The impact of shielding during the COVID-19 pandemic on mental health: evidence from the English Longitudinal Study of Ageing

Giorgio Di Gessa and Debora Price

Background
During the COVID-19 pandemic, older and clinically vulnerable people were instructed to shield or stay at home. Policies restricting social contact and human interaction pose a risk to mental health, but we know very little about the impact of shielding and stay-at-home orders on the mental health of older people.4

Aims
To understand the extent to which shielding contributes to poorer mental health.

Method
We used longitudinal data from wave 9 (2018/2019) and two COVID-19 sub-studies (June/July 2020; November/December 2020) of the English Longitudinal Study of Ageing, and constructed logistic and linear regression models to investigate associations between patterns of shielding during the pandemic and mental health, controlling for sociodemographic characteristics, pre-pandemic physical and mental health, and social isolation measures.

Results
By December 2020, 70% of older people were still shielding or staying at home, with 5% shielding throughout the first 9 months of the pandemic. Respondents who shielded experienced worse mental health. Although prior characteristics and lack of social interactions explain some of this association, even controlling for all covariates, those shielding throughout had higher odds of reporting elevated depressive symptoms (odds ratio 1.87, 95% CI 1.22–2.87) and lower quality of life (β = −1.28, 95% CI −2.04 to −0.52) than those who neither shielded nor stayed at home. Shielding was also associated with increased anxiety.

Conclusions
Shielding seems associated with worse mental health among older people, highlighting the need for policy makers to address the mental health needs of those who shielded, both in the current pandemic and for the future.

Keywords
Depressive disorders; anxiety disorders; quality of life; shielding; COVID-19.

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Early on in the COVID-19 pandemic, it was identified that risks of serious illness and death increased exponentially with age, and that many diseases that were also strongly correlated with age also increased morbidity and mortality risks.1 When the UK Government announced the first lockdown on 23 March 2020, shielding and stay-at-home orders were issued for at-risk groups. Some 3.8 million people in the UK were ordered to shield (almost 6% of the population), 74% of whom were aged >50 years.2 Furthermore, from March 2020, all those aged >70 years and those deemed ‘clinically vulnerable’ were also advised to stay indoors and limit their interactions with others for 12 weeks. Restrictions were partially eased for a few months in the second half of 2020, but a new lockdown in England was reintroduced in November 2020 for a month, with a third in January 2021. Although shielding advice ended on 1 April 2021, those who were shielding were nevertheless recommended to continue to take precautions. Updated government Guidance published on 28 July 2021 warned this group that vaccines are not 100% effective and may not work well in the immune-compromised, cautioned those at higher risk of becoming seriously ill if they were to catch COVID-19 and advised them to think carefully about contacts with other people.3

Many people have avoided social contact throughout the pandemic regardless of formal advice,4 and as variants circulate, many of those previously warned of their vulnerabilities to COVID-19 may elect to continue to protect themselves from social contact.5

Policies restricting social contact and human interaction have clearly posed a risk to mental health and well-being, and research has demonstrated deteriorating mental health especially among those with pre-existing mental or physical health conditions and low social support.6–11 Because the shielding policies and stay-at-home advice disproportionately affected older people, researchers have also investigated mental health sequelae of the pandemic for this group. Despite some evidence of coping strategies,12 there has been a substantial deterioration in mental health and well-being for those aged >50 years during the pandemic,13–15 which has been shown to have been exacerbated by shielding for those identified as clinically vulnerable to COVID-19.16,17

The current study
Important lacunae remain in our understanding of poorer mental health in older people instructed to shield during the pandemic. First, not all people advised to shield did so,17 and similarly, individuals might have decided to shield even without such advice, particularly if they self-identified as at increased risk of serious illness or death.5 It is therefore important to consider people’s behaviours and their interaction with mental health to better understand the role of shielding. Second, to our knowledge, this is the first study that considers reported behaviours at three time points that cover the first 8–9 months of the pandemic (two of which were...
characterised by ongoing lockdowns). Third, people advised to shield are also disproportionately likely to have had poorer physical, mental and social well-being before the pandemic. This study therefore also accounts for pre-pandemic characteristics that could potentially lead to a higher risk of social isolation and care deficits, and therefore to deteriorating mental health and well-being. Finally, as one possible consequence of both shielding and staying at home is for physical separation to lead to social isolation and loneliness, this study also accounts for these important factors to understand the impact of shielding on mental health.

