

Since January 2020 Elsevier has created a COVID-19 resource centre with free information in English and Mandarin on the novel coronavirus COVID-19. The COVID-19 resource centre is hosted on Elsevier Connect, the company's public news and information website.

Elsevier hereby grants permission to make all its COVID-19-related research that is available on the COVID-19 resource centre - including this research content - immediately available in PubMed Central and other publicly funded repositories, such as the WHO COVID database with rights for unrestricted research re-use and analyses in any form or by any means with acknowledgement of the original source. These permissions are granted for free by Elsevier for as long as the COVID-19 resource centre remains active.

ELSEVIER

Contents lists available at ScienceDirect

#### International Journal of Drug Policy

journal homepage: www.elsevier.com/locate/drugpo



#### Editors' Choice

## Essential work, precarious labour: The need for safer and equitable harm reduction work in the era of COVID-19



Michelle Olding a,b, Allison Barker a, Ryan McNeil a,c,d,e, Jade Boyd a,f,\*

- <sup>a</sup> British Columbia Centre on Substance Use, 1045 Howe Street, Vancouver, BC, Canada, V6Z 1Y6
- <sup>b</sup> Interdisciplinary Studies Graduate Program, University of British Columbia, Vancouver, BC, Canada
- c Yale School of Medicine, New Haven, CT, United States
- d Yale School of Public Health, New Haven, CT, United States
- e Department of Anthropology, Yale University, New Haven, CT, United States
- <sup>f</sup> Faculty of Medicine, University of British Columbia, Vancouver, BC, Canada

#### ARTICLE INFO

# Keywords: Precarious employment Harm reduction Occupational safety COVID-19 Opioid overdose

#### ABSTRACT

This commentary highlights labour concerns and inequities within the harm reduction sector that hinder programs' ability to respond to converging public health emergencies (the overdose crisis and COVID-19), and potentially contribute to spread of the novel coronavirus. Many harm reduction programs continue to support people who use illicit drugs (PWUD) during the pandemic, yet PWUD working in harm reduction programs (sometimes termed 'peers') experience precarious labour conditions characterized by low wages, minimal employee benefits (such as paid sick leave) and high employment insecurity. Along with precarious labour conditions, PWUD face heightened vulnerabilities to COVID-19 and yet have been largely overlooked in global response to the pandemic. Operating under conditions of economic and legal precarity, harm reduction programs' reliance on precarious labour (e.g. on-call, temporary and unpaid work) renders some services vulnerable to staffing shortages and service disruptions during the pandemic, while also heightening the risk of virus transmission among workers, service users and their communities. We call for immediate policy and programmatic actions to strengthen working conditions within these settings with a priority on enhancing protections and supports for workers in peer roles.

#### Introduction

The coronavirus (COVID-19) pandemic has rapidly altered the way we live and work, and in doing so has exposed and intensified longstanding health and social inequalities. The health and economic fallout of COVID-19 has been uneven, with job losses and COVID-19 cases disproportionately concentrated among those working in low-wage service sector jobs (International Labour Organization, 2020). Workers in essential frontline roles have been particularly vulnerable to COVID-19 given their close and frequent contact with potentially exposed populations (Zhang, 2020). The occupational hazards of frontline work appear to be greatest for those in precarious jobs characterized by little security and control over work, and minimal employment benefits such as paid sick leave and health benefits (Stanford, 2020). Racialized and migrant women in particular— who are over-represented in precarious frontline jobs such as nursing aides and personal support workers—are contracting and dying from COVID-19 at significantly higher rates than other healthcare workers (Gould & Wilson, 2020; Guttman et al., 2020; National Nurses United, 2020).

vet the labour experiences and vulnerabilities of workers in these programs has so far been afforded little attention. Here we use the term harm reduction to refer to non-coercive policies, programs and practices that seek to reduce health, social and legal harms of drug use, drug laws and policies (Harm Reduction International, 2020b). Harm reduction programs include, but are not limited to, supervised consumption services, drug checking, overdose prevention and response programs, safer supply initiatives, non-abstinence-based housing, and education on safer drug use (Harm Reduction International, 2020b). Especially in fixed-location services such as supervised consumption sites, workers in harm reduction programs work in close proximity to others and perform 'high contact' work (e.g. relationship building, non-violent de-escalation for people in crisis, injection assistance, and resuscitation), that may increase their risk of infectious diseases such as COVID-19. The risk of exposure is likely greatest during overdose response, when workers may perform aerosol-generating medical

procedures such as rescue breathing, and often have limited time to

Harm reduction programs are another sector that has been profoundly impacted by COVID-19 (Harm Reduction International, 2020a),

<sup>\*</sup> Corresponding author.

E-mail address: jade.boyd@bccsu.ubc.ca (J. Boyd).

augment personal protective equipment (PPE) (Elton-Marshall et al., 2020).

