

# Disclosure of Moral Injury

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# Conflict of Interest Statement

No conflict of interest.

Perceived conflict of interest:

- Co-founder of  **ParticipAid** ([www.participaid.co](http://www.participaid.co)), platform used to recruit participants for some of the studies mentioned in the presentation. No person, nor organization received any financial remuneration for the use of this platform for these studies.

# Outline

1. Military mental health
2. What is moral injury?
3. Why is it important?
4. What are the gaps?
5. Treatment-seeking barriers
6. Confidentiality and moral injury
7. Our findings
8. Future directions



“

**The pendulum of the mind oscillates between sense and nonsense,  
not between right and wrong.**

— Carl Gustav Jung

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# Canadian Armed Forces

**67,492** active RegF personnel

**36,381** active Primary ResF personnel

**629,300** veterans (1.7% of population)

deployments include<sup>1</sup>:

Iraq

Haiti

Congo

Egypt

South Sudan

NOW: 2000 deployed on approximately 20 missions

# OSI in the CAF

Canadian Forces Mental Health Survey<sup>2,3</sup>

	2002	2013
Any selected mental or alcohol disorder	15.1%	16.5%
MDD	7.6%	8.0%
PTSD	2.8%	5.3%
Generalized Anxiety Dis.	1.8%	4.7%
Social Phobia	3.6%	N/A
Panic	1.6%	3.4%

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 **41%** of medically released suffered from OSI<sup>4</sup>

 **30%** seek mental health services after deployment<sup>5</sup>

 **2x** rate of suicides in **released** CAF personnel vs. civilian (25 y.o. & under)<sup>6</sup>

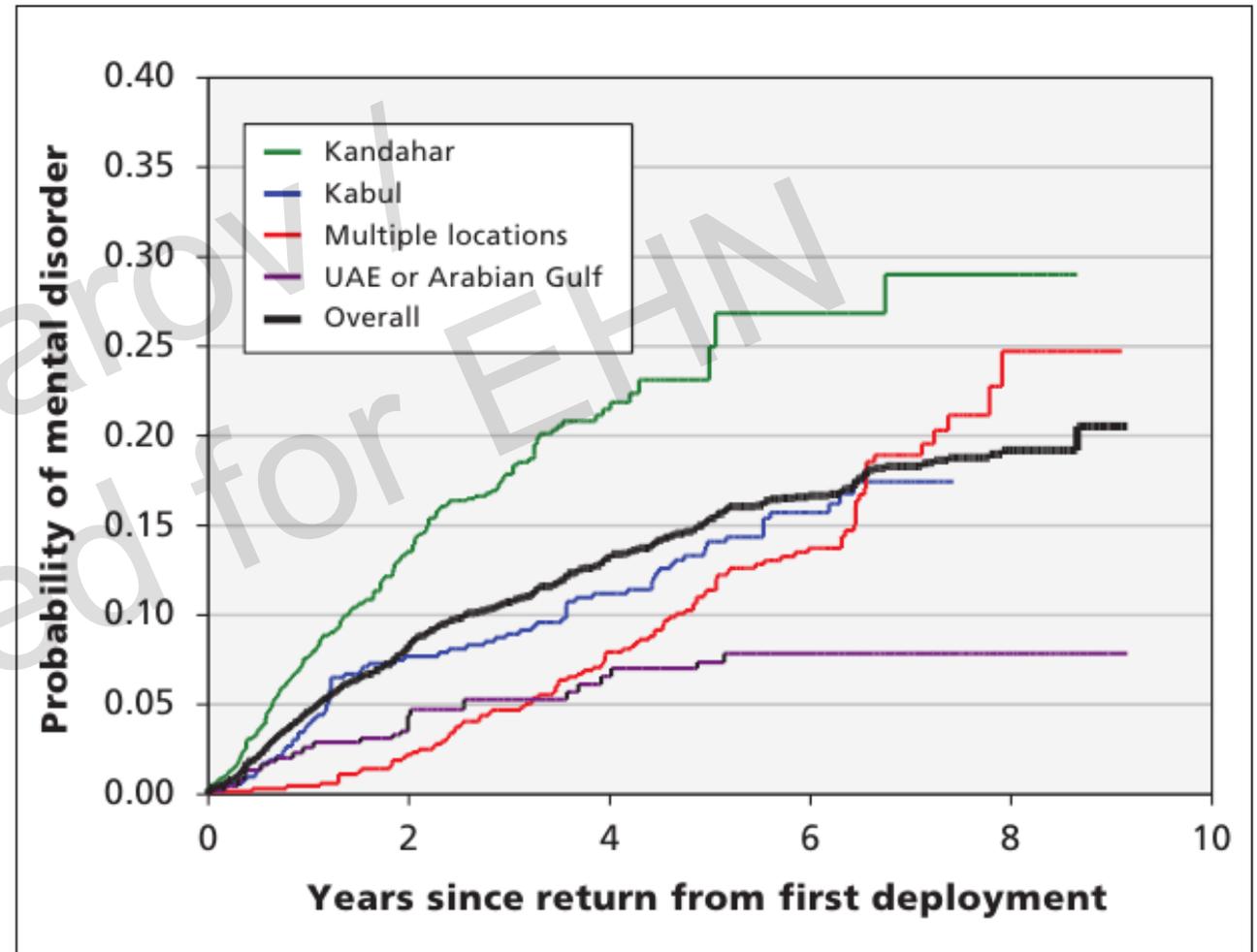
 **70%** of active personnel suicides are 29 years old or younger<sup>32</sup>

# OSI in the CAF

🇨🇦 13% received OSI during Afghanistan service<sup>5</sup>  
8% PTSD  
25% PTSD (combat heavy-zones)  
6% MDD (60% co-morbid)

🇨🇦 Compared to civilian population:  
10% lifetime prevalence of PTSD<sup>21</sup>  
2.5% point prevalence of PTSD<sup>21</sup>

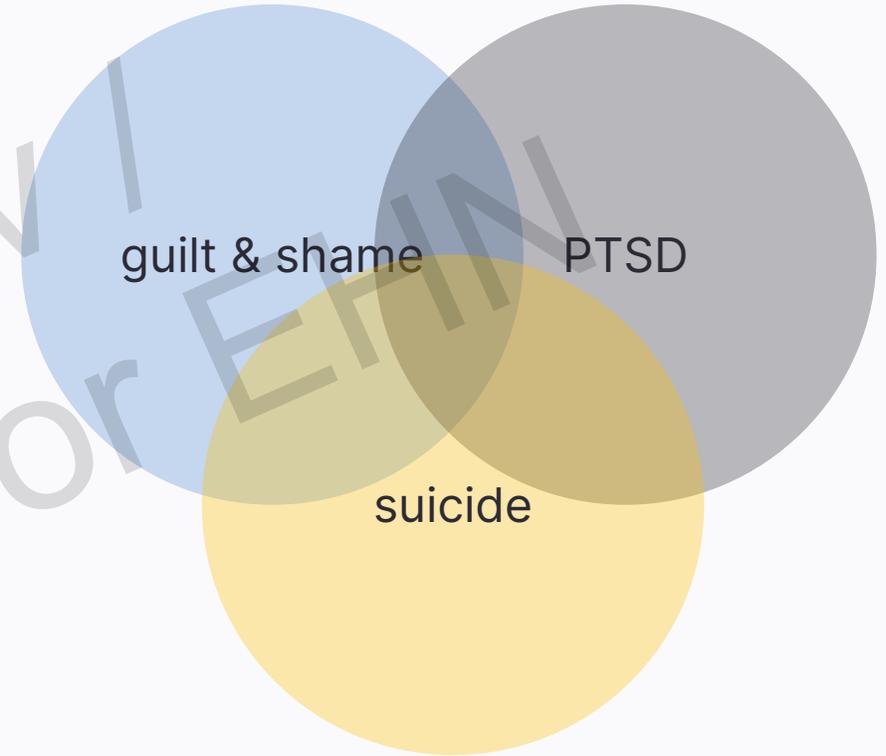
20-30% lifetime prevalence of PTSD of CAF  
combat personnel<sup>21,22</sup>



# Guilt / Shame / PTSD overlap

guilt and shame are widely reported in PTSD<sup>23-25</sup>

both linked to suicide and suicidal ideation in military samples<sup>10-12</sup>



# Guilt & Shame

common

complex cognitive and emotional experiences<sup>37</sup>

arise when one perceives their behaviour to transgress an **internal moral standard**<sup>38</sup>

Guilt in the DSM



# Guilt / Shame / PTSD overlap

guilt better predictor of PTSD Sx than degree of combat exposure<sup>24</sup>

lower guilt cognitions associated with PTSD resilience<sup>59</sup>

shame symptoms temporally tied to PTSD onset<sup>25</sup>

combat-related guilt better predictor of suicide than PTSD or MDD severity<sup>27,61,62</sup>

Biomarker overlap<sup>63,64</sup>



# Guilt / Shame / PTSD overlap

For some, guilt & shame could be at the core of their distress.

