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Challenges, experience and coping of health professionals in delivering healthcare in an urban slum in India during the first 40 days of COVID-19 crisis: a mixed method study

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ABSTRACT

Objectives To describe the initial dilemmas, mental stress, adaptive measures implemented and how the healthcare team collectively coped while providing healthcare services in a large slum in India, during the COVID-19 pandemic.

Setting Community Health Division, Bangalore Baptist Hospital, Bangalore.

Study design We used mixed methods research with a quantitative (QUAN) paradigm nested in the primary qualitative (QUAL) design. QUAL methods included ethnography research methods, in-depth interviews and focus group discussions.

Participants A healthcare team of doctors, nurses, paramedical and support staff. Out of 87 staff, 42 participated in the QUAL methods and 64 participated in the QUAN survey.

Results Being cognizant of the extreme vulnerability of the slums, the health team struggled with conflicting thoughts of self-preservation and their moral obligation to the marginalised section of society. Majority (75%) of the staff experienced fear at some point in time. Distracting themselves with hobbies (20.3%) and spending more time with family (39.1%) were cited as a means of emotional regulation by the participants in the QUAN survey. In the QUAL interviews, fear of death, the guilt of disease transmission to their loved ones, anxiety about probable violence and stigma in the slums and exhaustion emerged as the major themes causing stress among healthcare professionals. With positive cognitive reappraisal, the health team collectively designed and implemented adaptive interventions to ensure continuity of care. They dealt with the new demands by positive reframing, peer support, distancing, information seeking, response efficacy, self-efficacy, existential goal pursuit, value adherence and religious coping.

Conclusion The novel threat of the COVID-19 pandemic threw insurmountable challenges potentiating disastrous consequences; slums becoming a threat to themselves, threat to the health providers and a threat for all. Perhaps, a lesson we could learn from this pandemic is to incorporate ‘slum health’ within universal healthcare.

Strengths and limitations of this study

To the best of our knowledge, this is the first article exploring the experiences of a healthcare team working in a large slum in India during the COVID-19 pandemic.

It offers valuable insights into complexity, vulnerability and lessons of resilience from real-life settings that could help build evidence regarding slums and their health providers who are often missing from the existing scientific literature.

The researchers being a part of the slum healthcare ecosystem are in a strong position to understand and interpret the context. However, the possibility of personal bias and power bias cannot be ruled out.

Purposive selection of participants and its potential for judgement bias, use of practical objective questionnaire instead of a previously validated instrument and not exploring personality traits that play a role in stress, coping and resilience are the limitations of the study.

BACKGROUND

The COVID-19 is an unprecedented pandemic that has led to millions being affected and thousands dying everyday across the world. India reported its first case in the state of Kerala on 30 January 2020.1 In a matter of few months, India has crossed the mark of 145 380-confirmed COVID-19 cases as on 26 May 2020.2 More than a billion inhabitants, pronounced inequity, and poor healthcare networks pose a significant challenge to fighting this pandemic in this country. Within that fight, urban slums, home to 65-49 million people in India are the most challenging environments.3 Overcrowding, low-rise, ill-ventilated shanty buildings, narrow insanitary filthy lanes, social fragmentation and exclusion are the hallmarks of slums.3 These factors, along with poor food security, indoor
air pollution, the impossibility of social distancing and limited health infrastructure, make slums vulnerable to the COVID-19 infection and higher mortality.4,5

As a result of the factors discussed above, slum communities are extremely vulnerable to the current pandemic, not only from the perspective of direct health risks but also from the perspective of its long-term consequences. While the need for access to good and affordable healthcare is obvious, it is exceptionally challenging to provide such care in this setting. This challenge is further complicated by stigma and social prejudice. The Indian media, sensationalised recent news about the COVID-19 outbreak in the Dharavi slum of Mumbai, portraying slum dwellers as disease spreaders who threatened the health and security of other citizens.6,7 This has led to non-compliance with government rules and violence to COVID-19 mitigation efforts in many slums. But in the later stage of this pandemic, the efforts of the Mumbai health authorities to manage COVID-19 in Dharavi slums were applauded by the chief of the WHO as a global role model for effective managing existing diseases while simultaneously crafting a coherent response to the novel COVID-19 pandemic.

In the context of heightened ‘COVID-19 anxiety’ and stigmatisation, slums require supportive and responsive healthcare systems to stand up to the mounting challenges. While most of the urban primary health centres (U-PHCs) are yet to be established in the state, the existing urban health centres were forced to get involved in pandemic-related activities with a reduced focus on routine healthcare services such as non-communicable disease (NCD) management and Reproductive and Child Health (RCH) services. Similarly, while the tertiary care systems were preparing themselves for this pandemic, most of the private primary care clinics in the slums have closed down.9

There are many reasons for the same. Constrained infrastructure, limited human resources, non-availability of personal protective equipment (PPE), cost escalation of care, exhaustive disinfection demands, environmental vulnerability and pre-existing social prejudices pose a significant challenge in running the primary care clinics in a low resource setting.

Being plagued by poverty and extreme health vulnerability, people in slum areas also inordinately suffer from the killer diseases, including waterborne diseases, tuberculosis and NCD like diabetes and hypertension in addition to COVID-19.10

Primary care services thereby play a crucial role in managing existing diseases while simultaneously crafting a coherent response to the novel COVID-19 pandemic. Its role in preventing disease complications (myocardial infarction, stroke, renal failure etc), providing emergency care, offering preventive services such as antenatal care and immunisationwhile formulating a multifaceted response (to educate, identify, treat and refer) to this pandemic is indispensable.11,12

Realising the exponential growth of unorganised slums in the cities, their increased health demands and the absence of any existing comprehensive health programme, National Urban Health Mission (NUHM) was launched in 2013. It envisages meeting the healthcare needs of the urban poor by proposing U-PHCs for every 50,000 population within or 500 metres of the slum. NUHM is set to cover the country’s seven big metropolitan areas and 772 cities with a population of more than 50,000 people with an investment of INR225 billion into the healthcare sector in a phased manner.13 Though some initiatives were rolled out as a part of NUHM, the coverage of the government health system in many of the slums in India is far from ideal.