Identifying the effect of shielding on mental health is key to devising appropriate and targeted policy responses as we aim to rebuild society and restore the well-being of our populations, and in the event of the need for further lockdowns or future pandemics. Therefore, in this paper, we aim to understand the extent to which shielding and staying at home are additional factors contributing to poorer mental health above and beyond more traditional explanations such as socioeconomic and demographic factors, prior health, or increased isolation and lack of social support during the pandemic.

Method

Study population

We used the most recent pre-pandemic data (wave 9, collected in 2018/2019) and the two waves of the COVID-19 sub-study (collected in June/July and November/December 2020, respectively) of the English Longitudinal Study of Ageing (ELSA).18 ELSA is a longitudinal biennial survey representative of individuals aged ≥50 years in private households. During the pandemic, 9392 ELSA members were invited to participate online or by computer-assisted telephone interviewing to the COVID-19 sub-study (75% response rate in both waves, 94% longitudinal response rate). Analyses were based on core respondents who participated in both COVID-19 waves with available information in wave 9 (N = 5146). Further details of the survey’s sampling frame and methodology can be found at www.elsa-project.ac.uk. ELSA was approved by the London Multicentre Research Ethics Committee (approval number MREC/01/2/91), and the COVID-19 sub-study was approved by the University College London Research Ethics Committee (0017/003). Informed consent was obtained from all participants. All data are available through the UK Data Service (identifiers SN 8688 and SN 5050).

Main measurements of interest

Shielding

Respondents were asked whether, in April 2020, they were shielding (‘not leaving home for any reason, not going out to buy food and not seeing people outside of your household’), staying at home (‘only leaving your home for very limited purposes, such as shopping for food, one form of exercise, or essential work’) or neither. Similar questions were asked at both COVID-19 waves with respect to the week before the interview. Based on the possible combinations of answers, we classified respondents into five broad categories, distinguishing between those who, during the first 8–9 months of the pandemic, were (a) staying at home (but not shielding) at all three measured time points; (b) shielding at all three time points; (c) shielded in two time periods (and were mostly staying at home in the third); (d) shielded in one time period (and described themselves as either staying at home or neither shielding or staying at home in the other two); and (e) were not shielding at any point, and did not stay at home throughout the period.

Mental health

We considered four outcome measures of mental health assessed at the second COVID-19 wave: depressive symptoms, anxiety, well-being and quality of life. Symptoms of depression were measured by an abbreviated version of the validated Center for Epidemiologic Studies – Depression Scale (CES-D).19 The CES-D scale is not a diagnostic instrument for clinical depression, but can be used to identify people ‘at risk’ of depression in population-based studies. This short version has good internal consistency (Cronbach’s α > 0.95) and comparable psychometric properties to the full 20-item CES-D. The scale includes eight binary (no/yes) questions that enquire about whether respondents experienced any depressive symptoms, such as feeling sad or having restless sleep, in the week before the interview. We classified respondents who reported four or more depressive symptoms on the CES-D scale as having elevated depressive symptoms.20 Anxiety was monitored by the Generalised Anxiety Disorder-7 assessment (GAD-7), which evaluates the presence in the past 2 weeks of seven symptoms of anxiety, such as becoming easily annoyed or irritable or not being able to stop or control worrying, on a four-point scale (‘not at all’, ‘several days’, ‘more than half the days’, ‘nearly every day’). This is a well-validated tool, with a high scale reliability (Cronbach α = 0.90 in this study), and is used to screen for generalised anxiety disorder in clinical practice and research.21 A standard threshold score of 10 on the GAD-7 scale was used to define clinically significant symptoms. Furthermore, we considered subjective quality of life, evaluated by the Control, Autonomy, Self-realization and Pleasure (CASP)-12 scale. This is an abbreviated measure of the validated CASP-19 scale, which was specifically designed for individuals in later life and is used in a wide variety of ageing surveys.22 CASP-12 contains 12 Likert-scaled questions measuring older people’s control and autonomy, as well as self-realisation through pleasurable activities. The possible range of CASP-12 scores is from 0 to 36, with higher scores indicating greater well-being: CASP-19 is treated as a continuous variable. Finally, we considered life satisfaction as a measure of personal well-being assessed by the Office for National Statistics (ONS) well-being scale (‘On a scale of 0 to 10, where 0 is ‘not at all’ and 10 is ‘very’, how satisfied are you with your life nowadays?’). This allows respondents to integrate and weigh various life domains in the way they choose.23

