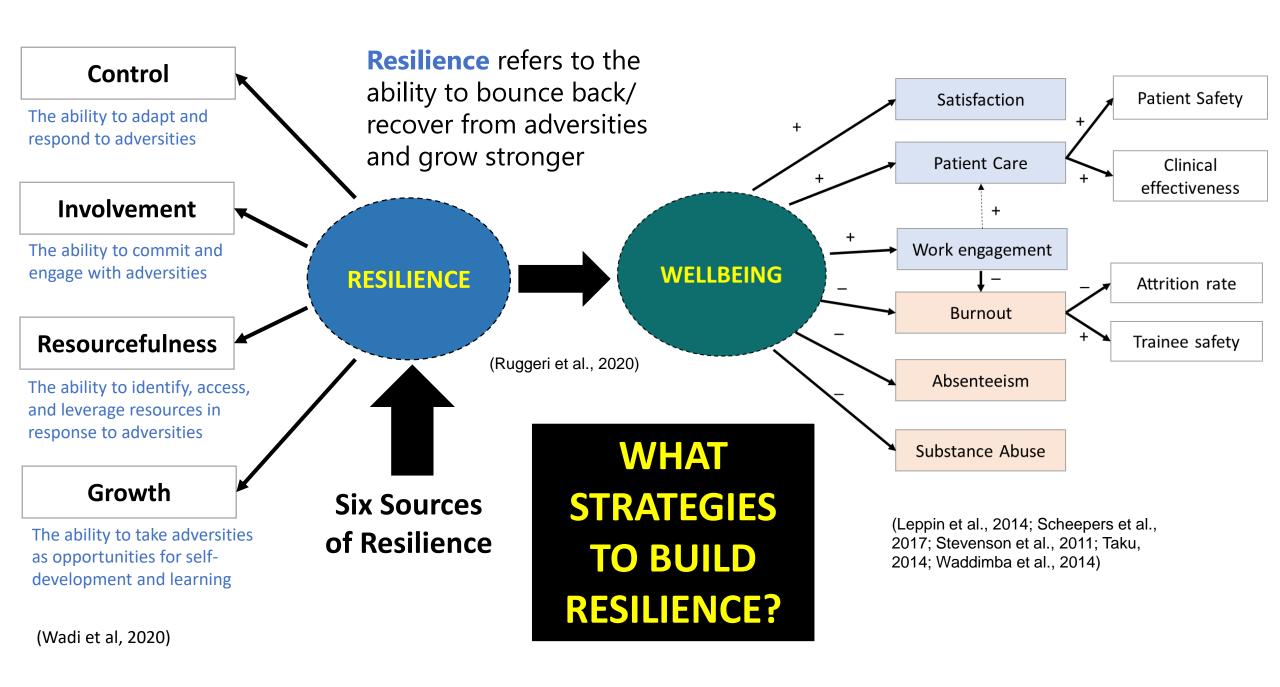


Figure 3. Relationship between variables through a structural equation model (SEM). All the relationships are significant, showing the variance on the small arrows. Note: \*\*\* p < 0.001; \*\* p < 0.01.

MDPI

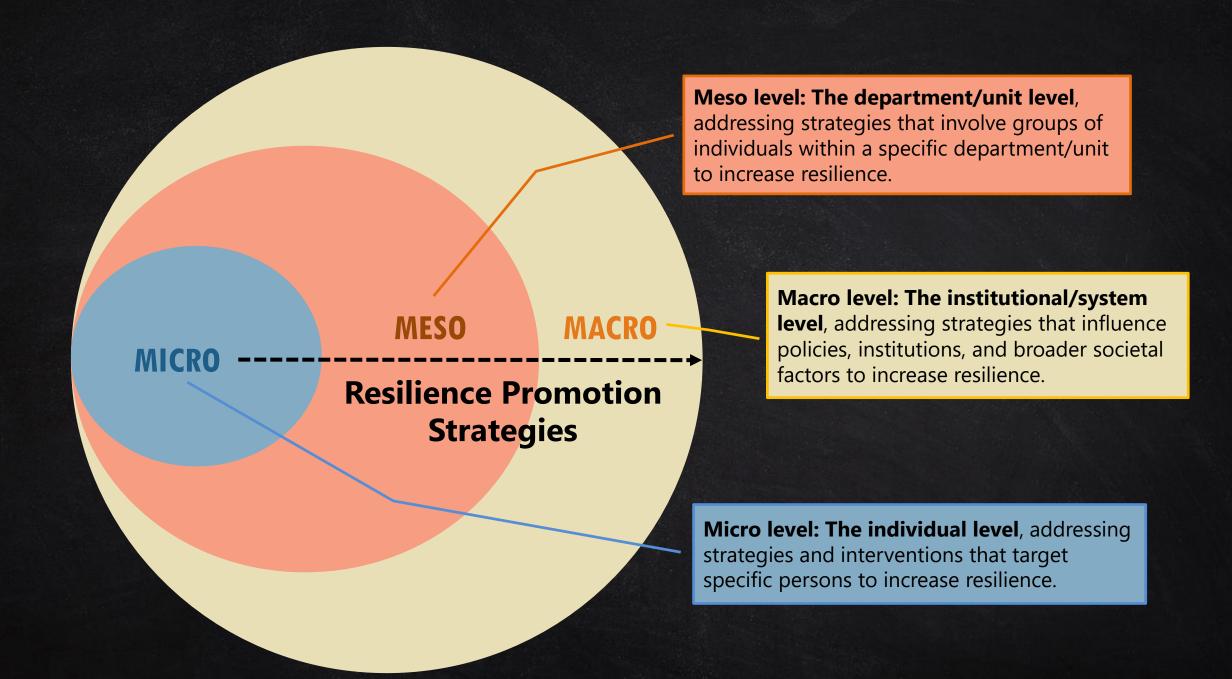
Test Anxiety, Academic Stress and the Mediterranean

International Journal of



## **CONTROL INVOLVEMENT** The ability to adapt and The ability to commit and respond to adversities engage with adversities **RESILIENCE STRATEGIES** The ability to take adversities as opportunities The ability to identify, access, and leverage for self-development and learning resources in response to adversities **RESOURCEFULNESS GROWTH**





## A Resilience Promotion Strategy Framework

Resilience
promotion is
interconnected at all
levels; efforts at one
level can positively
impact others.

#### **Macro level (Institutional/System):**

- Social safety nets
- Counseling services
- Accessible wellbeing centers
- Cultivate supportive relationships
- Wellbeing policies and campaigns

#### **Meso level (Departmental):**

- Incorporate feedback loops
- Promote social connectedness
- Flexible work/study arrangement
- Establish peer support network/group
- Professional development opportunities

#### 'Clients as Partners'

Clients act as contributor, supporter or advocator for policies and campaigns that promote resilience at the institutional or wider level.

Engage clients in the development of resilience promotion strategies. Get feedback from them on the effectiveness of the efforts.

#### Micro level (Individual):

- Coping skills
- Resilience skills
- Emotional intelligence
- Stress management skills

Collaboratively develop resilience plans with individual client. Involve them in decision-making processes regarding their well-being.