In particular, harm reduction workers who themselves use drugs (sometimes termed 'peer' workers) face distinct social, economic and health risks related to their work that have so far received little consideration within broader debates about essential work and the pandemic (Dechman, 2015; Greer, Bungay, Pauly, & Buxton, 2020; Kennedy et al., 2019; Kolla & Strike, 2019). While the extent and scope of peer labour in harm reduction varies considerably across jurisdictions and programs, PWUD increasingly perform frontline roles within these programs, including direct service provision (e.g. overdose response, distribution of naloxone, syringes and crack kits, HCV screening), education (e.g. HIV and overdose prevention, naloxone training) and other forms of psycho-social support (e.g. health system navigation, peer support groups) (Kennedy et al., 2019; Marshall, Dechman, Minichiello, Alcock, & Harris, 2015). The need for the labour expertise of PWUD within harm reduction programs has only increased during the pandemic, as lockdowns and physical distancing measures have disrupted service delivery in many regions and created new barriers to accessing services (Bartholomew, Nakamura, Metsch & Tookes, 2020; Collins, Ndoye, Arene-Morely, & Marshall, 2020; Schlosser & Harris, 2020; Whitfield, Reed, Webster, & Hope, 2020). As has been the case during previous and concurrent epidemics (e.g. HIV, opioid overdoses), the social networks, expertise and labour of PWUD have been instrumental to adapting services to these new challenges and filling gaps within formal public health systems (Faulkner-Gurstein, 2017; Kennedy et al., 2019; Kolla & Strike, 2020; Marshall et al., 2015). Informally and formally, PWUD have mobilized during the pandemic to distribute supplies within their networks, perform outreach work, and disseminate rapidly changing information about COVID-19 and public health measures (Harm Reduction International, 2020a). The risks of COVID-19 exposure to PWUD in these roles is likely heightened considering they perform high contact care work in community settings where physical distancing is difficult (e.g. shelter and housing-based support) and PPE is limited (Schlosser & Harris, 2020). Despite the essential and high risk nature of this work, PWUD in peer roles have not been widely recognized and treated as essential workers, often lacking the supports and employment protections available to other frontline providers (Greer et al., 2020).

In this commentary, we aim to highlight how precarious and inequitable working conditions within harm reduction programs are likely hindering service delivery during the pandemic, while also threatening to contribute to spread of COVID-19 within communities already disproportionately impacted by intersecting structural harms of criminalization, poverty and discrimination (Carter & MacPherson, 2013; Room & Reuter, 2012). We draw primarily on evidence and examples from the Canadian context, where the labour of PWUD has become increasingly central to harm reduction programming. We call for immediate actions at policy and programmatic levels to establish safer and more equitable working conditions within the harm reduction sector, including macro level changes (e.g. drug decriminalization and welfare reform) and programmatic efforts to enhance employment security and supports for PWUD in peer roles.

### Working conditions and precarious labour practices in the harm reduction sector

Previous research highlights the rewarding and empowering aspects of harm reduction work, including its important role in building and sustaining networks of mutual support among PWUD (Bardwell, Kerr, Boyd, & McNeil, 2018; Faulkner-Gurstein, 2017; Pauly et al., 2021; Wagner et al., 2014). However, activists and researchers are raising alarms about safety and working conditions within programs (Dechman, 2015; Greer et al., 2020; Kennedy et al., 2019; Kolla & Strike, 2019; Shephard, 2013). Several studies find significant burnout and psychological distress among frontline workers responding to

converging crises of poverty, housing, opioid-related overdoses, and now COVID-19 (Bardwell, Fleming, Collins, Boyd, & McNeil, 2019; Kennedy et al., 2019; Pike, Tillson, Webster, & Staton, 2019). Routine exposure to traumatic events (e.g. overdose, violence) and loss of community members to overdose exacts a high emotional toll on workers (Boyd et al., 2018; Kennedy et al., 2019). Chronic understaffing, inadequate supports, unpredictable schedules, and lack of control over working conditions have been flagged as structural issues exacerbating the already stressful nature of frontline work (Greer et al., 2020; Rigoni, 2020).

