

Front Line & Forgotten: Examining Stress, Burnout, & Social Support for 911 Dispatch/Employees

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# Outline

- Importance
- Past Research
- Current Research
- Results
- Implications
- Questions



### **Definition: Mental Health**

A state of well-being in which an individual realizes their potential, can cope with the every-day stresses of life, can work productively, and is able to contribute to the community<sup>15</sup>

## Why is this Important?

#### Absenteeism

Work Performance

Staff Attitudes and Behaviour

Relationships at Work

# Absenteeism

Increase sickness related absences

Poor general health (depression, stress, burnout)

> Physical Conditions (heart disease, ulcers, sleeping disorders, low resistance to infections)

# Work Performance

## Reduced productivity

### Increase in errors

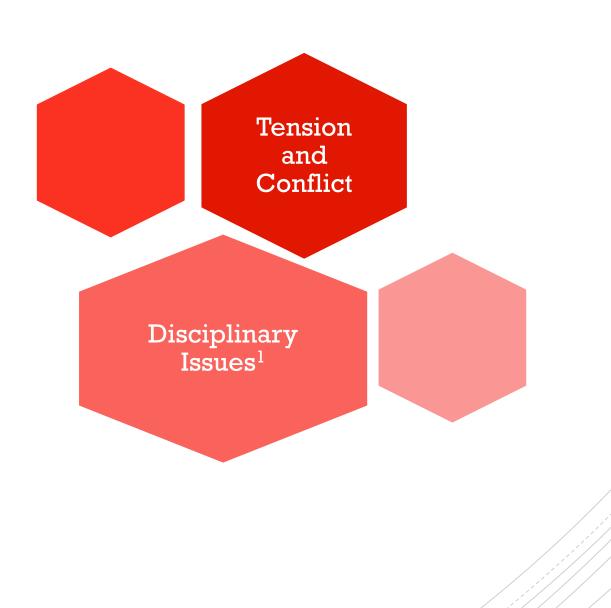
Poor decision making

## Staff Attitudes and Behaviour

# Loss of motivation and commitment



# Relationships at Work



### Question

How does your communication center attend to the mental health of its staff?

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Past Research on 911 Dispatchers/Call-Takers

Limited

Focuses on one role

Small sample size

Imperative for assisting navigation of trauma effectively to protect mental health.



## External Resources for 911 Dispatchers

# External resources available

Less programs available compared to other first responder agencies in Canada.<sup>9</sup>

#### Work environment

- Organization and its hierarchy
- Past Research Related to Dispatcher Stress
- Chain of command
- Varying levels of authority
- Limited autonomy
- Lack of formal training
- Failure to control situations
- Inability to save lives<sup>12</sup>

### Definition: PTSD & Burnout

# Posttraumatic Stress Disorder (PTSD)

- Intense, disturbing thoughts and feelings related to an experience
- Relive the event
- Feel sadness, fear or anger
- Feel detached from other people.<sup>3</sup>

## Burnout

- Emotional pressures associated with an environment
- Involvement with people over time.<sup>2</sup>

Past Research on PTSD & 911 Dispatchers

- Indirect trauma from distressed callers
- Lack of control
- Stress from listening to callers<sup>13</sup>
- PTSD levels higher than in the general population.<sup>4</sup>
- 31% of participants reported symptoms of trauma at a level consistent with PTSD.
- Rate of PTSD symptoms 4X higher than police officers.<sup>5</sup>

Past Research on PTSD for Police, Firefighters, & EMTs/Paramedics

- 2017 survey
- University of Phoenix
- 2 000 US First Responders
- 10% diagnosed with PTSD<sup>14</sup>

### Past Research on Ameliorating Stress in the Workplace



- Quiet rooms
- Ergonomic equipment
- Rotating shifts
- Guidelines for managing difficult calls
- Feedback after difficult calls
- Positive feedback from supervisors
- Cross-training
- Mandatory educational programs
- Paid stress leave<sup>8</sup>