## Implications on Medical Education Facets



## Implications on Medical Education Facets



Effectiveness of universal programmes for the prevention of suicidal ideation, behaviour and mental ill health in medical students: a systematic review and meta-analysis

Katrina Witt, 1.2 Alexandra Boland, Michelle Lamblin, Patrick D McGorry, 3.3 Benjamin Veness, Andrea Cipriani, 5 Keith Hawton, Samuel Harvey, Helen Christensen, No Robinson

Additional material is published online only. To view please visit the journal online (http://dx.doi.org/10.1136/ ebmental-2019-300082).

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#### ABSTRACT

Question A growing body of work suggests that medical students may be particularly at risk of mental ill health, suicidal ideation and behaviour, resulting in recent calls to develop interventions to prevent these outcomes. However, few reviews have synthesised the current evidence base regarding the effectiveness of these interventions and provided guidance to improve future intervention efforts.

Study selection and analysis The authors conducted a systematic review to identify studies of any design reporting the effectiveness of any universal intervention to address these outcomes in medical students. Embase, MEDUNE and PsycINFO databases were searched from their respective start dates until 1 December 2017.

Findings Data from 39 studies were included. Most investigated the effectiveness of relatively brief interventions designed to reduce stress; most commonly using mindfulness-based or guided meditation approaches. Only one implemented an intervention procifically designed to address suicidal idealizes:

#### Summary box

#### What is already known about this subject?

- Higher rates of suicidal ideation and attempted suicide have been reported in medical students as compared with age-matched members of the general population.
- Medical students face a unique range of personal and professional stressors.
- However, medical students are less likely to access services despite better knowledge of appropriate treatment options for mental illness and suicidal ideation and/or behaviour.

#### What are the new findings?

 Relatively brief mindfulness-based stress management interventions may be effective in reducing anxiety, depression and stress in medical students in the short term.





Journal of Affective Disorders

Volume 257, 1 October 2019, Pages 568-584



Review article

A systematic review of prevention programs targeting depression, anxiety, and stress in university students

Leslie R. Rith-Najarian a A ⊠, Maya M. Boustani b, Bruce F. Chorpita a

Show more

https://doi.org/10.1016/j.jad.2019.06.035

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# The DEAL Program

Single 4-hour workshop
Psychoeducational and Problemoriented Stress Management Program

Session one - psychoeducation on stress, stressors, and coping mechanisms

Session two - learning problem-solving techniques and coping strategies to manage stress.

**Session three** - group-based exercises to practice these strategies

**Session four** - sharing experiences

(Rith-Najarian et al, J Affective Disorder, 2019; 257, 568-584; Witt K, et al. *Evid Based Mental Health*, BMJ, 2019;22:84–90)



# The DEAL PROGRAM

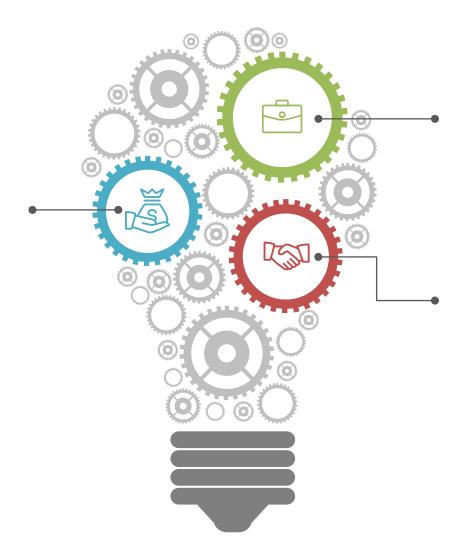
Training of Trainers



## **EXPECTATIONS**

#### **#1 PARTICIPATE**

Participate in the DEAL steps actively with full attention



#### **#2 REFLECT**

Reflect on the DEAL steps

#### **#3 PRACTICE**

Practice on the DEAL steps







Have you recently Adakah baru-baru ini anda	Kolum 1	Kolum 2	Kolum 3	Kolum 4
	Not at all	No more than	Rather more	Much more
1. lost much sleep over worry?	(Tiada langsung)	usual	than usual	than usual
(kekurangan tidur kerana risau?)		(Tidak lebih dari	(Lebih dari	(Sangat lebih
	Not of oll	biasa)	biasa)	dari biasa)
2. felt constantly under strain?	Not at all (Tiada langsung)	No more than usual	Rather more than usual	Much more than usual
	(Tiada langsung)	(Tidak lebih dari		
(sentiasa merasa tertekan/tegang?)		1	(Lebih dari	(Sangat lebih
	More than	biasa) No more than	biasa) Rather less	dari biasa) Much less
3. been able to concentrate on what you are doing?	usual	usual	than usual	than usual
(boleh menumpukan perhatian kepada apa sahaja yang	(Lebih dari	(Tidak lebih dari	(Kurang dari	(Sangat kurang
dibuat/dilakukan?)	biasa)	biasa)	biasa)	dari biasa)
	More than	No more than	Rather less	Much less
4. felt that you are playing a useful part in things?	usual	usual	than usual	than usual
(rasa yang anda memainkan peranan yang berguna dalam	(Lebih dari	(Tidak lebih dari	(Kurang dari	(Sangat kurang
banyak perkara?)	biasa)	biasa)	biasa)	dari biasa)
	More than	No more than	Rather less	Much less
5. been able to face up to your problems?	usual	usual	than usual	than usual
(dapat mengatasi masalah-masalah anda?)	(Lebih dari	(Tidak lebih dari	(Kurang dari	(Sangat kurang
(dapat mengatasi masalam-masalam anaa.)	biasa)	biasa)	biasa)	dari biasa)
	More than	No more than	Rather less	Much less
6. felt capable of making decisions about things?	usual	usual	than usual	than usual
(merasa mampu membuat keputusan tentang sesuatu?)	(Lebih dari	(Tidak lebih dari	(Kurang dari	(Sangat kurang
(g,	biasa)	biasa)	biasa)	dari biasa)
7. felt you could not overcome your difficulties?	Not at all	No more than	Rather more	Much more
	(Tiada langsung)	usual	than usual	than usual
(merasa tidak mampu untuk mengatasi masalah/kesukaran		(Tidak lebih dari	(Lebih dari	(Sangat lebih
anda?)		biasa)	biasa)	dari biasa)
8. been feeling reasonably happy, all things	More than	No more than	Rather less	Much less
considered?	usual	usual	than usual	than usual
	(Lebih dari	(Tidak lebih dari	(Kurang dari	(Sangat kurang
(merasa cukup gembira dalam segala hal yang difikirkan?)	biasa)	biasa)	biasa)	dari biasa)
9. been able to enjoy your normal day to day	More than	No more than	Rather less	Much less
activities?	usual	usual	than usual	than usual
	(Lebih dari	(Tidak lebih dari	(Kurang dari	(Sangat kurang
(dapat menikmati kegiatan harian anda?)	biasa)	biasa)	biasa)	dari biasa)
	Not at all	No more than	Rather more	Much more
10. been feeling unhappy or depressed?	(Tiada langsung)	usual	than usual	than usual
(merasa tidak gembira dan sedih?)		(Tidak lebih dari	(Lebih dari	(Sangat lebih
		biasa)	biasa)	dari biasa)
44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Not at all	No more than	Rather more	Much more
11. been losing confidence in yourself?	(Tiada langsung)	usual	than usual	than usual
(telah hilang kepercayaan terhadap diri anda sendiri?)		(Tidak lebih dari	(Lebih dari	(Sangat lebih
		biasa)	biasa)	dari biasa)
40 haan thinking of very life as a constitution of the constitutio	Not at all	No more than	Rather more	Much more
12. been thinking of yourself as a worthless person?	(Tiada langsung)	usual	than usual	than usual
(memikirkan diri anda seorang yang tidak berguna?)		(Tidak lebih dari	(Lebih dari	(Sangat lebih
		biasa)	biasa)	dari biasa)

