Moral distress among clinicians working in US safety net practices during the COVID-19 pandemic: a mixed methods study

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ABSTRACT

Objective To explore the causes and levels of moral distress experienced by clinicians caring for the low-income patients of safety net practices in the USA during the COVID-19 pandemic. Design Cross-sectional survey in late 2020, employing quantitative and qualitative analyses. Setting Safety net practices in 20 US states. Participants 2073 survey respondents (45.8% response rate) in primary care, dental and behavioural health disciplines working in safety net practices and participating in state and national education loan repayment programmes. Measures Ordinaly scaled degree of moral distress experienced during the pandemic, and open-ended response descriptions of issues that caused most moral distress. Results Weighted to reflect all surveyed clinicians, 28.4% reported no moral distress related to work during the pandemic, 44.8% reported ‘mild’ or ‘uncomfortable’ levels and 26.8% characterised their moral distress as ‘distressing’, ‘intense’ or ‘worst possible’. The most frequently described types of morally distressing issues encountered were patients not being able to receive the best or needed care, and patients and staff risking infection in the office. Abuse of clinic staff, suffering of patients, suffering of staff and inequities for patients were also morally distressing, as were politics, inequities and injustices within the community. Clinicians who reported instances of inequities for patients and communities and the abuse of staff were more likely to report higher levels of moral distress. Conclusions During the pandemic’s first 9 months, moral distress was common among these clinicians working in US safety net practices. But for only one-quarter was this significantly distressing. As reported for hospital-based clinicians during the pandemic, this study’s clinicians in safety net practices were often morally distressed by being unable to provide optimal care to patients. New to the literature is clinicians’ moral distress from witnessing inequities and other injustices for their patients and communities.

INTRODUCTION

News photos and stories of physicians and nurses labouring in intensive care units overflowing with ill and frightened patients have been among the most iconic images of the COVID-19 pandemic.1 2 These clinicians have been shown to be physically and emotionally exhausted, and also said to be morally distressed by witnessing and participating in people’s illness, care and death in sheer numbers and under circumstances that feel morally wrong.3 4 6 The concept of moral distress among healthcare professionals is several decades old but still evolving.2 4 11 In this study, we conceptualise moral distress as the psychological unease or distress that occurs when one witnesses, does things or fails to do things that contradict deeply held moral and ethical beliefs and expectations.

Likely, clinicians in many disciplines and work settings have felt morally distressed in their work during the pandemic.5 12 This has been demonstrated for broad cohorts of
pathway in the COVID-19 pandemic among clinicians working in a wide range of types of safety net practices in 20 US states. With no available listing of safety net practices of the many types across states or rosters of their clinicians, we study moral distress within a large subgroup of safety net clinicians for whom complete roster data are uniquely available. Specifically, we study clinicians participating in federal and state loan repayment (LRP) and related programmes that help clinicians pay down debt incurred from the costs of their training in exchange for a period of work within safety net practices.44–46 This study assesses these clinicians’ self-reported levels of moral distress. It categorises and describes the issues they report caused them most moral distress during the pandemic. It also compares the moral distress levels and issues of primary care, dental and behavioural health clinicians, whose care required different adaptations to the pandemic bringing varying challenges to clinicians and patients.47 It further assesses how the level of moral distress clinicians report varies with the types of issues they report caused them most distress.

METHODS
Subjects
To study the pandemic’s various effects on clinicians working in safety net practices, we surveyed all primary care, dental and behavioural health clinicians and providers in 20 US states who were participating in the education loan repayment and scholarship programmes of the National Health Service Corps (NHSC) and in states’ similar programmes that have service commitments to work within safety net practices.48 49 50 The 20 states (Alaska, Arizona, Arkansas, California, Delaware, Iowa, Kentucky, Minnesota, Missouri, Montana, Nebraska, Nevada, New Mexico, North Carolina, North Dakota, Oregon, Rhode Island, South Carolina, Virginia and Wyoming) constitute 40% of all US states, and do not differ statistically from the 30 other US states in both mean and median total population, mean per capita income, percentage population living in urban versus rural areas and number of known positive COVID-19 infections as of 15 December 2020, during the survey period.50–52 These 20 states participate in the Provider Retention Information System Management Collaborative (one member state at the time declined participation), a voluntary cooperative of states’ clinician workforce programme offices and offices of rural health that annually surveys clinicians serving in LRP and scholarship programmes to assess programme outcomes.53 54

The US Bureau of Health Workforce regularly provides the Collaborative with roster information on all clinicians participating in the federal NHSC, and the Collaborative’s lead agency for each state provides information on all participants of their state’s programmes. The current study used this information to field a one-time, COVID-19-focused survey of this clinician cohort.

