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Impact on mental health care and on mental health service users of the COVID-19 pandemic: a mixed methods survey of UK mental health care staff

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Abstract

Purpose The COVID-19 pandemic has potential to disrupt and burden the mental health care system, and to magnify inequalities experienced by mental health service users.

Methods We investigated staff reports regarding the impact of the COVID-19 pandemic in its early weeks on mental health care and mental health service users in the UK using a mixed methods online survey. Recruitment channels included professional associations and networks, charities, and social media. Quantitative findings were reported with descriptive statistics, and content analysis conducted for qualitative data.

Results 2,180 staff from a range of sectors, professions, and specialties participated. Immediate infection control concerns were highly salient for inpatient staff, new ways of working for community staff. Multiple rapid adaptations and innovations in response to the crisis were described, especially remote working. This was cautiously welcomed but found successful in only some clinical situations. Staff had specific concerns about many groups of service users, including people whose conditions are exacerbated by pandemic anxieties and social disruptions; people experiencing loneliness, domestic abuse and family conflict; those unable to understand and follow social distancing requirements; and those who cannot engage with remote care.

Conclusion This overview of staff concerns and experiences in the early COVID-19 pandemic suggests directions for further research and service development: we suggest that how to combine infection control and a therapeutic environment in hospital, and how to achieve effective and targeted tele-health implementation in the community, should be priorities. The limitations of our convenience sample must be noted.

Keywords COVID-19 · Coronavirus · Pandemic · Mental health care · Mental health staff · Mental health services

Sonia Johnson and Christian Dalton-Locke are joint first authors.

RRO and TJ are also authors of the independently written Lived experience commentary which follows the Discussion.

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Background

The WHO announced that COVID-19 infection was a pandemic on 11th March 2020. Countries were advised to implement measures including social distancing, closure of schools and universities, home working, and avoidance of travel. The potential impacts of the pandemic on people's mental health and on the mental health care system are extensive. In the UK, a brief survey of members of the Royal College of Psychiatrists (RCPsych) in April 2020 predicted a 'tsunami' of demand in the coming weeks as people struggle to cope with COVID-19-associated social and economic stressors [1]. While many general population surveys have



been launched, there has been less focus on the needs of people already living with mental health conditions, and on how mental health services are supporting them at a time of potential staff shortages and service reconfigurations [2].

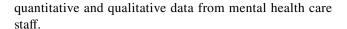
Potential risks to provision of mental health care worldwide include staff absences due to sickness and the need to self-isolate, and workforce redeployment, for example from community to inpatient settings. In the community, staff in many countries have been required to limit face-toface contacts to essential tasks such as the administration of injectable medication [3]. Beyond the immediate changes to services seen in the early stages of the pandemic, there are many potential challenges that are specific to mental health care. These include difficulties in implementing infection control and social distancing guidance in settings where people may be very distressed or cognitively impaired [4], especially in mental health wards and the supported accommodation settings where many people with complex mental health problems live [5]. Face-to-face meetings are usually central to mental health care: severe restrictions to this seem likely to greatly alter staff and service user experiences. There is also a considerable risk that, even after restrictions are lifted, there will be a lasting exacerbation of health and social inequalities that affect people with longer term mental health problems, for example, through increased economic disadvantage, inequalities in health care, or sequelae of increased trauma and abuse [6, 7]. Since the start of the pandemic, experts from around the world have published views about potential negative impacts of the pandemic on mental health services [3, 8, 9] and the suggestion has also been recurrently made that it could provide an opportunity for positive service developments [10–12]. However, there is a lack of research directly assessing and reporting the experiences and perspectives of those currently working in the mental health system. Our aim was to inform further research and service responses by conducting, in the early stages of the COVID-19 pandemic, a survey of the perspectives and experiences of staff working in inpatient and community settings across the UK health and social care sectors.

Methods

The King's College London research ethics committee approved this study (MRA-19/20-18372), which involved mental health staff in the UK completing an online questionnaire.

Study design

In the absence of a measure of pandemic impact on mental health care and mental health service users, we rapidly developed an online questionnaire to collect cross-sectional



Participants

All staff working in face-to-face mental health care in the UK, or managing those who provide such care, were eligible to participate. All specialties were included, as were NHS, private healthcare, social care, and voluntary sector services.

Questionnaire: development

The lead developer of the questionnaire, SJ, an academic and practising inner London psychiatrist, read key sources identified in an accompanying rapid review of relevant literature [13], including academic and professional journals, news media, and organisational websites, and followed relevant social media topics. The drafting of the questionnaire was further informed by the NIHR Mental Health Policy Research Unit (PRU) working group for this study (about 30 people, including clinicians, researchers, and people with relevant lived experience), and the PRU Lived Experience Working Group. Both groups discussed the study at online meetings and identified important topics for inclusion. Nine further clinicians provided email summaries of the challenges which they were currently facing and how they were being addressed.