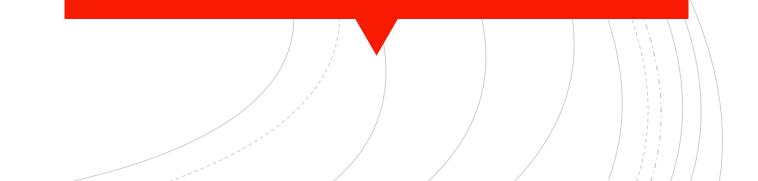


- 911 communication centers in Alberta
- 200 participants
  - 83% female
  - 16% male
  - Age of Participants
    - Average 38
    - Range 22-65
  - Number of years served
    - Average 10
    - Range 0-33

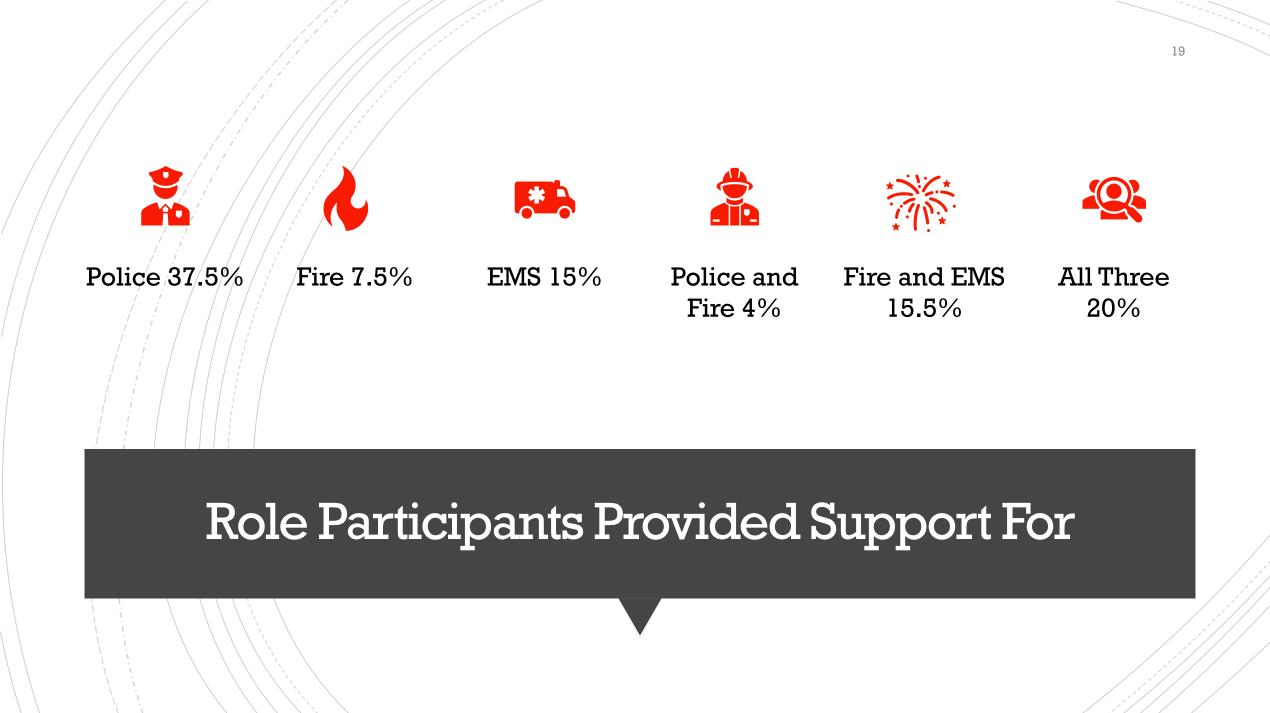
63% of participants served in a community of over 500 000

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13% served in a community of under 60 000