Broken heart vs. racing heart



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# shame and guilt <sup>45-52</sup>

			
<b>evaluation of:</b>	self	behaviour	
<b>due to:</b>	personal inadequacies	context	
<b>rigidity:</b>	stable over time	dynamic	
<b>future:</b>	cannot be changed	reparation is possible	
			
<b>affect:</b>	worthlessness powerlessness inferiority	tension regret remorse	
<b>psychological distress:</b>	inward	outward	
		 	↑ empathy <sup>51</sup> ↑ ToM <sup>50</sup>
<b>behaviour:</b>	avoidance withdrawal	approach-and-amend	
	self-condemnation	self-forgiveness	

# shame and guilt <sup>45-52</sup>

**MH outcomes:**



MDD<sup>54</sup>  
PTSD<sup>55</sup>  
GAD<sup>56</sup>  
suicidal ideation<sup>57</sup>



\*only when paired  
with shame<sup>49,58</sup>

DSM



maladaptive  
guilt



adaptive  
guilt

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# MEDLINE search hits

36,357 results

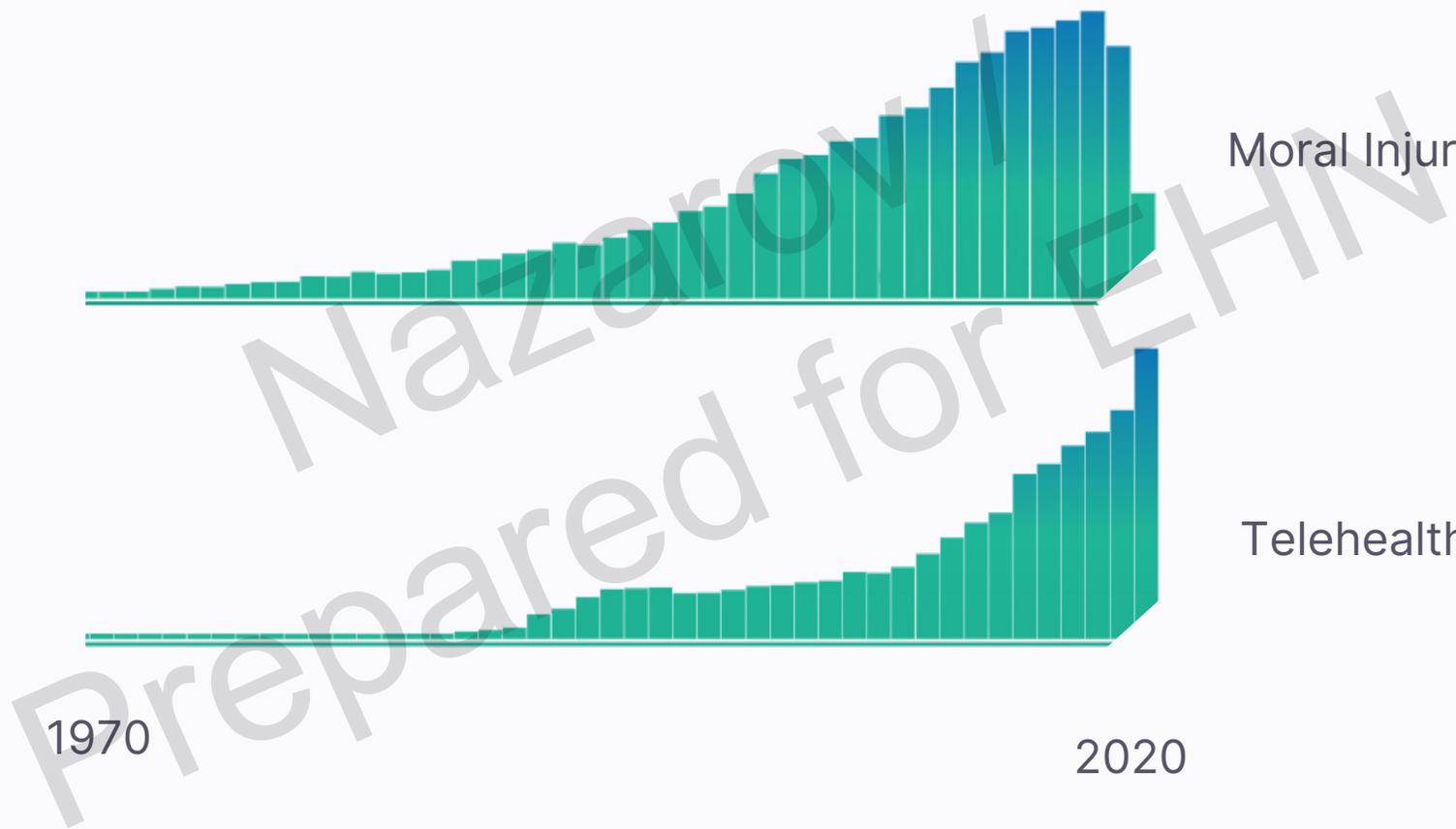
Moral Injury

39,177 results

Telehealth

1970

2020



# Definition is unclear

Psychology

Philosophy

Social Work

Spirituality

Richardson, N., Lamson, A., et al.  
**Defining Moral Injury Among Military Populations: A Systematic Review.** (2020).  
Journal of Traumatic Stress.

**Psychological distress**  
**character wound**  
**spiritual wound**  
**“undoing of character”**  
**Intrapersonal crisis**

– Shay, 1994, Nash and Litz, 2013

in response to the

**perpetration of**  
**bearing witness to**  
**failure to prevent**  
**learning about**

– Drescher et al., 1994

... any event that transgresses

**Deeply held personal beliefs**  
**subjective moral standards**  
**one’s belief about “what’s right”**

– Litz et al., 2013

Psychological distress

character wound

spiritual wound

in response to the

perpetration of

bearing witness to

failure to prevent

"undoing of character"

**Betrayal:**

"betrayal of justice by a person of authority in a high-stakes situation"

– Shay 2014

... any event that transgresses

Deeply held personal beliefs

subjective moral standards

one's belief about "what's right"

– Litz et al., 2013

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# Moral Injury

Psychological manifestations include, but not limited to:

