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Characteristics of Spiritual and Psychological Preparation of the Population in Emergency Situations

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Abstract: This article offers a thorough analysis of the many emotional states and responses that people encounter in various emergency situations. It explores the complex features of these responses, including the physiological and psychological aspects of stress reactions. The article also looks at the particular methods and techniques used to prepare oneself mentally and spiritually during catastrophes. Examining the substance and core of initiatives meant to strengthen the psychological and spiritual fortitude of communities dealing with emergencies is at the center of the conversation. The article aims to provide light on the complexities of human behavior and coping strategies during times of crisis by carefully examining these variables.

Keywords: emergency situation, mental preparation, adequate reaction, moral preparation, selfmanagement, individuality, physiological, psychological stress

1. Introduction

In the contemporary era marked by a proliferation of both natural and man-made emergencies, individual safety hinges upon factors such as education, responsibility, and informed decision-making during crisis events [1]. Mental training aimed at diverse segments of the population, whether in military or civilian contexts, is essential for fostering the requisite knowledge, skills, and competencies to effectively navigate emergency scenarios. This includes the ability to accurately assess threatening situations, confidently respond to crises, and mitigate the adverse psychological impacts thereof.

Given the escalating frequency of natural disasters, man-made catastrophes, geopolitical conflicts, and information warfare worldwide, humanity's preparedness to confront urgent situations emerges as a paramount concern for global safety. Individuals typically encounter psychological and emotional strain when confronted with emergencies, which may deplete vital internal resources and compromise overall wellbeing [2]. Emotional tiredness and a lack of resources for coping might be signs of this stress [3]. Workers in healthcare environments may have emotional ramifications and strain as a result of exposure to traumatic occurrences such as COVID-19 [1]. Drastic workloads, stress, burnout, and emotional strain are a few of the elements that contribute to emergency care physicians' retention problems [4]. In a similar vein, continuing exposure to critical occurrences puts psychiatric nurses under increased pressure, which results in staffing shortages and difficult working circumstances [5].

Emotional and psychological fragility is common in many settings, particularly in emerging adults, with a notable percentage reporting distress and depressive episodes [6]. Along with emotional, psychological, and social components, spiritual well-being has become recognized as a critical component of thriving [7]. When efforts are not in line with achieving goals, emotional strain can also develop in the workplace [8]. Autonomic

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Copyright: © 2024 by the authors. This work is licensed under a Creative Commons Attribution- 4.0 International License (CC - BY 4.0) functioning may be momentarily strained by techniques such as emotion suppression, especially in those who suffer from post-traumatic stress disorder [9].

Behavioral strain reactions can be preceded by negative emotions, which are identified as strains in early stress processes [10]. Firefighters encounter significant physical, mental, and emotional challenges while working in high-risk emergency situations [11]. Funeral directors and mortuaries may experience emotional distress that extends from their workplaces into their homes [12]. When there is a significant job involvement, work addiction can cause emotional strain that is defined by a greater negative affect and a lower positive affect [13].

Responses to such pressures vary based on individual traits, environmental factors, educational attainment, and familiarity with the incident and associated risks, as well as one's capacity to implement strategies for managing and mitigating emergent circumstances [14,15]. These elements significantly influence how people respond to and lessen unexpected events [16]. People's emotional responses to crises, for example, might differ greatly, with some demographic groups more susceptible to the emotional effects of these situations [16]. Furthermore, functional fear can affect people's sense of dread, perceived danger, moral compass, political inclination, and ensuing behavioral adjustments in reaction to emergencies like as the COVID-19 pandemic [17].

In any complex scenario, an individual's level of preparedness, mental fortitude, and emotional stability are pivotal determinants of their ability to execute deliberate, effective actions amidst crisis. These individual attributes of psychological resilience shape one's readiness to engage in conscious decision-making and contribute to mitigating adverse outcomes during periods of heightened vulnerability.