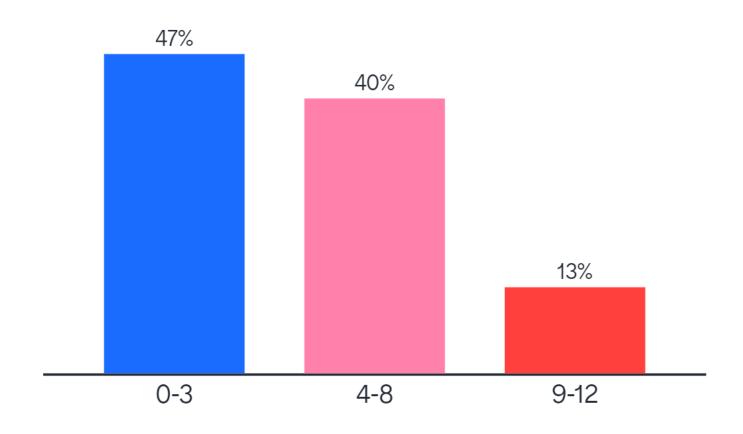
**GHQ-12** Score

0-3 = Normal stress

4-8 = Moderate distress (considering help)

9-12 = high distress (need help)

## Choose your GHQ-12 score



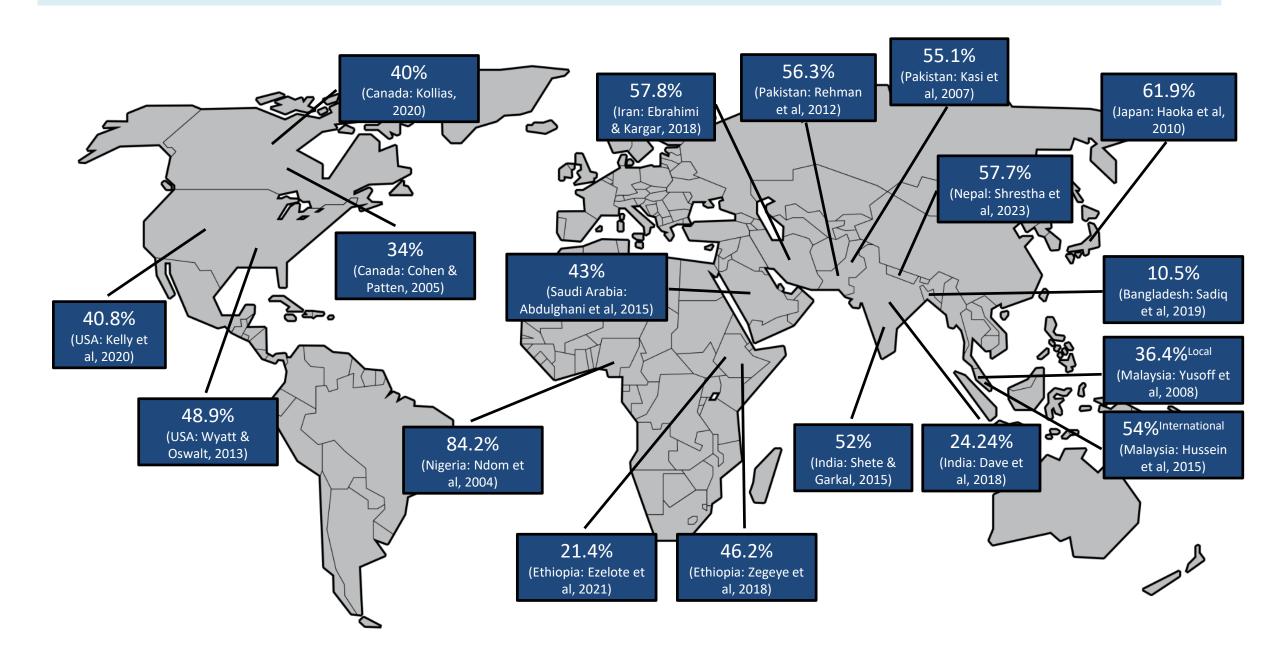




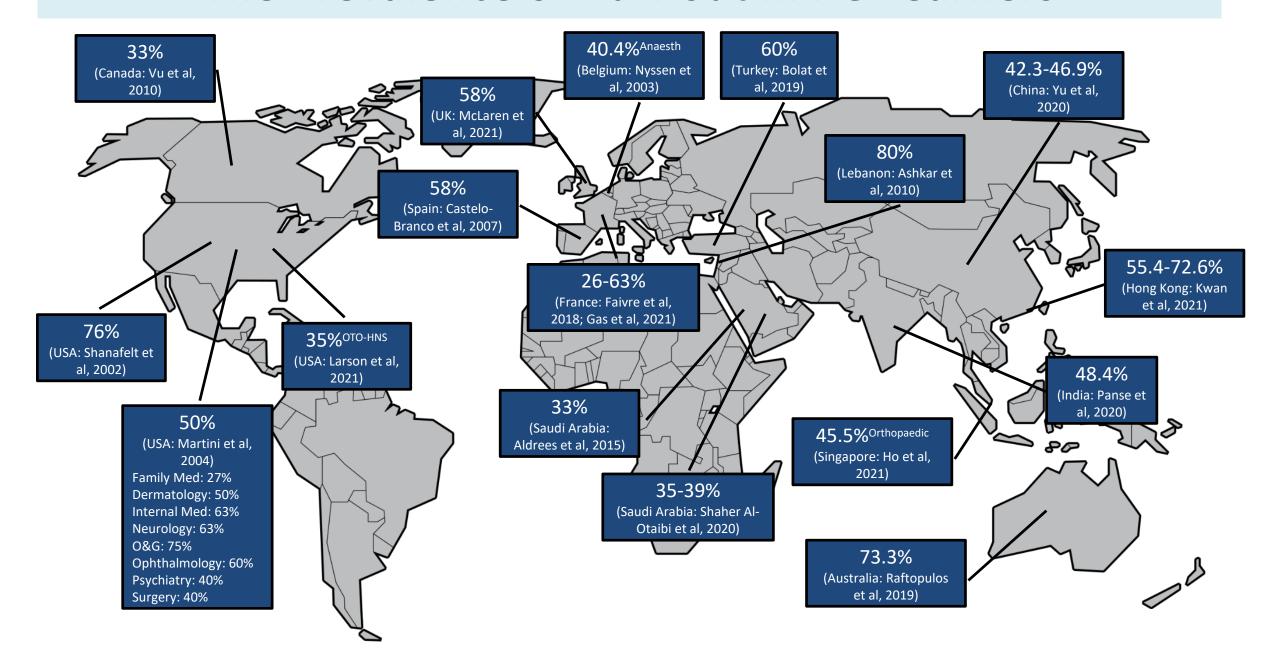
# The wellbeing is not optimal during UG medical training, especially during examination

**During Medical During Final Before Medical Examination Training Training** 4.1% 11.8-19.7% 19.9% **DISTRESS** 55.6% 41.1-57.3% **56.7% ANXIETY** 1.8% 30.0% 12.0-16.8% **DEPRESSION** 