Alterations in self-perception

Alterations in moral thinking

Relational impacts

Emotional aftermath

Self-harm

Spirituality

But also... symptoms of PTSD

# Psychological Trauma (PTSD Criterion A)



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# PMIE

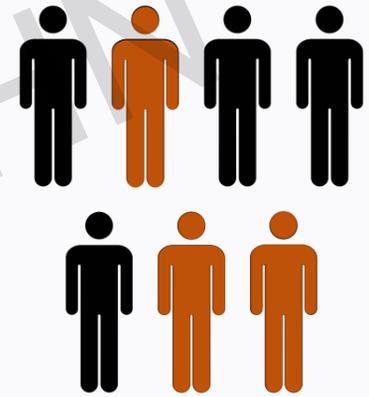
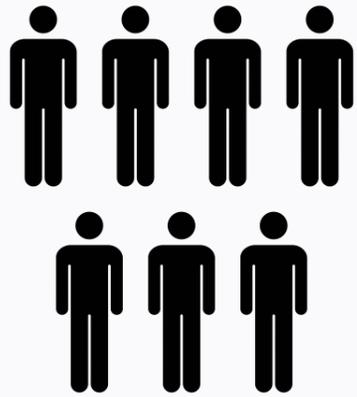
Potentially morally injurious experience



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# PMIE

Potentially morally injurious experience



Exposure

Expression/  
Outcome

**Moral Injury**

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# Evolving construct

Currently, not a mental health diagnosis

- Classic PTSD symptoms and outcome measures do not capture all symptoms commonly associated with moral injury
- PMIE may not always meet PTSD Criterion A / psychological trauma

Dichotomy in the debate

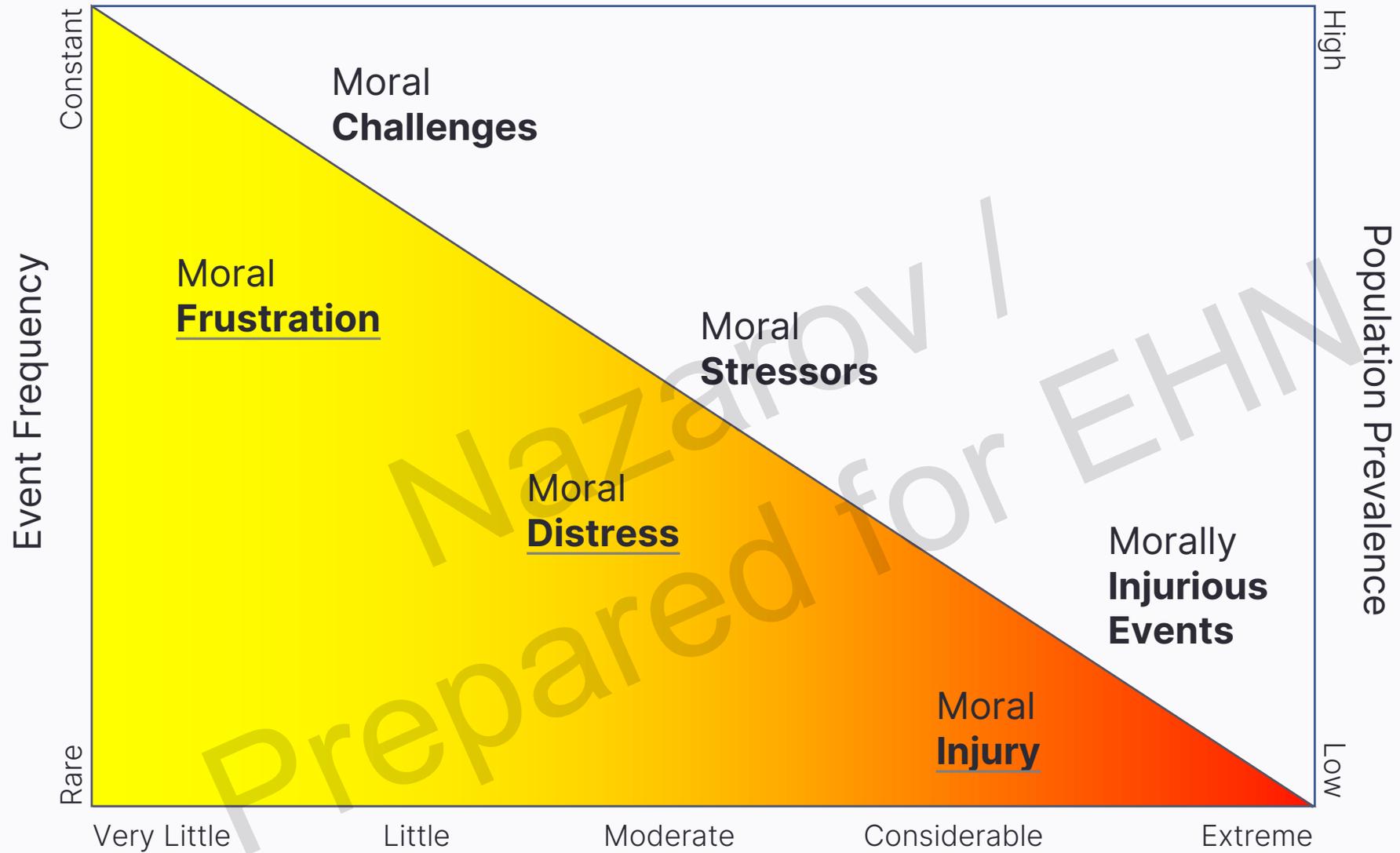
- For some, it's a term that "finally describes the essence of their struggle"
- From other perspectives, it may be a subtype of PTSD
- Whether moral injury is a construct independent of PTSD is still under debate (many signs point to yes...)



# Who can be impacted?

Everyone.

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Degree of Mental, Social, and Spiritual Harm and Impairment

- Litz & Kerig, 2019



# Who can be impacted?

Individuals who need to make difficult, moral-ethical decisions in high-stakes environments.

Military personnel  
Health care workers  
First responders  
Legal

But no one is off limits...



**Why is it important?**

**Common**

**Linked to poor outcomes**

**Difficult to treat**



## It's common

- Guilt and shame are widely reported in PTSD
- PMIEs are common
  - Over 50% of CAF personnel deployed to the mission in Afghanistan endorsed a PMIE – Nazarov, et al., 2018

Exposure to events that may trigger MI are common in military environments

Today's operations **go against schematic beliefs about warfare:**

Urban warfare

Unmarked enemy

Enemy deliberately plays against ethical standards

Combat, humanitarian aid, stabilization – all in one



“One of the consistent facts of wars is that they place people in terrible, often life-threatening situations that are shaped by conditions beyond their control. These situations can force people to make difficult choices between undesirable alternatives.” (Schulzke, 2013)

🇨🇦 Nazarov, Fikretoglu, Liu, Thompson, Zamorski (2018)

<b>POTENTIALLY MORALLY INJURIOUS EVENTS (PMIEs) IN DEPLOYED CAF</b>	% of pop	95%CI
Seen ill or injured women or children who you were unable to help	42.6	(41.1–44.2)
Ever felt responsible for the death of Canadian or ally personnel	7.4	(6.6–8.2)
Had difficulty distinguishing between combatants and noncombatants	38.4	(36.8–40.0)
<i>Any PMIE</i>	57.7	(56.1–59.2)

OP LASER...



## **Linked to adverse mental health outcomes**

- Guilt better predictor of PTSD symptoms than degree of combat exposure
- Shame symptoms temporally tied to PTSD onset
- Canadian military context:
  - Those endorsing PMIE were 1.5-2.9x more likely to have 12-M PTSD – Nazarov, et al., 2018



## Challenging to treat

- Current/typical/common PTSD treatments may not be appropriate or effective
- Barriers to care
  - CAF pers with PMIEs are 2x more likely to seek help from civilian healthcare providers. – Nazarov, et al., 2020



**What can we do about it?  
Where do we go from here?**

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**Treatment**

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**Prevention: Early Intervention**

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**Prevention: Avoid Exposure**

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**Prevention: Prepare**

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## Treatment

### Challenges and gaps

1. No valid method to **capture/assess** moral injury. **We need to know who to treat, and whether the treatment is effective.**

**Moral Injury Outcome Scale**  
(Litz, Plouffe, Nazarov, et al., submitted)



## Treatment

### Challenges and gaps

2. Ambiguous treatment targets and outcomes.

**Identify targets and measure outcomes.**

Promising interventions are already being evaluated (meaning-making, adaptive disclosure).