Invitations to participate in the survey of COVID-19 experiences were emailed to all clinicians who began serving an NHSC or state LRP or scholarship programme contract in 2018 and 2019 and were serving as of 1 July 2020. Initial survey invitations were sent on 24 November 2020, 9 months into the pandemic in the USA, and the survey closed on 7 February 2021: 83% of all responses were received by 31 December. An imbedded link on the invitation took participants to the on-line questionnaire presented on the Qualtrics 2020 platform (Qualtrics; Provo, Utah, USA). Clinicians were informed that participation was voluntary and anonymous.
Survey instrument
In this 10 min questionnaire, items addressing moral distress were part of a broader survey to understand safety net practice clinicians’ experiences during the pandemic. Other survey questions asked how the pandemic had affected clinicians’ patients, work and jobs, and queried clinicians’ stressors and well-being. Moral distress was included in this study because of its demonstrated importance to the experiences of clinicians working in hospital settings during the pandemic, and anticipating that moral distress may be particularly important to clinicians caring for low-income populations that had been most affected by the pandemic.

Moral distress measure
The notion of moral distress for clinicians was initially developed for and has continued to principally focus on hospital-based nurses for the distress nurses can experience when feeling obligated to act in ways they do not feel are morally right for patients and patients’ families. In recent years, the study of moral distress among clinicians has expanded to other disciplines—although still principally in the hospital setting but now also in long-term care settings—and its conceptualisation and measurement tools have broadened. For this study, we sought a definition and measurement tool of moral distress pertinent to the work of medical primary care, dental and behavioural healthcare practitioners working in outpatient settings in the USA, where care is typically in small practices and provided through 15–60 min patient visits, patient–practitioner relationships that often span years, and for patients living at home with their families and within communities, and supported or limited by families’ social situations. We sought a definition relevant to physicians, nurse practitioners, dentists, psychologists and others who, by nature of their training, work and licensing, generally make independent, relatively unconstrained decisions on their patients’ care.

This study conceives of moral distress as stemming from things that clinicians do or fail to do that feel morally wrong to them—consistent with original definitions of moral distress—as well as things that clinicians witness that they feel are morally wrong—consistent with the scope of items in the more recently developed and widely used Moral Distress Scale-Revised (MDS-R) and the Measure of Moral Distress for Healthcare Professionals (MMD-HP) and consistent with moral distress as conceptualised by the British Medical Association and others. To fit the work of this study’s licensed independent practitioners, we also do not limit moral distress to situations when one’s professional actions are constrained by others.

Because our questionnaire addresses a variety of issues clinicians face during the pandemic and assesses issues for many disciplines working in many practice settings, we assess moral distress with a brief, single-item and unconstraining measurement tool, the visual analogue Moral Distress Thermometer Scale, which was developed and validated for hospital nurses by Wocial and Weaver and since also used with physicians. Unlike the commonly used MDS-R and the MMD-HP, the Moral Distress Thermometer does not query and sum a list of morally distressing experiences clinicians may have had. We could not assume that a list of experiences previously generated for other disciplines and settings would appropriately, accurately and fully captured the issues that morally distress primary care, dental and behavioural health clinicians working in outpatient settings for whom the causes of moral distress have been rarely assessed. In the questionnaire, clinicians were first presented with the following definition of moral distress: ‘Moral distress occurs when you witness or do things, whether required by circumstances or not, that contradict your deeply held moral and ethical beliefs and expectations.’ Immediately following this definition, participants were asked, ‘How much moral distress have you experienced related to work during the pandemic?’

Knowing that many clinicians would complete questionnaires on mobile phones with their small screens, we collapsed the Moral Distress Thermometer’s original, vertically numbered response options that would not fit on some screens to a more compact 6 response options, while retaining the original 6 response anchors (none, mild, uncomfortable, distressing, intense, worst possible). We omitted the thermometer image displayed along the response scale because we felt not all disciplines would relate to it (NB, the original MDS, on which the Moral Distress Thermometer was based, was set on a bookmark image). The next, open-ended question in the questionnaire asked participants: ‘What specific issues or events caused you most moral distress during the pandemic?’, with clinicians able to identify the issues they felt caused them moral distress within the definition presented.

Public involvement
Health workforce office leaders of the 20 states with clinicians participating in this study provided consent for their state’s participation and assisted in recruiting clinicians’ participation, and two assisted as coauthors. Twenty-six clinicians working in safety net practices pilot tested the survey instrument. All clinician participants will receive a copy of this paper.

