

# Evidence Base for the Impact of Trauma and Trauma Informed Practice

## ✘ Higher risk of further harm



Almost half of childhood sexual abuse survivors report experiencing sexual victimisation in the future.<sup>1</sup>



Just one year after implementation, a trauma-informed child welfare system reported a 15% reduction in substantiated reports of maltreatment.<sup>2</sup>

## ✘ Higher rates of substance use and other health harming behaviours



Childhood maltreatment predicts a 73-74% higher risk of developing substance use problems<sup>3</sup>, and a 3.4x greater risk of self-injury.<sup>4</sup>



A trauma-informed substance use service resulted in a 31% lower rate of treatment dropout, with longer treatment leading to improved outcomes.<sup>5</sup>

## ✘ Higher risk of all mental health difficulties



Ambulance staff exposed to trauma are at a significantly greater risk of developing PTSD, depression, anxiety, and severe psychological distress.<sup>6</sup>



Staff members at trauma-informed practice sites had lower stress levels indicated by lower hair cortisol concentrations and experienced lower rates of exposure to physical aggression after 3 years.<sup>7</sup>

## ✘ Higher rates of preventable disease



Chronic stress<sup>8</sup>, health-related coping behaviours (e.g. smoking, drugs, alcohol, fatty foods)<sup>9</sup>, having lower trust in staff and avoidance of healthcare<sup>10</sup> increases the risks of poorer health. In fact, people who reported four or more adverse childhood experiences were more likely to develop diabetes, cardiovascular disease, cancer, liver disease, and respiratory disease<sup>11,12</sup>.



Trauma-informed care across a multi-disciplinary health centre led to an improvement in access to preventative care, perceived control and safety, and satisfaction with services<sup>13</sup>.

## ✘ Higher risk of early death



People with six or more adverse childhood experiences died nearly 20 years earlier on average<sup>14</sup>.



Implementation of trauma informed practice across a whole hospital network improved health outcomes, engagement with healthcare treatment, increased staff competence and reduced costs.<sup>15</sup>

## ✘ Educational difficulties



In Scotland, the higher the number of adverse events in childhood, the more likely people were to have no formal qualifications<sup>12</sup>. Trauma, coping by using substances, difficulties managing emotions, and belonging to minority race are associated with dropping out of education.<sup>16</sup>



<sup>17</sup>One year after a school-wide trauma informed implementation, disciplinary referrals decreased by 32%, and by 87% at 5 years post implementation.

## ✘ Relationship risks



Survival responses such as appeasing threatening people, using verbal or physical aggression, freezing or avoiding other people, can create risks in relationships and increase social isolation<sup>18</sup>.



A trauma-informed housing shelter for survivors of interpersonal violence showed a 98.9% reported increase in safety and understanding of domestically violent relationships, and survivors retained safe housing at a 3 month follow-up<sup>19</sup>.

## ✘ Contact with the criminal justice system



91% of females in a Scottish prison had experiences of both childhood and adulthood trauma<sup>20</sup>.



A trauma-informed juvenile justice facility found that youth misconduct reduced by 6.7 incidents per 100 days; there were reduced assaults and confinement, and a decreased fear for safety<sup>21</sup>.

## ✘ Reduced opportunities



Scottish adults diagnosed with Complex PTSD were found to have a lower chance of being in part- or full-time employment, of being married, and more likely to be living alone<sup>22</sup>.



Refugees reported building a sense of community, an expansion of social networks, and support systems following a 3 year trauma-informed resettlement program<sup>23</sup>.



✘ Higher risk of further harm

<sup>1</sup>Walker, H. E., Freud, J. S., Ellis, R. A., Fraine, S. M., & Wilson, L. C. (2019). The prevalence of sexual revictimization: A meta-analytic review. *Trauma, Violence, & Abuse*, 20(1), 67-80.

<sup>2</sup>Barto, B., Bartlett, J. D., Von Ende, A., Bodian, R., Noroña, C. R., Griffin, J., ... & Todd, M. (2018). The impact of a statewide trauma-informed child welfare initiative on children’s permanency and maltreatment outcomes. *Child abuse & neglect*, 81, 149-160.

✘ Higher rates of substance use and other health harming behaviours

<sup>3</sup>Halpern, S. C., Schuch, F. B., Scherer, J. N., Sordi, A. O., Pachado, M., Dalbosco, C., ... & Von Diemen, L. (2018). Child maltreatment and illicit substance abuse: A systematic review and meta-analysis of longitudinal studies. *Child Abuse Review*, 27(5), 344-360.

<sup>4</sup>Liu, R. T., Scopelliti, K. M., Pittman, S. K., & Zamora, A. S. (2018). Childhood maltreatment and non-suicidal self-injury: a systematic review and meta-analysis. *The Lancet Psychiatry*, 5(1), 51-64.

<sup>5</sup>Amaro, H., Chernoff, M., Brown, V., Arévalo, S., & Gatz, M. (2007). Does integrated trauma-informed substance abuse treatment increase treatment retention?. *Journal of Community Psychology*, 35(7), 845-862.