## The Prevalence of Psychological Distress in PG Learners



### The Prevalence of Burnout in PG Learners



## Burnout mostly relate to the experience of low personal accomplishment

**Burnout** 

**Emotional Exhaustion** 

Depersonalization

Low Personal Accomplishment

43.3%

(38.6%, 48.1%)

30.7%

(27.8%, 33.9%)

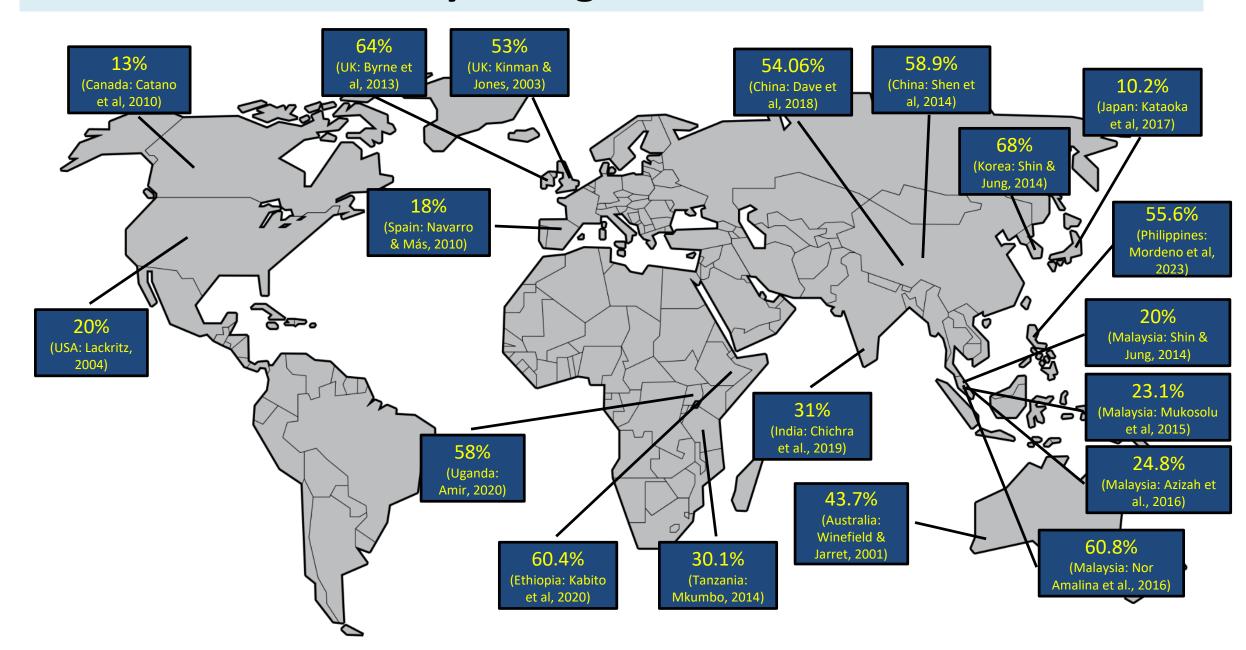
28.3%

(24.9%, 31.9%)

44.5%

(26.9%, 63.6%)

#### The Prevalence of Psychological Distress in Academic Staff



#### At least 20% of Physicians have well-being issues



Research Report

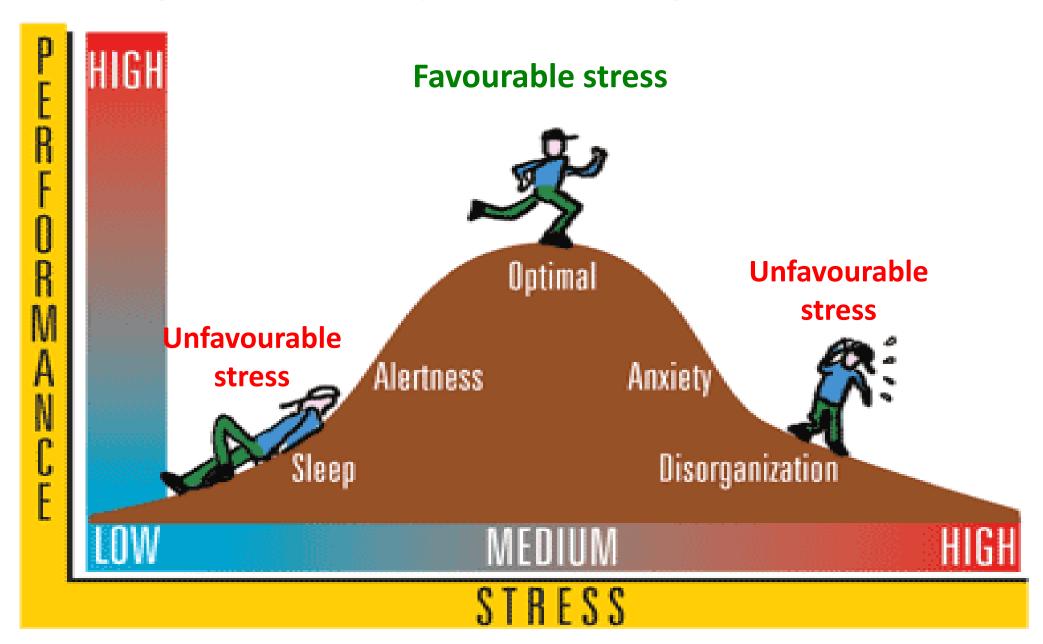
# If Every Fifth Physician Is Affected by Burnout, What About the Other Four? Resilience Strategies of Experienced Physicians

Julika Zwack, PhD, and Jochen Schweitzer, PhD

Acad Med. 2013;88:382–389.

Approximately 80% of physicians are resilience.

### Stress Performance Connection



#### Cognitive

- Memory impairment
- Indecisiveness
- Inability to concentrate
- Trouble thinking clearly
- Poor judgment
- Thinking negatively
- Racing thoughts
- Loss of objectivity

#### **Physical**

- Muscle tension
- Nausea
- Insomnia
- Chest pain
- Diarrhoea or constipation
- Headaches or backaches
- Weight gain or loss
- Frequent colds

#### **Distress Manifestations**

#### **Emotional**

- Moodiness
- Agitation
- Restlessness
- Short temper
- Irritability or impatience
- Inability to relax
- Feeling tense
- Sense of loneliness

#### **Behavioural**

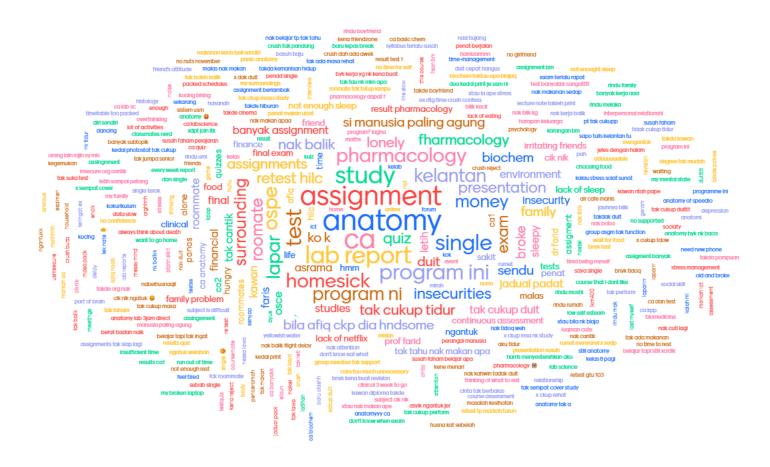
- Eating more or less
- Sleeping too much or little
- Isolating yourself from others
- Using alcohol, cigarettes
- Overdoing activities
- Teeth grinding
- Neglecting responsibilities
- Jaw clenching