2. Method

This study uses a literature review method to investigate the features of the population's psychological and spiritual readiness for emergencies. Using keywords linked to emergency scenarios, psychological resilience, and spiritual readiness, the study methodically examines academic journals, books, and reports for pertinent scholarly works without engaging people. Selected literature is rigorously assessed for trustworthiness and relevancy. Finding important conclusions, hypotheses, and frameworks on coping mechanisms, resilience variables, and community reactions is part of the data extraction process. The gathered data is synthesized using thematic analysis to find trends and insights throughout the literature. By taking this approach, the research hopes to further knowledge on how psychological and spiritual aspects might improve resilience and overall wellbeing in times of emergency.

3. Results and Discussion

3.1. Types of response reactions in emergency situations

In any emergency or extreme situation, individuals exhibit response reactions that can be categorized into two main types: adequate and inadequate.

Adequate reactions are characterized by normal responses aimed at addressing and resolving the exigent circumstances while enabling continued activity within the context of the situation. Research conducted by A.M. Stolyarenko et al. indicates that approximately 25-30% of individuals demonstrate the capacity to accurately assess the situation, prioritize collective safety over personal concerns, and undertake actions geared towards mitigating the impact of the emergency on others [18]. This goal-oriented behavior reflects a deliberate plan of action informed by qualitative and sometimes quantitative analysis of the immediate circumstances, thereby revealing the individual's internal and external state.

Key descriptors of adequate reactions in emergency situations, as outlined by A.M. Stolyarenko et al., include [18]:

- 1) Accurate assessment of the situation and decisive decision-making.
- Acknowledgment of behavioral optimality aligned with social norms and values, driven by motivational and ethical considerations.
- Perception of successful outcomes as a result of employing effective strategies and tools to address professional tasks during emergencies.
- 4) Resilience to external and internal adversities, indicative of mental stability and personal safety.

3.2. Improving moral and spiritual preparedness in emergency situations

Enhancing the moral and spiritual preparedness of the populace is essential for effective civil protection efforts during emergencies. Moral training entails instilling patriotic sentiments, a sense of duty towards one's homeland, adherence to cultural traditions, and ethical principles guiding conduct in emergency situations. Psychological preparedness, on the other hand, involves bolstering individuals' psychological resilience to navigate challenges posed by natural disasters, accidents, and crises. This includes developing coping mechanisms to manage moral and physical burdens while retaining the capacity for decision-making, determination, courage, rationality, and proactive engagement in complex circumstances.

Various natural disasters, human-induced accidents, and adverse events evoke profound emotional responses in individuals, necessitating a high level of mental and spiritual preparedness within the population [19]. Such situations demand mental resilience, the capacity to offer aid to victims, and support for rescuers in salvaging material assets. The direct threat to livelihoods inherent in emergency circumstances invariably exerts a significant psychological toll on individuals, occasionally impairing cognitive processes and leading to instances of self-loss and an inability to regulate behavior.

Volunteer rescuers, who frequently possess specific training to preserve mental stability in trying circumstances, are essential to emergency response operations [20]. The accounts of those who have participated in emergency rescue missions throughout the globe underscore the noteworthy psychological consequences of these situations, exhibiting remarkable bravery and perseverance in the face of difficulty [20]. When there is an emergency, laypeople may be prevented from doing rescue operations by psychological obstacles including fear and uncertainty [21]. The physical demands of rescue efforts are further highlighted by the possibility of musculoskeletal injuries resulting from firefighters' extensive training [22].

Emergency rescue responses highlight the need for quick decisions and efficient actions to minimize lives and property damage, particularly in seismic catastrophes [23]. A vital part of China's emergency response system, aviation emergency rescue is essential for epidemic prevention, casualty transfer, and disaster relief [24]. Improved collaboration procedures and techniques are necessary for emergency rescue operations due to the complexity and unpredictability of situations [25]. Moreover, it is imperative that rescue professionals possess psychological resilience in order to effectively manage the difficulties and pressures that arise from catastrophe occurrences [26].

Comprehensive support systems are crucial because of the physical and emotional health of frontline healthcare personnel, particularly their anxiety levels before and during rescue missions [27]. The importance of teamwork, motivation, training, and service innovations in enhancing rescue operations is shown by the engagement of air rescue nurses from both the Italian military and civil service [28]. In order to successfully resolve situations involving missing persons, police search and rescue personnel must get training [29]. Furthermore, emergency response workers' psychological health is essential for handling the emotional strains of their jobs [30].