The Bangalore Baptist Hospital (BBH) has rendered primary care services in slums of Bangalore through its standalone community and mobile clinics for more than a decade. Though cognizant about the health demand in the slums, we did debate over ‘self-preservation’ versus ‘moral contract’ to the society during the pandemic. The objective of this paper is to describe the initial dilemmas and consideration, mental stress, adaptive measures implemented and way in which the team collectively coped with the situation. This paper describes the experience of running healthcare services in one of the biggest slums of Bangalore during the first 40 days of the COVID-19 pandemic. These experiences may help us improve the healthcare services in slums and to better prepare for future epidemics and pandemics.

METHODOLOGY

Setting

The hospital

BBH is a tertiary care hospital that was started in the early seventies as a not-for-profit organisation built on Christian values. BBH exists to serve the needy irrespective of their religion, caste and socioeconomic status and also has a mixed pool of employees across different faith. The Community Health Division extends its services to 1083 villages of Bangalore Rural District (one million population) and twelve slums within Bangalore city (additional one million people).

The slum

The United Nations operationally defines a slum as ‘one or a group of individuals living under the same roof in an urban area, lacking in one or more of the following five amenities’: (1) durable housing (a permanent structure protecting from extreme climatic conditions), (2) sufficient living area (no more than three people sharing a room), (3) access to improved water (water that is sufficient, affordable and can be obtained without extreme effort), (4) access to improved sanitation facilities (a private toilet or a public one shared with a reasonable number of people) and (5) secure tenure (de facto or de jure secure tenure status and protection against forced eviction).14

Devarajevanahalli (DJ Halli) is one of the largest government notified slums in Bangalore, extending over 1.15 km with 50,000 population.15,16 A study by the primary
their thoughts, actions and decision-making of identity and guide individuals, often unconsciously, in beliefs and experiences of a group that provide a sense of belonging.

General is defined as ‘shared patterns of learnt values, beliefs and experiences of a group that provide a sense of belonging’.

The researcher and the participants.19 20

We conducted an ethnographic study, where ethnographic interviewing and focus group discussions (FGDs).22 28 Participants were purposively selected based on their experience and their ability to express. During participant observation, the researcher’s intention was known to the group being studied. The researchers played a dual role in observing and participating, yet the emphasis for the researchers was to collect data, rather than participating in the activity being observed. With a deep understanding of the research question, the researchers moved from descriptive observation (observes anything and everything) to focused observation (the participant’s interaction insights guide what to observe) and finally to selective observation (directed by researchers insights gained over the previous observations).29 Ethnographic interviewing is an informal one-on-one interview taking place in a naturalistic setting, following the participant observation.22 30 To enhance understanding and gain deeper insights, we conducted FGD, which allowed social interaction between participants using an interview guide. Researchers with methodological expertise and contextual knowledge developed the interview guide and pilot tested with two participants. The interview and FGD guide predominantly consisted of open-ended questions that probed the significance of the pandemic (how it affected them personally), perceptions about their susceptibility to infection (threat susceptibility) and the severity of COVID-19, their mental stress and how they were managing them (coping methods). The duration of the in-depth interviews and FGDs ranged from 30 to 45 min and 45 to 60 min, respectively. Ethnographic interviews and FGDs were audio-recorded (after having taken an oral permission), transcribed and analysed along with field notes. Fieldnotes with narrations of what was observed, including informal conversations, meeting notes and other documents available in the setting, were considered in the analysis to enhance the understanding of the context. The essence of the findings was discussed with the participants at multiple instances to maximise the efficiency of the field experience and minimise researcher bias, in order to make the findings as objective and truthful as possible.

**Study design**

We used mixed methods research with a quantitative (QUAN) paradigm nested in the primary qualitative (QUAL) design.18 This design helped the researchers explore diverse perspectives and uncover complex relationships in this unique social and cultural context. The research was underpinned by an interpretivist approach, which recognises the subjective nature of knowledge, the need to understand situations from the perspective of those involved and the shared meaning-making between the researcher and the participants.19 20

QUAL

We conducted an ethnographic study, where ethnography was applied to understand and describe a distinct experience of continuing health services in slum settings. The researchers CEG (PhD student, MBBS, MD, woman) and LRI (MBBS, MD, man) were trained and experienced in QUAL research methods. The researchers were part of the health team, and all participants were colleagues of the interviewers. In ethnography, the focus is on ‘understanding how people live their lives in their sociocultural worlds’, and the goal is to provide an interpretive-explanatory narrative and meaning of people’s behaviour including their beliefs and expectations, which are sociocultural in nature.22-24 Culture in general is defined as ‘shared patterns of learnt values, beliefs and experiences of a group that provide a sense of identity and guide individuals, often unconsciously, in their thoughts, actions and decision-making’.25 However, in this study, we employed microethnography, in which culture is defined more narrowly as a subculture of healthcare professionals delivering care in slum settings during COVID-19 outbreak.26 27