## My Stressor!

List 5 main sources of stress that causing distress on you (past two weeks)

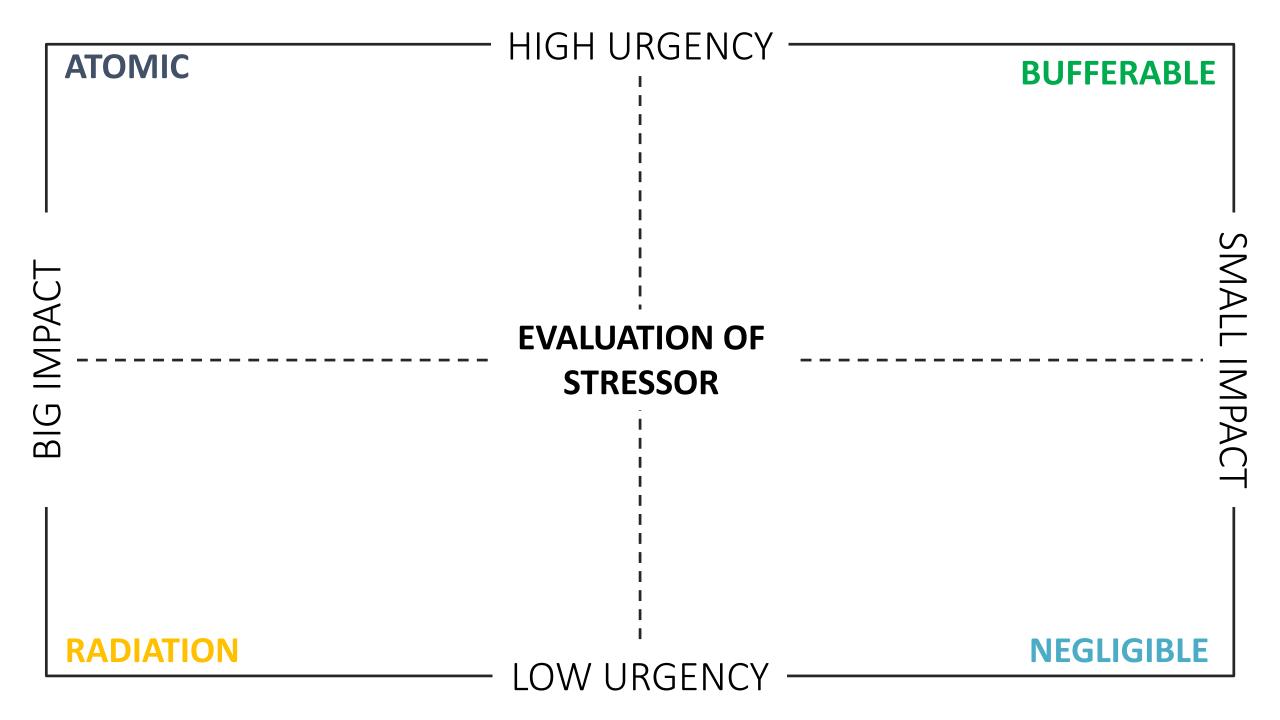
Go to www.menti.com and use the code

## Please list 5 main sources of stress that causing distress on you? 922 responses









## My Coping!

Section A	A	В	C	D	E	5
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Score						

Section B	F	G	Н	I	J
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Score					

Section C	K	L	M	N	0
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
Score					

## Go to www.menti.com and use the code

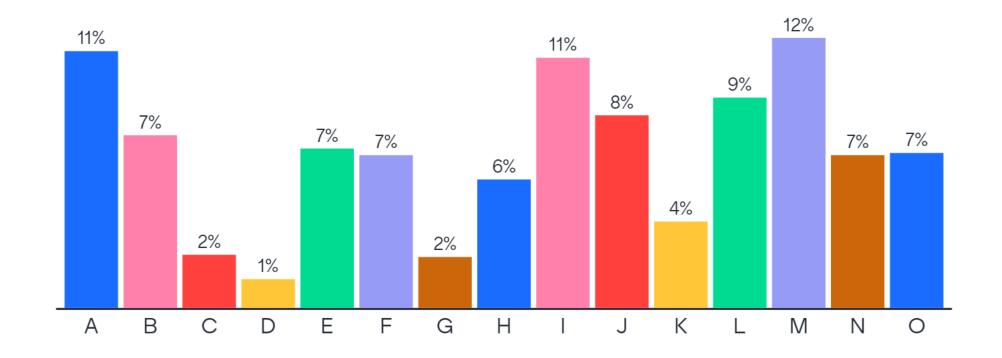
Skor	Domain
8	Very often use this strategy in dealing
7	with stress
6	It is quite common to use this strategy
5	in dealing with stress
4	Sometimes using this strategy in dealing
3	with stress
2	Very rarely use this strategy in dealing with stress

## My Coping!

## Coping Styles

Adaptive	Accommodative	Non-adaptive
(B) Active Coping	(E) Emotional support	(A) Self-distraction
(I) Positive reinterpretation	( <b>F</b> ) Social support	(C) Denial
(L) Acceptance	( <b>H</b> ) Venting of emotion	(D) Substance Abuse
(J) Planning	(K) Humor	(G) Behavioral Disengagement
(M) Religion		(N) Self-blame
		(O) Restraint coping