### **External Resources**

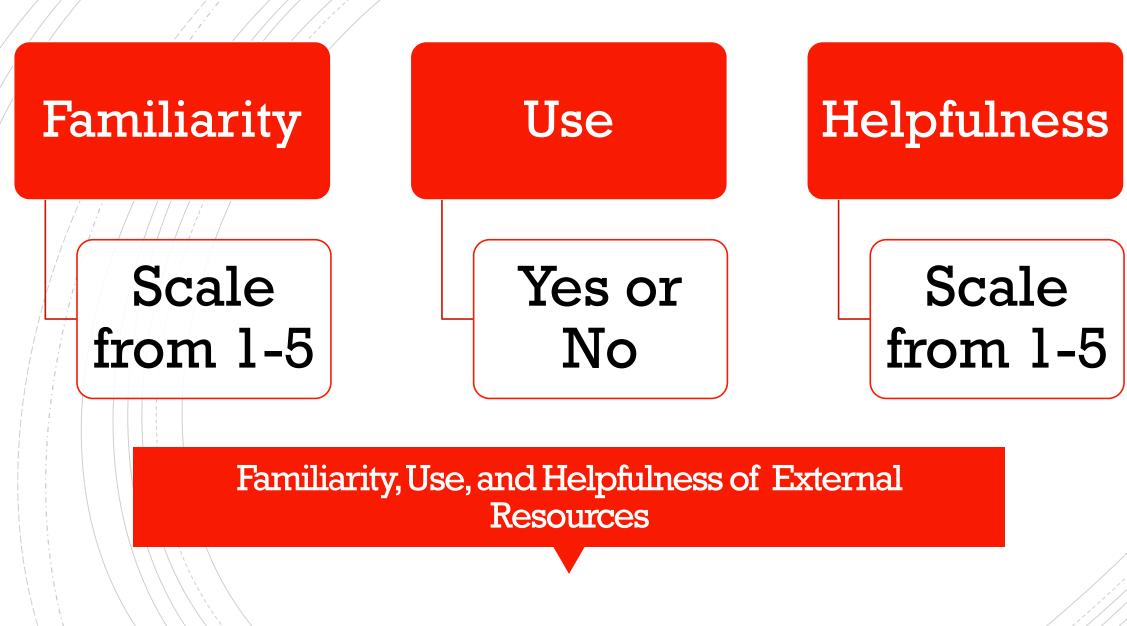
#### Legacy Place

#### Respect Canada

Canadian Institute for Public Safety Research and Treatment (CIPSRT)

Alberta Critical Incident Stress Management (ACIAC)

Mental Health Commission of Canada



Familiarity	Use	Helpfulness
38.5%	1.5%	1.5%
I		

### Legacy Place

Canada Wide: Alberta Focused Mental Health Programming Advocacy First Responders, 911 Dispatchers, Military Families

Familiarity	Use	Helpfulness
2%	None	None

Respect Canada

 ${\tt Canada\,Wide}$ 

Collaboration

Networking

**Knowledge Sharing** 

Improve Mental Health Services

Use	Helpfulness	
.5%	.5%	

Canadian Institute for Public Safety Research and Treatment (CIPSRT)

Canada Wide Wellness of Public Safety Personnel Research Exchange of Knowledge Strategic Partnerships

Familiarity	Use	Helpfulness
23%	2%	1.5%
	1	

Alberta Critical Incident Stress Management (ACIAC)

Alberta

Development

Training

Maintenance

Sustainability

Peer-support model

Familiarity	Use	Helpfulness
24.5%	2%	2%
	I	

## Mental Health Commission of Canada

Canada Wide Mental Health Courses Working Mind/R2MR



## Question

What external resources are available for your agency?

### Secondary Traumatic Stress Scale - Revised

- Adapted from experiencing trauma due to client's narratives in a therapy setting.
- Participants responded on scale from 1 to 5.