Covariates

Our analyses controlled for a wide range of demographic, socioeconomic characteristics, health and social support characteristics. We controlled for age and age squared to account for non-linear relationships with the outcome variables, gender and ethnicity (White versus Black and minority ethnic participants, because of data constraints in ELSA). To capture respondents’ socioeconomic characteristics, we controlled for pre-pandemic education, income, wealth, housing tenure and paid employment during the pandemic. Educational level was recoded into low (below secondary), middle and high (university or above), following the International Standard Classification of Education (http://www.uis.unesco.org/). We categorised respondents by quintiles of wealth (total net non-pension non-housing wealth) and accounted for their equivalised total income (from paid work, state benefits, pensions and assets). Housing tenure distinguished outright owners, owners with a mortgage and non-owners. Paid employment distinguished retired, in paid work and not working from home, in paid work and mostly working from home, furloughed and other (including homemakers, unemployed and sick or disabled).

We also accounted for pre-pandemic health. In particular, we controlled for disability (having impairments with basic and instrumental activities of daily living) and clinical vulnerability to...
COVID-19 (defined irrespective of age, as reporting chronic lung disease, asthma, coronary heart disease, Parkinson’s disease, multiple sclerosis, diabetes, weakened immune system as a result of cancer treatment in the previous 2 years, body mass index of ≥40 or having been advised to shield by their general practitioner or the National Health Service).16,24 We further controlled for pre-pandemic measures of mental health (see above for derivation). For the GAD-7 (not included in pre-pandemic waves), analyses were adjusted for pre-pandemic ratings on the ONS anxiety scale.

Finally, we included indicators of social isolation and social support during the pandemic, including household composition, social contacts and loneliness. For household composition, we distinguished between respondents living alone, with a partner only, with partner and child(ren), with child(ren) only and any other arrangements. Both COVID-19 ELSA surveys asked questions about real-time contact (by telephone or video calling) with family outside the household and with friends in the past month. At each wave, we categorised respondents as having infrequent contact if they reported contact with family and friends less than once a week or never. We constructed a variable indicating if respondents never reported infrequent contact, only at one time point or at both COVID-19 waves. Finally, using the short version of the Revised UCLA Loneliness Scale, with scores of ≥26 indicating greater loneliness,25 we created a variable indicating whether respondents never felt lonely during the pandemic, felt lonely only at one point or reported significant loneliness at both COVID-19 waves.

Statistical analysis

Following descriptive analysis, we investigated the longitudinal associations between shielding and mental health, using nested logistic or linear models depending on the outcome. Following a ‘basic’ adjustment model (model 1) that controlled for age, age squared, gender and ethnicity, three further models were performed, with each including variables from the previous model. Model 2 adjusted for socioeconomic characteristics (education, income, wealth, home tenure and employment) and pre-pandemic health (disability and clinical vulnerability), as health conditions might have triggered the decision to shield or stay at home throughout the pandemic. Model 3 further adjusted for pre-pandemic relevant mental health measures. Finally, in model 4, we adjusted for household composition, social contacts and loneliness, to explore whether and to what extent the relationships observed between shielding and mental health may be driven by reduced social interactions and higher loneliness during the pandemic. All analyses were performed with Stata for Windows version 16. Cross-sectional and longitudinal sampling weights were employed to account for different probabilities of being included in the sample, and for non-response to the survey.

Results

Descriptive statistics

The characteristics of the respondents are shown in Supplementary Table 1 available at https://doi.org/10.1192/bjp.2022.44. Fig. 1 shows that overall, the percentage of ELSA respondents who reported ‘shielding’ during the 2020 pandemic declined over time, with 22% of the sample shielding in April compared with 15% in June/July and 12% in November/December. Similarly, the percentage of the sample who left their homes only for limited purposes decreased from 63% in April to 57% in November/December 2020. Those who were doing neither increased from 15% in April 2020 to 28% by November/December. Table 1 shows the patterns of shielding behaviour over time. About 28% of respondents reported that they shielded at least once, with 5% shielding throughout, 11% on two (mostly consecutive) occasions and 12% only once (mostly early in the pandemic). Among those who never reported shielding, respondents were equally split between those who were staying at home all the time (35%) and those who did not stay at home throughout the period (37%). A more comprehensive table with more detailed patterns of shielding/staying at home behaviours can be found in Supplementary Table 2.

