Scoping review of mental health in prisons through the COVID-19 pandemic

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ABSTRACT

Objective To examine the extent, nature and quality of literature on the impact of the COVID-19 pandemic on the mental health of imprisoned people and prison staff.

Design Scoping review.

Data sources PubMed, Embase, CINAHL, Global Health, Cochrane, PsycINFO, PsycExtra, Web of Science and Scopus were searched for any paper from 2019 onwards that focused on the mental health impact of COVID-19 on imprisoned people and prison staff. A grey literature search focused on international and government sources and professional bodies representing healthcare, public health and prison staff was also performed. We also performed hand searching of the reference lists of included studies.

Eligibility criteria for selection of studies All papers, regardless of study design, were included if they examined the mental health of imprisoned people or prison staff specifically during the COVID-19 pandemic. Imprisoned people could be of any age and from any countries. All languages were included. Two independent reviewers quality assessed appropriate papers.

Results Of 647 articles found, 83 were eligible for inclusion, the majority (58%) of which were opinion pieces. The articles focused on the challenges to prisoner mental health. Fear of COVID-19, the impact of isolation, discontinuation of prison visits and reduced mental health services were all likely to have an adverse effect on the mental well-being of imprisoned people. The limited research and poor quality of articles included mean that the findings are not conclusive. However, they suggest a significant adverse impact on the mental health and well-being of those who live and work in prisons.

Conclusions It is key to address the mental health impacts of the pandemic on people who live and work in prisons. These findings are discussed in terms of implications for getting the balance between infection control imperatives and the fundamental human rights of prison populations.

INTRODUCTION

In March 2020, the WHO declared a COVID-19 pandemic.1 As of 31 March 2021, there have been more than 127 million confirmed infections worldwide with SARS-CoV-2, resulting in more than 2.5 million deaths.2

There are over 11 million people imprisoned globally.3 This population is particularly susceptible to COVID-19 because of overcrowded, poorly ventilated and often insanitary environments and suboptimal healthcare services. Frequent staff change-over and movement of imprisoned people in and out of and between prisons contribute to multiple entry points for COVID-19 and the potential for rapid spread once introduced.4,5

Imprisoned people are at high risk for severe COVID-19 due to a high burden of chronic diseases, such as diabetes and hypertension. Also, people from black and minority ethnic groups are often over-represented, and such individuals have a poorer prognosis.6,7

It is therefore clear that imprisoned people are at high risk for severe COVID-19, which is likely to result in significant stress and anxiety within this population.8–12 This may be exacerbated further by the infection prevention and control measures in prisons, which focus on restricting prisoner access to each other and outside visitors.13–16 Measures implemented include social distancing, cancelling all visits and limiting the time that prisoners spend outside their cell. This has resulted in imprisoned people being locked into cells for
We conducted a scoping review of literature related to COVID-19 and mental health in both prison staff and residents. The review aimed to examine the extent, nature and quality of literature on the impact of the COVID-19 pandemic on the mental well-being of imprisoned people and prison staff. We have also summarised and analysed the research findings and highlighted gaps in the evidence base.

**METHODOLOGY**

We conducted a scoping review using the methodology described by Arksey and O’Malley.

Identifying the research question

Our research question was ‘what is the extent, nature and quality of the literature on the impact of the COVID-19 pandemic on the mental health of imprisoned people and prison staff?’. We included substance misuse within the definition of mental health.

We used Ako et al’s definition of ‘prison’ as representing ‘detention facilities housing both on-remand and convicted people. These settings included prisons, police holding cells, pretrial detention, closed youth institutions and camps where drug users are forced into mandatory labour as means of rehabilitation’. We also included immigration detention centres.

Identifying relevant studies

We conducted a systematic literature search in nine databases (PubMed, Embase, CINAHL, Global Health, Cochrane, PsycINFO, PsychExtra, Web of Science and Scopus) from 2019 onwards, since this is when COVID-19 was identified. The search was carried out on 5 March 2021. These databases reflect the breadth of disciplines within this field. We kept search terms broad to maximise sensitivity (see online supplemental appendix 1). We also searched grey literature, focusing on official channels of information such as international and government sources and professional bodies representing healthcare, public health and prison staff. We hand-searched the reference lists of included studies.

Study selection

We screened articles by title and abstract for potentially eligible studies and obtained the full text. We included papers that met the eligibility criteria:

- The article must examine the mental health of imprisoned people or prison staff, of any age and from any country in any language.
- The article must look specifically at the mental health effects of the COVID-19 pandemic.
- All study designs will be included.