We took a descriptive, exploratory approach and employed the QUAL research techniques of participant observation, ethnographic interviewing and focus group discussions (FGDs).22 28 Participants were purposively selected based on their experience and their ability to express. During participant observation, the researcher’s intention was known to the group being studied. The researchers played a dual role in observing and participating, yet the emphasis for the researchers was to collect data, rather than participating in the activity being observed. With a deep understanding of the research question, the researchers moved from descriptive observation (observes anything and everything) to focused observation (the participant’s interaction insights guide what to observe) and finally to selective observation (directed by researchers insights gained over the previous observations).29 Ethnographic interviewing is an informal one-on-one interview taking place in a naturalistic setting, following the participant observation.22 30 To enhance understanding and gain deeper insights, we conducted FGD, which allowed social interaction between participants using an interview guide. Researchers with methodological expertise and contextual knowledge developed the interview guide and pilot tested with two participants. The interview and FGD guide predominantly consisted of open-ended questions that probed the significance of the pandemic (how it affected them personally), perceptions about their susceptibility to infection (threat susceptibility) and the severity of COVID-19, their mental stress and how they were managing them (coping methods). The duration of the in-depth interviews and FGDs ranged from 30 to 45 min and 45 to 60 min, respectively. Ethnographic interviews and FGDs were audio-recorded (after having taken an oral permission), transcribed and analysed along with field notes. Fieldnotes with narrations of what was observed, including informal conversations, meeting notes and other documents available in the setting, were considered in the analysis to enhance the understanding of the context. The essence of the findings was discussed with the participants at multiple instances to maximise the efficiency of the field experience and minimise researcher bias, in order to make the findings as objective and truthful as possible.

**QUAN**

We conducted an anonymous survey using a semistructured questionnaire (designed based on the themes that emerged from FGDs and in-depth interviews) through virtual Google form to assess the mental stress and coping strategies objectively (online supplemental file 1).

The questionnaire had three sections (demography, mental health and coping strategies) with 21 questions:

a. The demography section contained six questions regarding age, gender, type of occupation etc.

b. The section on mental health contained seven questions asking about participants’ stress, fear, anxiety...
and worry on a Likert scaler in the last 40 days and five questions related to participants’ mood and emotions. c. The final three open questions were on coping strategies. We used the theoretical model of stress and coping process by Folkman and Greer and Health systems Resilience framework to assess the fitness of these models in our context.31

Data analysis
All the QUAL data were collated and analysed using the framework approach.15 17 The complexity of the real-life health system in a pandemic and analysis of multiple perspectives from a variety of data sources were the reasons to choose framework analysis. Using the framework method, we followed a combined flexible approach to analysis, enabling themes to develop inductively from interviews (experiences and views) and deductively from the existing literature (coping theories). The interviews and FGDs were transcribed and read through multiple times to familiarise the data and then open coded. Two researchers read a couple of interviews in each category loosely, identified key themes and patterns, reviewed the data multiple times and developed codes manually in the initial stage. After researchers open coded the initial transcripts independently, we agreed on a set of codes, each with a brief definition, which formed the initial analytical framework. The researchers then independently coded all the transcripts using the initial framework, taking care to note any new codes or impressions that did not fit the existing set. The process of refining, applying and refining the analytical framework was repeated until no new codes were generated. The final framework consisted of 33 codes, clustered into 10 subcategories and 3 broad categories, each with a brief explanatory description of their meaning and examples of what ideas or elements might be summarised under that code. In the next stage, we applied the final analytical framework to each transcript manually. Once all the data had been coded using the analytical framework, we summarised the data in a matrix for each theme using Microsoft Excel. In the final interpretation stage, we reviewed the matrix and made connections within and between participant and categories. And finally, we tried to go beyond descriptions of individual cases towards developing themes that were meaningful in context and offered possible explanations for research questions.

QUAN data were analysed using SPSS V.20.0 and reported as frequencies, percentages means and SD. We merged QUAN and QUAL results to compare, contrast and synthesise the results. The results, thus generated, were mapped into the theoretical model of stress and coping process to see the fitness of the model.32

Data credibility
The participants read through the transcripts to comment on the accuracy of the texts and corrected them if required. The researchers belonged to the healthcare team and were familiar with the cultural context of other participants and the setting. This improved the validity of the interpretations of the data.

Role of funding source
We did not receive funding for this study and the corresponding author had full access to all the data in the study and had final responsibility for the decision to submit for publication.

Patient and public involvement
This research was done without patient involvement. Patients were not invited to comment on the study design and were not consulted to develop patient-relevant outcomes or interpret the results. Patients were not invited to contribute to the writing or editing of this document for readability or accuracy.

However, the participants of the study were involved in developing the study tool, reading the final manuscript.

RESULTS
QUAN
Among 87 team members, 64 completed the survey with a response rate of 75.5%. The mean age group was 34–6 (SD 10–7), and most of them belonged to 20–30 years. The majority of the participants had 1–5 years of experience with a mean of 7–4 years (table 1). In the survey, a vast majority (68.8%) reported no fear of coming to work during the survey period.

Happiness was the predominant feeling in the last 40 days among 36% of the team members. Majority (75%) of them reported that they experienced fear at some point of time. (figure 2). Distracting themselves with hobbies (20.3%) and spending more time with family (39.1%) were cited as a means of emotional regulation by the participants. A significant proportion of them (40.6%) reported prayer as the most critical thing that they do to overcome the unpleasant experiences related to COVID-19.

QUAL
We conducted four FGDs (two clinical groups, one field group and one support group) and 10 in-depth interviews. The results are organised into three sections: (1) stress of the healthcare team, (2) adaptive interventions and (3) coping strategies.