Feedback was obtained from the PRU working group on a first draft of the questionnaire, together with additional input from experts in fields including mental health care for older people, children and adolescents, people with drug and alcohol problems, offenders, and people with intellectual disabilities. The questionnaire was revised and converted into an online format using the UCL Opinio platform. Pilot testing was then conducted with 17 clinicians, who provided feedback on length, acceptability, and relevance, and on problems with specific items. Following this, a final version of the questionnaire was agreed.

Questionnaire: content

A mixture of structured and open-ended questions was included. Participants were asked which sector and region they worked in but not which organisation, maximising anonymity. Participants could skip questions if they wished, and internet cookies were used to prevent participants completing multiple questionnaires. A branching structure was adopted, with initial questions asking all participants to rate the relevance of each item on lists of:

- Challenges at work during the COVID-19 pandemic.
- Problems currently faced by mental health service users and family carers (from a staff perspective).



 Sources of help at work in managing the impact of the pandemic.

This was followed by sections for staff in specific settings and specialties. Questions also elicited details of adaptations and innovations introduced to manage the impact of the pandemic, and their perceived success, and enquired about concerns for the future and any aspects of current practise that they would like to keep after the pandemic. Participants were asked between 97 and 277 questions depending on their eligibility for branching questions for specific settings or specialties. Depending on the detail provided to open-ended questions, the survey typically took 15–30 min to complete. A copy of the survey is available at this web address: https://opinio.ucl.ac.uk/s?s=67819.

Recruitment

Our aim was to achieve rapid recruitment of a large and varied sample by dissemination through multiple channels including:

- Professional networks, for example support from the Mental Health Nurse Academics UK, Unite the Union, Royal College of Psychiatrists, and Royal College of Nurses.
- Social media, especially Twitter. Our partner, the Mental Elf, promoted the study frequently and advised us on social media strategy.
- Relevant mental health-focused bodies, including our partner the Centre for Mental Health and the Association of Mental Health Providers.

In the final week of recruitment, we targeted under-represented sectors, including relevant voluntary sector organisations and supported housing providers. We also sought to increase representation of staff from Black, Asian, and Minority Ethnic groups by focused social media recruitment via the Mental Elf, including a video in which a prominent Black psychiatrist encouraged participation, and contact with the networks of PRU researchers who work on issues of diversity.

Analysis

Quantitative data: we aimed to give an overview of the impact of the pandemic. We produced descriptive statistics using Stata 15 to summarise relevant aspects of the quantitative data. Missing data are reported in the footnotes of the relevant tables in the Supplementary report.

Qualitative data: Qualitative analysis was conducted to expand on quantitative findings [14]. A preliminary analytical coding framework was developed by SJ guided by the study research questions, quantitative analysis results, and themes emerging from the initial survey responses. The responses to open-ended questions were left unedited and compiled under topics relevant to the research questions. Coding matrices were developed in Microsoft Excel, with the emerging codes in the columns and cases in rows. Directed descriptive content analysis was then conducted [15, 16]. For this, all survey responses were indexed in the coding matrices by a group of 15 researchers, mostly PhD students or researchers with relevant lived experience. Topics that came up repeatedly in the data and could not be categorised with the initial coding framework were given a new code. Coding work was coordinated by SO (associate professor) and NVSJ, UF, and AP (post-doctoral researchers) to increase consistency and accuracy when applying the predetermined codes, and to discuss adding codes to the initial framework when necessary. SJ and AS (clinical professors) helped to understand clinical contexts and resolve coding difficulties. Finally, the coding team developed summaries of each code and presented these in tables ranked in order of frequency, shown in the Supplementary Report. Involvement of this large team allowed us to complete analysis within 3 weeks.

Findings

We summarise key findings here: our accompanying Supplementary report gives much more detail. Data were collected from 22 April 2020 to 12 May 2020. In total, 3,712 people started the survey (including many who clicked 'Start' but provided no or minimal data) and 1,793 got to the end. We report results for participants who completed at least one question from each of the three main sections open to all respondents. This produced a sample of 2,180. There were 15,010 responses to open-ended items, yielding 295,751 words for rapid qualitative content analysis.