Analysis
Descriptive statistics characterise respondents’ demographics, disciplines and work settings. The percentage of respondents who reported various levels of moral distress are reported, with comparisons made across the three discipline groups (primary care, dental health and behavioural health) and the various types of practices where they worked (eg, mental health facilities and rural health clinics). Assessments for statistically significant group differences in moral distress levels are made with the Complex Samples feature of SPSS (V.26), a variant of the second-order Rao-Scott adjusted $\chi^2$ to account for clustering of the data because sometimes two or more
The above demographic and moral distress level percentages are reported for clinicians working in the same practice. The above demographic and moral distress level percentages are reported for clinician subgroups that differed significantly in response rates, specifically clinicians’ discipline group (behavioural health vs primary care and dental health), the particular service programme clinicians were participating in (NHSC LRP vs joint state-federal LRP vs NHSC Rural Community LRP and states’ service programmes vs NHSC Scholarship and NHSC Substance Use Disorder programmes), and whether clinicians were participating in the service programme at the time of the survey or had completed service within the preceding few months. Weights for the 20 strata varied from 0.62 to 1.40, and the calculated design effect due to weights was 1.037.

We conducted qualitative content analysis of clinicians’ open-ended survey item responses to understand and categorize the issues and events they reported caused them most moral distress during the pandemic. Three investigators initially read and discussed 4 batches of 100 responses to understand the types and range of issues that clinicians identified and how they framed them. Respondents generally indicated a moral issue (eg, people not getting needed care or being put at greater risk of infection), the group that was harmed (eg, patients, clinic staff or the public) and the person or entity said to be responsible for the harm (eg, the respondent clinician, clinic staff or society), which we used as three properties in organising codes. The three investigators then developed and refined a coding scheme by iteratively coding and discussing 5 additional batches of 70–100 responses by considering the range of issues that clinicians identified and classifying the types of issues. The final coding scheme included 28 codes that specified both the nature of the moral issue and the group affected. A separate set of eight codes classified the identified responsible person or entity.

Coding was based on what respondents explicitly stated with minimal interpretation so as not to misconstrue clinicians’ meaning in their often brief responses. Each clinician’s comment was analysed in its entirety and was assigned a moral issue and group affected code, and also a responsible party code for the person or entity said to be responsible for causing the morally distressing issue by compelling the morally distressing action or carrying out the distressing action, whichever was specified. More than one moral issue code and/or responsible party code was assigned for comments that included more than one type of moral issue and/or responsible party. Comments that noted multiple examples of the same moral issue and/or responsible party received a single moral issue code and/or single responsible party code.

We applied this coding scheme to open-ended responses in a one-third sample of completed questionnaires, that is, responses in every third group of 100 sequentially completed questionnaires. Two investigators—a graduate student in a non-health field trained in qualitative research and a senior medical student with some content experience and knowledge but no prior familiarity with qualitative research—individually coded all responses. Inter-rater reliability assessed for responses from questionnaires not used in developing the coding scheme was acceptable for both moral issue and harmed group codes (kappa=0.83, 95% CI, 0.80 to 0.86) and responsible person or entity codes (kappa=0.83, 95% CI 0.79 to 0.86). A third investigator, an experienced qualitative and quantitative researcher and clinician familiar with care in safety net practices and clinicians’ issues there, identified coding differences, which were settled through a combination of discussion and consensus, majority rule, and relying on the third reviewer’s insights.

To simplify the presentation of findings, we combined codes that had few mentions and were conceptually similar to generate a more manageable set of 11 moral issue and affected group codes and 7 codes for the responsible party. Each moral issue and its most commonly identified responsible party(ies) are briefly explained and representative quotes provided aiming to convey both the most common and range of reported issues falling within each category of moral distress (fair dealing). The number of mentions of issues falling into each category of moral distress/affected group and each category of responsible party, as well as their percent of all issues mentioned, are presented to convey a sense of which issues are more versus less common for these clinicians. Statistical weights are not applied to these percentage estimates as precise extrapolation to a target sample is inappropriate in qualitative research. Among respondents whose most distressing situation fell into each of the issue types, we also compare the percentage who reported higher levels of moral distress (ie, distress levels of ‘distressing’, ‘intense’ or ‘worst possible’).

Microsoft Excel (Microsoft Corporation; Redman, Washington, USA) was used to manage data during coding of participants’ typically brief responses with codes subsequently used in quantitative analyses (ie, counts and group frequency comparisons). Quantitative analyses were run with SPSS V.26. A p value of 0.05 was set for statistical significance.

RESULTS
Of the 4647 clinicians surveyed, 80 email addresses failed. Of the remaining 4567 clinicians, 2073 responded to the questionnaire including its item on degree of moral distress (45.6%). Most respondents (54.9%) were 35–49 years old, with one-third (30.4%) younger than 35 years and 14.6% were 50 years or older. Nearly three-quarters (72.9%) were women, and most (60.2%) had children at home. A strong majority were white (81.0%), with fewer being black or African American (6.8%), Asian (7.2%) and other or multiple races (5.0%). Hispanic ethnicity was reported by 9.8%.