Experience of the healthcare team
Stress related to corona pandemic
Stress can be expected when individuals perceive high susceptibility to a potentially lethal infection. The team appraised themselves as ‘highly susceptible’ in terms of contracting the virus. ‘Slums are dense, no way of physical distancing… the chances of getting this infection is high if we continue our services there’. They also reported contracting infection is of ‘high personal significance’ as it involves stigma, isolation and death. ‘Most people will be okay… 80% don’t even know they had an infection. Sometimes it is good to get it… but what if I am in the
Fear of contracting the infection

Fear of infection was the primary concern for all the health team members. Severe infection and death were discussion points at all homes. ‘What will happen to my children if I die? They are so small… who will look after them?’ a doctor aired her concern. Health vulnerability of the slum, nature of the disease and news reports escalated their woes and worries ‘People live so close to each other… slum is a high-risk area, you know. In the initial phase, there won’t be any symptoms’. ‘Infact, yesterday I thought of myself on a ventilator’. Reluctant disclosure of high-risk history by patients eroded trust and sometimes led to patient phobias. ‘Yesterday, I saw a patient and towards the end of the consultation, she told about her travel to Mecca a week back. I am worried that I may get Corona’.

Fear of violence in slums

A mandatory lockdown imposed by the government to curb the spread of COVID-19 created an existential anxiety in the slums. Despite strict law enforcement, slum dwellers indulged in minimal economic activity leading to clashes and violence, which the healthcare workers were worried they would become victims of. ‘Yesterday police beat people for opening the shops…they ran through the clinic. What all will happen, nobody can predict. We are stuck in the middle of all… can be dangerous’. Another concern was the resistance of the population to the changes like wearing masks, entering the clinic one by one and following cough etiquettes ‘People do not have wages, and they are very stressed. We are cautious in the clinic, patients come without masks, but it is difficult to enforce, they turn violent sometimes…’.

Guilt

Another primary concern was the thought of passing the infection to family members, especially the elderly and children. While healthcare workers often accept increased risk of the disease as a part of their chosen profession, they exhibited concern about family transmission, especially the elderly, immune compromised or those who have chronic medical conditions. ‘I may give the infection to mother in law or my 8 year old… if something happens to them, how will I forgive myself? Isn’t it terrible?’ ‘They dread the possibility of passing the infection to the vulnerable in their homes’.

Stigma

To aid the containment of infection, government officials traced the infective person to their homes and ink their
palms. ‘Getting a seal…it is terrible. The whole locality will tell us to get out from where we live’. There is social monitoring of the ‘infected and their family members’. Based on the number of cases, an area is classified into different coloured zones, and in red zone, there is a substantial restriction of movement, transport and commercial activity. This has led to a widespread stigmatisation. ‘The other day, my house owner called and asked, Why can’t you resign your job as a nurse? It is putting your family and our whole neighbourhood into risk’. The people in the locality saw health workers as carriers of infection and avoided them as a measure of self-protection.

Exhaustion and burn out

The emotional toll of working in dangerous conditions filled with uncertainties drained health professionals. Attending to patients fully clad in PPEs also exhausted them physically. ‘We are drenched in sweat, we take turns, it is difficult to see patients more than 4 hours at a stretch wearing this’ Ever since I started wearing masks at work, I wake up at odd hours…hmm I feel sleep deprived and tired during the day…not sure why…’ They also had intense household demands due to lockdown. ‘After reaching home from the clinic, I have to wash my clinic clothes, take bath, cook and do all household chores. No maid because of lockdown, it is so tiring’.

Stress associated with the change in societal norms

Chatting with neighbours, social gatherings, visiting the sick, festivals, and social functions were everyday affairs in Indian culture. Physical distancing, rule of ‘no-touch or hugs’, absence of social functions and gatherings have created enormous stress on the individual, communities and society as a whole.

‘No prayer meetings, no visitors. When will all this end?’.
‘I can’t even kiss my child so stressful’.

‘My marriage scheduled in May is postponed now…when will I get married?’.

These were the voices of healthcare staff who shared their concerns due to new norms.

Adaptative interventions

De-centralised, participatory and practical measures were instituted to improve the safety.

Realignment of slum health service

The existing infrastructure was reallocated into waiting and designated hand wash area. The consultation rooms were shifted to open space to ensure adequate ventilation. Segregated patient flow was instituted using visual triage for the screening of middle east respiratory syndrome and isolated fever clinic. Remote consultation opportunities like teleconsultation, medicine drop-off at homes or proxy medicine pick-ups and prescribing chronic medications for a longer duration were encouraged. The universal use of barrier precautions (masks, gloves, gowns and eyewear) was implemented considering the threat of undiagnosed but infected patients. Reusable water-resistant PPE was designed and rolled out, anticipating the shortage of supplies and the cost escalation. Another critical aspect was the inclusiveness of the ‘healthcare’ and the ‘support team (drivers, housekeeping and laundry)’ in the preparedness plan. All were trained in handling patients if needed and given full PPE in the initial phase. Two times per day disinfection using 70% ethanol or 1% sodium hypochlorite of all common areas and frequently touched surfaces was ensured (table 2).

Transparent communication

One of the first initiatives was to establish a communication routine to foster collective action rooted in trust. This gave an avenue to openly and proactively share relevant and reliable information to all in a timely and
Knowledge was shared from credible sources, empowered people to look into reliable sources for updates, discussed the ‘hype and misinformation’ in media and the impact of COVID-19 on the world, nation, state, on the institution and themselves. Empathetic discussions acknowledging vulnerabilities and accepting uncertainties were a hallmark of these discussions. Since the team was diverse (public health experts, doctors, nurses, paramedics, social workers, counsellors, community health workers and drivers), these active dialogues fostered solidarity through collaborative learning and peer support. Periodic communications with faith-based values were also an integral part of COVID-19 response initiatives.

### Coping strategies

Healthcare professionals used multiple coping strategies to tide over the threat associated with COVID-19 (table 3). They used emotion-focused coping with regulating their emotions by being aware of their negative mental representation, avoidance of negative rumination, cognitive reappraisal and positive reframing. Healthcare professionals used problem-focused coping with initiating actions reducing the risk of infection. Though these coping strategies resulted in positive emotions, they sometimes struggled with the non-resolvable facet (‘whatever we do, we have increased chance of this deadly infection’) of the pandemic. They used meaning-focused coping with deriving meaning from the stressful experience to sustain well-being despite difficult times (figure 3).