There is evidence that working conditions are particularly poor for PWUD in 'peer' roles (Greer et al., 2020). Peer programs facilitate PWUD involvement in harm reduction programming, typically offering flexible and stipend-based employment for PWUD in outreach, education and other support roles (Marshall et al., 2015). While these positions provide important forms of low-barrier employment, PWUD in peer roles have few job protections or benefits (e.g. vacation and paid sick leave), and face significant barriers to transitioning into higher paid and more secure employment (Greer et al., 2020; Shearer, Fleming, Fowler, Boyd, & McNeil, 2019). Previous research highlights how PWUD working in harm reduction programs can be viewed and treated differently than employees not defined by their drug use, including being limited to 'tokenistic' participation and subject to increased surveillance due to negative stereotypes of PWUD as untrustworthy and/or unstable (Broadhead, Heckathorn, Grund, Stern, & Anthrony, 1995; Bryant, Saxton, Madden, Bath, & Robinson, 2008; Rance & Treloar, 2015). Of particular concern, PWUD performing similar work to other support workers are sometimes unpaid or compensated through non-monetary incentives such as gift cards (Bardwell et al., 2018; Greer et al., 2018; Greer, Buxton, & Group, 2017; Marshall et al., 2015).

Precarious, inequitable and hazardous working conditions are not inherent to harm reduction programs, but rather the result of unfavourable economic and socio-legal environments. The lack of stable and sufficient funding for harm reduction programming is a key contributor to this precarity (Penn et al., 2011; Rigoni, 2020). The majority of harm reduction programs globally are initiated and implemented by civil society organizations (CSOs): non-governmental and not-for-profit groups that range from small self-organizing collectives of PWUD to highly professionalized and bureaucratic non-governmental organizations (Harm Reduction International, 2020a). While these CSOs may receive funding from state or international donors to deliver services, these funding arrangements are often short-term, project-based and insufficient to cover all operational costs. A 2018 Harm Reduction International report found that, from 2007 to 2017, harm reduction funding in low and middle income countries fell 87% short of targets set by the United Nations HIV/AIDS programs (UNAIDS) (Cook & Davies, 2018). Even in higherresourced settings, harm reduction programs for PWUD are subject to high levels of political scrutiny and funding precarity that render them vulnerable to abrupt defunding and closure (Kerr, Mitra, Kennedy, & McNeil, 2017; Russel, Imtiaz, Ali, Elton-Marshall, & Rehm, 2020; Strike & Watson, 2019). Funding instability and shortfalls also present challenges in equitably allocating and compensating work within harm reduction programs. Community organizations routinely report that the purchaser-provider agreements that typically fund 'peer' positions systematically under-value the costs of recruiting, supporting and maintaining PWUD workers who are taking on expanded roles and responsibilities within these programs (Brown et al., 2019; Penn et al., 2011; Rigoni, 2020).

Drug prohibition and its enforcement further fuels the precarity of harm reduction programs and their workforce. The criminalization of drug use and state violence towards PWUD—including mass incarceration and heightened surveillance of poor and racialized communities—systematically harms the lives and livelihoods of PWUD, contributing to high rates of poverty, housing instability and unemployment (Room & Reuter, 2012; van Olphen, Eliason, Freudenberg, & Barnes, 2009). Laws criminalizing possession of drugs and paraphernalia also

force harm reduction programs to operate underground or in legal 'grey zones' (Davis, Derek, & Samuels, 2019; Harm Reduction International, 2020a), with many unsanctioned supervised consumption and syringe distribution programs run by unpaid volunteers at risk of criminalization for their work (Davidson, Lopez, & Kral, 2018; Lancaster, Seear, & Treloar, 2015; Marshall et al., 2015). The criminalized and/or legally precarious status of these programs precludes them from receiving the funding and resources required to deliver these programs, shifting the burden and costs of this work largely onto PWUD and their communities.

Operating under these conditions of funding and legal precarity, CSOs are pushed toward precarious employment models that favour part-time, non-unionized, casual, low-wage and unpaid labour (Baines, Cunningham, & Sheilds, 2017; Michaud, Maynard, Dodd, & Burke, 2016). PWUD may be more compelled to accept precarious roles due to the considerable social and structural barriers limiting their opportunities within broader labour markets, including criminalization, housing insecurity, and stigma toward drug use (Boyd et al., 2018; DeBeck et al., 2007; Richardson, Wood, & Kerr, 2013). The systemic exclusion of PWUD from formal employment through criminal records checks and drug testing further limits their labour market opportunities (Bourgois, 2002; Boyd et al., 2018; Greer et al., 2018). Casual, stipendbased roles in harm reduction may also be one of the only low-threshold jobs that allows PWUD to generate income without losing eligibility for welfare benefits and other support (Greer et al., 2020). Together, these structural arrangements render PWUD vulnerable to economic insecurity and labour precarity, limiting their ability to refuse hazardous, lowwage and insecure work.