Participant characteristics

A large majority of participants worked in the NHS (1,935, 88.9%). Approximately a third described themselves as nurses (664, 30.6%), 347 as psychologists (16.0%), 254 as psychiatrists (11.7%), 97 as social workers (4.5%), and 80 as peer support workers (3.7%). Over a third identified as a manager or lead clinician in their service (826, 38.0%). Over two-thirds worked with working age adults (1,521, 70.0%), 39.2% worked with older adults (853), just under a third worked with people with learning disabilities (648, 29.8%), around a fifth worked with people with drug and alcohol problems (456, 21.0%), and another fifth worked with people with eating disorders (451, 20.7%). Participants could report working with multiple service



user populations and/or in multiple settings. The majority worked in England (1,814, 83.4%) with around a third of these based in London (639, 35.3%) and a fifth in the North West (328, 18.1%); three-quarters worked in cities or towns with populations greater than 100,000 (1,623, 75.1%). Four-fifths were female (1,378, 80.0%) and almost nine-tenths were from white ethnic groups (1,433, 87.0%). Full demographic details, including age, caring responsibilities, and COVID-19 status, can be found in Table 1x of the Supplementary report (references to tables in the Supplementary report are herein indicated with an 'x' after

the table number to distinguish them from tables in the main text).

Current challenges at work

Participants rated a list of current challenges at work, some general and others setting-specific, on a five-point scale from 'Not relevant' to 'Extremely relevant'. Table 1 shows the five work challenges rated highest in each type of setting; Tables 2x–6x report this in further detail. In inpatient wards and crisis houses, infection control challenges, related to

Table 1 Top five rated work challenges* for each setting (See Tables 2x-6x and 29x-30x in the Supplementary report for further details)

		n	n Rated very or extremely relevant	% Rated very or extremely relevant
In	patient services (including crisis houses)** (n=644)			
1	The risk that COVID-19 will spread between service users I'm working with (C)	643	420	65.3
2	Lack of activities and facilities/increased boredom and agitation during COVID-19 pandemic (A)***	533	338	63.4
3	The risk I or my colleagues could be infected with COVID-19 at work (C)	641	387	60.4
4	Having to adapt too quickly to new ways of working (C)	641	381	59.4
5	Difficulty discharging people because services usually available in community are closed or less available (A)	528	303	57.4
Re	esidential services** $(n=77)$			
1	More challenging environment because residents cannot go out and engage in activities as usual (A)	63	48	76.2
2	Not being able to have as much contact as usual with residents due to staff shortages or changes in service offered (A)	63	35	55.6
3	The risk that COVID-19 will spread between service users I'm working with	79	41	51.9
4	Difficulty maintaining infection control because people cannot be effectively segregated from one another in this environment (A)	64	33	51.6
5	Not being able to have as much contact as usual with residents due to quarantine precautions (A)	64	32	50.0
C	risis assessment services** $(n=308)$			
1	Not being able to signpost or refer to other services in your area (primary care, social care, voluntary sector services) (A)	250	136	54.4
2	Having to adapt too quickly to new ways of working (C)	306	160	52.3
3	The risk I or my colleagues could be infected with COVID-19 at work (C)	308	155	50.3
4	The risk family and friends may be infected with COVID-19 through me (C)	308	133	43.2
5	Pressures resulting from the need to support colleagues through the stresses associated with the pandemic (C)	307	131	42.7
C	ommunity teams and psychological treatment services** $(n=1,268)$			
1	Having to adapt too quickly to new ways of working (C)	1,261	694	55.0
2	Not being able to depend on other services that are normally available in the community (primary care, social care, voluntary sector services) (A)	1,065	515	48.4
3	Difficulty providing sufficient support with reduced numbers of face-to-face contacts (A)	1,069	480	44.9
4	Having to learn to use new technologies too quickly and/or without sufficient training and support (C)	1,261	515	40.8
5	Technological difficulties with remote appointments (A)	1,068	430	40.3

^{*}Includes 'current work challenges' (C) asked of staff from all settings and 'additional work challenges' (A) that are specific to each service type

**A respondent may work in more than one setting (e.g., an inpatient service and a crisis assessment service), but will provide only one answer
per challenge

^{***}The 'Additional work challenges' (A) sections, which are specific to specific settings and specialties, appear in the survey after the 'Current work challenges' (C) section, which is open to staff from any setting. Therefore, the reduced n for A challenges compared to C challenges represents respondents who completed the first sections of the survey, but then did not go on to complete the later branched sections of the survey



both service users and staff becoming infected, were rated highest, alongside increased boredom and agitation amongst service users due to lack of activity and contact on the ward. Crisis service staff rated as most relevant lack of services to which they could refer on or signpost. Community team staff rated items related to changes in ways of working and adoption of remote technologies highest, along with reduced availability of other services. The small group of residential service participants gave a high relevance rating to their environment being more challenging, because residents cannot go out and/or engage in usual activities. Table 29x shows ratings by profession and Table 30x shows ratings by managerial roles. There were fewer obvious differences by profession than by setting, but managers and lead clinicians more often reported challenges relating to supporting colleagues with stressors due to the pandemic, and increased workload during the pandemic as very or extremely relevant (51.5% and 40.6%, respectively) compared to those not in these roles (31.8% and 21.3%, respectively).