Table 1 also shows that mental health measured in the second wave of the COVID-19 ELSA sub-study showed substantial variation by shielding patterns. Respondents who shielded at all times reported the highest percentages of elevated depressive symptoms (42%), the lowest life satisfaction (mean ONS well-being scale score of 6.4) and the lowest quality of life (mean CASP-12 score of 20.7), whereas those who neither shielded nor stayed at home throughout the period reported the best mental health and well-being in November/December 2020 (with 23% reporting elevated depressive symptoms and 7% reporting anxiety symptoms, mean ONS well-being scale score of 7 and mean CASP-12 score of 26.1). As expected, similar variations were also observed when pre-pandemic mental health was considered, with respondents who neither shielded nor stayed at home during the first 8–9 months of the pandemic more likely to also report the lowest

Fig. 1 Percentage of people shielding, staying at home or neither in each ELSA wave. Source: ELSA COVID-19 sub-study wave 1 and wave 2. Weighted data. ELSA, English Longitudinal Study of Ageing.
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percentages of elevated depressive symptoms and anxiety, as well as the highest mean life satisfaction and quality of life (see Supplementary Table 3 for full details).

**Multivariable analyses**

To investigate how patterns of shielding and staying at home during the pandemic were associated with mental health we used multiple logistic (Table 2) and linear regressions (Table 3), and present results for the main variable of interest from four nested models (full results in Supplementary Tables 4–7). Accounting for basic demographic characteristics (model 1), there were significant differences in mental health by patterns of self-isolation and shielding. Participants who had shielding had higher odds of elevated depressive symptoms and anxiety and lower levels of quality of life and life satisfaction, with those shielding throughout reporting poorer mental health outcomes. Respondents who left their home only for essential reasons throughout were also more likely to report poorer mental health on all outcomes than those who did not have this restriction.

Results from model 2, which additionally accounts for economic characteristics and pre-pandemic physical health, show that associations between patterns of shielding and poorer mental health were attenuated but remained significant for depressive symptoms, anxiety and quality of life. However, all associations between patterns of shielding and life satisfaction are largely explained by respondents’ economic and pre-pandemic physical health. Moreover, accounting for these characteristics explained the association between shielding throughout the pandemic and anxiety.

In model 3, we find that further adjusting for prior mental health, to account for the fact that those shielding at any time were more likely to have started the pandemic with worse mental health, made little difference to the observed associations between patterns of shielding, depressive symptoms, anxiety and quality of life. For instance, those shielding at all three time points had

### Table 1  Distribution of patterns of shielding and staying at home across three time points (April 2020, June/July 2020 and November/December 2020) and unadjusted mental health by patterns of shielding and staying at home

| Pattern of Shielding and Staying at Home | N  | %  | Elevated depressive symptoms (CES-D, %) | High levels of anxiety (GAD-7, %) | Mean life satisfaction (ONS well-being scale) | Mean quality of life (CASP-12) |
|-----------------------------------------|----|----|----------------------------------------|----------------------------------|---------------------------------------------|---------------------------------|
| Shielding at all three time points      | 264| 5.3| 42.0                                   | 15.4                             | 6.41                                        | 20.68                           |
| Shielding at two time points           | 553| 10.6| 35.0                                   | 16.9                             | 6.77                                        | 22.96                           |
| Staying at one time point              | 643| 12.5| 34.4                                   | 17.3                             | 6.68                                        | 23.26                           |
| Staying at home at all three time points| 2016| 34.7| 28.6                                   | 10.8                             | 6.80                                        | 25.29                           |
| Neither shielding or staying at home at all three time points | 1670| 36.9| 22.5                                   | 6.8                              | 6.99                                        | 26.13                           |
| Number of respondents                  | 5146| 100| 28.4                                   | 11.0                             | 6.83                                        | 24.90                           |

Source: ELSA COVID-19 sub-study wave 1 and wave 2. Weighted data. CES-D, Center for Epidemiologic Studies – Depression Scale; GAD-7, Generalised Anxiety Disorder-7 assessment; ONS, Office for National Statistics; CASP-12, Control, Autonomy, Self-realization, and Pleasure 12-item scale; ELSA, English Longitudinal Study of Ageing.