Conversely, individuals lacking adequate mental preparation and training may succumb to fear, panic, and even states of mental shock, resulting in muscular rigidity and immobility. The intensity of fear and panic experienced during emergencies can disrupt cognitive functioning, leading to a loss of volitional control and emotional regulation. Tragically, instances of individuals experiencing cardiac arrest or cerebral malfunction due to extreme fear in emergency contexts are regrettably not uncommon.

3.3. Addressing intense fear and panic in emergency situations

To address individuals experiencing acute fear, panic, and psychological strain during emergency situations, several strategies can be employed.

Firstly, empirical evidence suggests that redirecting the attention of individuals undergoing significant mental distress towards engaging activities, particularly group activities, can effectively mitigate their distress and foster mental stability [27,28,29]. For instance, physical activity, participation in organized activities, and social support have been associated with reduced mental distress among adults [31]. Moreover, work engagement and a supportive work environment have been linked to lower psychological distress among professionals, highlighting the importance of positive engagement in work settings [34].

Secondly, enhancing the mental resilience of the populace in emergency scenarios necessitates ongoing preparation and fortification of individuals' willpower. This entails fostering and reinforcing essential psychological attributes through comprehensive education and training programs tailored to specific localities or communities [31,32,33].

Research suggests that in times of public health catastrophes like the COVID-19 pandemic, resilience is an important target for psychological intervention [35]. It has been determined that coping mechanisms, resilience, and posttraumatic development are essential for improving well-being in both healthcare and non-healthcare workers [36]. Resilience tactics can be fostered in particular populations, such as young female athletes, to boost performance, pleasure, and important life skills [37].

Enhancing capacity, improving public health outcomes, and involving communities are all necessary for interventions aimed at building community resilience to catastrophes [38]. Planning beforehand and receiving training in resilience can significantly lower the likelihood that a crisis like the COVID-19 pandemic would result in subpar psychological functioning [39]. Encouraging resilience in those suffering from mental illness is crucial to improving their quality of life [40]. Such initiatives should aim to cultivate qualities such as self-control, composure, rationality, and adept decision-making under duress. Practical application and experiential learning methodologies are essential components in instilling these attributes effectively.

Furthermore, bolstering the psychological fortitude and resilience of personnel across all sectors is imperative. This involves cultivating self-management skills, adherence to prescribed protocols, mutual support amongst colleagues, and fostering effective team dynamics adaptable to various emergent scenarios. Leveraging societal resources, encompassing spiritual, mental, intellectual, and material facets, in both prevention and mitigation efforts is crucial in preparing the populace to respond adeptly to emergencies [41].

The preparedness of individuals to confront emergencies is paramount in mitigating the repercussions of such events. Leadership plays a pivotal role in facilitating prompt and judicious decision-making during crises, thereby ensuring the safety and well-being of citizens. Effective leaders exhibit the ability to mobilize and lead teams with composure, equanimity, and discipline, thereby instilling confidence and resilience among their subordinates. People's responses to health measures and limits can also be influenced by leadership styles and emotional control during times of crisis. These factors might alter citizen compliance and trust [42]. Business models in a variety of sectors and firm sizes may quickly adjust as a result of the economic effects of crises like the COVID-19 pandemic [43]. The emotional experiences and coping strategies that agile teams employ in times of crisis can differ greatly, which highlights the need of emotional leadership [44].

Moreover, instilling unwavering confidence in one's capabilities and those of their

team is essential in preventing succumbing to panic and fear during exigencies. Doubt in one's competence fosters a weakening of resolve, potentially precipitating widespread panic and exacerbating the severity of emergency situations. Hence, cultivating steadfastness and confidence within individuals and leadership cadres is fundamental in bolstering societal preparedness and resilience against unforeseen eventualities [40,41,42].