## STSS Subscale

#### Intrusion:

- Reminders of one's work,
- Having uncontrollable intrusive thoughts about the trauma experienced

#### Avoidance:

- Feeling emotionally numb
- Avoiding people and situations that serve as reminders of work

#### Arousal:

- Concentration problems
- Increased irritability associated with a professional's indirect exposure to traumatic calls.<sup>6</sup>

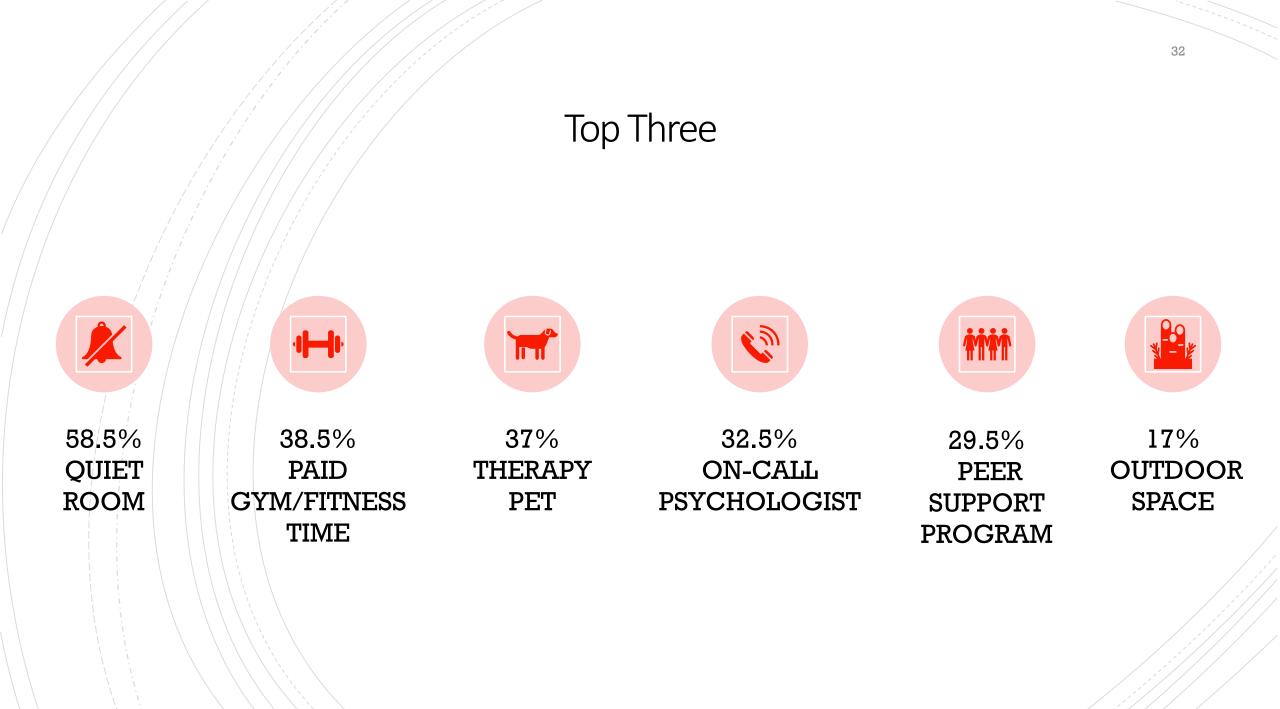


- 37% met diagnostic criteria for PTSD
- 37.5% reported crying at work
- 49.5% reported feeling stressed when there is a shortage of police, fire, and ambulance resources.



Existing Agency Specific Resources

- 77% Employee Assistance Program
- 73.5% Quiet Room
- 71% Peer Support Program
- 50% On-Call Department Psychologist
- 30% Paid Fitness/Gym time
- 29% Team building activities
- 25% Soft Lighting
- 21% Planned Social Events
- 10.5% Therapy Pet
- 6.8% Outdoor Space or Garden



### Other Responses

- Debriefing offered after large incident calls
- More avenues for staff to express their ideas and concerns
- Better communication from management
- Better support from management
- Caring Management
- Better support from HR
- Consistent feed back

- Increased staff
- Suicide awareness workshops
- Better mental health leave
- Breaks
- Massages on shift from students
- More mental health benefits (therapy)
- Meditation space
- More mental Health Training

# Question

- 10.5% have therapy pet
- 37% would like a therapy pet
- The Psychological Awareness and Wellness Support (PAWS) in Alberta
- Do you think a therapy pet would be beneficial in your communication center?