# Coping Strategies (the score is 6 and above)



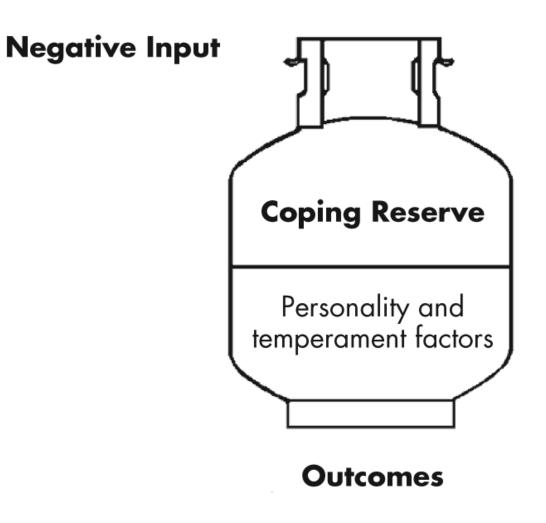




Courtesy by Dr Nurhanis	Coping Style (Carver, 1997; Baumstarck et al, 2017)	Depr	Anxiety	Stress	Burnout-P	Burnout- W	Burnout-C	CDR (Resili
Problem solving	Active coping (B)	<b>↓</b> *						0.31
	Planning (J)	<b>↓</b> *				<b>*</b>		0.35
	Restrain (O)	<b>^**</b>	<b>^**</b>	<b>^**</b>	<b>^**</b>	<b>^**</b>	<b>^</b> *	
Positive thinking	Acceptance (L)							0.29
	Humor (K)		<b>^</b> *					0.19
	Positive Reinforcement (I)	<b>↓</b> *						0.40
Seeking social support	Emotional Support (E)		<b>^**</b>	<b>\_*</b>	<b>^**</b>	<b>^</b> *		0.07
	Social Support (F)		<b>^**</b>					0.10
	Religion (M)				↓*	<b>*</b>		0.13
	Venting (H)	<b>^**</b>	<b>^**</b>	<b>^**</b>	<b>^**</b>	<b>^**</b>	<b>^</b> *	-0.13
Avoid-ant	Self-distraction (A)	<b>^**</b>	<b>^**</b>	<b>^**</b>	<b>^</b> **	<b>^**</b>	<b>^</b> *	
	Self-blame (N)	<b>^**</b>	<b>^**</b>	<b>^**</b>	<b>^</b> **	<b>^**</b>	<b>^**</b>	-0.20
	Behavioral disengagement (G)	<b>^**</b>	<b>↑</b> **	<b>^**</b>	<b>^**</b>	<b>^**</b>	<b>^**</b>	-0.37
	Denial (C)	<b>^**</b>	<b>^**</b>	<b>^**</b>	<b>^**</b>	<b>^**</b>	<b>^**</b>	-0.18
	Substance Abuse (D)	<b>^</b> *		<b>^**</b>		<b>^**</b>	<b>^**</b>	-0.15

## Let's Reflect!

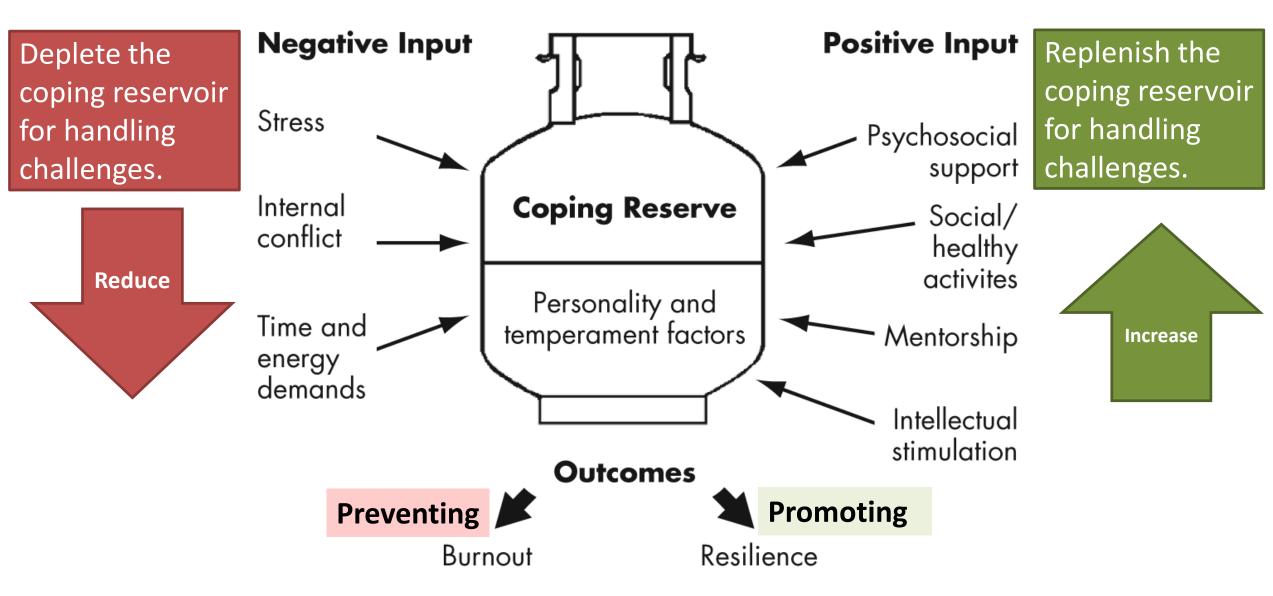
 What have you learnt from the story? Deplete the coping reservoir for handling challenges.



**Positive Input** 

Replenish the coping reservoir for handling challenges.

(Dunn et al, 2008, Academic Psychiatry)



(Dunn et al, 2008; Yusoff, 2014; Yusoff et al, 2015)

## Potential stressors

Job and training experience

– bureaucratic stressor,
academic stressors

Motivation of the students to learn medicine - drive & desire stressors

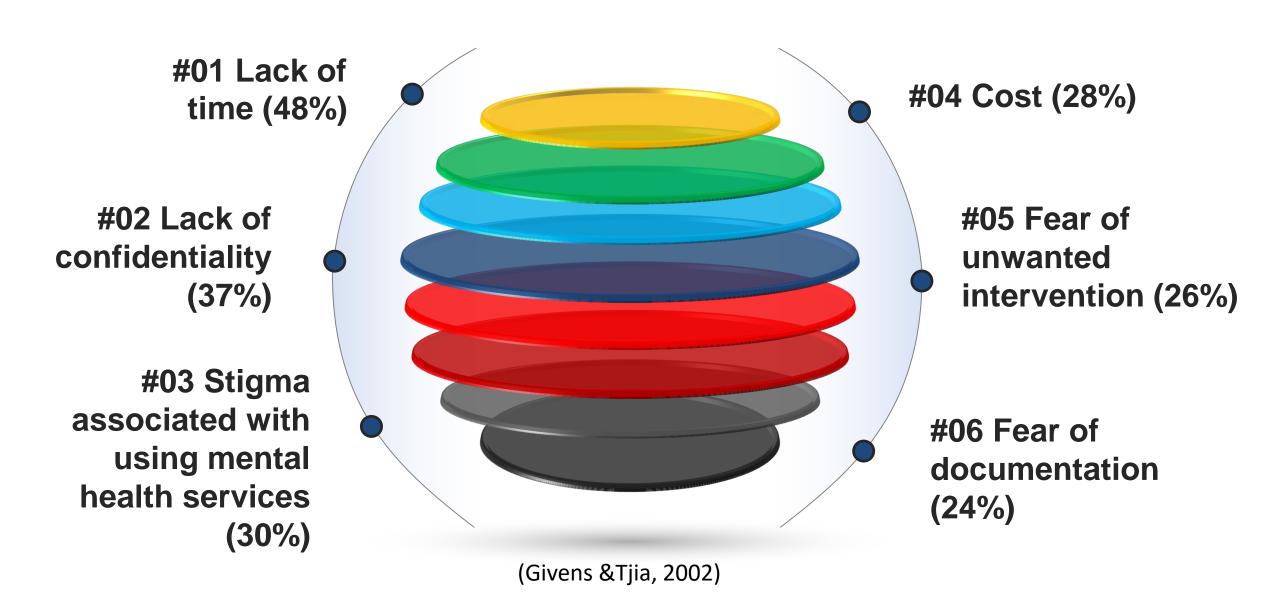


Workloads - workload stressors

Dissatisfied with reward gained compared to effort and sacrifice - Interpersonal stressors and job-prospect stressors

Social and economic conditions - Social & economic stressors

## Barriers to seek helps



Detect problems early and have positive perception/attitude/ believe toward it.

Appraise problems #01 #02 DETECTION EVALUATION of stressor of stressor DEA -BASED PRACTICE #03 #04 ACTION EARNING through selftoward reflection stressor

Learn from the problems through reflection for selfimprovement

Cope with problems positively

positively and

appropriately



Teach students to detect problems early and have positive perception/attitude/believe toward it.