#### Emotion-focused coping

Healthcare professionals reported maladaptive coping like denial (‘Indians have immunity’), wishful thinking (‘medicine will come soon’), escape avoidance (‘I do not want to hear about corona’) and fatalism (‘we can’t...
Table 3   Coping strategies of the healthcare team

<table>
<thead>
<tr>
<th>Open codes illustrative quotes</th>
<th>Organising theme</th>
<th>Global theme</th>
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<tbody>
<tr>
<td><strong>Avoidance:</strong></td>
<td>Distancing</td>
<td>Emotion-focused coping</td>
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<tr>
<td>‘When I reach home from hospital, we sit together and talk…now we have more time…children have no school…earlier we sit and watch TV together…now we decided not to do that…Every one in TV is talking about corona…how many died? How many are getting it...how they go from one hospital to hospital and then how they die….my friends also send many horrible things in messages...how corona can go inside heart, head and all...I am coming to hospital…so I show all this to doctors and nurses…they say that many things are not like this. So I stopped seeing about corona in my phone...All TV is hype. we do not see it at home. If we believe what is coming in what app and TV, then we feel we are going to die now…’(Driver, FGD)</td>
<td>Information seeking</td>
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<td>‘Many things are unknown.No one has an answer, science and medicine are gathering evidence and knowledge....The only assuring thing is that we are not seeing people dying right, left and centre…But the media seems to know everything, especially the negative side….So I look at news only once a day…if I see Corona, I just skip the message, as far as I know media is not the most authentic source for COVID(Doctor, Interview)’</td>
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<td><strong>Gathering credible information</strong></td>
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<td>Everybody is worried, especially because we work in hospital. At home, my wife, children, parents, all are so worried…and you know neighbours also asks my wife…isn’t dangerous to work in hospital? Thousands of people in many countries died and now it is in India also. And in the hospital, all these patients will reach….It can be very risky,you know… I tell my wife and kids what we talk in the hospital….that is the truth….We talk and discuss things, our doctors explains what is the risk, what is that we should do to protect ourselves…and also how important is our role now. The doctors and nurses are seeing patients and touching...so they are also at risk. But they know how to protect. That’s why I tell them to trust what our doctors say….’(Driver, FGD)</td>
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<td>I ask the doctors, that helps me….’(House keeping staff, FGD)</td>
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<td><strong>Social connection</strong></td>
<td>Positive reframing</td>
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<td>‘I am thankful that I can come and see people, talk to people because I am working in a hospital…can’t think of sitting at home40 days. My brother was working in a company…they called him and told that no need to come… it was shut for some time, now it is opened, but my brother is not called back….He gets irritated sitting at home all the time….can’t go out and meet friends also, when I reach home in the evening, all look so stressed.I atleast see my friends, able to help people….’(Nurse, FGD)</td>
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<td>‘Blessed to be alive and have food to eat. There is more chance of infection and death and all in hospital, but whatever it is, I have a salary…I am able to feed my family I am grateful for my job at hospital.all other jobs are unsure.’ (Lab tech, Interview)</td>
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<tr>
<td><strong>Access to care</strong></td>
<td>Peer support</td>
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<td>‘This is the time all are scared of dying….what wil happen if we get corona, where will we go to get treatment?…How much will be the money…who will pay? what if we need ICU, we do not have money to pay lakhs…we all pray that we do not get sick, all are scared, my family, my friends, relatives, neighbours. It is scary, but my hospital will look after me even if I get corona…I feel blessed to work in a hospital’(Nurse aid, Interview)</td>
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<tr>
<td><strong>Bonding</strong></td>
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<td>We have each other to talk to…we pray and eat together…I miss all if I don’t come for work…the hospital is a part of my life….’(Nurse FGD)</td>
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<td><strong>Gratitude</strong></td>
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<td><strong>Earning opportunity</strong></td>
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<td>‘In all my family and among 6 siblings, I am the only one who got salary…thankful for the job in hospital’(Driver, Interview)</td>
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<td><strong>Emotional sharing</strong></td>
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<td>‘I am thankful that I can come and see people, talk to people because I am working in a hospital…can’t think of sitting at home40 days. My brother was working in a company…they called him and told that no need to come… it was shut for some time, now it is opened, but my brother is not called back….He gets irritated sitting at home all the time….can’t go out and meet friends also, when I reach home in the evening, all look so stressed.I atleast see my friends, able to help people….’(Nurse, FGD)</td>
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<td>‘Blessed to be alive and have food to eat. There is more chance of infection and death and all in hospital, but whatever it is, I have a salary…I am able to feed my family I am grateful for my job at hospital.all other jobs are unsure.’ (Lab tech, Interview)</td>
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right time comes, He will take the virus away. God is all-

There is nothing God cannot change. God decided that I have to do my duties during this time. When the

Active religious surrender:
(Doctor, FGD)

…to help others, is something. It makes me happy, useful. My mother worry about me all the time, I tell her what

Altruism

…(Community Health worker, FGD)

…(Health worker, FGD)

Going and visiting people in slums during this time is dangerous…all are at home, no job, no medicines, no

Empathy

We cannot run away from poor thinking that we may get infected…we may get infected, but that is much better

Commitment to the poor

Services to the poor is our core…All are suffering but the suffering of poor is unimaginable…all have left them.

Value adherence

Sustained focus on the spiritual:
(Doctor, FGD)

Prayer helps us to bear the suffering jornada.
(Doctor, FGD)

Vision and mission

Healing and wholeness in the spirit of Jesus Christ is our vision. Selflessness is a part of it…we are called to

Existential goal pursuit

Meaning-focused coping

Adequacy of PPEs

‘We have to do the right thing and the right thing is to care for the poor.’ (Nurse, FGD)

Barrier to patient care

Sometimes all these added layers makes patient care quite impersonal…smile, touch are very important…they

Response costs

Training

The training helped us to wear the PPE and become clinic assistant in transferring and transporting sick patients.