## Treatment

### Challenges and gaps

#### 3. Treatment coverage

Requires a diagnosis.

How to provide help to those who need it **now**?



**Treatment**

## **Challenges and gaps**

4. Unlike for PTSD, no animal models for moral injury



## Treatment

### Challenges and gaps

#### 5. Help-seeking avoidance

- confidentiality
- shame and guilt are socially withdrawing

Need to better understand barriers to care for moral injury



## Prevention: Early Intervention

### Challenges and gaps

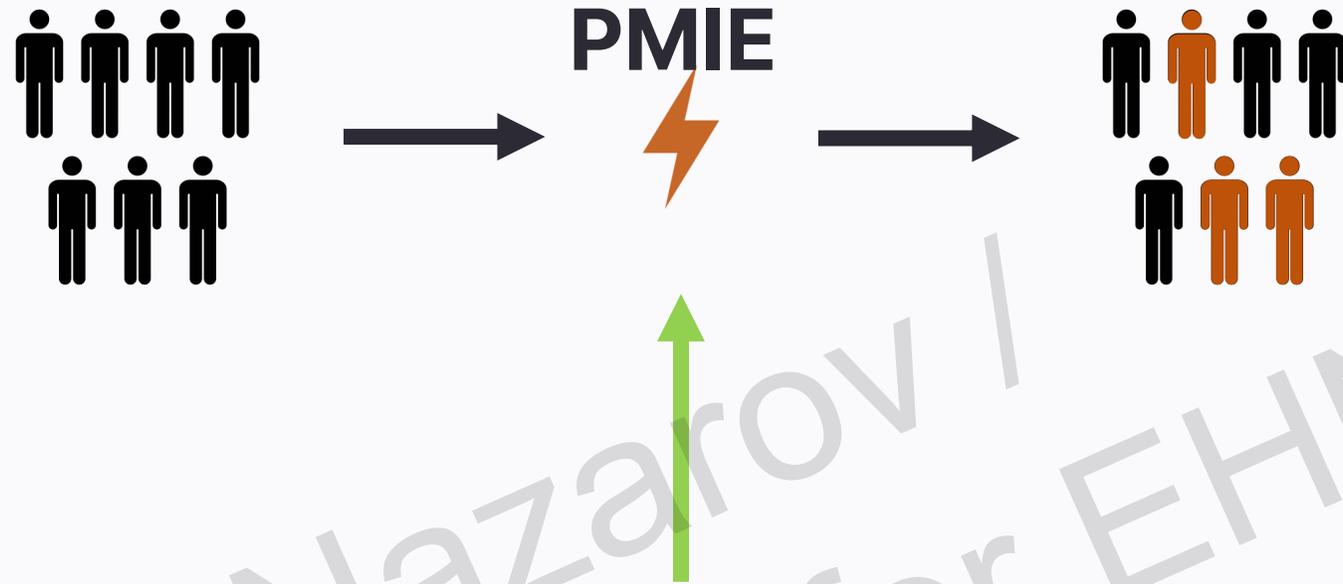
1. Link between exposure (PMIE) and outcome (MI) is ambiguous; not all PMIEs are the same.
2. What supports are required? Can we make things worse? Need data on outcome monitoring.
3. Interval between PMIE and adverse MH outcomes can be lengthy. Can we identify prodromal symptoms?



## Prevention: Early Intervention

### Challenges and gaps

4. Guilt and shame are necessary human emotions; natural response. What magnitude and impact is reasonable? For how long?



## Prevention: Avoid Exposure

### Challenges and gaps

1. For some population segments (e.g., occupations), this is not an option.
2. What isn't perceived to be a PMIE now, could be reframed as a PMIE later; Need to understand impact of culture.



**Prevention: Prepare**

## **Challenges and gaps**

1. Long gap between training, exposure, and expression
2. What are the goals of preparation? How do we measure outcomes? How do we deliver the intervention effectively?



Prepared for



## Treatment

### Challenges and gaps

#### 5. Help-seeking avoidance

- confidentiality
- shame and guilt are socially withdrawing

Need to better understand barriers to care for moral injury



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# Mental Health Service Use (MHSU)

## MHSU by military personnel is largely underutilized

**29%** of service members with a past-year MH problem reported seeking or utilizing MH services in the same time period (across 11 studies; N=189,021 individuals) (USA, Canada, UK, Netherlands, China) (Hom et al., 2017)

Increasing over time (i.e., 20% to 36% increase between 2003 and 2011 in US Army soldiers) (Quartana et al, 2014). Despite the increase, still a signal of underutilization.

Service members often do not seek care until they have **reached a point of crisis** or until the concern is **life-threatening** (Zinzow et al., 2013). And most do seek treatment, but it takes years... (Fikretoglu, et al., 2010).

# Barriers to Care

**There are many...**

As of 2017, there were **57** studies examining barriers to help-seeking and MHSU in military personnel.

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# Barriers to Care

Large literature on this topic (see Hom et al., 2017 for review, but also Adler et al., 2015; Britt et al., 2008; Hoge et al., 2004; Kim et al., 2011, Zinzow, et al., 2013, Britt, et al., 2008, 2016, 2019).

## **Impact on military career** (or "Career Stigma" – Britt et al., 2019)

blame or differential treatment by others

less confidence in ability from peers/leaders

general career harm

did not want information presented in military records (21-43%)

concerned it will not remain confidential (23-37%)

## **Stigma** (self- and perceived public stigma)

embarrassment/seen as weak

however... mixed findings and a complicated concept to measure

## **Operational/Structural barriers**

difficulties scheduling appointments, getting time off work

# Barriers to Care

## **Provider-related concerns**

not trusting mental health professionals (38%) (Hoge et al., 2004)

did not have confidence in MH, administrative, or social services (Sareen, et al., 2007)

will not be treated for their presenting problem (Fikretoglu et al., 2008; Pury et al., 2013;

will be prescribed unwanted medications (Stecker et al., 2013; Zinzow et al., 2013)

it will be difficult to relate and open up to a provider

## **Preference for self-management, lack of perceived need, negative treatment beliefs**

beliefs that treatment is ineffective (4–17%)

that it is more advantageous to handle the problem on their own/that they do not need care (52–64%)

(Hoge et al., 2004; Stecker et al., 2013; Valenstein et al., 2014; Zinzow et al., 2015)

# Barriers to Care



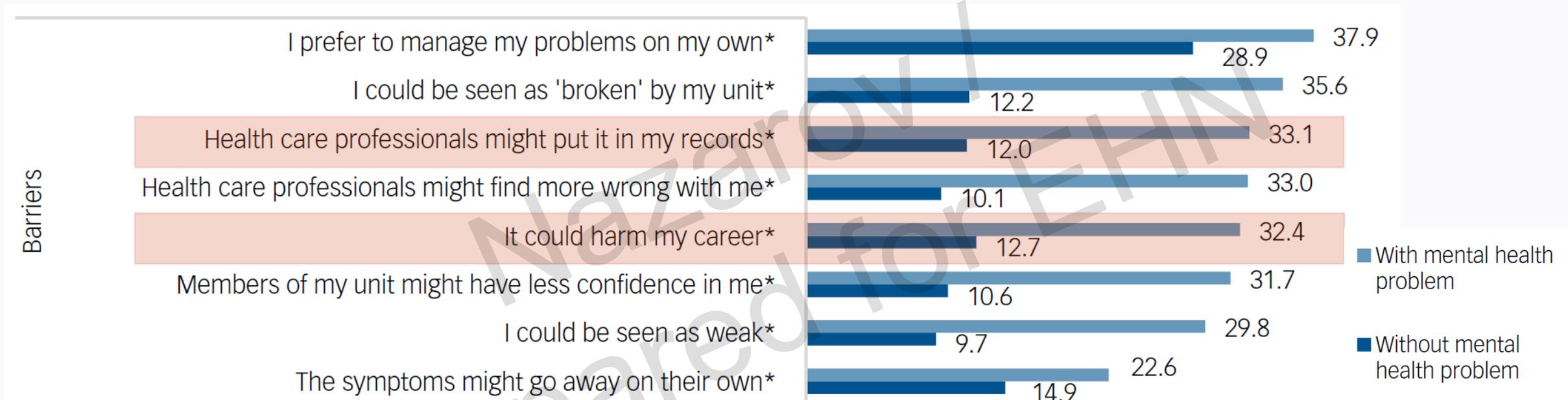
(Britt et al., 2019)