Papers reporting research data were evaluated for research quality in line with scoping review adaptations suggested by Pham et al. We used the relevant National Institutes of Health’s quality assessment tools. Opinion pieces, case studies and grey literature were not quality assessed.

Charting, collating, summarising and analysing the data

We charted the data; key data were entered into a table with the following headings: author, month and year, title; study design; population described or studied; key findings; and recommendations (see online supplemental appendix 2). After familiarisation with the data, three authors (LJ, KG and EP) inductively identified six key themes from the data: fear of COVID-19, changes in movement and activities, changes in communication, changes in mental and substance health services, decarceration and continuity of care and the mental health of prison staff. These themes were reviewed and finessed with the other authors.

Patient and public involvement

Discussions with experts with experience who had lived or worked in prisons highlighted the growing importance of mental well-being in prisons during the pandemic. However, they were not involved in the subsequent conduct of the review.

RESULTS

Our search returned a total of 1080 articles (see figure 1). After removal of duplicates and initial screening, we reviewed 280 articles in full. After reviewing these articles against our exclusion criteria, 85 papers were included (see online supplemental appendix 2).

The majority of papers were opinion pieces, with the exception of 10 case studies, seven guidelines, six literature reviews, five qualitative studies, three cross-sectional studies, three briefings, three case studies, and one study protocol. All assessed studies were found to be of poor quality (see online supplemental appendix 3). Of papers that were focused on a particular country, the countries included were the USA (27), the UK (8), Italy (5), Australia (5) and Canada (2) and then one from Brazil, China, Switzerland, Germany and Nigeria. One paper focused broadly on Africa and another on South America.
Many papers considered prison environments generally, but three examined juvenile correctional facilities (JCFs) in the USA,74-76 and one described a mental health support programme for healthcare staff and attorneys working in prisons.37

There was little primary data, and that which was identified was conflicting. One study found that recorded incidents of self-harm in 31 UK prisons had decreased by one-third when comparing February with April 2020.67 However, three other studies documented higher levels of self-harm across UK prisons.9 51 59

Fear of COVID-19
The pandemic has induced stress and anxiety in detainees over the risk to themselves and those they love contracting or dying from COVID-19.12 39 64 68-71 This is exacerbated by awareness of their health vulnerabilities8 and their unhygienic, overcrowded living conditions.8 10 60 61 Those left after the pandemic could also experience survivor guilt and grief over loved ones who have died.72

Changes in movement and activities
Movement of many imprisoned people has been severely restricted because of infection control measures. Those with symptoms and positive test results, new to the prison or vulnerable to severe infection are put into isolation, a practice that has negative connotations in prison for its perceived similarity to punitive solitary confinement.35 43 47 70 73-78 Many were concerned that isolation may lead to exacerbations of mental health conditions, anger, depression, psychosis, self-harm and suicide.9 46 56 66 72 74-76 79-84 There were also concerns that isolation in JCFs will affect young offenders’ neurological development.63 74 85

In this context, it is important to clarify the difference between isolation and solitary confinement.15 73-75 81 Solitary confinement refers to the confinement of prisoners for 22 hours or more a day without ‘meaningful human contact’.86 It is used as a disciplinary sanction imposed by prison authorities but is also used as a preventative measure for the protection of the imprisoned person. Imprisoned people in isolation are removed from contact with other members of the prison, usually as an infection prevention and control measure. All prisoners should have resources to make it psychologically bearable—such as a ‘television, tablet, radio, reading materials and means of communicating with loved ones’73 85 87—as well as access to health professionals and updates on the necessary length for isolation.13 73 Unless the purpose of their isolation is well defined, prisoners may be reluctant to report symptoms.9 73

Many prisons have significantly restricted prisoner movement regardless of COVID-19 status.63 68 74 75 81 Together with social distancing measures, this can mean spending up to 23 hours isolated in an 8×6-foot cell each day.59 63 74 75 This contrasts with Penal Reform International suggesting blanket isolation measures should be avoided or, if imposed, ‘only for the time required to undertake a more individualised and independent medical assessment’.58

Many activities, including work, education and religious activities, have been stopped9 69 72 and not substituted by...
recommended socially distant activities. This is likely to have detrimental effects on mental health. The lack of activities is a consequence of restricting staff numbers on site to minimise infection risk, and the logistical challenge for facilities such as gyms to clean shared equipment. However, in-cell activities, including exercises, mindfulness, puzzles, videos, colouring and playing cards, offer alternatives.