#### Implications for delivering care during a pandemic

Within the context of these structural constraints, harm reduction programs' reliance on unpaid, low-wage and precarious labour is likely hindering their ability to deliver services during the pandemic. The COVID-19 pandemic has produced another layer of responsibilities (e.g. sanitation and social distancing measures) on a workforce already struggling to contend with limited resources and worsening housing and overdose crises (Grinstein-Weiss, Gupta, Chun, Lee, & Despard, 2020; Slavova, Rock, Bush, Quesinberry, & Walsh, 2020). We can expect that precarious labour arrangements will contribute to staffing shortages as workers weigh the considerable risks of COVID-19 exposure and other pre-existing occupational hazards against the minimal job benefits and protections (Greer et al., 2020; Kennedy et al., 2019). Workers who remain in their roles, particularly PWUD in precarious peer roles, may be compelled to take on additional shifts or perform unpaid work to full staffing shortages, further contributing to work-related stressors and burnout

Poor working conditions and precarious labour arrangements may also be understood as structural risk factors for the spread of COVID-19. The lack of adequate physical distancing infrastructure and personal protective equipment are obvious risks facing under-resourced programs (Karamouzian, Johnson, & Kerr, 2020; Nguyen et al., 2020). However, employment practices also play a role. As evidenced by outbreaks in long-term care facilities, the lack of paid leave and employment protections can compel frontline staff to continue working in hazardous conditions or when they are sick, driving transmission among workers, their families, service users and the broader community (McGilton et al., 2020; Stanford, 2020). Part-time and casual workers are more likely to hold multiple jobs, or pick-up shifts at different buildings within an organization, helping the virus to spread across sites. The potential for significant outbreaks is amplified in housing and shelter-based programs where crowded and poor living conditions impede physical distancing and hygiene practices (Maru, Maru, Bass, & Masci, 2020). The morbidity and mortality from these outbreaks may be considerable within communities of PWUD, who are more likely to have compromised immunity and pre-existing conditions (e.g. chronic obstructive respiratory disease, viral hepatitis) that increase risk of severe illness from COVID-19 (Wang, Kaelber, Xu, & Volkow, 2020).

#### What can be done to improve working conditions?

Establishing safer and equitable working conditions necessitates first recognizing work performed in harm reduction programs-including that performed by PWUD-as essential and high-impact labour to be compensated and protected. It is both impractical and inequitable to expect PWUD to engage in hazardous frontline work for free or minimal compensation, particularly when they are at heightened risk of developing severe complications from the virus (Marsden et al., 2020; Mukherjee & El-Bassel, 2020). Wide-reaching reforms to social security measures will likely be necessary to truly mitigate harms of precarious employment and COVID-19, such as implementation of basic income regimes or expansion of employment insurance systems to include precarious workers (Stahl & MacEachen, 2020; Stanford, 2020). Drug decriminalization is also urgently required to disrupt the role of criminalization and incarceration in PWUD's pathways to economic insecurity and precarious labour (Boyd et al., 2018a). Further, the abolishment of laws and policies that criminalize possession of drugs and harm reduction tools (e.g. syringes, naloxone) would help bring more harm reduction work into the fold of standard employment that is subject to regulations regarding pay and working conditions.

At a more proximal level, program funders and operators can take immediate steps by limiting precarious labour practices and strengthening protections for those in nonstandard work arrangements. While it is important to maintain a continuum of employment options in the harm reduction sector (Marshall et al., 2015; Penn et al., 2011), much more can be done to strengthen protections for peer workers in part-time, on-call and temporary positions. Of critical importance to the COVID-19 pandemic, PWUD in peer roles should have some job protections, benefits and paid sick leave so they may take time off if they become sick or burnt out. Increasing staffing levels will be important, given the likely need for workers to quarantine due to COVID-19 exposure. Human resource services and psychosocial supports are also urgently needed for workers that face considerable stressors related to their work (Kennedy et al., 2019; Kolla & Strike, 2019), and are likely experiencing heightened challenges during the pandemic with housing, childcare, substance use, and access to services (Marsden et al., 2020).

Increased and stable funding for operating organizations will be required to adapt programs to COVID-related measures and equip workers and service users with adequate personal protective equipment and disinfectant materials (Chayama, Ng, & McNeil, 2020; Heimer, McNeil, & Vlahov, 2020); this includes masks, gowns, eye protection and gloves, as well as training to support safe and effective use of tools during aerosolgenerating medical procedures (Elton-Marshall et al., 2020). Program budgets should enable programs to renovate or relocate services to facilitate physical distancing, as well as adapt service models to meet people closer to home through mobile, outreach, and housing-based approaches (Elton-Marshall et al., 2020; Kolla & Strike, 2020; MacKinnon, Socias, & Bardwell, 2020). Safer supply initiatives that distribute regulated opioids and other drugs will be important complements to these models, supporting PWUD to self-isolate and limit in-person contact (Back, Robinson, Sutherland, & Brar, 2020; Tyndall, 2020). To reduce the risk of workers contracting and spreading COVID-19, programs operating multiple sites should consider staffing models that allow workers to fulfil hours at a single site. Importantly, PWUD must be involved at all stages of developing and implementing safety plans, including through leadership roles, to ensure they meet the needs of these workers (Rigoni, 2020). Research on the evolving long-term impact of COVID-19 on the working conditions of PWUD could offer increased adaptive solutions alongside these measures.

