

Canadian Institute for Military and Veteran Health Research Forum (CIMVHR) 2024

“Examining Associations between Adverse Childhood Experiences, Potentially Psychologically Traumatic Events and Mental Health among Royal Canadian Mounted Police (RCMP) Cadets entering the Depot Training Program.”

J-A McCarthy, T.A. Teckchandani, L. Jamshidi, D.M. Caissie, T.L. Taillieu, L. MacGowan, I. Garces Davila, L.M. Lix, S.H. Stewart, S. Sauer-Zavala, G.P. Krätzig, J. Sareen, R.N. Carleton, T.O. Afifi

Poster References

- American Psychiatric Association (2013). *Diagnostic and statistical manual of mental disorders*. 5th ed. Washington, DC.
- Ashbaugh, A. R., Houle-Johnson, S., Herbert, C., El-Hage, W., and Brunet, A. (2016). Psychometric Validation of the English and French Versions of the Posttraumatic Stress Disorder Checklist for DSM-5 (PCL-5). *PloS One* 11, e0161645. doi: 10.1371/journal.pone.0161645.
- Bernstein DP, Fink L. Childhood trauma questionnaire : a retrospective selfreport. San Antonio: Harcourt Brace & Co.; 1998.
- Blevins, C. A., Weathers, F. W., Davis, M. T., Witte, T. K., and Domino, J. L. (2015). The Posttraumatic Stress Disorder Checklist for DSM-5 (PCL-5): Development and initial psychometric evaluation. *J. Trauma. Stress* 28, 489–498. doi: 10.1002/jts.22059.
- Bovin, M. J., Marx, B. P., Weathers, F. W., Gallagher, M. W., Rodriguez, P., Schnurr, P. P., et al. (2016). Psychometric properties of the PTSD Checklist for Diagnostic and Statistical Manual of Mental Disorders-Fifth Edition (PCL-5) in veterans. *Psychol. Assess.* 28, 1379–1391. doi: 10.1037/pas0000254.
- Carleton, R. N., Collimore, K. C., Asmundson, G. J. G., McCabe, R. E., Rowa, K., and Antony, M. M. (2009). Refining and validating the Social Interaction Anxiety Scale and the Social Phobia Scale. *Depress. Anxiety* 26, E71-81. doi: 10.1002/da.20480.
- Carleton, R. N., Afifi, T. O., Turner, S., Taillieu, T., Duranceau, S., LeBouthillier, D. M., Sareen, J., Ricciardelli, R., MacPhee, R. S., Groll, D., Hozempa, K., Brunet, A., Weekes, J. R., Griffiths, C. T., Abrams, K. J., Jones, N. A., Beshai, S., Cramm, H. A., Dobson, K. S., ... Asmundson, G. J. G. (2018). Mental Disorder Symptoms among Public Safety Personnel in Canada. *Canadian Journal of Psychiatry*, 63(1), 54–64. <https://doi.org/10.1177/0706743717723825>
- Carleton, R. N., Afifi, T. O., Taillieu, T., Turner, S., Krakauer, R., Anderson, G. S., MacPhee, R. S., Ricciardelli, R., Cramm, H. A., Groll, D., & McCreary, D. R. (2019). Exposures to potentially traumatic events among public safety personnel in Canada. *Canadian Journal of Behavioural Science*, 51(1), 37–52. <https://doi.org/10.1037/cbs0000115>
- Carleton, R. N., Afifi, T. O., Taillieu, T., Turner, S., Mason, J. E., Ricciardelli, R., McCreary, D. R., Vaughan, A. D., Anderson, G. S., Krakauer, R. L., Donnelly, E. A., Camp, R. D., Groll, D., Cramm, H. A., MacPhee, R. S., & Griffiths, C. T. (2020). Assessing the Relative Impact of Diverse Stressors among Public Safety Personnel. *International Journal of Environmental Research and Public Health*, 17(4), 1234. <https://doi.org/10.3390/ijerph17041234>