Degree of moral distress
Among all respondents, the mean reported level of moral distress during the pandemic was 1.58, which is about
midway between ‘mild’ and ‘uncomfortable’ on the six-point ordinal scale from ‘none’ to ‘worst possible’. A total of 28.4% reported that they experienced no moral distress, 44.8% reported ‘mild’ or ‘uncomfortable’ levels of moral distress and 26.8% characterised their moral distress as ‘distressing’, ‘intense’ or ‘worst possible’ (table 1). Primary care, dental and behavioural health clinicians were similar in their proportions at these three grouped levels of moral distress (p=0.28). Moral distress levels were also similar for clinicians working across the various types of safety net practices (p=0.058).

### Reports of issues causing clinicians most moral distress

The 1485 clinicians who reported experiencing moral distress during the pandemic were asked what specific issues or events caused them most moral distress: 1168 (78.6%) provided open-text responses. Responses varied in length from a single word (eg, ‘death’) to several paragraphs. Of the 411 clinicians whose comments were randomly selected for qualitative analysis, 336 identified a single morally distressing issue and 75 identified two or more issues, generating a total of 508 mentions of issues for analysis.

### Responsible persons and entities

In clinicians’ descriptions of morally distressing issues that identified a person or party as responsible, it was most often clinicians themselves (31% of all issues mentioned) (table 2). In most cases, these were situations where clinicians felt they had not provided needed care or had provided suboptimal care to patients because of the exigencies of the pandemic or the requirements of their practices. Clinicians’ clinics or organisations were the second most commonly noted responsible party (15%), followed by government, politicians or society (14%), patients (3%), the public (3%) and clinic staff.

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**Table 1** Reported degree of moral distress related to work experienced during the pandemic, by discipline and practice setting

<table>
<thead>
<tr>
<th></th>
<th>Degree of moral distress (Weighted %)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
</tr>
<tr>
<td>All respondents</td>
<td>2073</td>
</tr>
<tr>
<td>Discipline</td>
<td></td>
</tr>
<tr>
<td>Primary care combined*</td>
<td>1097</td>
</tr>
<tr>
<td>Physician</td>
<td>354</td>
</tr>
<tr>
<td>Physician assistant</td>
<td>228</td>
</tr>
<tr>
<td>Advanced practice nurse</td>
<td>515</td>
</tr>
<tr>
<td>Dental health combined</td>
<td>294</td>
</tr>
<tr>
<td>Dentist</td>
<td>255</td>
</tr>
<tr>
<td>Dental hygienist</td>
<td>39</td>
</tr>
<tr>
<td>Behavioural health combined</td>
<td>682</td>
</tr>
<tr>
<td>Licensed professional counsellor</td>
<td>223</td>
</tr>
<tr>
<td>Licensed clinical social worker</td>
<td>241</td>
</tr>
<tr>
<td>Psychologist</td>
<td>104</td>
</tr>
<tr>
<td>Other Behavioural health</td>
<td>114</td>
</tr>
<tr>
<td>Practice setting†</td>
<td></td>
</tr>
<tr>
<td>FQHC-CHC</td>
<td>1083</td>
</tr>
<tr>
<td>Mental health or SUD facility</td>
<td>260</td>
</tr>
<tr>
<td>Indian health service or tribal site</td>
<td>215</td>
</tr>
<tr>
<td>Rural health clinic</td>
<td>145</td>
</tr>
<tr>
<td>Correctional facility</td>
<td>41</td>
</tr>
<tr>
<td>Other office-based site</td>
<td>296</td>
</tr>
<tr>
<td>Hospital-based site</td>
<td>33</td>
</tr>
</tbody>
</table>

*Second-order Rao-Scott adjusted $\chi^2$ test for differences in group proportions for the combined disciplines of the primary care, dental health and behavioural health groups, p=0.28.
†Second-order Rao-Scott adjusted $\chi^2$ test for differences in group proportions across seven practice settings, p=0.058.
FQHC-CHC, Federally Qualified Health Center-Community Health Center; SUD, substance use disorder.
Table 2  Persons or entities that clinician’s comments identified as responsible for the issues they found most morally distressing (n=508 comments)

<table>
<thead>
<tr>
<th>Responsible person or entity</th>
<th>Representative comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>The clinician–respondent</td>
<td>Not being able to provide care of the same quality as pre-pandemic; having to cancel on clients to take care of myself; Being unable to treat patients in need because my clinic closed</td>
</tr>
<tr>
<td>The clinician’s clinic or organisation</td>
<td>My clinic wasn’t telling staff or clients when there were positive covid cases in the building and I was told not to as well; The conflict between organization pushing for in person visit when often telemedicine would be more appropriate</td>
</tr>
<tr>
<td>Government/politicians/society</td>
<td>Poor handling of covid at federal and state levels; the failure of presidential leadership; racism, hatred, lack of moral responsibility shown by others</td>
</tr>
<tr>
<td>Patients</td>
<td>Patients coming into the consult room and taking off their mask; patients dishonesty during screening process</td>
</tr>
<tr>
<td>The public</td>
<td>Lack of social responsibility of others to wear a mask; Anti-maskers/Conspiracy Theorists/ Anti-vaxxers</td>
</tr>
<tr>
<td>Clinic staff and/or administrator</td>
<td>Providers/staff not following covid protocols; a decline in the medical staff treatment of some of the pts; My MA declining covid testing… while family at home had covid.</td>
</tr>
<tr>
<td>Unspecified/unclear/other</td>
<td>My clients anxiety; Needless deaths; Potential to exposure; Forced lock downs; covid screening and testing</td>
</tr>
</tbody>
</table>