Finally, imprisoned people are rarely attending appointments outside of prison, resulting in trials and court hearings being delayed, increased time spent on remand and likely additional distress.

Changes in communication
Many prisons have stopped visits, which will likely negatively impact mental health. Lack of contact could result in increased anxiety over the health of family members as well as prisoner’s own welfare. The European Centre for Disease Prevention and Control calls for special considerations for deciding on visits when infants and children are involved. However, in the USA, by early April 2020, all JCFs had suspended in-person visits, and by May 2020, some women in UK prisons had not seen their children in 2 months.

One positive side effect of reduced visits is a reduction in drug availability and drug use in prisons as visits are a drug trafficking route. Concurrently, demand for opioid substitution medication has increased, possibly to help with withdrawal symptoms. Managing an increased number of withdrawing people has likely put additional strain on prison staff and healthcare workers.

Communication with family and friends is maintained. One key method by which this has happened is increased telephone access. Additional methods include letter writing, video calls and a prison voicemail service.

Communication between imprisoned people and staff is also a priority. Levels of education and health literacy are low among imprisoned people, and combined with a tight control of information within prisons, this can lead to the spread of misinformation and fear. Emphasis must be placed on regular, clear communication to prisoners concerning changes in protocol. The Royal College of General Practitioners emphasises good communication throughout their guidelines for managing COVID-19 in prisons.

Changes in mental and substance health services
Despite a prevailing belief that the mental health burden will increase, routine services have been deprioritised or withdrawn in many places due to infection risk. This is contrary to the widespread belief that psychiatric and psychological care remains critical. Adaptations include correctional staff providing psychological support, prisoner access to online counselling tools and telepsychiatry. Telepsychiatry received particular note, with recommendations for US states to waive license requirements to facilitate greater uptake.

Decarceration and continuity of care
Many recommended decarceration as a strategy to help reduce infection risk. This has been implemented in several countries including Iran, Turkey, Afghanistan, France, Indonesia and Ethiopia. However, there are important considerations for the mental health of those released. First, they will be entering an unfamiliar environment with substantial societal changes, leading to increased stress. Imprisoned people often have a lack of financial and social capital, lower educational attainment and higher rates of unemployment and regularly become homeless, all of which are more challenging with current restrictions.

Those who return to difficult family situations may be at risk of domestic violence, with restricted options to change living arrangements and challenges to seeking a police protective order if needed. Second, many community services on which released prisoners often rely have been reduced, altered or discontinued, leading to challenges in accessing care. One key area that needs careful planning is OAT. In some areas, OAT services are now available via telemedicine, but these require prisoners to be equipped with technology and internet connection prior to release.

With these added complications and the rapid speed of decarceration, liaising with community services for follow-up is challenging. Close attention must be paid to those released to ensure continuity of healthcare and social care.

The mental health of prison staff
The pandemic has affected the mental health of those who work in prisons. In England and Wales, prison staff absences have doubled. Staff have been faced with fear.
of contracting the virus as well as burnout from operating with reduced numbers. A diminished workforce will have implications on the mental health of imprisoned people too. Fewer staff means less opportunity to support imprisoned people and less time to supervise those at high risk of self-harm or suicide.

**Summary**

In summary, the reported impacts on the mental health of imprisoned people are overwhelmingly negative, caused not just by fear of COVID-19, but mediated through the regime changes implemented to minimise infection risks. The key challenges can be summed up as social distancing and isolation, discontinuation of prison visits and reduced/discontinued mental health services. These impacts can be ameliorated by measures including the provision of individual and communal socially distant activities, clear communication with prisoners, decarceration, ensuring access to friends and family through telephones and video calls, effective risk assessment of the mental health of imprisoned people, telepsychiatry and socially distant in-person mental health appointments. This is summarised in figure 2.

**Discussion**

The review’s findings suggest that the pandemic has had a profound effect on the mental health of those living and working in prisons. Isolation is a huge challenge to mental health in prisons. The adverse psychological effects of solitary confinement are well documented and include an increased risk of mortality 5 years after release. Although the reasons for isolation are different, there are likely still negative consequences for mental health. Similarly, visitors have been shown to be positive for the well-being of imprisoned people and linked to reduced recidivism. Preventing visits is therefore also likely to impact mental health. A rapid review of the psychological impact of quarantine in the wider community showed a detrimental effect on mental health in a wide-ranging and possibly long-lasting way. Longer quarantine increases the severity of impact, and when a restriction to liberty is imposed rather than voluntary, it leads to more distress and greater long-term mental health complications.