Ultimately, many of these changes may not be achieved unless PWUD have a strong voice in negotiation with employers and funding bodies. Unionization efforts are underway in some cities, but face significant im-

pediments under the restraints of drug prohibition and because stipendbased peer workers are often not classified as employees (Smart, 2020). Strengthening worker power and creating conditions conducive for collective organizing will be key to improving working conditions and enabling precariously-employed PWUD to exercise their labour rights (Lewchuk & Dassinger, 2016).

#### Conclusion

Governments and public health systems have largely failed to foster safe and equitable working conditions for harm reduction workers at the frontlines of converging public health emergencies. PWUD continue to do essential and high-impact work throughout the pandemic, including frontline work that places them at higher risk of COVID-19 (e.g. overdose response), yet often do so with fewer resources and less compensation than other frontline workers. We must ensure that PWUD can continue to do this essential work by providing them with sufficient supports, employment protections, paid sick leave, and personal protective equipment for them to perform their jobs safely. On a macro level, the abolishment of laws, policies and practices that criminalize, punish and otherwise negatively impact PWUD are needed in order to minimize their labour precarity and strengthen their economic security. Increased and stable investment in health, social and harm reduction services is further critical to fostering safe and secure working conditions. Improving working conditions in these ways will help keep our communities safe during COVID-19, while also enabling positive changes to service delivery that will have long-lasting benefits beyond the present pandemic.

#### Role of the funding source

The funding sources for this study had no role in the study design, collection, analysis and interpretation of data, the writing of the article, or the decision to submit it for publication.

#### **Declarations of Interest**

None.

#### Acknowledgements

This study was supported by the US National Institutes of Health (R01DA44181), the Canadian Institutes for Health Research, and the Vancouver Foundation (UNR17-0299). Michelle Olding is supported by a Vanier Canada Graduate Scholarship and Izaak Walton Killam Memorial Doctoral Fellowship. Jade Boyd is supported by the Michael Smith Foundation for Health Research (MSFHR)/St Paul's Foundation/BCCSU Scholar Award. Ryan McNeil is supported by a CIHR New Investigator Award and a MSFHR Scholar Award.

#### References

- Back, P., Robinson, S., Sutherland, C., & Brar, R. (2020). Innovative strategies to support physical distancing among individuals with active addiction. *The Lancet Psychiatry*, 7(9), 731–733.
- Baines, D., Cunningham, I., & Sheilds, J. (2017). Filling the gaps: Unpaid (and precarious) work in the nonprofit social services. *Critical Social Policy*, 37(4), 625–645.
- Bardwell, G., Anderson, S., Richardson, L., Bird, L., Lampkin, H., Small, W., et al. (2018). The perspectives of structurally vulnerable people who use drugs on volunteer stipends and work experiences provided through a drug user organization: Opportunities and limitations. *International Journal of Drug Policy*, 55, 40–46.
- Bardwell, G., Fleming, T., Collins, A., Boyd, J., & McNeil, R. (2019). Addressing intersecting housing and overdose crises in Vancouver, Canada: Opportunities and challenges from a tenant-led overdose response intervention in single room occupancy hotels. *Journal of Urban Health*, 96, 12–20.
- Bardwell, G., Kerr, T., Boyd, J., & McNeil, R. (2018). Characterizing peer roles in an overdose crisis: Preferences for peer workers in overdose response programs in emergency shelters. *Drug and Alcohol Dependence*, 190, 6–8.
- Bartholomew, T. S., Nakamura, N., Metsch, L. R., & Tookes, H. E. (2020). Syringe services program (SSP) operational changes during the COVID-19 global outbreak. *International Journal of Drug Policy*. https://doi.org/10.1016/j.drugpo.