and/or administrators (3%). For one-third of the morally distressing issues reported, the responsible party was unclear or not identified. Many comments that did not identify a responsible party spoke of situations that were widely known to occur during the pandemic and have been frequently highlighted in the lay press, for example, ‘patient dying alone;’ ‘watching outbreaks unfold in nursing homes’. The lack of a named responsible party in these situations was believed by coders to indicate that clinicians were not assigning responsibility to anything other than the pandemic itself.

Morally distressing issues

Table 3 presents the 11 categories that clinicians’ reported morally distressing issues fell into, with representative verbatim comments. The percentage of each individual or entity identified as responsible for each of the morally distressing issues is shown in figure 1. The percentage distribution of comments falling into the 11 categories of morally distressing issues was comparable for primary care, dental health and behavioural clinicians (p=0.123), with one exception: compared with primary care and behavioural health clinicians, dental health clinicians more often reported issues related to risking infecting patients and clinic staff (17.0% vs 35.1%, respectively; p=0.005).

The 11 categories of morally distressing issues and common subcategories within each follow below.

1. Patients not receiving the best and/or needed care (principal responsible party: the clinician–respondent (figure 1)). This was the most commonly reported group of morally distressing issues, comprising 29% of all issues mentioned (table 2). The limitations of telehealth and virtual care for patients were commonly mentioned, noting that they were often inadequate for appropriate care and posed a barrier to care for some patients.

we’ve primarily done phone/telehealth. There are times I have anxiety related to ‘what if I’ve missed’ something because I’m unable to see the person in full. (Nurse practitioner, Oregon)

Providing care by telephone. Don’t feel that I can connect with clients in the same meaningful way. (Physician, Alaska)

Having to move patients to telehealth even though they themselves may not have the resources to access telehealth services. (Licensed Professional Counselor, Minnesota)

Other clinicians expressed that various circumstances of the pandemic limited what they could do for patients.

Not being able to provide care of the same quality as pre-pandemic. (Nurse Practitioner, California)

Some clinicians noted that their clinic’s decisions and protocols meant to limit COVID-19 exposure to patients and staff or bolster practice finances affected patients’ quality or access to care.

Not being able to provide the care I’d like. Financial decisions negatively affecting patient care. (Nurse Practitioner, Arizona)

2. Risking infection of patients and/or clinic staff (principal responsible parties: the clinician–respondent and their clinic/organisation). Comments related to circumstances that placed patients and clinic staff at risk of COVID-19 infection were the second most common type mentioned (19% of total), and were the most frequently reported morally distressing issue for dental
clinicians (35% of their comments). Shortages of PPE were frequently mentioned, as was the importance of balancing patients’ needs for in-person care with the infection risks this carried for them and clinic staff.

Worrying about keeping my employees safe, vs the importance of client care. (Licensed Clinical Social Worker, Oregon)

Got infected with COVID and my wife got infected because I was exposed at work. (Physician, North Dakota)

3. Abuse of staff and/or ignoring their needs (principal responsible party: the clinic/organisation). Some clinicians felt that their clinics made operational decisions without adequate regard for the effects on clinicians and other staff. Some felt their health was inadequately protected by their organisations and that their needs as people and employees were unheeded.

All our manager and director seem to care about us making money and how many patients we see. I was having to balance being exposed to so many patients then going home to my family and potentially exposing them. (Dentist, Arizona)

Organization not properly testing or protecting employees. Not providing hazard pay [or] providing FMLA (Physician Assistant, South Carolina)

4. The suffering of patients (principal responsible party: unspecified/unclear/other). Some clinicians noted the tragedy of the pandemic’s toll on their patients’ physical health, mental health, work and families, and how difficult it was for them, as their clinicians, to witness this.
Seeing how it has impacted families in our clinic and feeling powerless to make meaningful change. (Nurse Practitioner, North Carolina)

More clients in crisis and dealing with high anxiety. There has been less access to resources and supports for them in the community, which leaves me feeling helpless as a clinician. (Licensed Clinical Social Worker, Oregon)

5. The suffering of clinic staff (principal responsible party: unspecified/unclear/other). Clinicians recounted illnesses among coworkers (eg, ‘My nurse dying from complications of Covid;’ ‘Colleagues getting sick or having family members dies’), and fears of illness for themselves. Others spoke of employment challenges (eg, ‘job security;’ ‘partial lay off, decreased hours, having to find a new job for more income’). Still others spoke of feeling overwhelmed (eg, ‘Continual stress buildup, fear of an unknown outcome;’ ‘Juggling too much’).