Self-efficacy

Practice

Every day morning there is a drill. I am confident(Driver, Interview)

Physical demand

With all gears, we are drenching in sweat. It is tough to carry on for long hours, that’s why we take turns.

Response efficacy

Disinfection preparation

Even in the vehicle we have put a sanitiser and bacillloid spray. We are prepared. (Nurse aid, Interview)

Vision and mission

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“We are protected. I am happy all of us have PPEs…it protects us and our families”(Doctor FGD)

Everyday, my children reminds me—papa do not forget to wear your special dress. Corona can’t get inside”(Driver,

Disinfection preparation

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Everyday morning there is a drill. I am confident(Driver, Interview)

I am able to do whatever we decided. Changing into full PPE, maintaining distance, decontaminating hands and

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do anything’) in the initial weeks. Later, they cognitively reappraised the situation in positive ways, reframing the opportunity to work in a hospital as a venue for fostering social connections, earning opportunity and improved access to medical care. They achieved change in their emotional state through information gathering, distancing from media hype and seeking social support.

Health professionals resorted to credible information seeking and practised distancing from media hype to insulate themselves from paralysing fear. I stopped watching the news at home; children get frightened. I tell at home what I hear from the hospital, that is more correct’.

Peer support acted as a source of encouragement and companionship, which brought an array of positive emotions to their life. They prayed and fellowshipped together before starting work. ‘I am happy, I have a good workplace..., we eat and pray together’, said one of the nurses. They looked after each other, watched how they were managing patients and reminded each other about infection control. They listened to each other and comforted when needed.

**Problem-focused coping**

Being cognizant about the vulnerability of slum, the team chalked out plans to mitigate the risks and implemented it at the earliest. Motivation to be relevant to the poor and determination to sustain the needed services activated their ‘problem-solving attributes’. They responded by realignment of slum services, universal use of PPE, effective disinfection methods and other health worker and patient safety measures. High response efficacy (usefulness of the interventions to protect themselves) and self-efficacy (confidence to perform the intervention) were reported for these new initiatives. Though hot weather, difficulty in washing, loss of personal touch in the consultation were pointed out as the response cost (barriers for intervention), the response efficacy outweighed the response costs.

**Meaning-focused coping**

People used meaning-focused coping like spirituality, goal pursuit and value adherence to deal with non-resolvable facet of the pandemic. Belief in God was reported as the core factor that allowed the healthcare team to cope with their painful experiences. Being founded on the principles of Christian faith, religious beliefs, goals and values were congruent in the institution. Values of compassion, sacrifice, service and reaching out to the poor were held with high esteem at all levels. Healthcare professionals, though belonging to diverse faith imbibed and assimilated these values. Healing and wholeness in the spirit of Jesus Christ is our vision. Selflessness is a part of it… we are called to serve in the spirit of selflessness”—one of the nurses said during the interview.

On a personal level, people used religious coping to find meaning, gain comfort and closeness to God and to achieve a means of life transformation. ‘Seek God’s help,’ ‘I put my trust in God,’ ‘I find comfort and peace in the midst of the pandemic,’ ‘God has a purpose for everything”—these were their responses during interviews. Many have found a new purpose to their lives, to be a source of comfort to others (religious helping) at this turbulent time.

Periodic communications with faith-based values were an integral part of COVID-19 response initiatives. Non-mandatory activities like morning prayers (giving thanks and words of encouragement) and weekly sessions of spiritual reflection of events were cited by the team members as essential resources in building their resilience.

People also expressed a strong sense of duty to serve poor communities during this crisis. ‘What will coolie workers do?’ ‘I have to help poor’. ‘COVID-19 is very bad for the poor’, ‘I distributed rice to the poor’—the list goes on. Values of altruism and empathy towards the poor outweighed negative emotions like fear and anxiety. They considered it as an opportunity to make ‘good use’ of their lives. One day all have to die; the most important thing is to use our lives for doing good, at this time, we are helping others, that is good’. Assigning a purpose to the pandemic helped them to cope with the pandemic situation risking their own lives.

**Resource challenges, acceptance challenges and sustenance challenges**

Continuing patient care in a poorly constructed, ill-ventilated clinic in a crowded slum with limited knowledge to evaluate team risk and community risk caused enormous strain on the healthcare team.

Though most of the patient care activities were shifted outdoors, patient registration, laboratory and dental procedures were held in rooms with compromised ventilation. Patient triaging resulted in long queues and prolonged waiting time. Rains disrupted outdoor consultations. Disinfecting PPEs in a space-constrained slum clinic was another herculean challenge. The lockdown further strained the system by a shortage of essential supplies (PPE, medicines). Mounting operating costs...
(eg, earlier on the team used to travel in one vehicle, now two vehicles are used to reduce crowding) and funding crunch (in April and May, all the existing funders wrote to us saying that they are also affected and that they would not be able to commit to providing funds this year) were added to their challenges.

Human resource constraints weighed heavy on the team, when vulnerable (older, pregnant) staff were relieved from risky duties. The existing staff juggled their time between designing and operationalising new interventions and providing care. Internalising new norms at a rapid phase, insulating team from response fatigue and sustaining motivation for a longer period are considered as serious challenges.

People in slums reluctantly used the clinic fearing-forced eviction if COVID-19 infection was detected. It pushed the health team to define and refine their role and relevance in this community during the pandemic. In short, facility constraints, personnel limitations, operational difficulties, mounting operational costs, funding crunch and community fears created hard hurdles for the health team.