- Bourgois, P. (2002). In search of respect. New York, NY: Cambridge University Press.
- Boyd, J., Collins, A., Mayer, S., Maher, L., Kerr, T., & McNeil, R. (2018a). Gendered violence and overdose prevention sites: A rapid ethnographic study during an overdose epidemic in Vancouver Canada. Addiction, 113(12), 2261–2270.
- Boyd, L., Richardson, L., Anderson, S., Kerr, T., Small, W., & McNeil, R. (2018b). Transitions in income generation among marginalized people who use drugs: A qualitative study on recycling and vulnerability to violence. *International Journal of Drug Policy*, 59, 36–43.
- Broadhead, R., Heckathorn, D. D., Grund, J.-P. C., Stern, L., & Anthrony, D. (1995). Drug users versus outreach workers in combating AIDS: Preliminary results of a peer-driven intervention. *Journal of Drug Issues*, *25*(3), 531–564.
- Brown, G., Crawford, S., Perry, G.-. E., Bryrne, J., Dunne, J., Reeders, D., et al. (2019). Achieving meaningful participation of people who use drugs and their peer organizations in a strategic partnership. *Harm Reduction Journal*, 16(37).
- Bryant, J., Saxton, M., Madden, A., Bath, N., & Robinson, S. (2008). Consumers' and providers' perspectives about consumer participation in drug treatment services: Is there support to do more? What are the obstacles. *Drug and Alcohol Review*, 27(2), 134-144.
- Carter, C., & MacPherson, D. (2013). Getting to tomorrow: A report on Canadian drug policy. Retrieved from https://drugpolicy.ca/about/publication/getting-to-tomorrow-a-report-on-canadian-drug-policy/.
- Chayama, K. L., Ng, C., & McNeil, R. (2020). Calls for access to safe injecting supplies as a critical public health measure during the COVID-19 pandemic. *Journal of Addiction Medicine*, *14*(5), e142–e143.
- Collins, A., Ndoye, C., Arene-Morely, D., & Marshall, B. (2020). Addressing co-occuring public health emergencies: The importance of naloxone distribution in the era of COVID-19. *International Journal of Drug Policy*. 10.1016/j.drugpo.2020.102872.
- Cook, C., & Davies, C. (2018). The lost decade: Neglect for harm reduction funding and the health crisis among people who use drugs Retrieved from London: https://www.hri.global/harm-reduction-funding.
- Davidson, P., Lopez, A., & Kral, A. (2018). Using drugs in un/safe spaces: Impact of perceived illegality on an underground supervised injecting facility in the United States. *International Journal of Drug Policy*, 53, 37–44.
- Davis, C., Derek, C., & Samuels, E. (2019). Paraphenalia laws, criminalizing possession and distribution of items used to consume illicit drugs, and injection-related harm. *American Journal of Public Health*, 109(11), 1564–1567.
- DeBeck, K., Shannon, K., Wood, E., Li, K., Montaner, J., & Kerr, T. (2007). Income generating activities of people who inject drugs. Drug and Alcohol Dependence, 91(1), 50–56.
- Dechman, M. (2015). Peer helpers' struggles to care for "others" who inject drugs. International Journal of Drug Policy, 26, 492–500.
- Elton-Marshall, T., Ali, F., Hyshka, E., Shahin, R., Hopkins, S., Imtiaz, S., et al. (2020). Harm reduction worker safety during the COVID-19 global pandemic: National rapid guidance. Retrieved from Toronto, Ontario:.
- Faulkner-Gurstein, R. (2017). The social logic of naloxone: Peer administration, harm reduction and the transformation of social policy. *Social Science & Medicine*, 180, 20–27.
- Gould, E., & Wilson, V. (2020). Black workers face two of the most legthal preexisting conditions for coronavirus—Racism and economic inequality. Retrieved from https://www.epi.org/publication/black-workers-covid/.
- Greer, A., Bungay, V., Pauly, B., & Buxton, J. (2020). 'Peer' work as precarious: A qualitative study of work conditions and experience of people who use drugs engaged in harm reduction work.. *International Journal of Drug Policy*, 85.
- Greer, A., Buxton, J., & Group, P. P. W. (2017). A guide for paying peer research assistants: Challenges and opportunities. Retrieved from Vancouver, BC: https:// pacificaidsnetwork.org/files/2016/05/A-guide-for-paying-peer-research-assistantschallenges-and-opportunities.pdf.
- Greer, A., Pauly, B., Scott, A., Martin, R., Burmeister, C., & Buxton, C. (2018). Paying people who use illicit substances or 'peers' participating in community-based work: A narrative review of the literature. *Drugs: Education, Prevention and Policy*, 26(6), 447–459.
- Grinstein-Weiss, M., Gupta, B., Chun, Y., Lee, H., & Despard, M. (2020). Housing hard-ships reach unprecedented heights during the COVID-19 pandemic. Retrieved from https://www.brookings.edu/blog/up-front/2020/06/01/housing-hardships-reach-unprecedented-heights-during-the-covid-19-pandemic/.
- Guttman, A., Gandhi, S., Wanigraratne, S., Lu, H., Ferreira-Legere, L., Paul, J., et al. (2020). COVID-19 in Immigrants, Refugees and other newcombers in Ontario: Charachteristics of those tested and those confirmed positive, as of June 13, 20202 Retrieved from Toronto, ON.
- Harm Reduction International. (2020). The global state of harm reduction 2020. Retrieved from https://www.hri.global/global-state-of-harm-reduction-2020.
- Harm Reduction International. (2020). What is harm reduction? Retrieved from https://www.hri.global/what-is-harm-reduction.
- Heimer, R., McNeil, R., & Vlahov, D. (2020). A community responds to the COVID-19 pandemic: A case study in protecting the health and human rights of people who use drugs. *Journal of Urban Health*, 97(4), 448–456.
- International Labour Organization. (2020). ILO Monitor: COVID-19 and the world of work. Fifth edition. Retrieved from https://www.ilo.org/wcmsp5/groups/public/@dgreports/@dcomm/documents/briefingnote/wcms\_749399.pdf.
- Karamouzian, M., Johnson, C., & Kerr, T. (2020). Public health messaging and harm reduction in the time of COVID-19. The Lancet Psychiatry, 5(5), 390–391.
- Kennedy, M., Boyd, J., Mayer, S., Collins, A., Kerr, T., & McNeil, R. (2019). Peer worker involvement in low-threshold supservised consumption facilities in the context of overdose epidemic in Vancouver, Canada. Social Science & Medicine, 225, 60–68.
- Kerr, T., Mitra, S., Kennedy, M., & McNeil, R. (2017). Supervised injection facilities in Canada: Past, present and future. Harm Reduction Journal, 14, 28.