#### 60.5% Lack of Time

52.5% Stigma (others will judge)

#### Barriers to Accessing Services

#### 37% Lack of Employer Support

#### 25.5% Lack of Finances

#### **Other Responses:**

- Unsure of supports available
- Lack of local resources
- Lack of staffing
- Nothing offered
- Lack of knowledge

# Implications



- Educate employees AND management on Mental Health
- Discuss with employees AND management the external resources available
- Apply stress reduction
- Help eliminate stigma
- Discuss with employees concerns they have

### References

- 1. Harnois, G. & Gabriel, P. (2002). Mental Health and Work: Impact, issues, and good practices. *Mental Health Policy and Service Development World Health Organization*.
- 2. Burke, T. (1995, October). Dispatcher Stress. FBI Law Enforcement Bulletin, October, 1-6. Burke, T.W. (2005a). Computer aided dispatch (Vol. 1). In L. E. Sullivan & M. Simonetti (Eds.),
- 3. American Psychiatric Association. (2013). Diagnostic and statistical manual of mental disorders (5th ed.). Arlington, VA: Author. (ISBN 978-0890425558).
- 4. Lilly, M.M., & Allen, C.E. (2015). Psychological inflexibility and psychopathology in 9-1-1 telecommunicators. *Journal of Traumatic Stress*, 28, 262-266. doi: 10.1002/jts.22004
- 5. Regehr, C., LeBlanc, V. R., Barath, I., Balch, J., & Birze, A. (2013). Predictors of physiological stress and psychological distress in police communicators. *Police Practice & Research*, 14(6), 451–463. <u>https://doi-org.proxy.lib.pacificu.edu:2443/10.1080/15614263.2012.736718</u>
- 6. NetCe. (2014) Vicarious Trauma and Resilience. Retrieved from: www.NetCE.com
- 7. Bride, B.E., Robinson, M.R., Yegidis, B., & Figley, C.R. (2004). Development and validation of the Secondary Traumatic Stress Scale. Research on Social Work Practice, 14, 27-35.
- 8. Gurevich, M., Halpern, J., Brazeau, P., & Schwartz, B. (2009). Frontline Stress behind the Scenes: Emergency Medical Dispatchers. Retrieved from: <u>https://vtt.ovc.ojp.gov/ojpasset/Documents/WCUL Front Stress Dispatch-508.pdf</u>
- 9. Donnelly, E., Bradford, P., Davis, M., Hedges, C., & Klingel, M. (2016). Predictors of posttraumatic stress and preferred sources of social support among Canadian paramedics. CJEM, 18(3), 205-212. doi:10.1017/cem.2015.92
- 10. Bride, B. (2007). The prevalence of secondary traumatic stress among social workers. Social Work, 52(1), 63-70.
- 11. Regehr, C., & Bober, Ted. (2005). In the line of fire : Trauma in the emergency services (OUP E-Books). Oxford ; New York: Oxford University Press.
- 12. Adams, K., Shakespeare-Finch, J., & Armstrong, D. (2015). An Interpretative Phenomenological Analysis of Stress and Well-Being in Emergency Medical Dispatchers. *Journal of Loss & Trauma*, 20(5), 430–448. <u>https://doi</u> org.proxy.lib.pacificu.edu:2443/10.1080/15325024.2014.949141
- 13. Pierce, Heather & Lilly, Michelle. (2012). Duty-related trauma exposure in 911 telecommunicators: Considering the risk for posttraumatic stress. Journal of traumatic stress.
  25. 211-5. 10.1002/jts.21687.
- 14. University of Phoenix (2019). Majority of First Responders Face Mental Health Challenges in the Workplace. Retrieved from: <u>https://www.phoenix.edu/about\_us/media-center/news/uopx-releases-first-responder-mental-health-survey-results.html</u>
- 15. World Health Organization. (2014). Mental Health a State of Wellbeing. Retrieved from: https://www.who.int/features/factfiles/mental health/en/





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# QUESTIONS