Reduced access to health services is also likely to impact mental health. Since the pandemic started, health services in many countries have developed rapidly, with the widespread adoption of telemedicine. There are, however, concerns over equity and lack of access to technology in prisons. Even in high-income countries such as the UK, at the start of the pandemic, 50 of 117 prison sites had connectivity too poor to enable video consultation. With growing recognition that the pandemic is far from over, it is important to address mental health issues now. Prison riots have occurred in Brazil, Colombia, Italy and the USA, which are linked to the challenges to mental health highlighted in figure 2 and demonstrate that solutions cannot wait.

The discussion around mental health in prisons throughout COVID-19 is lacking robust evidence. Considering the physical and mental health vulnerabilities of prisoners, understanding the impact of COVID-19 and the implemented regime changes is an urgent need. Particularly in the context of mass decarceration, prisons
are often places of transience, and the unaddressed mental health impact will have downstream consequences on wider society too. Currently, the prison service in England and Wales is evaluating feedback from prison residents and staff to improve management of safety and mental health as the pandemic continues.66 67

This review has several key strengths. First, this is the first scoping review of the mental health in prisons during the pandemic. Also, through taking a systematic approach, it has identified comprehensively the relevant literature and gaps in evidence with clear implications for research and policy. However, the poor quality of articles included means that the findings are not conclusive.

More research is urgently needed not only to gain an in-depth understanding of the mental health impact in prisons but also to identify effective interventions. Research also needs to examine the impacts of decarceration. Recently released prisoners are at a high risk of mortality, particularly from drug-related deaths.114 Given that drug-related sentences are one of the most common sentences being commuted,66 104 it is important to examine how continuity of care is best maintained on release. The lack of research on prison staff and imprisoned women is notable and should also be addressed.

Prisons should consider the mental well-being of their residents and staff. There needs to be greater provision of in-cell activities and expansion of electronic communications to enable imprisoned people to communicate with health professionals and family and to enable courts to function remotely to prevent the backlog of trials. There must be clear communication with imprisoned people and staff about the public health measures taken so that they know what to expect. These measures, while enabling infection control, must be kept to a minimum to ensure the protection of prisoners’ human rights. Health-care staff have an important role to play in identifying and monitoring the well-being of vulnerable people, maintaining services and responding to health needs. Releasing large numbers of people into the community creates problems for these individuals and requires adequate protections such as appropriate housing and links into health services. All these measures must be underpinned by strong leadership and collaborative working across prison systems, non-governmental organisations and healthcare and social care partners.

CONCLUSION

The impact of COVID-19 on the mental health of imprisoned people and prison staff is likely to be profound, related not only to fear of COVID-19 but also as a consequence of instituting infection prevention and control measures. Although essential, these must be kept to a minimum and mitigation strategies to maintain mental well-being implemented alongside them. In March 2020, the WHO noted, ‘People in prisons and other places of detention are not only likely to be more vulnerable to infection with COVID-19; they are also especially vulnerable to human rights violations’. Given the evidence of impact so far and the reality that this pandemic is far from over, there is an urgent need for action alongside further research to address the adverse mental health consequences of the pandemic on those who live and work in prisons.

Acknowledgements
We would like to thank Kelsey Johnson for helping develop the framework image (figure 2) for understanding mental health in imprisoned people throughout COVID-19, and Thiago Bento and Gracia Felmeth for translations.

Contributors
The corresponding author attests that all listed authors meet authorship criteria and that no others meeting the criteria have been omitted. LJ and EP conceived the study. LJ performed the search, and LJ and KG screened articles and assessed their quality. EP acted as coreviewer and quality assessor. All authors contributed substantially to the interpretation of the findings. LJ produced the first draft, and KG, EP, JP and AR revised critically the content. All authors approved the final manuscript. LJ is the overall content guarantor.

Funding
The authors have not declared a specific grant for this research from any funding agency in the public, commercial or not-for-profit sectors.

Competing interests
None declared.

Patient consent for publication
Not required.

Provenance and peer review
Not commissioned; externally peer reviewed.

Data availability statement
Data sharing not applicable as no datasets generated and/or analysed for this study. All relevant review information in supplementary material. No primary data analysed.

Supplemental material
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