**DISCUSSION**

Contextual vulnerability makes the slums a nearly impossible environment for health professionals to function during COVID-19 pandemic. Experiences of providing services to one of the most vulnerable populations in this historical time of crisis can offer valuable lessons from real-life settings. To the best of our knowledge, this is the first article exploring the stress, coping styles and the resilience of a healthcare team in sustaining medical services in one of the biggest slums in India, during this pandemic.

One of the initial findings was the conflict between self-preservation and the moral contract to society. Self-preservation—the right to life is a fundamental right of every individual. It is one of the essential attributes of medical professionals, necessary to mitigate the risk of their hazardous work environment. In normal circumstances, the healthcare professional can look after the patients without compromising much of their safety. However, in the case of life-threatening pandemics like COVID-19, there is an undue demand on health professionals to provide care to the patients, at times putting their lives at risk. Even with the best protective measures, the risk of potentially lethal infection remains high among healthcare professionals. Though the declaration of Geneva states, ‘As a member of the medical profession, I solemnly pledge my life to the service of humanity, the health and well-being of my patient will be my first consideration’—it is difficult or sometimes unethical to demand ‘a life sacrifice’ from medical professionals on a routine basis. However, in crisis conditions, these sacrifices become essential to manage and control pandemics. Similar ideological conflicts have been reported in cases of the Ebola and SARS outbreak. Since continuity of services in slums during COVID-19 increases the likelihood of this potentially fatal infection, healthcare workers experienced the fear of death, guilt of transmitting the infection to their loved ones and stigma from community. Frontline healthcare workers had similar experiences during the pandemics. In our study, healthcare professionals reported the stress of new norms, especially that of social distancing. Social scientists from different parts of the world reported that social distancing could suppress evolutionarily hard-wired impulses for connection, leading to stress. The consequences of isolation could be more pronounced in eastern societies due to their collectivistic nature than in western individualistic societies.

Adaptive interventions of the health team were the contextualised practical adaptations of the Centre for Disease Control contingency and crisis strategies preparing for the worst-case scenarios. The ability of the healthcare team to appraise the situation swiftly, leverage collective expertise and deliver practical and cost-effective solutions reduced anxiety and promoted a sense of self-efficacy. Ensuring health worker safety as a critical responsibility of a moral institution, the hospital designed reusable water-impenetrable PPE with the provision of additional disposable layers to ensure safety without huge cost implications. Universalisation of PPE (clinical and support staff) reduced anxiety across all members. Since the support staff may be required to do activities of risk (drivers shifting and transporting suspected patients to another hospital), they were given PPE and trained at the same time as the clinical staff. Pronounced anxiety among support staff and reluctance to come for working in the initial stages vanished after rolling out PPE to them. Ongoing dialogic communication and prompt collective adaptive interventions fuelled continuity of services.

A supportive work environment with a high level of trust and professional cohesion helped health professionals to cope with challenging conditions that were in concordance during the Ebola outbreak. A high level of trust among each other and on the leadership facilitated the rapid implementation of radical collective solutions. Honest communication, empowerment and acknowledging one’s own finitude of the situation were identified as critical leadership strategies during a crisis.

An internalised value system like religion was one of the powerful coping mechanisms people used to deal with this pandemic. Religion interprets events and assigns meaning and purpose to these unprecedented shocks. It serves as a powerful medium to gain control, peace and comfort in coping with uncertainties. Studies reported that people resort to religious coping in pandemics, life-threatening illnesses and to deal with post-traumatic stress.

Health system resilience can be defined as the capacity of health actors, institutions and populations to effectively respond to crises, maintain core functions when a crisis hits and informed by lessons learnt during the crisis, reorganise if conditions require it. In this study, we have elaborated...
on health workforce resilience, which is an integral part of health system resilience. Resilience dividend (improved performance in both bad times and good) in this system can be attributed to the team’s commitment to their mission and values, vigorous public health response to the shock, the strength of social capital, collective learning, the sequential approach of problem-solving and coping strategies and an organisational culture promoting individual and collective resilience. These qualities were not developed as a response to the crisis but were a part of normal functioning; crisis only amplified the expression and made resilience more visible.

The sheer speed, scale and catastrophic consequences of the COVID-19 in slums are a jolting wake-up call for everyone. For people in slums, the virus containment measures is often a choice between the risk of catching the disease and the certainty of hunger. Hence, their choice of infection and subsequently being super spreaders cannot be condemned. The systemic neglect of the slums has made panic, unrest and massive fatalities a real possibility during the pandemic. It is the responsibility of the government to include slums along with its cities, as they owe much to this informal economy. Slums in Dharavi, India, for example, employ as many as 70% of its residents with current economic output estimates of US$700 million annually. Other places such as Delhi, Bangalore and Kolkata also depend heavily on the informal sector for supporting their economy. Hence public health measures mandating integrated slum development have to be accelerated during the post-pandemic period to prevent such future scenarios.

The article brought out a theoretical framework for cognitive appraisal and coping using the theoretical model of stress appraisal and the coping process by Folkman and Greer and discussed the foundations of health workforce resilience, these are highly context driven and have to be generalised cautiously.

Health care provision experiences and learnings
At the microlevel, pandemic like COVID-19 will challenge any health team’s commitment, cohesion and agility and more so in limited resource settings. Even in the midst of crisis, the team can succeed by reflecting on their vision, cultivating a deep mindset of humility, collectivism, accountability and nurturing bottom-up all-inclusive culture. While we were able to sustain the healthcare services in slums during this pandemic with considerable risks to our workforce, had the mortality been greater, we could have lost precious healthcare force, a loss for all and eventually a grave challenge to sustainability.