#01
DETECTION
of stressor

#02

EVALUATION of stressor

Teach students to appraise problems positively and appropriately



Teach students to learn from the problems through reflection for self-improvement



#04

EARNING through selfreflection #03

ACTION

toward stressor

Teach students to cope with problems positively







According to this principle, to manage stress effectively individuals should have:

- 1) knowledge and awareness about the signs and symptoms of psychological distress;
- 2) knowledge and awareness about the potential stressors in their context;
- 3) knowledge about the effective coping strategies to handle the stressors.





According to this principle, to manage stress effectively individuals should:

- 1) learn to filter and prioritise stressors into priority based on its impact and urgency, hence appropriate solutions can be generated to handle the main and real stressors;
- 2) have healthy and positive perception towards the stressors because only a few will be the main and real stressors.





According to this principle, to manage stress effectively individuals should

- 1) use the best coping strategies to handle specific stressors;
- 2) practice coping strategies that best work in specific context;
- 3) develop personal positive coping strategies, hence similar stressors can be effectively handled in future.





According to this principle, to manage stress effectively individuals should:

- 1) learn from various stressors that provide different learning experience;
- 2) reflect on the insight gained as a result of previous stressor encounter;
- ask what else could be done to deal with a particular stressor in better ways;
- 4) use it as a self-evaluation mechanism to enhance own ability to manage stress that is well-suited with personal need, believe and context.

#### **Quantitative Data**



Reduced distress

Reduced depression

Reduced denial

Reduced self-blame

Reduced perceived academic stress

Perceived as a very useful, relevant, applicable and feasible educational strategy

Improved coping ability

To apply DEAL approach in dealing with adversities

(Yusoff et al., 2013; Yusoff & Esa, 2015; Yusoff et al., 2015)

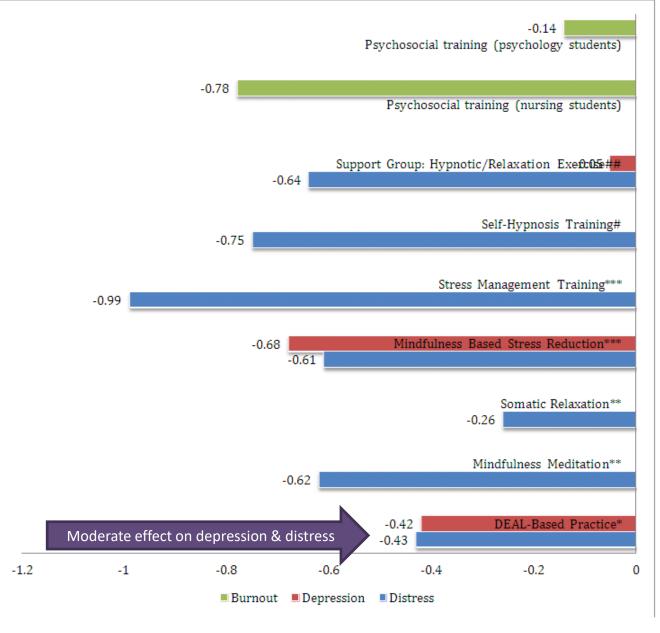
"Excellent and unexpected!! I think it will be bored like only motivation class but it was totally wrong at all. And now, I know the level of my stress and how to cope with it." Student A

"Gained a lot of knowledge what exactly stress and how to cope with it. Basically this workshop had help the student how to identify good & bad stress which is good so that the students can choose how to deal with it in right way" Student B

"I learn how to cope with stressor and the DEAL which is very useful for my future, I can detect my stress level and which aspect that I'm stressing about." Student C

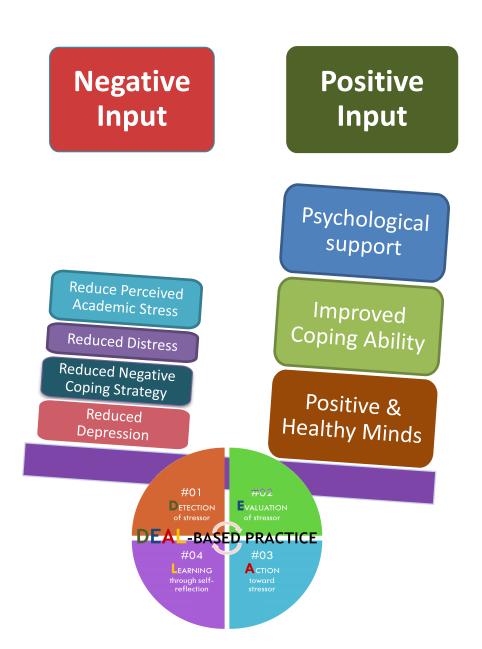
"I try to cope with my stress more positively, don't stress too much, take the stress as a challenges to make me better." Student D

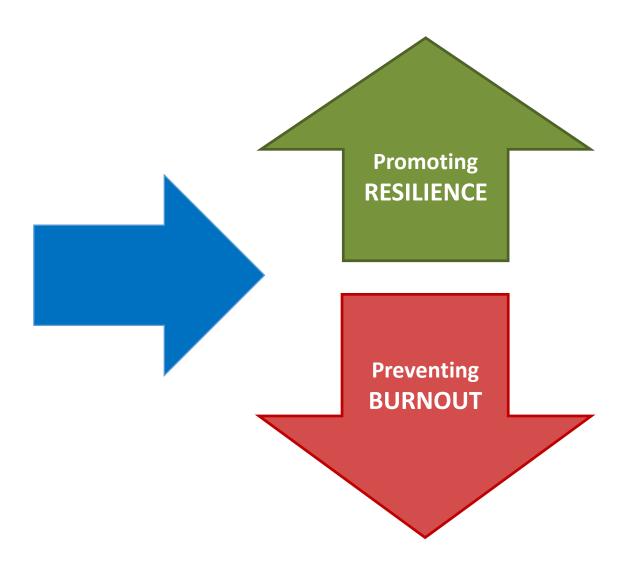
"The DEAL method, I'll try my way of thinking, detection of problems and peoples around me, I'll try to make a difference for myself in the scope of personality as a medical student that surely need to cope with a bundle of stress." Student E



\*brief (less than 2 days), \*\*short-duration (2 days to 4 weeks), \*\*\*medium-duration (more than 4 weeks and up to 8 weeks), #long-duration (more than 8 weeks) and ##other (duration was not mentioned in the articles)

Effect size comparison between different strategies to promote resilience and prevent burnout.









**DISTRESS** is part of our life that can lead to many consequences.



**DEAL** with stress (adversity) systematically and effectively.



The DEAL program is a psychoeducational and problem-oriented stress management program.