Research has indicated that interventions aimed at fostering self-assurance, such leadership development courses and training courses, can improve people's readiness and desire to work in times of emergency or catastrophe [48]. For example, in times of crisis like the COVID-19 epidemic, genuine leaders like Clinical Nurse Specialists (CNSs) have been successful in fostering serenity, trust, and resilience among healthcare personnel [49]. Additionally, managers' agencies are more likely to actively participate in preparation efforts when they believe their agency can handle catastrophes and perceive a high degree of hazard threats [50].

As suggested by the research, developing a confidence scale can aid in evaluating and boosting people's confidence in handling difficult circumstances, especially in clinical settings [45]. Furthermore, knowing the factors that influence emergency preparation in various populations—like senior citizens or dentistry students—can help improve confidence and readiness for handling situations.

4. Conclusion

In summary, individuals of all ages require assistance when faced with emergencies and challenging life circumstances. Instances such as alterations in living circumstances, bereavement, physical injuries, and analogous situations often induce psychological distress, including feelings of panic, fear, guilt, anger, indifference, irritability, and anxiety.

Developing the ability to offer both emotional and spiritual support to others and oneself during such adversities is beneficial not only for aiding those in need but also for navigating personal challenges and fostering resilience. This acquisition of supportive skills facilitates the provision of aid to others while concurrently empowering individuals to overcome their own difficulties and regain emotional fortitude.

References

- N. Garmezy and E. Devine, "Project competence: The Minnesota studies of children vulnerable to psychopathology," in *Children at Risk for Schizophrenia: A Longitudinal Perspective*, N. F. Watt, E. J. Anthony, N. F. Wynne, and J. E. Roff, Eds., Cambridge: Cambridge University Press, 1984.
- [2] R. Buselli *et al.*, "Professional quality of life and mental health outcomes among health care workers exposed to sars-cov-2 (covid-19)," *Int. J. Environ. Res. Public. Health*, vol. 17, no. 17, p. 6180, 2020, doi: 10.3390/ijerph17176180.
- [3] S. Rice, A. Parker, D. Mawren, P. Clifton, P. Harcourt, and M. Lloyd, "Preliminary psychometric validation of a brief screening tool for athlete mental health among male elite athletes: The Athlete Psychological Strain Questionnaire," *Int. J. Sport Exerc. Psychol.*, vol. 18, no. 6, pp. 850–865, 2019, doi: 10.1080/1612197X.2019.1611900.
- [4] D. Darbyshire, L. Brewster, R. Isba, R. Body, U. Basit, and D. Goodwin, "Retention of doctors in emergency medicine: A scoping review of the academic literature," *Emerg. Med. J.*, vol. 38, no. 9, pp. 663–672, 2021, doi: 10.1136/emermed-2020-210450.
- [5] S. Liu, "Relationship between emotional intelligence and job stressors of psychiatric nurses: A multi-centre crosssectional study," J. Clin. Nurs., vol. 32, no. 21–22, pp. 7730–7739, 2023, doi: 10.1111/jocn.16865.
- [6] S. Chy, "Emerging adulthood: Impacts of adult care on education, work, and well-being," *Emerg. Adulthood*, vol. 11, no. 5, pp. 1106–1118, 2023, doi: 10.1177/21676968231166987.
- [7] E. Rudolph and A. Barnard, "The Cinderella of positive psychology: Spiritual well-being as an emerging dimension of flourishing in pastoral work," *Int. J. Qual. Stud. Health Well-Being*, vol. 18, no. 1, 2023, doi: 10.1080/17482631.2023.2170767.
- [8] T. Lennefer, D. Reis, E. Lopper, and A. Hoppe, "A step away from impaired well-being: A latent growth curve analysis of an intervention with activity trackers among employees," *Eur. J. Work Organ. Psychol.*, vol. 29, no. 5, pp.

664-677, 2020, doi: 10.1080/1359432x.2020.1760247.