6. Inequities for patients (principal responsible parties: unspecified/unclear/other and the government/politicians/society). A few clinicians remarked that their patients suffered disproportionately during the pandemic because they were a marginalised group, could not afford care, or there were no services available for them.

Diagnosing patients experiencing homelessness with COVID and not being able to provide them with a safe place to isolate/recover. (Physician, California)

The next four types of morally distressing issues listed below—encompassing 20% of all comments—occurred...
outside of clinicians’ practices within their communities, states or nationally. These issues were not specifically noted to affect clinicians’ patients or their care, but seemingly distressed clinicians given their knowledge of and concern about health, healthcare, public health, science and social justice. The government, politicians and society were frequently identified as causing these issues, but often the cause was unspecified or unclear.

7. Politics in the community (principal responsible party: the government/politicians/society). Politics and politicalised issues—the elections, the politicisation of the pandemic, conflicts between people with different political views—were mentioned as morally distressing because they created conflict and upset society, and sometimes for how it affected clinicians’ work and families.

Anti-science movement, lack of leadership, CDC tarnished, politics, politicization of health measures. (Physician Assistant, North Carolina)

The politicization of science and mask wearing has been very upsetting as it has put my life and my family’s life at risk… when these people get a severe toothache, they expect to be seen by a dentist, who’s very life is put at risk by their anti-mask behaviors with I am put in a position to provide oral healthcare. (Dentist, Nebraska)

8. The suffering of people in the community (principal responsible party: unspecified/unclear/other). Mentions of the suffering of people in the community generally mirrored the suffering that other clinicians noted for their patients, including the pandemic’s impact on people’s physical health, mental health and financial situations. A few comments were about community suffering due to public health measures and other government responses to the pandemic.

The way we are handling ‘the numbers’ as a nation, closing schools, putting child’s development and well-being in danger… (Nurse Practitioner, Kentucky)

9. Inequities and injustice within the community (principal responsible party: the government/politicians/society). The issues mentioned centred around racism and social injustice (‘BLM,’ ‘George Floyd,’ ‘racial injustice,’ ‘racism’) and disparities in health and healthcare (‘Exacerbation of health disparities,’ ‘Witnessing health inequalities and disparities’)

10. Risking infecting people in the community (principal responsible party: various). Comments in this category uniformly spoke of people not wearing masks or otherwise failing to follow the CDC’s protocols to mitigate the pandemic’s spread. Some comments were about people showing no concern or sense of responsibility for one another.

witnessing people not wear masks or following CDC guidelines (Dentist, Montana)

Lack of concern of people for others’ wellbeing (selfishness) (Physician, Arizona)

11. Unclear/uncertain/other issue (principal responsible parties: various). Some comments were too brief and without sufficient details or context to know what specifically about the issue mentioned was morally distressing to the clinician. For example, the comment ‘telehealth or phone’ might be intended to indicate the inadequacies of telehealth but alternatively that the practice could not offer telehealth.

Relationship between the moral distress issue cited and the amount of moral distress reported

Clinicians whose open-ended comments fell across the 11 categories of moral distressing issues varied in their likelihood of reporting a higher level—distressing, intense or worst possible—of distress, ranging from 29.7% to 62.5% (p=0.001) (figure 2). Clinicians most likely to rate their moral distress in the higher level range reported distressing issues in the categories of inequities for patients, abusing and/or ignoring the needs of clinic staff, and inequities within the community. Clinicians who least often rated their moral distress in the higher range reported issues related to patients not receiving the best and/or needed care, an unclear/uncertain/other issue, and the suffering of clinic staff.

DISCUSSION

In this study of clinicians working in outpatient safety net practices of many types and locations in the USA during the first 9 months of the COVID-19 pandemic, 71.6% reported experiencing moral distress related to their work. Most characterised their moral distress as ‘mild’ or ‘uncomfortable,’ but one-quarter (26.8%) of all clinicians described their moral distress levels as ‘distressing,’ ‘intense’ or ‘worst possible.’ Moral distress levels were similar for primary care, dental and behavioural health clinicians, and similar for clinicians working in the various types of safety net practices. Prior studies of other, principal hospital-based clinician groups have similarly found moral distress during the first year of the pandemic was mild for most.4 5 7 2