# Barriers to Care

Barriers	Mental health symptoms		
	Junior enlisted	NCOs	Officers
I could be seen as weak	12.7	11.2	16.7
Members of unit less confidence	<b>12.7<sup>a</sup></b>	<b>12.8<sup>a</sup></b>	<b>22.4<sup>b</sup></b>
It could harm my career	<b>13.4<sup>a</sup></b>	<b>16.6<sup>a</sup></b>	<b>26.3<sup>b</sup></b>
Symptoms might go away [on own]	<b>14.8<sup>a</sup></b>	<b>15.9<sup>a</sup></b>	<b>25.2<sup>b</sup></b>
I prefer to manage problems myself	<b>27.1<sup>a</sup></b>	<b>33.5<sup>b</sup></b>	<b>42.9<sup>c</sup></b>
I could be seen as 'broken' by unit	<b>13.9<sup>a</sup></b>	<b>16.4<sup>a</sup></b>	<b>23.2<sup>b</sup></b>
Might find something else wrong	<b>11.5<sup>a</sup></b>	<b>16.4<sup>b</sup></b>	<b>14.3<sup>b</sup></b>
Might be put in my records	<b>13.0<sup>a</sup></b>	<b>17.3<sup>b</sup></b>	<b>20.8<sup>b</sup></b>

(Britt et al., 2019)

# Barriers to Care



(Britt et al., 2019)

## Known Barriers to MHSU

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Confidentiality



Getting mental health treatment would harm military career

Blame from unit leaders

Differential treatment from leaders

Less confidence in ability of competence from leaders/peers

Leader discourages treatment

Don't want on military record

Concern it won't remain confidential

Embarrassment

Being seen as weak

I would feel weak/inferior

Others in my unit would treat me differently

I would be concerned about the operational readiness of a unit member who was getting treatment

Difficulties Scheduling appointment

Difficulties getting time off work

Transportation issues

Cost concerns

Not knowing where to go

Mistrust of providers

Will not be treated for their presenting problem

Will be prescribed unwanted meds

Will be difficult to relate or open up

Belief treatment is ineffective

Self-management is better

Not comfortable talking about emotional problems

---

## Known Barriers to MHSU

---

Confidentiality

- 
- Getting mental health treatment would harm military career
  - Blame from unit leaders
  - Differential treatment from leaders
  - Less confidence in ability of competence from leaders/peers
  - Leader discourages treatment
  - Don't want on military record
  - Concern it won't remain confidential
  - Embarrassment
  - Being seen as weak
  - I would feel weak/inferior
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  - Cost concerns
  - Not knowing where to go
  - Mistrust of providers
  - Will not be treated for their presenting problem
  - Will be prescribed unwanted meds
  - Will be difficult to relate or open up
  - Belief treatment is ineffective
  - Self-management is better
  - Not comfortable talking about emotional problems
-

# Barriers to Care

## Relative importance, causal path unclear



(Britt et al., 2019)

# Barriers to Care

## Relative importance, causal path unclear



(Britt et al., 2019)

# Confidentiality

General **mistrust** of mental health practitioners (MHP) by mil pers (Hoge et al. 2004; French et al., 2004)

Barriers to related to mistrust (Hom, Stanley, Schneider, & Joiner, 2017; Rüsçh et al., 2017; Gould et al., 2010; Bonar, Bohnert, Walters, Ganoczy, & Valenstein, 2015)

e.g., general career harm, don't want info in military records, concerned will not remain confidential

Mil pers likely to underreport mental health (MH) issues on screeners (Warner et al., 2011; French, Rona, Jones, & Wessely, 2004)

**Table 5.** Perceived Barriers to Seeking Mental Health Services among All Study Participants (Soldiers and Marines).\*

Perceived Barrier	Respondents Who Met Screening Criteria for a Mental Disorder (N=731)	Respondents Who Did Not Meet Screening Criteria for a Mental Disorder (N=5422)
	<i>no./total no. (%)</i>	
I don't trust mental health professionals.	241/641 (38)	813/4820 (17)
I don't know where to get help.	143/639 (22)	303/4780 (6)
I don't have adequate transportation.	117/638 (18)	279/4770 (6)
It is difficult to schedule an appointment.	288/638 (45)	789/4748 (17)
There would be difficulty getting time off work for treatment.	354/643 (55)	1061/4743 (22)
Mental health care costs too much money.	159/638 (25)	456/4736 (10)
It would be too embarrassing.	260/641 (41)	852/4752 (18)
It would harm my career.	319/640 (50)	1134/4738 (24)
Members of my unit might have less confidence in me.	377/642 (59)	1472/4763 (31)
My unit leadership might treat me differently.	403/637 (63)	1562/4744 (33)
My leaders would blame me for the problem.	328/642 (51)	928/4769 (20)
I would be seen as weak.	413/640 (65)	1486/4732 (31)
Mental health care doesn't work.	158/638 (25)	444/4748 (9)

(Hoge et al., 2004)

# Confidentiality

## Ambiguity relating to limits to confidentiality in military setting

- **Dual role** of military practitioner (responsibility to organization and patient) – may conflict
  - Additional limits to confidentiality in military treatment settings (Hoyt, 2013)
- Ambiguity across different MHPs
  - Unlike the strictly protected communication with chaplaincy, no patient-physician privilege exists in military setting

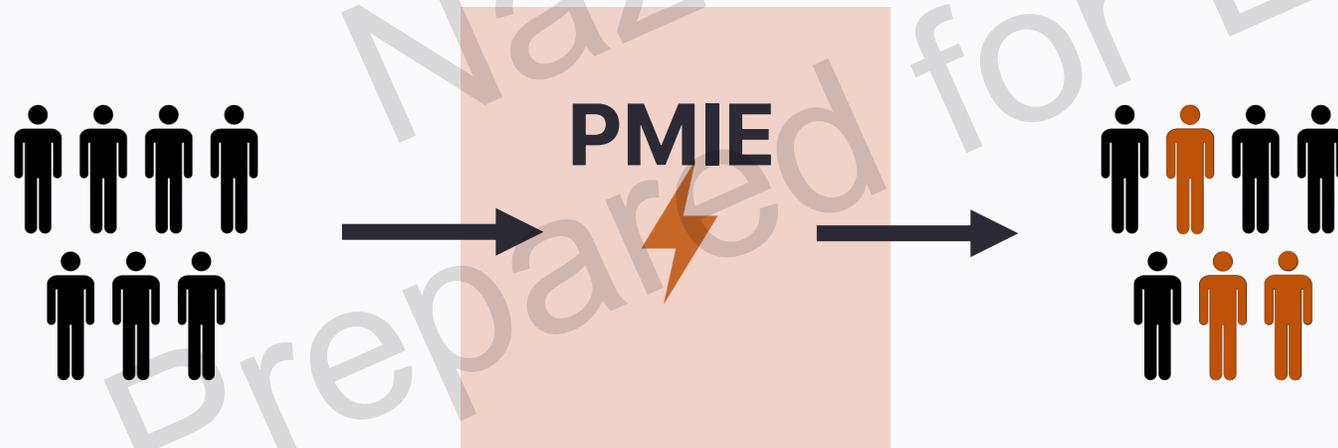
## Confidentiality and trust integral to therapeutic process