- [9] A. Seligowski, I. Fonkoue, N. Noble, D. Dixon, R. Gluck, and Y. Kim, "Vagal control moderates the association between endothelial function and PTSD symptoms in women with T2DM," *Brain Behav. Immun.-Health*, vol. 26, p. 100527, 2022, doi: 10.1016/j.bbih.2022.100527.
- [10] Y. Peng, Y. Park, S. Su, and J. Ma, "Developing and testing a model of dynamic changes in work–school conflict and workplace deviance over time," *J. Bus. Psychol.*, vol. 38, no. 3, pp. 589–605, 2022, doi: 10.1007/s10869-022-09841z.
- [11] E. Michinov, "The moderating role of emotional intelligence on the relationship between conflict management styles and burnout among firefighters," *Saf. Health Work*, vol. 13, no. 4, pp. 448–455, 2022, doi: 10.1016/j.shaw.2022.07.001.
- [12] G. Guidetti, A. Grandi, D. Converso, N. Bosco, S. Fantinelli, and M. Zito, "Funeral and mortuary operators: The role of stigma, incivility, work meaningfulness and work–family relation to explain occupational burnout," *Int. J. Environ. Res. Public. Health*, vol. 18, no. 13, p. 6691, 2021, doi: 10.3390/ijerph18136691.
- [13] C. Balducci, P. Spagnoli, L. Avanzi, and M. Clark, "A daily diary investigation on the job-related affective experiences fueled by work addiction," *J. Behav. Addict.*, vol. 9, no. 4, pp. 967–977, 2021, doi: 10 .1556/2006.2020.00102.
- [14] T. V. Rogacheva, G. V. Zalevsky, and T. E. Levitskaya, Psychology of Extreme Situations and States. Tomsk, 2015.
- [15] Yu. Shoigu, Psychology of Extreme Situations for Rescuers and Firefighters. Moscow, 2007.
- [16] S. Alkalay and A. Dolev, "Enabling young elementary-school children to ask questions on a school-based internet forum operated by educational psychologists," *Psychol. Sch.*, vol. 60, no. 8, pp. 2932–2952, 2023, doi: 10.1002/pits.22905.
- [17] C. Harper, L. Satchell, D. Fido, and R. Latzman, "Functional fear predicts public health compliance in the COVID-19 pandemic," *Int. J. Ment. Health Addict.*, vol. 19, no. 5, pp. 1875–1888, 2020, doi: 10.1007/s11469-020-00281-5.
- [18] A. M. Stolyarenko, N. V. Serdyuk, and O. V. Filimonov, "Social Psychological Factors of Pedagogical Partnership between Society and Police," *Psychol. Sci. Educ.*, vol. 22, no. 4, pp. 93–100, 2017, doi: 10.17759/pse.2017220413.
- [19] Y. Fayziev and E. Eshboev, General and Medical Psychology. Tashkent, 2009.
- [20] Y. Liu, Z. Zhai, Y. Han, Y. Liu, F. Liu, and D. Hu, "Experiences of front-line nurses combating coronavirus disease-2019 in China: a qualitative analysis," *Public Health Nurs.*, vol. 37, no. 5, pp. 757–763, 2020, doi: 10.1111/phn.12768.
- [21] H. Shida, C. Nishiyama, S. Okabayashi, Y. Yamamoto, T. Shimamoto, and T. Kawamura, "Laypersons' psychological barriers against rescue actions in emergency situations–a questionnaire survey," *Circ. J.*, vol. 86, no. 4, pp. 679–686, 2022, doi: 10.1253/circj.cj-21-0341.
- [22] C. Gong, "Investigation and analysis of training injury and its psychological effects on firefighters in Beijing a cross-sectional study," *Medicine (Baltimore)*, vol. 102, no. 38, p. e35179, 2023, doi: 10.1097/md.00000000035179.
- [23] Z. Zhou, X. Zhang, M. Li, X. Wang, B. Chen, and Z. Xue, "Research on emergency rescue response in Wenchuan County in China based on Baidu map navigation data," *Int. Arch. Photogramm. Remote Sens. Spat. Inf. Sci.*, vol. XLVIII-3/W1-2022, pp. 111–117, 2022, doi: 10.5194/isprs-archives-xlviii-3-w1-2022-111-2022.
- [24] Y. Li, Z. Liu, K. Chen, J. Qi, and C. Li, "Research on modular scheme of aviation emergency rescue for natural disasters," J. Phys. Conf. Ser., vol. 2364, no. 1, p. 012030, 2022, doi: 10.1088/1742-6596/2364/1/012030.
- [25] J. Liu, Y. Song, S. An, and C. Dong, "How to improve the cooperation mechanism of emergency rescue and optimize the cooperation strategy in China: a tripartite evolutionary game model," *Int. J. Environ. Res. Public. Health*, vol. 19, no. 3, p. 1326, 2022, doi: 10.3390/ijerph19031326.
- [26] X. Mao, X. Hu, and A. Loke, "A concept analysis on disaster resilience in rescue workers: the psychological perspective," *Disaster Med. Public Health Prep.*, vol. 16, no. 4, pp. 1682–1691, 2021, doi: 10.1017/dmp.2021.157.
- [27] X. Sun, Z. Wang, H. Liu, M. Ren, and D. Feng, "Physical and mental health problems of Chinese front-line healthcare workers before, during and after the COVID-19 rescue mission: a qualitative study," *BMJ Open*, vol. 12, no. 10, p. e059879, 2022, doi: 10.1136/bmjopen-2021-059879.
- [28] F. Loi, M. Lucchetta, C. Mameli, R. Rosmarino, G. Oppes, and R. Fuentes, "Study on the new role of civil and military air rescue nurses in the Italian context," *Nurs. Rep.*, vol. 13, no. 1, pp. 480–495, 2023, doi: 10.3390/nursrep13010044.
- [29] L. Ferguson and J. Gaub, "Training police search and rescue teams: Implications for missing persons work," *Criminol. Crim. Justice*, vol. 23, no. 3, pp. 431–449, 2021, doi: 10.1177/17488958211057380.