- Kolla, G., & Strike, C. (2019). 'It's too much, I'm getting really tired of it': Overdose response and structural vulnerabilities among harm reduction workers in community settings.. *International Journal of Drug Policy*, 74, 127–135.
- Kolla, G., & Strike, C. (2020). Practices of care among people who buy, use and sell drugs in community settings. Harm Reduction Journal, 17, 27.
- Lancaster, K., Seear, K., & Treloar, C. (2015). Laws prohibiting peer distribution of injecting equipment in Australia: A critical analysis of their effects. *International Journal of Drug Policy*, 26(12), 1198–1206.
- Lewchuk, W., & Dassinger, J. (2016). Precarious employment and precarious resistance:
  "we are people still". Studies in Political Economy, 97(2), 143–158.
  MacKinnon, L., Socias, M., & Bardwell, G. (2020). COVID-19 and overdose prevention:
- MacKinnon, L., Socias, M., & Bardwell, G. (2020). COVID-19 and overdose prevention: Challenges and opportunities for clinical practice in housing settings. *Journal of Substance Abuse Treatment*. 10.1016/j.jsat.2020.108153.
- Marsden, K., Darket, S., Hall, W., Hickman, M., Holmes, J., Humphreys, K., et al. (2020). Mitigating and learning from the impact of COVID-19 on addictive disroders. Addiction, 115 1070-1010.
- Marshall, Z., Dechman, M., Minichiello, A., Alcock, L., & Harris, G. (2015). Peering into the literature: A systematic review of the roles of peers who inject drugs in harm reduction initiatives. *Drug and Alcohol Dependence*, 151, 1–14.
- Maru, D., Maru, S., Bass, E., & Masci, J. (2020). To stem the spread of COVID-19, address the challenges of crowded housing. Retrieved from https://www.healthaffairs.org/do/10.1377/hblog20200521.144527/full/.
- McGilton, K., Escrig-Pinol, A., Gordon, A., Chu, C. H., Zuniga, F., Sanchez, M., et al. (2020). Uncovering the devaluation of nursing home staff during COVID-19: Are we fuelling the next health care crisis? *JAMDA*, *21*(7), 962–965.
- Michaud, L., Maynard, R., Dodd, Z., & Burke, N. B. (2016). Recognition, exploitation or both?: A roundtable on peer labour and harm reduction. . In C. B. R. Smith, & Z. Marshall (Eds.), Critical approaches to harm reduction: conflict, institutionalization, (De-)Politicization, and direct action (pp. 185–208). New York: Nova Science.
- Mukherjee, T. I., & El-Bassel, N. (2020). The perfect storm: COVID-19, mass incarceration and the opioid epidemic. *International Journal of Drug Policy*, Article 102819.
- National Nurses United. (2020). Sins of Omission. Retrieved from <a href="https://www.nationalnursesunited.org/sites/default/files/nnu/graphics/documents/0920\_Covid19\_SinsOfOmission\_Data\_Report.pdf">https://www.nationalnursesunited.org/sites/default/files/nnu/graphics/documents/0920\_Covid19\_SinsOfOmission\_Data\_Report.pdf</a>.
- Nguyen, L., Drew, D., Graham, M., Joshi, A., Guo, C.-G., & Ma, W. (2020). Risk of COVID-19 among front-line health-care workers and the general community: A prospective cohort study. *The Lancet Public Health*, 5(9), E475–E483.
- Pauly, B., Mamdani, Z., Mesley, L., McKenzie, S., Cameron, F., Edwards, D., et al. (2021). It's an emotional roller coaster...But sometimes it's fucking awesome": Meaning and motivation of work for peers in overdose response environments in British Columbia... International Journal of Drug Policy, 88, Article 103015.
- Penn, R., Henschell, C., Andrews, J., Danis, C., Thorpe, M., Thompson, M. et al. (2011). Shifting roles: Peer harm reduction work at Regent Park Community Health Centre. Retrieved from Toronto.
- Pike, E., Tillson, M., Webster, J., & Staton, M. (2019). A mixed-methods assessment of the impact of the opioid epidemic on first responder burnout. *Drug and Alcohol Depen*dence, 205, Article 107620.
- Rance, J., & Treloar, C. (2015). "We are people too": Consumer participation and the potential transformation of therapeutic relations within drug treatment.. *International Journal of Drug Policy*, 26(1), 30–36.
- Richardson, L., Wood, E., & Kerr, T. (2013). The impact of social, structural and physicial environmental factors on transitions into employment among people who inject drugs. *Social Science & Medicine*, 76, 126–133.