- Carleton, R. N., Krätzig, G. P., Sauer-Zavala, S., Neary, J. P., Lix, L. M., Fletcher, A. J., et al. (2022). The Royal Canadian Mounted Police (RCMP) study: Protocol for a prospective investigation of mental health risk and resilience factors. *Health Promot. Chronic Dis. Prev. Can.* 42, 319–333. doi: 10.24095/hpcdp.42.8.02.
- Cohen, J. (2013). *Statistical Power Analysis for the Behavioral Sciences*. Routledge doi: 10.4324/9780203771587.
- Felitti VJ, Anda RF, Nordenberg D, Williamson DF, Spitz a M, Edwards V, et al. relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults. The adverse childhood experiences (ACE) study. *Am J Prev Med.* 1998;14:245–58.
- Ford DC, Merrick MT, Parks SE, Breiding MJ, Gilbert LK, Edwards VJ, et al. Examination of the factorial structure of adverse childhood experiences and recommendations for three subscale scores. *Psychol Violence.* 2014;4:432–44.
- Gache, P., Michaud, P., Landry, U., Accietto, C., Arfaoui, S., Wenger, O., et al. (2005). The Alcohol Use Disorders Identification Test (AUDIT) as a screening tool for excessive drinking in primary care: Reliability and validity of a French version. *Alcohol. Clin. Exp. Res.* 29, 2001–2007. doi: 10.1097/01.alc.0000187034.58955.64.
- Heber, A., Testa, V., Groll, D., Ritchie, K., Tam-Seo, L., Mulligan, A., Sullo, E., Schick, A., Bose, E., Jabbari, Y., Lopes, J., & Carleton, R. N. (2023). Glossary of terms: A shared understanding of the common terms used to describe psychological trauma, version 3.0. *Health Promot Chronic Dis Prev Can*, 43(10/11). <https://doi.org/10.24095/hpcdp.43.10/11.09>
- Hembroff, C. C., & Kratzig, G. P. (2020). A 5-Year Perspective of Attrition in Relation to Employment Equity. *Royal Canadian Mounted Police: Research and Strategic Partnerships*.
- Houck, P. R., Spiegel, D. A., Shear, M. K., and Rucci, P. (2002). Reliability of the self-report version of the Panic Disorder Severity Scale. *Depress. Anxiety* 15, 183–185. doi: 10.1002/da.10049.
- Klimley, K. E., Van Hasselt, V. B., & Stripling, A. M. (2018). Posttraumatic stress disorder in police, firefighters, and emergency dispatchers. *Aggression and Violent Behavior*, 43, 33–44. <https://doi.org/10.1016/j.avb.2018.08.005>
- Korol, S., Vig, K. D., Sapach, M. J. N. T., Asmundson, G. J. G., & Carleton, R. N. (2021). Demographic and cognitive risk factors for police mental disorder symptoms. *The Police Journal: Theory, Practice and Principles*, 94(1), 40–57. <https://doi.org/10.1177/0032258X19894619>
- Kroenke, K., Spitzer, R. L., and Williams, J. B. (2001). The PHQ-9: validity of a brief depression severity measure. *J. Gen. Intern. Med.* 16, 606–613. doi: 10.1046/j.1525-1497.2001.016009606.x.
- Löwe, B., Decker, O., Müller, S., Brähler, E., Schellberg, D., Herzog, W., & Herzberg, P. Y. (2008). Validation and standardization of the Generalized Anxiety Disorder Screener (GAD-7) in the general population. *Medical Care*, 46(3), 266–274. <https://doi.org/10.1097/MLR.0b013e318160d093>

- Manea, L., Gilbody, S., and McMillan, D. (2015). A diagnostic meta-analysis of the Patient Health Questionnaire-9 (PHQ-9) algorithm scoring method as a screen for depression. *Gen. Hosp. Psychiatry* 37, 67–75. doi: 10.1016/j.genhosppsy.2014.09.009.
- Saunders, J. B., Aasland, O. G., Babor, T. F., De La Fuente, J. R., and Grant, M. (1993). Development of the Alcohol Use Disorders Identification Test (AUDIT): WHO collaborative project on early detection of persons with harmful alcohol consumption-II. *Addiction* 88, 791–804. doi: 10.1111/j.1360-0443.1993.tb02093.x.
- Shear, M. K., Brown, T. A., Barlow, D. H., Money, R., Sholomskas, D. E., Woods, S. W., et al. (1997). Multicenter Collaborative Panic Disorder Severity Scale. *Am. J. Psychiatry* 154, 1571–1575. doi: 10.1176/ajp.154.11.1571.
- Sherwood, L., Hegarty, S., Vallières, F., Hyland, P., Murphy, J., Fitzgerald, G., & Reid, T. (2019). Identifying the Key Risk Factors for Adverse Psychological Outcomes Among Police Officers: A Systematic Literature Review. *Journal of Traumatic Stress*, 32(5), 688–700. <https://doi.org/10.1002/jts.22431>
- Statistics Canada. Canadian Community Health Survey (CCHS) - Mental Health user guide. Ottawa; 2013 <http://www.statcan.gc.ca/daily-quotidien/130918/dq130918a-eng.htm>
- Spitzer, R. L., Kroenke, K., Williams, J. B. W., and Löwe, B. (2006). A brief measure for assessing generalized anxiety disorder: the GAD-7. *Arch. Intern. Med.* 166, 1092–1097. doi: 10.1001/archinte.166.10.1092.
- Swinson, R. P. (2006). The GAD-7 scale was accurate for diagnosing generalised anxiety disorder. *Evid. Based Med.* 11, 184. doi: 10.1136/ebm.11.6.184.
- Walsh CA, MacMillan HL, Trocmé N, Jamieson E, Boyle MH. Measurement of victimization in adolescence: development and validation of the childhood experiences of violence questionnaire. *Child Abuse Negl.* 2008;32:1037–57. <https://doi.org/10.1016/j.chiabu.2008.05.003>.
- Weathers, F. W., Litz, B. T., Keane, T. M., Palmieri, P. A., Marx, B. P., and Schnurr, P. P. (2013). PTSD Checklist for Military. *Natl. Cent. PTSD*, 94.