#### KEY MESSAGES FROM DEAL PRACTICE

#### Publications related to the DEAL Model:

- 1. Yusoff MSB, Esa AR. The medical student wellbeing workshop. MedEdPORTAL. 2012, Association of American Medical Colleges accessible at <a href="https://www.mededportal.org/publication/9241/">https://www.mededportal.org/publication/9241/</a>
- 2. Yusoff MSB, Esa AR. Stress management for medical students: A systematic review. Social sciences and cultural studies-issues of language, public opinion, education and welfare: IntechOpen; 2012
- 3. Yusoff MSB, Yaacob MJ, Naing NN, Esa A. An educational strategy to teaching stress management skills in medical education: the DEAL model. Int Med J. 2013;20(2):1-11.
- 4. Yusoff MSB, Yaacob MJ, Naing NN, Esa AR. A conceptual framework of stress management intervention for medical students. Education in Medicine Journal. 2013;5(3).
- 5. Yusoff MSB. Dealing with Occupational Stress A Self-Changed Model. Occupational Medicine & Health Affairs. 2013.
- 6. Yusoff MSB. Interventions on medical students' psychological health: a meta-analysis. Journal of Taibah University Medical Sciences. 2014;9(1):1-13.
- 7. Yusoff MSB, Esa AR. A DEAL-based intervention for the reduction of depression, denial, self-blame and academic stress: A randomized controlled trial. Journal of Taibah University Medical Sciences. 2015;10(1):82-92.
- 8. Yusoff MSB, Yaacob MJ, Naing NN, Esa AR. The Effectiveness of a DEAL-Based Intervention to Reduce Stress and Depression Symptoms. Education in Medicine Journal. 2015;7(1).
- 9. Yusoff MSB. Promoting Resilience and Minimising Burnout, Wellbeing in Higher Education: Cultivating a Healthy Lifestyle Among Faculty and Students: Routledge; 2018.
- 10. Yusoff MSB. What does It Take to Minimise Burnout and Build Resilience of Healthcare Learners? Preparing Healthcare Learners for a Changing World. 8: Faculty of Medicine, University of Hong Kong; 2019. p. <a href="http://tinyurl.com/y3yraorl">http://tinyurl.com/y3yraorl</a>.
- 11. Witt K, Boland A, Lamblin M, McGorry PD, Veness B, Cipriani A, et al. Effectiveness of universal programmes for the prevention of suicidal ideation, behaviour and mental ill health in medical students: a systematic review and meta-analysis. Evidence-based mental health. 2019;22(2):84-90. <a href="https://ebmh.bmj.com/content/ebmental/22/2/84.full.pdf">https://ebmh.bmj.com/content/ebmental/22/2/84.full.pdf</a>
- 12. Rith-Najarian LR, Boustani MM, Chorpita BF. A systematic review of prevention programs targeting depression, anxiety, and stress in university students. Journal of Affective Disorders. 2019.



#### TEACHING DELIVERY AWARD

Past Winner Teaching Delivery Award: Universiti Sains Malaysia, Malaysia





#### Project: Promoting Resilience and Preventing Burnout in Medical Students through the DEAL-Based Practice

Participants in the DEAL-based practice program acquire greater insight about personal ability to handle problems via self-awareness, experience, and conscious effort that allows problems to be handled in effective ways. Eventually, students achieve autonomy by developing the skills necessary efficiently deal with common problems faced in a tertiary education environment. www.usm.my







## The award goes to

Professional Resilience Skill Training (Pro-ReST): An evidence-based and feasible educational module.

Nurhanis Syazni Roslan











## GMT 110: Medical Professionalism

#### 2 credit unit

Coordinator:

Dr Nurhanis Syazni Roslan

(Dept of Medical Education)

nurhanis\_syazni@usm.my



Describe the principles of medical

## Incorporate the **DEAL-based** RESILIENCE TRAINING into this course.



professionalism perspective.



# A Community of Practice Focused on Resiliency in Graduate Nursing Students

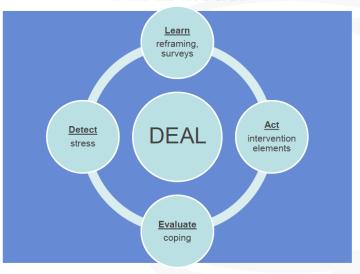


Megan Wildes, BSN, RN FNP/DNP Student, UNC-CH SON

3/3/2016



#### **DEAL Model**



Adapted by permission from Yusoff, Yaacob, Naing & Esa, 2013

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### **Book Title:**

The DEAL Practice – Cultivating Resilience in University Students

#### MUHAMAD SAIFUL BAHRI YUSOFF

Accepted for publication on 29 September 2021 by Penerbit USM, Pulau Pinang, Malaysia





**Brittle** describes something that is fragile and prone to breaking

**Anxious** reflects a state of worry or unease

Non-linear refers to processes that do not follow a straightforward path

**Incomprehensible** indicates something that is difficult to understand

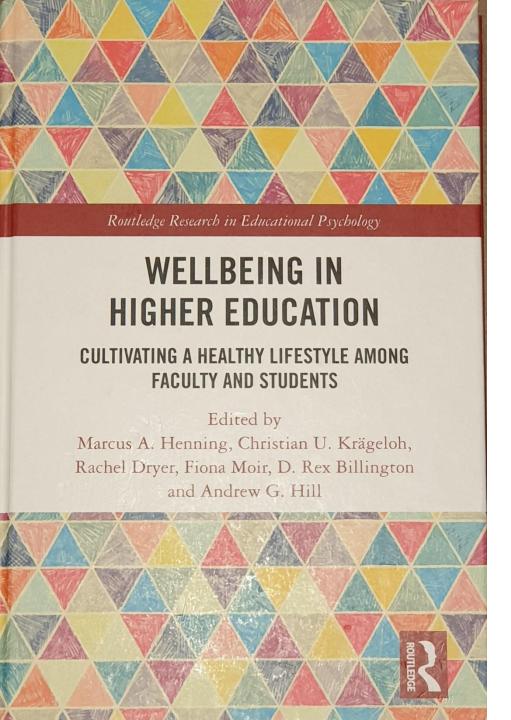
Embracing these forces, medical education can prepare future healthcare professionals for a transformative future

BRITTLE ← RESILIENCE

ANXIOUS ← → WELL-BEING

NON-LINEAR ← → FORESIGHT

INCOMPREHENSIBLE 
ACCESSIBLE



<sup>44</sup> Time, Culture, Opportunity and Individual Strengths are four overriding elements to influence achievement in higher education and life in general. They are realities that need to be considered in the structure of the higher education environment by leaders as well as academics and students. Some may apply more than others, but all should be considered. **11** 

(Henning et al, 2018)

### **Wellbeing Drivers**

#### **INDIVIDUAL STRENGHTS**

The things individuals are good at and the unique qualities that make them who they are.

# T

#### TIME

The number of hours individuals have and how they manage them.



#### **OPPORTUNITY**

Having a chance to do something or access resources that can help individuals.

#### **CULTURE**

The diverse backgrounds, beliefs, and ways of doing things that people bring to a group or community.

**Nelson Mandela** once said: "Education is the most powerful weapon which you can use to change the world."





'Extending educational experiences and innovations to new settings through sharing of practices and policies will be crucial.'

(UNESCO, 2021, pg 129)



#### REIMAGINING A new social OUR FUTURES contract for TOGETHER education

REPORT FROM THE INTERNATIONAL COMMISSION ON THE FUTURES OF EDUCATIO

## **Final Thoughts**

#### **Resilience Concepts**

Resilience has been seen in numerous lenses; a trait, a quality, a process, a cycle, a system and a trajectory

The resilience factors must be taken into consideration to promote resilience at different levels.

**Resilience Factors** 



The resilience promotion strategies offer a framework to infuse resilience at different levels - micro, meso & macro.

> It has potential implications on important facets of

**ME Implications** 

medical education



## Thank You

MUHAMAD SAIFUL BAHRI YUSOFF, MD, MSC, PHD

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