- Lack of perceived confidentiality may hinder honest responding and undermine treatment
- Increased perceptions of confidentiality related to more honest reporting, in both civ (Haut & Muehleman, 1986; Woods & McNamara, 1980; Lothen-Kline, Howard, Hamburger, Worrell, & Boekeloo, 2003) **and mil samples** (Anestis & Green, 2015; Warner et al., 2011)
- In civ samples, tendency to believe that absolute confidentiality should exist (Ambrose, 1999)

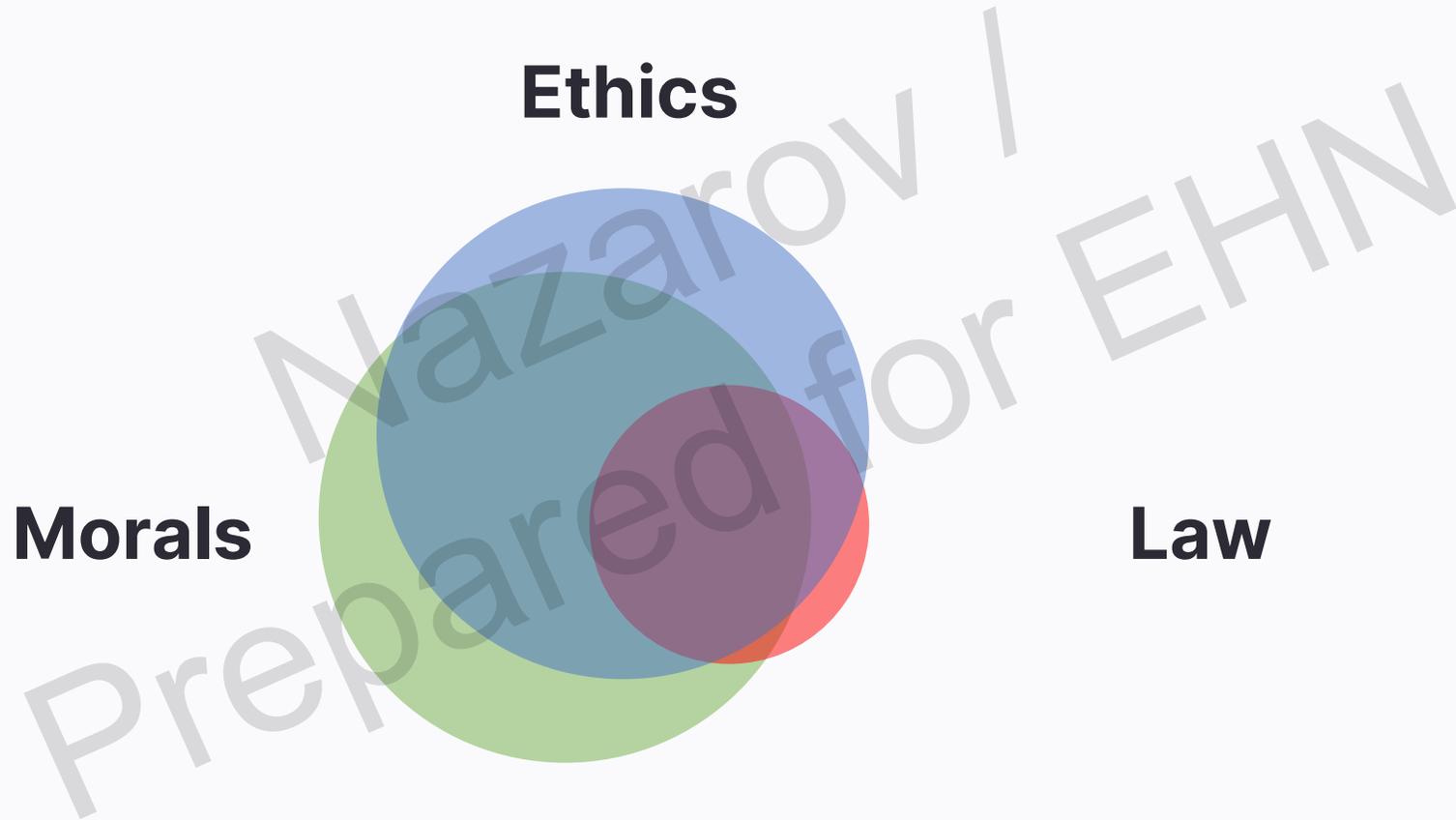
# Confidentiality

**Fear of confidentiality breach during MHSU may be exacerbated when experiencing moral injury**

- Perceptions of illegality/fear of legal repercussions



# Confidentiality



# Confidentiality

Philosophical study of morality...

Prescribes standards of conduct for individuals and groups, so as to prevent and resolve moral problems

Professional/corporate ethics/morals (e.g., research ethics, military ethics, clinical ethics)

## Ethics

## Morals

Individual's own sense of what's good, right, and meaningful (largely based on widely held societal values)

## Law

basic, enforceable standards of behaviour necessary for a community to succeed and in which all people are treated equally

-Defined by government, based on concepts of justice and equality; --  
-Coercive, rules of law, uniform



# Confidentiality

Philosophical study of morality...

Prescribes standards of conduct for individuals and groups, so as to prevent and resolve moral problems

Professional/corporate ethics/morals (e.g., research ethics, military ethics, clinical ethics)

**Ethics**  
**SHOULD**

**Morals**

Individual's own sense of what's good, right, and meaningful (largely based on widely held societal values)

**Law**

**MUST**

basic, enforceable standards of behaviour necessary for a community to succeed and in which all people are treated equally

-Defined by government, based on concepts of justice and equality; --  
-Coercive, rules of law, uniform



# Confidentiality



In what situations and contexts does mandatory disclosure to authority (e.g., military institution, professional body, law enforcement) apply?

What impact does it have on the help-seeker?

# Confidentiality

Some evidence suggesting:

- Lack of knowledge/ignorance of confidentiality laws by MHPs (Jagim et al., 1978; Mengeling, Booth, Torner, & Sadler, 2014; Faustman, 1982)
- Potential misperceptions of confidentiality laws by mil pers (Dao & Frosch, 2009)

Increased focus on moral injury (MI) in research and treatment settings

## **Three issues:**

- Patients may be particularly **reluctant to disclose MI**
- Disclosure of MI by patient may lead to **unnecessarily breaches of confidentiality** by MHPs
- Individuals may hesitate to disclose moral injury even in research settings
  - Throws into question much of the literature on prevalence

**⚠ Patients with moral injuries may be avoiding mental health services**

- 1** Mil pers' beliefs about confidentiality and attitudes toward disclosure of MI are unknown
- 2** MHP's beliefs about confidentiality and attitudes toward breaching confidentiality surrounding MI are unknown

 **Patients with moral injuries may be avoiding mental health services**

**Early evidence suggests this:**

CAF pers with PMIEs are 2x more likely to seek help from civilian healthcare providers. (Nazarov, et al., 2020)

“Confidentiality and psychological treatment of moral injury:  
**the elephant in the room**” - Williamson et al., 2020

# Exploring the issues of confidentiality as it relates to moral injury in CAF Veterans



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# Study 1 - Objectives

Are individuals with moral injuries more likely to suffer in silence...?