- [30] I. Kovacs, A. Gireada, A. Irimia, and L. Munteanu, "Research on psychosocial risks in the context of intervention and rescue activities in toxic/flammable/explosive environments," *Matec Web Conf.*, vol. 342, p. 01007, 2021, doi: 10.1051/matecconf/202134201007.
- [31] T. Stea, S. Solaas, and A. Kleppang, "Association between physical activity, sedentary time, participation in organized activities, social support, sleep problems and mental distress among adults in southern Norway: A cross-sectional study among 28,047 adults from the general population," *BMC Public Health*, vol. 22, no. 1, 2022, doi: 10.1186/s12889-022-12769-x.
- [32] J. Gómez-Salgado, S. Domínguez-Salas, M. Romero-Martín, A. Romero, V. Coronado-Vázquez, and C. Ruiz-Frutos, "Work engagement and psychological distress of health professionals during the COVID-19 pandemic," J. Nurs. Manag., vol. 29, no. 5, pp. 1016–1025, 2021, doi: 10.1111/jonm.13239.
- [33] D. Mitchell, D. Bressington, D. Esler, K. Straube, L. Noel-Gough, and L. Vermeulen, "The psychological well-being of people in a COVID-19 supervised quarantine facility: A mixed methods study," *J. Psychiatr. Ment. Health Nurs.*, vol. 30, no. 5, pp. 952–962, 2023, doi: 10.1111/jpm.12914.
- [34] N. Jaffer, T. Muniyapillai, K. Kulothungan, S. Rizvana, and S. Thirunavukkarasu, "The effect of physical activity and sedentary behavior on mental health during the COVID-19 pandemic among the adult population in the rural area of Perambalur: A cross-sectional study," *Cureus*, 2023, doi: 10.7759/cureus.36891.
- [35] A. Walton, J. Marr, M. Cahillane, and K. Bush, "Building community resilience to disasters: A review of interventions to improve and measure public health outcomes in the northeastern United States," *Sustainability*, vol. 13, no. 21, p. 11699, 2021, doi: 10.3390/su132111699.
- [36] T. Kavčič, A. Avsec, and G. Kocjan, "Psychological functioning of Slovene adults during the COVID-19 pandemic: Does resilience matter?," *Psychiatr. Q.*, vol. 92, no. 1, pp. 207–216, 2020, doi: 10.1007/s11126-020-09789-4.
- [37] S. Chuang, J. Wu, and C. Wang, "Resilience and quality of life in people with mental illness: A systematic review and meta-analysis," *Neuropsychiatr. Dis. Treat.*, vol. Volume 19, pp. 507–514, 2023, doi: 10.2147/ndt.s392332.
- [38] I. Hendrikx, S. Vermeulen, V. Wientjens, and R. Mannak, "Is team resilience more than the sum of its parts? A quantitative study on emergency healthcare teams during the COVID-19 pandemic," *Int. J. Environ. Res. Public. Health*, vol. 19, no. 12, p. 6968, 2022, doi: 10.3390/ijerph19126968.