Given the fact that COVID-19 will not be the last public health threat to the world, the learnings through this crisis should be wake up call for systemic changes in urban governance and city planning. At the macrolevel, the pandemic brings a strong case for improvement of basic amenities in slums, as it strengthens public health and mitigates health threat to the people in slums and cities. Improved public spaces and economic inclusion of slum dwellers in the organised labour sectors would pay colossal health and economic dividends. Linking science to society and promoting community participation with strong health networks is essential to have an effective response in any pandemic. In short, a resilient health system cannot thrive on its own for a long time, unless cities as a whole become more inclusive and resilient.

CONCLUSION
The study describes the experience of sustaining essential health services in one of the biggest slums in India during the COVID-19 pandemic. It throws light on the complexities of the context, struggles, adaptability and resilience of a real-life health system in crisis. Fear, guilt, isolation and exhaustion posed considerable stress to the health team in the initial phase. However, with cognitive reappraisal, the health team managed distress using emotion-focused coping, handled the problem causing the distress with problem-focused coping and sustained positive well-being through meaning-focused coping. Organisational culture, shared purpose, adaptability, collaborative learning and meaningful relationships fostered resilience amid crisis. These values were not just crisis specific but were organically built as a part of our system. Hence, this article shows the importance of engraining a culture of resilience as a part of every health system, which then will reap lasting rewards in times of crisis.

This pandemic has taught many valuable lessons. The negation of the reality of slums in cities—and, hence the rights of slums dwellers which in turn allows intolerable living conditions and weak health networks have the potential to wipe out millions in a short span of time. COVID-19 is a wake-up call to include ‘slum health’ within ‘universal healthcare’ to insulate the world from fatalities of future pandemics.

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Contributors CEG contributed to the conception and design of work, acquisition, analysis and interpretation of data, and was the primary contributor to the draft paper and revisions. CEG and LRI conducted the interviews and performed qualitative analysis. LRI developed the study tool, analysed and interpreted the data, contributed to manuscript writing and critically reviewed the manuscript. SP and LDW contributed to the design of the study, interpretation of qualitative data and critical revision of the paper. All authors revised the work for important intellectual content and agree to be accountable for all aspects of the work. All authors read and approved the final manuscript.

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Competing interests None declared.

Patient consent for publication Not required.

Ethics approval The study was approved by the Ethics Committee of BBH. Informed consent was taken from the participants before FGDS, in-depth interviews and the survey. When we used quotes from meeting notes or discussions, we have obtained permission before using it in the article.

Provenance and peer review Not commissioned; externally peer reviewed.

Data availability statement The datasets used and/or analysed during the current study are available from the corresponding author on reasonable request.
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REFERENCES


Experiences & Challenges in COVID-19

* Required

Untitled Section

1. Age *

2. Gender *

Mark only one oval.

☐ Female
☐ Male

3. You are a *

Mark only one oval.

☐ Doctor
☐ Nurse
☐ Field staff
☐ Nursing Aid
☐ Allied Health Professional
☐ Secretarial Staff
☐ Other: ______________________

4. Years of work experience *

______________________________

https://docs.google.com/forms/d/1ceOj1XesY25o-sfa-Ba62SMDrKmvusmb-2kk3NdQNk/edit
5. Are you in a leadership role *

*Mark only one oval.*

☐ Yes
☐ No

6. Are you currently on medication for any chronic illnesses? *

*Mark only one oval.*

☐ Yes
☐ No

7. What is your predominant emotion during the last 40 days? *

*Mark only one oval.*

☐ Happy
☐ Sad
☐ Fearful
☐ Anxious
☐ Other: ________________________________

8. Can you write some thoughts that came to your mind? *

_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
9. Have you been experiencing fear in these past 40 days? *

Mark only one oval.

☐ Almost Never
☐ Sometimes
☐ Often
☐ Almost always

10. Have you been worried in these past 40 days? *

Mark only one oval.

☐ Almost Never
☐ Sometimes
☐ Often
☐ Almost always

11. Have you been experiencing sleepless nights in these past 40 days? *

Mark only one oval.

☐ Almost never
☐ Sometimes
☐ Often
☐ Almost always

12. Have you been anxious about things around you in these past 40 days *

Mark only one oval.

☐ Almost Never
☐ Sometimes
☐ Often
☐ Almost always
13. Are you experiencing stress in your work place after this pandemic? *

*Mark only one oval.*

- [ ] Almost Never
- [ ] Sometimes
- [ ] Often
- [ ] Almost always

14. Are you experiencing stress at your home because this pandemic? *

*Mark only one oval.*

- [ ] Almost Never
- [ ] Sometimes
- [ ] Often
- [ ] Almost always

15. Are you scared that you may die if you continue to work during this pandemic?

*Mark only one oval.*

- [ ] Yes
- [ ] No

16. Are you scared to come to work these days?

*Mark only one oval.*

- [ ] Yes
- [ ] No
- [ ] Occasionally
17. Have you ever thought of ending your life because of these unpleasant situations due to pandemic? *

*Mark only one oval.*

- [ ] Almost never
- [ ] Sometimes
- [ ] Often
- [ ] Almost always

18. What do you do to overcome these unpleasant experiences? *

*Mark only one oval.*

- [ ] Talking to friends/Colleagues
- [ ] Get involved in favorite hobbies (Reading/Cooking/Gardening/playing)
- [ ] Pray or spend time in religious activities
- [ ] Spend time with family
- [ ] Other: ___________________________

19. Can you describe some of your positive thoughts?

____________________________________

20. Can you write two reasons you are grateful for?

____________________________________

21. Can you write two reasons (corona related) which is causing most stress in the last 40 days

____________________________________

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Experiences & Challenges in COVID-19

Google Forms

https://docs.google.com/forms/d/1ceOj1XesY25o-sfa-Bae625MDrKmvusmb-2kk3NtQVk/edit