Impediments to infection control: content analysis of qualitative responses

Half of staff in inpatient and residential settings reported that they could not consistently follow the rules set on infection control (303, 50.5%), and just over a third reported that they could not do this in community and other settings (518, 35.2%). Table 2 shows the impediments to this most often identified from qualitative content analysis of responses, with more detail in Tables 7x–8x. Tensions between meeting clinical needs and infection control were reported across settings, for example in responding to emergencies on wards or when service users in the community needed home visits, on which infection control measures were very difficult to implement. The built environment was the most frequently cited challenge in the community, and ward layouts impeded

infection control in hospital. In each setting, there were also reports of conflicting or unclear guidance. Reports of not having the facilities and processes to adhere to guidance, for example in putting on and disposing of personal protective equipment (PPE), were especially prominent in the community. Unclear or conflicting guidance and procedures, and service users who are unable to understand and adhere to infection control rules, were reported across settings. Substantial numbers were also concerned about perceived conflicts between protective equipment and therapeutic relationships, for example when trying to engage service users with paranoid ideas while wearing a mask.

Service activity

We also asked participants to report, if data were available to them, the extent of activity change in the service in which they worked (Table 9x). Responses varied, but reports of reduced activity considerably exceeded those of increased activity, especially regarding inpatient admissions (though less so for compulsory admissions) and new referrals to crisis services and community services. However, in community services, including psychological treatment services, similar numbers of staff said that they were having more weekly contacts as said they were having fewer.

Staff views regarding difficulties experienced by service users and carers with whom they are in contact

Table 3 summarises staff perceptions of the current relevance of various types of difficulty for the service users and carers with whom they were in contact (Table 10x reports this in greater detail and by service user group). Across all groups, staff tended to rate social difficulties as most relevant, for example, loneliness and lack of usual support from

Table 2 Top five reasons infection control rules could not be followed for inpatient and community settings* (with frequencies), responses to an open-ended question (see Tables 7x–8x in the Supplementary report for further details)

In	atient and residential settings** Community settings***		
1	Conflict between infection control and providing care that is responsive and of good quality (98)	1	Lack of space in office building for physical distancing (191)
2	Service users who cannot or do not readily follow guidance (89)	2	PPE availability (97)
3	Guidance that conflicts or changes (76)	3	Conflicts between infection control and providing care that is responsive and of good quality (72)
4	Ward layout or office spaces that do not allow for social distancing (72)	4	Facilities for using PPE, e.g. disposal, storage and removing of PPE (70)
5	PPE availability (66)	5	Impractical or inappropriate advice or guidance (54)

^{*}A respondent may work in more than one setting (e.g., an inpatient service and a crisis assessment service)

^{***}Includes staff working in crisis assessment services, community teams and psychological treatment services, community groups, and other settings



^{**}Includes staff working in inpatient services, crisis houses, and residential services

Table 3 Summary of staff perspectives on which of their service users' and carers' problems are most relevant, in order of % rated very or extremely relevant (n = 2,180) (see Table 10x in the Supplementary report for further details)

	n	n Rated very or extremely relevant	% Rated very or extremely relevant
Lack of access to usual support networks of family and friends	2,171	1,609	74.1
Loneliness due to or made worse by social distancing, self-isolation and/or shielding	2,180	1,504	69.0
Lack of usual work and activities	2,165	1,432	66.1
Worries about getting COVID-19 infection	2,166	1,334	61.6
Lack of access to usual support from other services (primary care, social care, voluntary sector)	2,173	1,333	61.3
Worries about family getting COVID-19 infection	2,169	1,296	59.8
Increased difficulties for families/carers	2,161	1,189	55.0
Lack of access to usual support from NHS mental health services	2,172	1,120	51.6
Relapse and deterioration in mental health triggered by COVID-19 stresses	2,180	1,010	46.3
High personal risk of severe consequences of COVID-19 infection (e.g., due to physical health comorbidities)	2,168	988	45.6
Increase in reliance on family/family tensions	2,164	892	41.2
Difficulty understanding or following current government requirements on social distancing, self-isolation and/or shielding	2,168	882	40.7
Difficulty engaging with remote appointments by phone or via digital platforms	2,172	862	39.7
Increased risk from abusive domestic relationships	2,165	821	37.9
Diminished access to physical health care for problems other than COVID-19	2,172	735	33.8
Having to stay at home in poor circumstances, or not having a home to go to	2,169	752	34.7
Difficulty getting food, money, or other basic resources	2,162	714	33.0
Effects of COVID-19-related trauma	2,165	597	27.6
Risk of increased drug and alcohol use or gambling	2,167	595	27.5
Lack of access to or of equitable provision of physical healthcare for COVID-19	2,173	504	23.2
Loss of liberty and rights due to changes in implementation of mental health legislation	2,165	412	19.0
Lack of access to medication and to processes for administering and monitoring it	2,172	383	17.6
Problems with police or other authorities because of lack of understanding of/ability to stick to current government requirements	2,170	295	13.6

family and friends. Several other types of problem were also rated by many staff as very or extremely relevant, including lack of normal support from mental health and other services, deterioration in mental health in the pandemic period, worries about infection, and being at high risk if infected.