✘ Higher risk of all mental health difficulties

<sup>6</sup>Petrie, K., Milligan-Saville, J., Gayed, A., Deady, M., Phelps, A., Dell, L., ... & Harvey, S. B. (2018). Prevalence of PTSD and common mental disorders amongst ambulance personnel: a systematic review and meta-analysis. *Social psychiatry and psychiatric epidemiology*, 53, 897-909.

<sup>7</sup>Schmid, M., Lüdtke, J., Dolitzsch, C., Fischer, S., Eckert, A., & Fegert, J. M. (2020). Effect of trauma-informed care on hair cortisol concentration in youth welfare staff and client physical aggression towards staff: results of a longitudinal study. *BMC public health*, 20, 1-11.

✘ Higher rates of preventable disease

<sup>8</sup>Morris, M. C., Hellman, N., Abelson, J. L., & Rao, U. (2016). Cortisol, heart rate, and blood pressure as early markers of PTSD risk: A systematic review and meta-analysis. *Clinical psychology review*, 49, 79-91.

<sup>9</sup>Pacella, M. L., Hruska, B., & Delahanty, D. L. (2013). The physical health consequences of PTSD and PTSD symptoms: a meta-analytic review. *Journal of anxiety disorders*, 27(1), 33-46.

<sup>10</sup>Selwyn, C. N., Lathan, E. C., Richie, F., Gigler, M. E., & Langhinrichsen-Rohling, J. (2021). Bitten by the system that cared for them: Towards a trauma-informed understanding of patients’ healthcare engagement. *Journal of Trauma & Dissociation*, 22(5), 636-652.

<sup>11</sup>Hughes, K., Bellis, M. A., Hardcastle, K. A., Sethi, D., Butchart, A., Mikton, C., ... & Dunne, M. P. (2017). The effect of multiple adverse childhood experiences on health: a systematic review and meta-analysis. *The Lancet Public Health*, 2(8), e356-e366.

<sup>12</sup>The Scottish Government. 2019. Scottish Health Survey [online]. Available at: <https://www.gov.scot/publications/scottish-health-survey-2019-volume-1-main-report/pages/11/>

<sup>13</sup>Brooks, M., Barclay, L., & Hooker, C. (2018). Trauma-informed care in general practice: ‘Findings from a women’s health centre evaluation’. *Australian journal of general practice*, 47(6), 370-375.



✘ Higher risk of early death

<sup>14</sup>Brown, D. W., Anda, R. F., Tiemeier, H., Felitti, V. J., Edwards, V. J., Croft, J. B., & Giles, W. H. (2009). Adverse childhood experiences and the risk of premature mortality. *American journal of preventive medicine*, 37(5), 389-396.

<sup>15</sup>Briggs R. Expanding Awareness and Screening for ACEs in the Bronx: Montefiore Medical Group. In: Center for Health Care Strategies (CHCS). Trauma Informed Care In Action Profile Series. Online: Montefiore Medical Group, 2018

✘ Educational difficulties

<sup>16</sup>Porche, M. V., Fortuna, L. R., Lin, J., & Alegria, M. (2011). Childhood trauma and psychiatric disorders as correlates of school dropout in a national sample of young adults. *Child development*, 82(3), 982-998.

<sup>17</sup>Dorado, J. S., Martinez, M., McArthur, L. E., & Leibovitz, T. (2016). Healthy Environments and Response to Trauma in Schools (HEARTS): A whole-school, multi-level, prevention and intervention program for creating trauma-informed, safe and supportive schools. *School Mental Health*, 8, 163-176.

✘ Relationship risks

<sup>18</sup>Corrigan, F. M., Fisher, J. J., & Nutt, D. J. (2011). Autonomic dysregulation and the window of tolerance model of the effects of complex emotional trauma. *Journal of psychopharmacology*, 25(1), 17-25.

<sup>19</sup>Ward-Lasher, A., Messing, J., & Stein-Seroussi, J. (2017). Implementation of trauma-informed care in a housing first program for survivors of intimate partner violence: A case study. *Advances in social work*, 18(1), 202-216.

✘ Contact with the criminal justice system

<sup>20</sup>Karatzias, T., Power, K., Woolston, C., Apurva, P., Begley, A., Mirza, K., ... & Purdie, A. (2018). Multiple traumatic experiences, post-traumatic stress disorder and offending behaviour in female prisoners. *Criminal behaviour and mental health*, 28(1), 72-84.

<sup>21</sup>Elwyn, L. J., Esaki, N., & Smith, C. A. (2015). Safety at a girls secure juvenile justice facility. *Therapeutic Communities*, 36, 209-218.

✘ Reduced opportunities

<sup>22</sup>Karatzias, T., Shevlin, M., Fyvie, C., Hyland, P., Efthymiadou, E., Wilson, D., ... & Cloitre, M. (2017). Evidence of distinct profiles of posttraumatic stress disorder (PTSD) and complex posttraumatic stress disorder (CPTSD) based on the new ICD-11 trauma questionnaire (ICD-TQ). *Journal of Affective Disorders*, 207, 181-187.

<sup>23</sup>Im, H., & Swan, L. E. (2021). "We Learn and Teach Each Other": Interactive Training for Cross-Cultural Trauma-Informed Care in the Refugee Community. *Community Mental Health Journal*, 1-13.