Determine whether Canadian Armed Forces Veterans are reluctant to disclose MI to MHP

- Potential hesitation/bias to disclose personal encounters/experiences
- Individual experiences may be very nuanced

Used an experimental paradigm with hypothetical vignettes

- control for trauma details
- manipulate variables of interest
  - specifically, compare with non-MI trauma

# Study 1 - Objectives

Determine whether Canadian Armed Forces Veterans are reluctant to disclose MI to MHP

Primary manipulations:

Role of **trauma type** (MI vs. control (PTSD Criterion A type trauma))

**CAF Status** at the time of help-seeking (active vs. released)

Secondary manipulation:

Degree of stated **confidentiality protection**

# Study 1 - Methods

Sample: CAF Veterans  
Medium: Online Survey  
Recruitment: ParticipAid and Social Media  
Year Collected: 2020

## Process:

1. Read vignette
2. Answer questions related to vignette
3. Repeat 3x with different vignettes
4. Answer sociodemographic, MH tx-seeking history, and related self-reports (e.g., scale on social stigma, distress disclosure index)

# Study 1 – Methods – Experimental Design

Conditions:

<b>Trauma Type</b> (within)	<b>Military Status</b> (within)	<b>Confidentiality</b> (between)
PMIE	Active	Fully Assured
PTSD	Released	Ambiguous

Outcomes:

Seeking help

Disclosing trauma details

Perceived legal harm

Perceived career harm (only for active condition)

# Vignette Development

## Developed specifically for this study

4 Moral Injury Vignettes  
1 PTSD Vignette

### Consultation with:

military psychiatrists  
senior ranks, junior ranks  
individuals with deployment experiences  
individuals familiar with moral injury (those who have been exposed to PMIE)  
professional fiction and war authors

### Controlled for:

word count  
vocabulary level  
perceived emotional salience (via micropilot with clinicians, researchers, and military personnel)

# Vignette Development

PTSD Vignette:

1. injury to self

MI Vignettes:

1. Woman and child injured but unable to help
2. Witnessing intentional harm to innocent civilian by peer
3. Children sexually abused by a local community leader
4. Unable to save refugees due to RoE as a peacekeeper
5. Intentional harm to community informant/asset by insurgents

**Instructions:** A series of hypothetical scenarios are presented below. Each scenario describes a particular traumatic event that may occur during a deployment, as well as experiences that may follow such an event. As you read each scenario, please try your best to imagine yourself as the character being described, and continue imagining yourself as this character as you respond to the questions following the scenario.

A year ago, you returned from an overseas deployment where...

insurgents committed atrocities against their own civilians. You frequently drove through villages where you witnessed injured women and children by the side of the road. On one particular day, you noticed a mother with an infant and a small child who were all injured and desperately in need of medical attention. You could see the mother was attempting to care for her children but was too critically wounded to sustain care. There were no other civilians around to provide care, and it appeared safe to approach the family. You requested permission from your chain of command to help them but received orders to not intervene. You followed these orders, though you realized that the family may not make it without intervention.

Since returning from this deployment...

you feel guilt for not helping the villagers and keep on thinking of what you could have done differently.

You have also experienced unwanted memories and disturbing dreams. You find yourself upset and physically reactive (e.g., heart racing) when reminded of the experience. You have not told others about the details of your experiences. You have been distant with friends and family, irritable and quick to anger, and unable to feel happiness or affection. You cannot focus on work and you are accomplishing less than you'd like. You haven't been participating in normal social or household activities. Your family members mention that you have changed and recommend that you seek help from a mental health professional.

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# After each scenario

[ ACTIVE condition]      Imagine you are still serving in the Canadian Armed Forces.  
[ RELEASED condition]    Imagine you have been released from the Canadian Armed Forces.

1. Given all of the information provided, and assuming there are no structural (e.g., financial, transportation) barriers to treatment, how likely would you be to seek help from a mental health care provider? **(SEEK)**
2. In this case, how likely would you be to disclose details of your traumatic experience with a mental health care provider? **(DISCLOSE)**
3. In this case, how severe do you perceive the risk in terms of legal repercussions if the details of this event were disclosed to a mental health provider? **(LEGAL HARM)**
4. In this case, how severe do you perceive the risk in terms of career repercussions if the details of this event were disclosed to a mental health provider? **(CAREER HARM)**  
1 - very unlikely  
2 - unlikely  
3 - neutral  
4 - likely  
5 - very likely

# Extra - Confidentiality Manipulation

[ ASSURED condition]

You have been made aware that if you choose to seek help from a mental health professional, your personal information and details of your experiences will be kept absolutely confidential, and will not be shared outside of the sessions with the mental health care provider. In other words, personal and medical information given to a health care provider will not be disclosed to others unless you have given specific permission for such release.

[AMBIGUOUS condition]

You have not been made aware of whether your information and details of your experiences will be kept confidential if you choose to seek help from a mental health care professional. You are unsure whether your personal details and information will be shared outside of the sessions with the mental health care provider.

# Study 1 – Methods – Experimental Design

Conditions:

Trauma Type (within)	Military Status (within)	Confidentiality (between)
PMIE	Active	Fully Assured
PTSD	Released	Ambiguous

## Covariates:

Distress Disclosure Index (Kahn & Hessling, 2001)

Social stigma for seeking professional help (Komiya, Good, & Sherrod, 2000)

Professional experience with MH

Past history of seeking help for MH issues

Age, ethnicity, marital status, education, years in CAF, rank at release

2x2x2 design; linear mixed models utilized for main outcomes

**Final sample size:** 335 participants

# Study 1 – Results

Active Military Status:

Trauma type (moral injury vs. PTSD) had a significant main effect on likelihood of help-seeking,  $F(1, 163) = 14.73, p = <.001, \eta_p^2 = .08$ . **Moral injury associated lower likelihood of help-seeking.**

Confidentiality condition (uncertain vs. assured) had a significant main effect on likelihood of help-seeking,  $F(1, 163) = 4.22, p = .04, \eta_p^2 = .03$ . **Uncertain confidentiality associated with lower likelihood of help-seeking.**

# Study 1 – Results

Released Military Status:

Trauma type (moral injury vs. PTSD) had a significant main effect on likelihood of help-seeking,  $F(1, 163) = 26.51, p = <.001, \eta_p^2 = .14$ . **Moral injury associated with lower likelihood of help-seeking.**

Trauma type \* Confidentiality interaction was significant,  $F(1, 163) = 4.37, p = .04, \eta_p^2 = .03$ . **Confidentiality condition had a greater effect for moral injury than PTSD.**