Responding to open-ended questions, staff identified a range of groups of service users about whom they were particularly concerned, some because of impacts on their clinical condition, others because of their social characteristics or circumstances, or because of specific difficulties providing an adequate service for them. Table 4 summarises groups frequently identified as of particular concern, and Table 11x gives more detail.

We also asked staff whether they were seeing people with mental health difficulties that appeared to arise from the pandemic (Table 12x). Some described symptoms directly related to COVID-19, such as delusional beliefs regarding COVID-19 infection or quarantine, and health anxiety or obsessive—compulsive symptoms related to infection. Others described relapses in people who had

long been stable that they felt were linked to the stresses of the crisis. Some also reported apparently first presentations of mental health problems such as psychosis or mania among healthcare workers.

Sources of help at work

Table 5 summarises responses to a question about which sources of help were currently most important to staff in managing the impact of COVID-19 at work. Across all professions, the most important sources of help were support and advice from employers, colleagues, and managers, closely followed by new digital ways of working and the resilience and coping skills of service users and carers, the latter presumably seen as making the crisis less burdensome for staff, at least at its onset. Patterns of response were not markedly different across professional groups (Tables 13x–14x).



Table 4 Frequently cited examples of the groups of service users about whom staff participants have been especially concerned during the pandemic: qualitative content analysis of open-ended responses (See Table 11x in the Supplementary report for further details)

People with conditions resulting in specific concerns

People who are cognitively impaired (e.g., due to dementia or learning disability), who may find situation hard to understand and struggle to follow guidance

People with psychotic symptoms that may be exacerbated by current events and interfere with their ability to follow guidance

People with complex emotional needs (who may have a "personality disorder" diagnosis), who may be destabilised by abrupt loss of support and routines:

People with anxiety or OCD, especially those for whom COVID-19 interacts with contamination-related symptoms

Women with perinatal mental health problems, lacking usual support and assessment around the time of birth

People with drug and alcohol problems, for whom treatment and support are often severely disrupted and following guidance may be difficult People with eating disorders, at risk from disruption to usual eating, exercise, and social routines and to food access

People of concern due to impacts related to social circumstances or characteristics

People who live alone/are currently socially isolated and lonely

Older people with mental health problems, due to loss of usual support (e.g., family visits) and additional physical health vulnerability People who are in households where there is domestic violence or conflict

Children in homes that may not be safe or where there is family conflict

People living in poverty/poor housing, or who are homeless, for whom the lockdown is especially difficulty

People of particular concern due to service disruptions

Inpatients who have experienced service disruptions, including precipitate discharge, delayed discharge because of infection concerns, lack of leave or visits, and increased isolation and lack of activity or therapies on the wards

People who are difficult to reach in the community without usual visiting/outreach/face-to-face appointments and may not be seeking help that is needed

People at risk because of disrupted availability of medical responses, e.g., for people who harm themselves and are discouraged from visiting/reluctant to visit emergency departments

Table 5 Summary of sources of help in managing COVID-19 impacts at work, in order of % rated very or extremely important (n=2,180) (See Tables 13x-14x in the Supplementary report for further details)

	n	n Rated very or extremely important	% Rated very or extremely important
Guidance from my employer on managing clinical and safety needs due to COVID-19	2,180	1,415	64.9
Support and information from colleagues	2,172	1,405	64.7
Support and advice from my manager(s)	2,169	1,374	63.3
Adoption of new digital ways of working	2,165	1,322	61.1
Resilience and resourcefulness in adversity among service users and carers	2,180	1,309	60.1
Guidance disseminated by the NHS or professional bodies	2,167	1,277	58.9
Being aware of public support for key workers	2,165	963	44.5
Staff well-being initiatives set up during COVID-19 in my workplace	2,160	855	39.6
National initiatives to support service users and carers, such as helplines and online peer support	2,155	823	38.2
New initiatives in NHS mental health services	2,158	815	37.8
The support offered by local volunteers and mutual aid groups	2,166	783	36.2
Support and new initiatives from local voluntary sector organisations	2,161	763	35.3
National initiatives to support staff well-being	2,156	714	33.1
Information from the media or social media	2,169	472	21.8

Service changes and adaptations

Participants in crisis and community services were asked whether services they worked in had changed opening hours or locations, and how their practices had changed (Table 15x). Services that had increased their hours during the crisis, for example with weekend opening, were described, as well as reductions in other services. Most

staff working in crisis services reported that home visits were continuing when strictly necessary. A mixture of responses was obtained from community services (including both community mental health teams and psychological treatment services), with some reporting continuing face-to-face contacts and home visits as needed, others having stopped them. Responses regarding psychological treatment were split between aiming to provide a full



treatment by video call or phone, and providing abbreviated contacts only.