The most commonly mentioned issues that this study’s clinicians found most morally distressing were when their patients were not receiving the best or all needed care and the infection risks faced by patients and staff within the clinic. Not providing best and all needed care were also issues that clinicians working in other settings found morally distressing during the pandemic.4 5 10 13 Among hospital-based clinicians, this was often from having little to offer critically ill COVID-infected patients early in the pandemic, shortages of ICU beds and respirators, and issues of fairness in rationing when local infection and hospitalisation rates peaked. In contrast, this study’s outpatient clinicians noted moral distress from suboptimal and limited care when offices closed completely early in the pandemic and then later reopened but for safety reasons restricted the types of care provided and numbers of patients seen, as well as from using telehealth.
even when clinicians felt it was inadequate for patients’ needs. These operational changes were ubiquitous for US outpatient practices during the pandemic’s first year, including for the safety net practices where this study’s clinicians worked.16 47 73–75

Other things witnessed within offices during the pandemic that morally distressed clinicians included the suffering of patients and clinic staff and the mistreatment and abuse of staff. That outpatient clinicians’ moral distress sometimes stemmed from observing the suffering and mistreatment of staff expands the understanding that moral distress from work for clinicians only occurs from actions affecting patients and their families. When at work clinicians are around both patients and coworkers, and both groups have moral standing, that is their ‘interests matter intrinsically… in the moral assessment of actions and events.’76 Therefore, both groups can be morally wronged. Thus, it is not surprising that clinicians can be morally distressed when their coworkers are treated unfairly or otherwise suffer, just as they can be morally distressed when these things happen to patients.

Previous studies and fixed-response option survey instruments of moral distress for clinicians have focused on issues occurring within healthcare settings, typically the hospital.57 58 62 Clinicians in this study were presented with a definition of moral distress that did not limit it to the consequences of restricted actions, and through its open-ended, unconstrained query of perceived causes of moral distress during the pandemic clinicians reported many health-related issues occurring outside healthcare settings, such as people not wearing masks in public. The definition of moral distress provided to this study’s clinicians specified distress from issues ‘related to work during the pandemic’. It is likely that outpatient clinicians view the community’s failure to heed public health mandates has been relevant to their work, as it affects local infection rates and, in turn, the number of infected patients they will see in the office, infection risks thereby faced by clinicians and staff, and their offices’ ability to provide care to patients with other needs. Other clinicians reported moral distress from issues not even directly related to health, such as the pandemic’s financial impact on families. These clinicians evidently found the pandemic’s effects on non-health care related aspects of people’s lives more morally distressing and thus more salient to report than its disruptions to the health and care of patients. It may also be that some clinicians simply had not read or heeded the definition of moral distress provided.

Within the common bioethical framework of principlism, not providing best or all needed care and infecting others violate clinicians’ moral obligations of beneficence and non-maleficence, that is to help patients to the best of a clinicians’ ability and to not cause them harm.22 77

Some of the broader range of issues found morally distressing to this study’s outpatient clinicians violate a third fundamental bioethical principle: justice. Injuries
were observed during the pandemic when certain patient groups and communities faced barriers to care, health disparities and social injustices. Significantly, clinicians’ level of moral distress was more often in the high range for those who provided examples of inequities and other injustices for patients (62.5%) and within the community (69.0%) than among clinicians who cited examples of patients not receiving the best and all needed care (29.7%). The latter have been commonly mentioned sources of moral distress for clinicians during the pandemic, but for these clinicians they were less often the cause of great moral distress. It is not surprising that inequities and other injustices can cause significant moral distress for clinicians working in safety net practices, who were motivated in their careers to care for patients facing economic, other social and geographic barriers to care, often for lower pay.

The fourth common bioethical principle, autonomy, was reflected in the comments of just a few clinicians who reported moral distress from the pandemic’s public health mandates, such as the requirement to wear masks, that constrained individual freedoms.

In the morally distressing actions that clinicians themselves had carried out or failed to carry out, their words often indicated they felt compelled to do so, through statements such as, ‘Not being able to provide care…’ and ‘Being unable to treat patients…’, often evidently forced by circumstances unavoidable in the pandemic. Some clinicians perceived the pandemic created conflicts between their individual-focused clinical ethics—making decisions that are best for patients as individuals and respecting their autonomy—and society’s public-focused ethics, that is, prioritising the population’s health and other needs. Some clinicians indicated that their clinic or its parent organisation made decisions that caused their moral distress, most often policies perceived to pay inadequate attention to the needs of staff or that risked infecting clinic staff and patients. Some clinicians acknowledged the clash between their clinics’ corporate values and clinicians’ own better understanding and prioritisation of people’s health, safety and best care: ‘This company’s ongoing quest to put profits over people’. Even when clinicians viewed circumstances of the pandemic or their employers’ decisions had compelled them to alter how many and which patients they saw and how care was provided, they sometimes overtly stated that they felt bad about their role in carrying out these altered care requirements, expressed in statements such as ‘feeling like my work isn’t enough, that my clients need more than I can give,’ and ‘feeling like I’m not adequately helping clients via telehealth’.