# Likelihood of Seeking Help



- 5 - very likely
- 4 - likely
- 3 - neutral
- 2 - unlikely
- 1 - very unlikely

# Likelihood of Trauma Disclosure

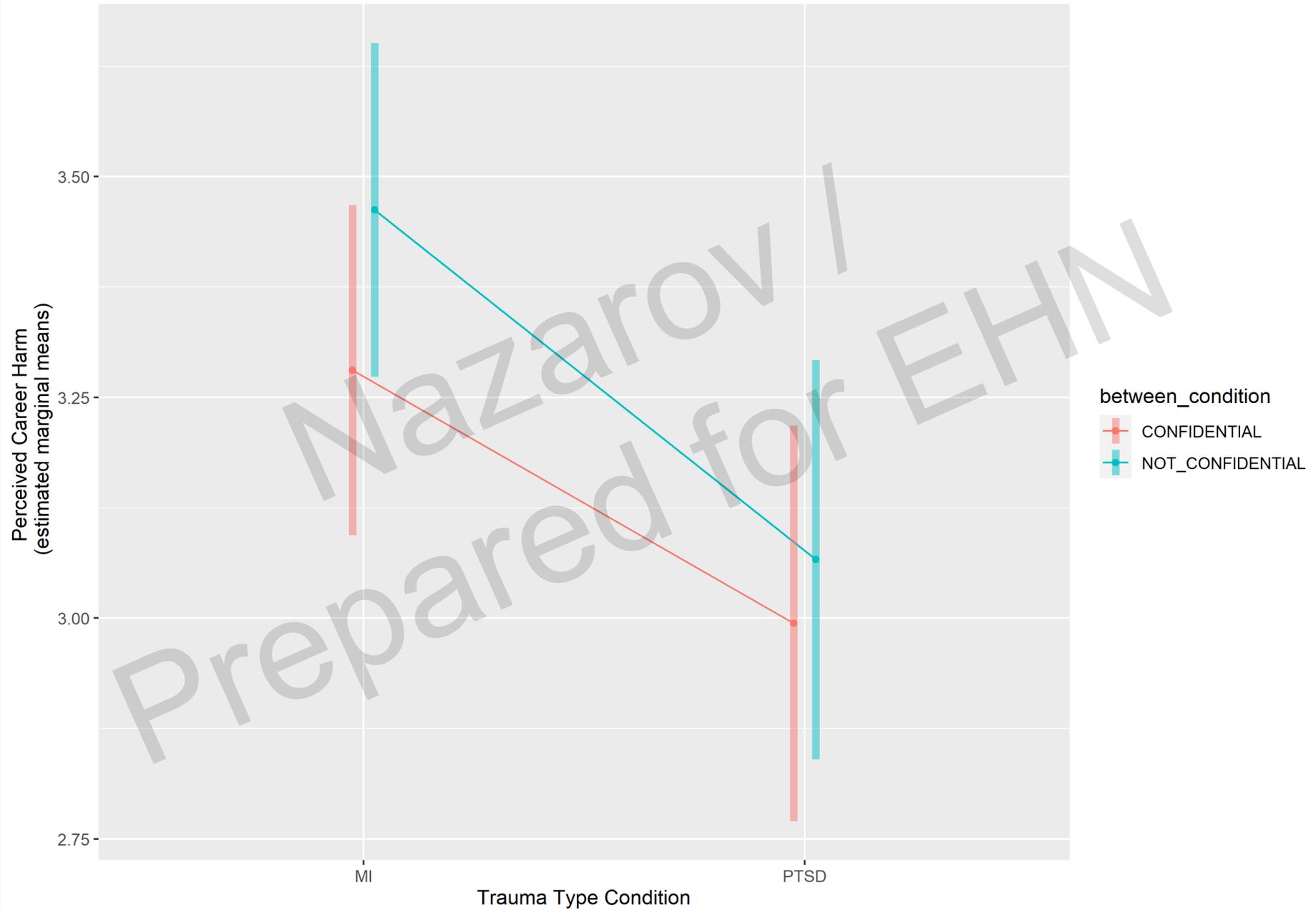
- 5 - very likely
- 4 - likely
- 3 - neutral
- 2 - unlikely
- 1 - very unlikely



# Perceptions of Legal Harm



# Perceptions of Career Harm



# Take away points

- First study to provide evidence behind patterns of intentions to seek treatment for moral injury
- Well-powered experiment – able to test intended hypotheses, explore role of covariates
- Successful remote administration of experiment - conducted during COVID-19 pandemic

Highlights that:

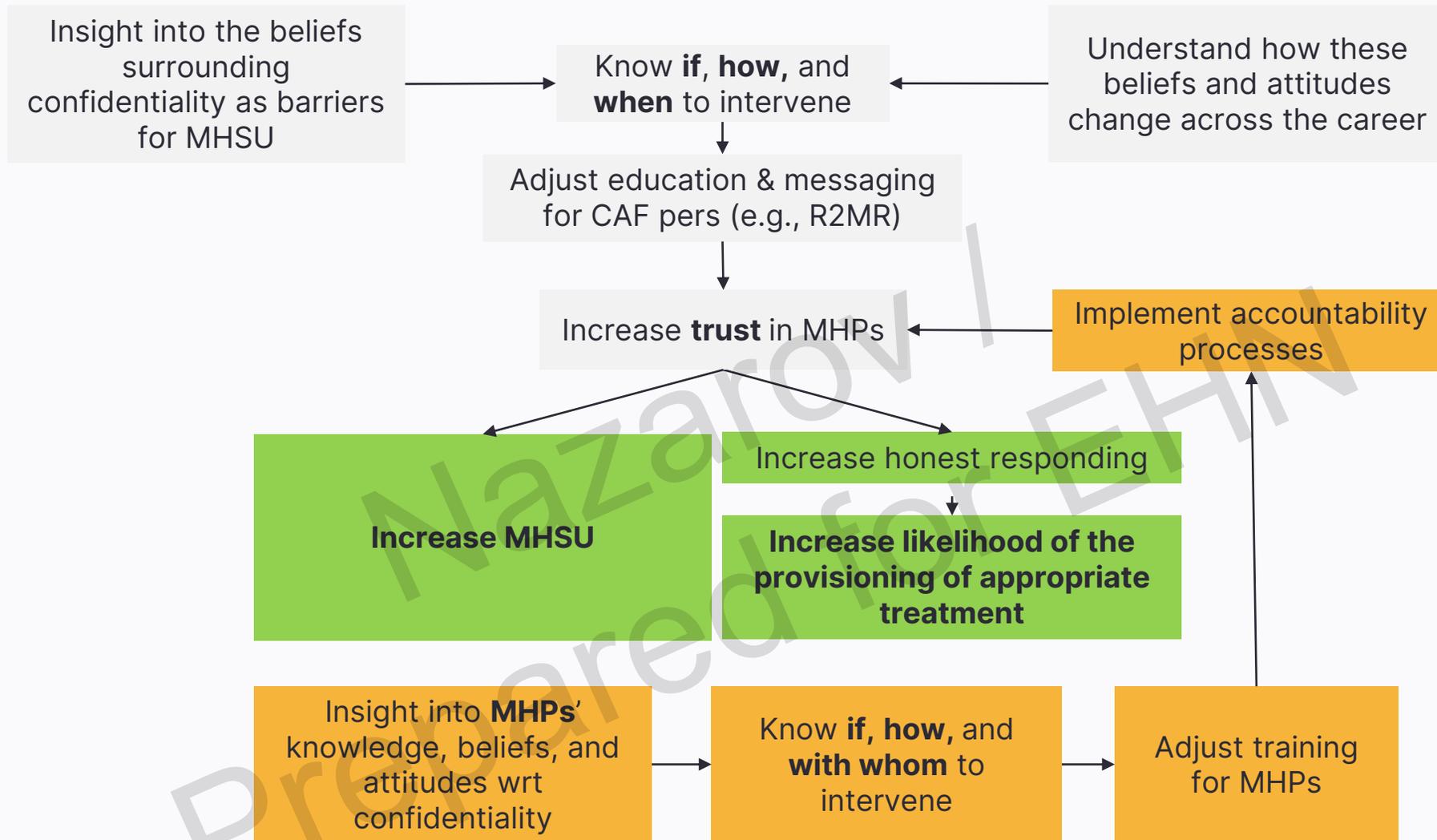
- **Trauma that has elements of moral transgressions/PMIE are associated with decreased likelihood in the intention to seek treatment.** PMIEs are perceived to be associated with **greater career and legal harm.**
- There is a clear difference in intention to seek treatment depending on whether member is active or released. Regardless of whether it's for PTSD or MI, **seeking treatment as an active member is associated with hesitation in the intention to seek treatment.**
- Explicit assurances of confidentiality during treatment **is associated with increased intention to seek treatment for MI, particularly for active personnel.**

# Next Steps

- Tendency to seek treatment may be mediated by perceptions of legal and career harm – analysis in progress
- Understand the role of covariates on outcomes
- **Conduct in-depth interviews with military personnel (currently, must be a CAF Veteran to participate)**
  - Nuanced understanding of beliefs and attitudes, both from a hypothetical perspective and those with lived experiences
  - Understand how barriers interact
  - For this follow up study, we've had significant consultation from military psychiatrists, chaplains, qualitative experts
- **Conduct in-depth interviews with MHPs**
  - Soon to be open for recruitment

# Questions remain unanswered

- How do MHPs approach confidentiality issues now?
- Is there a mismatch between mandatory disclosure laws and MHP practice (study upcoming)?
- What are the mandatory disclosure laws/regulations across different MHPs, researchers (paper in progress)?
- What is the independent contribution of confidentiality in the entire landscape of MHSU barriers?
- Are system process changes necessary to further assure confidentiality protections? Can/should we do better? What contexts? By what roles?
- Is this a Pandora's Box? Will it cause more issues trying to improve the process?





Questions?

# Thank you

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Moral injury newsletter:  
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