Open-ended questions elicited adaptations and innovations made to manage the impact of the pandemic (Table 16x). The most widely reported shift was greatly increased adoption of remote technologies, as discussed below. Some participants also reported adopting new digital tools for assessment and therapy, such as apps and websites. Other innovations included new crisis services, such as crisis assessment centres rapidly established as alternatives to hospital emergency departments and new crisis phone lines, and re-organised services, resulting in extended hours, increased access for specific groups, or shorter waiting lists (e.g., for psychological treatment). Reported changes in the types of help offered included community services arranging practical help, such as food deliveries for service users, and providing resource packs to help service users to be active at home. Also frequently described were new or expanded forms of support for staff, including 'wobble' rooms (quiet rooms for staff who feel overwhelmed), staff helplines, increased supervision, wellness check-ins, and more use of informal support mechanisms.

Also reported was a general shift towards a more flexible approach, reducing bureaucracy and removing barriers to change, leading to a more agile way of working and a more responsive service. Many staff also valued the many benefits to their well-being, productivity and efficiency in being able to conduct some of their client contact or administrative tasks away from the office.

What's working and what's not in remote working: qualitative analysis of open-ended responses

Further quantitative and open-ended questions explored views and experiences of the shift to remote working (Tables 17x–19x). Almost all staff in community services (1,011, 94.1%), and a large majority in crisis services (219, 83.0%), were replacing some face-to-face contacts with phone or video calls. The shift to video calls did not appear to have been very extensive, however, with the majority (475, 54.5%) reporting use of this technology as their main means of contact with 20% or fewer of the service users with whom they have contact.

Views about this were mixed. Video calls for communication between staff attracted the greatest enthusiasm, with more than two-thirds (815, 73.4%) from both community and crisis services agreeing or strongly agreeing that they are a good way to hold staff meetings; this was echoed in open-ended questions. A majority (818, 74.0% of respondents to this question) agreed or strongly agreed that video calls were a good way to assess progress of some people already known to the service, but only 39.8% (442) agreed or strongly agreed that they can be a good way of making the initial assessments.

Responses to open-ended questions (Table 6, Tables 18x–19x) likewise identified concerns about being able to make a good assessment remotely, as well as about forming rapport: they tended to suggest digital technologies were useful for clients with less complex needs, for "light-touch" interventions or for low-intensity therapeutic approaches and follow-up appointments. A majority (725, 65.8%) agreed or strongly agreed that use of remote rather

Table 6 Key points on remote working—what's working well and what's not (see Tables 17x-19x in the Supplementary report for further details)

What's working well in tele-health

Efficiency of remote working:

Allows prompt responses

Saves travelling time

Is better for the environment

May be more convenient for both staff and service users

Allows staff to connect easily with each other, even if based in different places and different teams

Allows home working

Best alternative for now:

Remote working is allowing services to keep going despite infection control restrictions

Innovative use of IT and digital tools can allow group programmes or individual therapies to continue successfully

Benefits for some clients:

some clients are happy with video-call technology and even prefer it Access is improved for some people, especially if travel and public places are challenging

May be an efficient way of helping people with less complex needs

What can prevent tele-health from working

Inadequate resources: Equipment and internet connections of low quality

Processes and preferred platforms not clearly established

Staff may lack training and confidence

Impacts on communication and therapeutic relationships

May be harder to establish and maintain a good therapeutic relationship

May be harder to make an assessment, especially at first contact

May be challenging for longer, more in-depth sessions

Digital exclusion:

People who lack equipment and resources to connect

People who don't have skills or confidence to connect (including people with cognitive impairments)

People lacking a suitably private environment for remote appointments **Service user preferences:**

Some service users strongly prefer confidential conversations to be faceto-face, or may feel suspicious or anxious about remote means

If they do accept remote contacts, some prefer simpler phone or messaging modalities

Some service users do not engage with remote contacts



than face-to-face consultations had resulted in not having contact with some service users who had not engaged with remote appointments.