- [39] J. Wild, S. El-Salahi, M. Esposti, and G. Thew, "Evaluating the effectiveness of a group-based resilience intervention versus psychoeducation for emergency responders in England: A randomised controlled trial," *Plos One*, vol. 15, no. 11, p. e0241704, 2020, doi: 10.1371/journal.pone.0241704.
- [40] E. Suarez, H. Oakes, and E. McGrath, "Resilience pathways and help-seeking preferences for Ontario police services," J. Community Saf. Well-Being, vol. 8, no. 1, pp. 23–32, 2023, doi: 10.35502/jcswb.307.
- [41] S. Anastazi and S. Urbina, *Psychological Testing*. Saint Petersburg: 11m gsr, 2003.
- [42] B. Naughton, D. O'Shea, L. Werff, and F. Buckley, "Influencing a nation: How a leader's interpersonal emotion regulation influences citizen compliance via trust and emotions during a global pandemic," *Emotion*, vol. 24, no. 1, pp. 196–212, 2024, doi: 10.1037/emo0001262.
- [43] S. Kraus, T. Clauß, M. Breier, J. Gast, A. Zardini, and V. Tiberius, "The economics of COVID-19: initial empirical evidence on how family firms in five European countries cope with the corona crisis," *Int. J. Entrep. Behav. Res.*, vol. 26, no. 5, pp. 1067–1092, 2020, doi: 10.1108/ijebr-04-2020-0214.
- [44] M. Renault and M. Tarakci, "Affective leadership in agile teams," *Calif. Manage. Rev.*, vol. 65, no. 4, pp. 137–157, 2023, doi: 10.1177/00081256231179993.
- [45] M. Sultan, J. Sørensen, E. Carlström, L. Mortelmans, and A. Khorram-Manesh, "Emergency healthcare providers' perceptions of preparedness and willingness to work during disasters and public health emergencies," *Healthcare*, vol. 8, no. 4, p. 442, 2020, doi: 10.3390/healthcare8040442.
- [46] H. AlHarastani, Y. Alawad, B. Devi, B. Mosqueda, V. Tamayo, and F. Kyounge, "Emergency and disaster preparedness at a tertiary medical city," *Disaster Med. Public Health Prep.*, vol. 15, no. 4, pp. 458–468, 2020, doi: 10.1017/dmp.2020.28.
- [47] S. Bell, D. Singer, E. Solway, M. Kirch, J. Kullgren, and P. Malani, "Predictors of emergency preparedness among older adults in the United States," *Disaster Med. Public Health Prep.*, vol. 15, no. 5, pp. 624–630, 2020, doi: 10.1017/dmp.2020.80.
- [48] C. Solanki, M. Geisinger, P. Luepke, K. Al-Bitar, L. Palomo, and W. Lee, "Assessing readiness to manage medical emergencies among dental students at four dental schools," *J. Dent. Educ.*, vol. 85, no. 9, pp. 1462–1470, 2021, doi:

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10.1002/jdd.12640.

- [49] A. Ladak, B. Lee, and J. Sasinski, "Clinical nurse specialist expands to crisis management role during COVID-19 pandemic," *Clin. Nurse Spec.*, vol. 35, no. 6, pp. 291–299, 2021, doi: 10.1097/nur.0000000000632.
- [50] T. Xiang, "Understanding emergency preparedness in public agencies: The key role of managerial perceptions," *Adm. Soc.*, vol. 54, no. 3, pp. 424–450, 2021, doi: 10.1177/00953997211031224.