In the absence of studies of moral distress among outpatient and safety net practice clinicians prior to the current pandemic, we cannot be certain that the distress measured here at 9 months into the pandemic is greater than if measured in 2019 or earlier. But most issues these clinicians reported caused moral distress during the pandemic related directly or indirectly to the pandemic, thus their moral distress had likely increased during the pandemic. Their moral distress may have increased further since this late 2020/early 2021 survey, as vaccines have since become widely available but then shunned by many people, prolonging the pandemic and causing many needless deaths.

This study has several important limitations. Its 45.8% response rate is strong for a survey of clinicians but can still allow response bias. This was addressed through statistical reweighting to the target study population in analyses of demographics and quantifying levels of moral distress. If response bias remained, it would have affected the levels of moral distress measured and group comparisons, but not likely the range of issues identified as morally distressing to these clinicians. The reported frequencies of the various types of morally distressing issues and responsible parties, derived from mentions in qualitative analyses, should be understood only to show the issues most and least commonly mentioned and not as meaningful frequency point estimates for the target population.

Clinicians’ interpretation of the original single question Moral Distress Thermometer measurement tool and its adaptation for this study, as well as some other aspects of their validity, have not been assessed. Further, relying on open-ended written response data gave us no opportunity to clarify clinicians’ responses or allow us to understand the fuller context, meaning and significance of the issues they report. This should be addressed in future studies.

In terms of generalisability, this study assessed moral distress in a subset of US safety net clinicians who participated in service-requireing education loan repayment and scholarship programmes. Although this cohort is broad in its disciplines and in the types of safety net practices where clinicians work, its experiences may not fully reflect that of other clinicians working in their safety net practices, who are more likely to be older and in leadership positions because of their seniority. Some but not all studies of moral distress among critical care nurses find that nurses who are more experienced are less likely to experience moral distress.

**CONCLUSIONS AND IMPLICATIONS**

This study expands the understanding of the moral distress of clinicians during the COVID-19 pandemic beyond those working in hospitals by assessing moral distress among clinicians working in US outpatient practices that focus on care for poor and otherwise socially vulnerable patients. It finds that most clinicians working in safety net practices experienced moral distress during the pandemic’s first year, with one-quarter characterising its intensity as ‘distressing’ or greater. Moral distress frequently stemmed from the operational changes that many US practices made in response to the pandemic, such as restricting services and the number of office appointments offered each day which delayed care for patients, and requiring virtual visits even when clinicians...
felt that face-to-face visits provided better care. Within this unique population of clinicians whose work focuses on care for the poor, some reported that injustices observed for patients, staff and within the community caused them most moral distress during the pandemic, and these particular clinicians more often reported higher levels of moral distress. Other clinicians found the mistreatment and abuse of clinic staff during the pandemic most morally distressing. These findings expand the types of issues recognised as causing moral distress for clinicians beyond prior studies’ focus on moral distress from care that does not best serve patients. Future studies should assess whether other clinician groups, including those working in other types of outpatient practices and within hospitals, can also be morally distressed at work by mistreatment of health care staff and witnessing injustices.

Moral distress for clinicians during the COVID-19 pandemic has occurred alongside and contributed to their stresses from other sources and to their emotional exhaustion, adverse mental health and burnout.1 15 85–86 The consequences of moral distress for these safety net practice clinicians at the levels found and for the issues reported remains to be demonstrated but are likely meaningful: moral distress for clinicians in other settings is associated with disengagement from patients, poorer quality of care and burnout.13 29–34 Of particular importance to the future staffing of safety net practices, clinicians morally distressed by perceived unjust or otherwise harmful policies made by their safety net practices may be more likely to join the ‘Great Resignation’ and look for work elsewhere.29 30 87 88 On the other hand, clinicians’ retention in their practices may not be affected when they are morally distressed by things perceived to be unavoidable during the pandemic or otherwise not due to their practices, especially if their experiences during the pandemic strengthened their sense of meaning in work and thus the importance of their jobs.47 80 89

Various approaches have been suggested to reduce moral distress among clinicians. Managers of outpatient practices should understand what moral distress means for clinicians and its importance to them, create supportive work environments, create ways for clinicians and staff to learn and talk about moral distress and safely raise morally distressing issues, identify and address any ongoing sources of moral distress, and provide clinicians with needed psychological support and time away from work.10 12 86 90 91 Clinicians should be involved in operational decisions made during challenging times—indeed, all times—so that decisions can be informed by their perspectives and clinicians can better understand the choices available to their practices and reasoning behind the decisions made that affect them, their colleagues and their patients.

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