Future hopes and concerns

Two-thirds (67.8%) answered yes when asked whether they wished to retain longer term any changes made during the pandemic. Table 20x summarises responses. A large majority involved keeping some aspects of remote working, with many feeling that selective use of technology platforms to connect staff with each other and with service users has potential long-term benefits for efficiency and the environment, particularly if technical difficulties are resolved and appropriate protocols developed. Others wished to retain some new service initiatives, such as crisis centres in the community, or the increased flexibility and ease of making changes experienced at this time.

Responses to a question about concerns for the future were numerous and detailed (Table 21x). While many participants reported that referrals to their service had decreased in the early phase of the pandemic, many feared that need would increase significantly in future and that lack of capacity and staff burnout may impede response to this. Anticipated drivers of increased future need included traumas, bereavement, and complex grief experienced by frontline staff, service users, and the wider public; mental health problems not managed effectively among people who have disengaged or not sought help during the pandemic; increased levels of domestic abuse and family conflict; and the effects of wider societal disruption and increased inequalities due, for example, to unemployment and homelessness. Fears were also expressed that reduced levels of service might persist inappropriately after the current emergency period, that changes made in response to the crisis might be used to justify reduced funding in future, or that staff would be expected to continue with working patterns that they had agreed to only because of the crisis. Extension of remote working beyond the circumstances in which it had proved helpful was a further concern. Several respondents were concerned about the disproportionate impact of the pandemic on Black, Asian, and Minority Ethnic staff and service users, and about potentially increased racism and xenophobia.

Discussion

A wide range of challenges are reported by practitioners across the mental health sector, some specific to service settings or groups of service users and carers. While many commentators have predicted a significant and widespread impact of COVID-19, we are able to provide a more detailed

report that is rooted in direct experience of the effects of the pandemic on mental health care, albeit only in one country and only from the perspective of practitioners.

In the context of the pandemic, infection control is an immediate need whose complexity in mental health settings is a significant finding from our study. Lack of PPE was sometimes identified as a problem. More prominent, however, were challenges relating to processes, to the physical environment in which mental health care is delivered, and to tensions between infection control requirements and providing safe care and maintaining therapeutic relationships with people who may be distressed, suspicious, or struggling to comprehend the situation. Inpatient and residential services, and crisis services, where continuing face-to-face contacts appear more frequent than in routine care, are not surprisingly the settings in which staff are most immediately concerned with the spread of infection: the price of failure is potentially very high, as indicated by a recent Care Quality Commission report on excess deaths related to COVID-19 among people subject to the Mental Health Act [17].

The shift to remote working, strikingly rapid given that tele-health has been discussed over many years but with limited implementation, has been widely discussed; we examine staff perspectives on this in detail in the current study. Both our quantitative and qualitative data suggest clear support for its partial adoption in the longer term: remote contacts are seen as valuable for staff meetings, and for convenient and environmentally friendly follow-up of well-engaged clients with access to and a positive view of technology. However, staff give a very clear warning that there are still important technological, social, and procedural barriers to be addressed, and that its use should remain selective, complementing rather than replacing face-to-face contact.

This and other innovations that we document above suggest that, as in other domains of healthcare, there has been considerable agility and flexibility in at least some service contexts during the current crisis, with urgent needs overcoming well-documented barriers to implementing new ways of working. However, while responses to our question about innovations that staff would like to retain were numerous, serious concerns regarding both the short and long-term future were also widely expressed: these data were collected at a very early stage in the COVID-19 pandemic. Mental health services in the UK were already under pressure prior to the pandemic [18] and swift attention, strategic planning, and resources will be required to meet widely anticipated additional demands from people affected directly or indirectly by the impact of the pandemic.

Limitations

This is only one perspective on the impact of the pandemic on mental health care, albeit one rooted in direct experience:

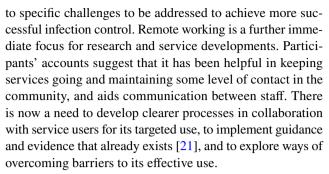


it will be essential to investigate service user and carer perspectives, and to measure impacts on the mental health system more systematically as further data become available. Given the unprecedented pace of change in the world and in mental health services, we prioritised gaining a broad overview of impacts and responses, but much detail will have been missed. Our questionnaire was by necessity an ad hoc and not an established and validated tool. Omissions were noted as the study progressed: it was assumed that impacts of the "lockdown" for service users were negative, but positive experiences are noted too, for example of reduced pressure or easier access for people who struggle to travel [13]. More importantly, we designed the questionnaire early in the pandemic when the evidence of differential effects on some ethnic groups was less striking [19]: closed questions do not focus on this, although these effects and issues of racism are included in open-ended responses on concerns for the future.