- Rigoni, R. (2020). Reducing harms in the work environment: Recommendations for employing and managing peers in harm reduction programmes in South Africa. Retrieved from Amsterdam.
- Room, R., & Reuter, P. (2012). How well do international drug conventions protect public health? *Tha Lancet*, 379, 84–91.
- Russel, C., Imtiaz, S., Ali, F., Elton-Marshall, T., & Rehm, J. (2020). 'Small communities, large oversight': The impact of recent legislative changes concerning supervised consumption services on small communities in Ontario, Canada. *International Journal of Drug Policy*, 82, Article 102822.
- Schlosser, A., & Harris, S. (2020). Care during COVID-19: Drug use, harm reduction and intimacy during a global pandemic. *International Journal of Drug Policy*. 10.1016/j.drugpo.2020.102896.
- Shearer, D., Fleming, T., Fowler, A., Boyd, J., & McNeil, R. (2019). Naloxone distribution, trauma and supporting community-based overdose responders. *International Journal* of Drug Policy, 74, 255–256.
- Shephard, B. (2013). Between harm reduction, loss and wellness: On the occupational hazards of work. Harm Reduction Journal, 10(5).
- Slavova, S., Rock, S., Bush, H. M., Quesinberry, D., & Walsh, D. (2020). Signal of increased opioid overdose COVID-19 from emergency medical services data. *Drug and Alcohol Dependence*. 214.
- Smart, A. (2020). Peer harm reduction workers move to unionize in Vancouver's Downtown Eastside. CBC. Retrieved from https://www.cbc.ca/news/canada/british-columbia/peer-harm-reduction-workers-move-to-unionize-in-vancouver-s-downtown-eastside-1.5498218.
- Stahl, C., & MacEachen, E. (2020). Universal basic income as policy response to COVID-19 and precarious Employment: Potential impacts on rehabilitation and return-to-work. *Journal of Occupational Rehabilitation*. 10.1007/s10926-020-09923-w.
- Stanford, J. (2020). *Ten ways the COVID-19 pandemic must change work...for good.* Retrieved from https://www.policyalternatives.ca/sites/default/files/uploads/publications/National%20Office/2020/06/10Ways\_work\_must\_change.pdf.
- Strike, C., & Watson, T. (2019). Losing the uphill battle? Emergent harm reduction interventions and barriers during the opioid overdose crisis in Canada. *International Journal of Drug Policy*, 71, 178–182.
- Tyndall, M. (2020). Safer opioid distribution in response to the COVID-19 pandemic. *International Journal of Drug Policy*, 83. 10.1016/j.drugpo.2020.102880.
- van Olphen, J., Eliason, M., Freudenberg, N., & Barnes, M. (2009). Nowhere to go: How stigma limits the options of female drug users after release from jail. Substance Abuse Treamtne, Prevention and Policy, 10.
- Wagner, K., Davidson, P., Iverson, E., Washburn, R., Burke, E., Kral, A., et al. (2014). "I felt like a superhero": The experience of responding to drug overdose among individuals trained in overdose prevention. *International Journal of Drug Policy*, 25, 157–165.
- Wang, Q., Kaelber, D. C., Xu, R., & Volkow, N. (2020). COVID-19 risk and outcomes in patients with substance use disorders: Analyses from electronic health records in the United States. Molecular Psychiatry. 10.1038/s41380-020-00880-7.
- Whitfield, M., Reed, H., Webster, J., & Hope, V. (2020). The impact of COVID-19 restrictions on needle and syringe programme provision and coverage in England. *International Journal of Drug Policy*, 83, 102851. 10.1016/j.drugpo.2020.102851.
- Zhang, M. (2020). Estimation of differential occupational risk of COVID-19 by comparing risk factors with case data bu occupational group. American Journal of Industrial Medicine. 10.1002/ajim.23199.