Our sample, gathered by disseminating our questionnaire through a range of channels, is not representative of those who work in mental health care settings, and may either over-represent people who have strong concerns about the situation or those who wish to report successful new practices. We managed to include a range of professions and work settings, but did not recruit as successfully as we had hoped outside the NHS—more targeted efforts and time are likely to be needed to reach relevant staff from other sectors. Many people with mental health difficulties also come into contact with GPs, pharmacists, paramedics, and A&E doctors and nurses, especially if they are not under secondary services; we have not included these perspectives. We are especially concerned that, while we do not have any definitive overall figure for the UK mental health care workforce, it is clear that the number of non-White participants in our survey is relatively small, despite targeted efforts to increase their number and a strong emphasis on anonymity and confidentiality, as advised in the previous discussions of this frequently experienced difficulty [20]. Further efforts to engage and form partnerships are likely to be needed here too. London also appears over-represented and rural areas, which may have distinctive challenges, under-represented, and we have not at this stage disaggregated data by country, region, or area type.

Implications

We present here a series of snapshots capturing, from a staff perspective, the situation in mental health care services in the rapidly evolving early stages of the COVID-19 pandemic. This work cannot yield definitive answers and should be interpreted alongside other perspectives, but offers researchers, service commissioners, managers, and policy makers directions for service development and further rapid research. Regarding immediate priorities, our findings point



Mental health providers in the UK and elsewhere have demonstrated unprecedented capacity for rapid adaptation and innovation during the early pandemic period. Recovery from the pandemic is a potential opportunity to establish new ways of working, for example with greater co-production with service users, and more widespread implementation of effective interventions and technologies [22]. This will require sufficient resources, rapid production and translation of evidence, effective planning that engages all stakeholders, and great attention to workforce support and prevention of burnout.

Lived experience commentary: Rachel Rowan Olive and Tamar Jeynes

It is reassuring to see that staff share many of our concerns about the COVID-19 pandemic: premature discharges, isolation, difficulties with infection control, and accessing care. Many of these are reflected in the MadCovid project's materials (https://madcovid.com/).

Telemedicine drew mixed views from staff; we would like to highlight some difficulties. Not everyone has a safe space to speak, may only have privacy in their bedroom or none at all. Telemedicine works better for those in better, not-overcrowded housing, so risks widening inequalities in access to care. For many of us, our home is our safety, and it is important to have distressing conversations elsewhere. Leaving the therapy room, we can leave some of our trauma behind. Video calls may feel invasive—as though the clinician is in your bedroom—bringing up traumatic issues inside the home, where we cannot escape them. Any continuation of remote working will need to consider the safety implications of this, assessing its suitability for each individual. It is vital that difficulty adhering to infection control guidance does not lead to blaming inpatients for viral spread. This is particularly important with restraint, where staff mentioned struggling to put on appropriate PPE in time to deal with an unfolding emergency. Wide area variations in restraint rates (https://www.mind.org.uk/media-a/4378/physical_restr aint_final_web_version.pdf [23]; https://weareagenda.org/ wp-content/uploads/2017/03/Restraint-FOI-research-brief ing-FINAL1.pdf [24]), alongside personal experience, make us question whether restraint is ever truly unavoidable. If



it places both staff and service users at risk of COVID-19 infection, it is doubly dangerous. However challenging the situation, efforts must be renewed to reduce the iatrogenic distress, fear, and anger which can lead to its use.

Historically slow-moving services have implemented change at breakneck speeds in response to this crisis despite significant difficulties. Service users have campaigned for changes for decades. It is time to implement these changes with the same urgency.

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Author contributions SJ, BLE, AS, SO, SC, and SG made the initial plan for the study. All main authors contributed to protocol development. SJ drafted the survey, CDL developed the online version, and all main authors commented. CDL and AS led on recruitment strategies. CDL and SL planned and conducted the statistical analysis. NVSJ, UF, AP, and SO planned and conducted the qualitative analysis. RRO, TJ, and PS coded and summarised qualitative data and contributed from a lived experience perspective, and RRO and TJ wrote the Lived Experience commentary. SJ, CDL, and HK drafted and all authors contributed to and approved the final manuscript. Group authors contributed to protocol development, commented on the survey, contributed to making and implementing recruitment plans, and coded and summarised qualitative data.

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Availability of data and material The survey dataset is currently being used for additional research by the author research group and is, therefore, not currently available in a data repository. A copy of the survey is available at this web address: https://opinio.ucl.ac.uk/s?s=67819.

Compliance with ethical standards

Conflicts of interest SJ, AS, BLE, SO, and SC are grant holders for the NIHR Mental Health Policy Research Unit.

Ethics approval The King's College London research ethics committee approved this study (MRA-19/20-18372).

Consent to participate Information on participation was provided on the front page of the survey. By starting the survey, participants agreed that they had read and understood all this information.

Consent for publication It was explained on the front page of the survey that responses may be used in articles published in scientific journals and that these articles will not include any information which could be used to identify any participant.

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