### Table 2  Associations between shielding patterns and elevated depressive symptoms and anxiety (nested fully adjusted logistic regression models)

| Pattern of Shielding and Staying at Home | Model 1, odds ratio [95% CI] | Model 2, odds ratio [95% CI] | Model 3, odds ratio [95% CI] | Model 4, odds ratio [95% CI] |
|-----------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CES-D elevated depressive symptoms       |                             |                             |                             |                             |
| Staying at home at all three points      | 1.50*** [1.21–1.86]         | 1.24 [0.99–1.56]            | 1.37** [1.09–1.72]          | 1.40** [1.09–1.79]          |
| Never shielding or staying home at all points | Reference                  | Reference                   | Reference                   | Reference                   |
| Shielding at one time point              | 2.24*** [1.69–2.98]         | 1.46 [1.09–1.96]            | 1.35 [0.99–1.85]            | 1.34 [0.96–1.88]            |
| Shielding at two time points             | 2.54*** [1.87–3.45]         | 1.58** [1.15–2.17]          | 1.86** [1.33–2.59]          | 1.75** [1.21–2.53]          |
| Shielding at all three time points       | 3.71*** [2.58–5.32]         | 1.81** [1.26–2.62]          | 1.87** [1.26–2.77]          | 1.87** [1.22–2.87]          |
| Number of respondents                    | 5145                        | 5096                       | 4922                       | 4862                       |
| GAD-7 anxiety a                         |                             |                             |                             |                             |
| Staying at home at all three points      | 1.84*** [1.33–2.56]         | 1.49 [1.03–2.17]            | 1.24 [0.85–1.81]            | 1.18 [0.80–1.74]            |
| Never shielding or staying home at all points | Reference                  | Reference                   | Reference                   | Reference                   |
| Shielding at one time point              | 3.82*** [2.48–5.88]         | 2.23** [1.44–3.45]          | 1.74 [1.10–2.74]            | 1.63* [1.00–2.64]           |
| Shielding at two time points             | 4.35*** [2.72–6.94]         | 2.26** [1.35–3.77]          | 1.92 [1.29–3.82]            | 2.06* [1.16–3.65]           |
| Shielding at all three time points       | 4.37*** [2.54–7.52]         | 1.71 [0.99–2.94]            | 1.38 [0.77–2.47]            | 1.46 [0.82–2.61]            |
| Number of respondents                    | 5142                        | 4926                       | 4596                       | 4540                       |

Sources: ELSA, COVID-19 sub-study wave 1 (November/December 2020, COVID-19 sub-study wave 1 (June/July 2020) and wave 2 (2018/2019); Model 1 adjusted for age, age squared, gender and ethnicity. Model 2 adjusted for variables in model 1 plus education, income, home tenure, employment, pre-pandemic disability and clinical vulnerability to COVID-19. Model 3 adjusted for all variables in model 2 plus relevant pre-pandemic mental health measures. Model 4 adjusted for all variables in model 3 plus household composition, social contacts and loneliness. Weighted data. Detailed models can be found in the Supplementary Table 4 (for elevated depressive symptoms) and Supplementary Table 5 (for anxiety). CES-D, Center for Epidemiologic Studies – Depression Scale; GAD-7, Generalised Anxiety Disorder-7 assessment; ELSA, English Longitudinal Study of Ageing; ONS, Office for National Statistics.

a. For GAD-7, model 3 controls for the pre-pandemic anxiety measure by using the ONS question.

*P < 0.05, **P < 0.01, ***P < 0.001.
higher odds of reporting depressive symptoms (odds ratio 1.87, 95% CI 1.26–2.77) and lower quality of life (β = −0.97, P < 0.05). These results remain largely robust to the addition of household composition, social contacts and loneliness (model 4), suggesting that little to none of the explanation for the relationship between shielding and mental health and well-being outcomes is explained by those who shield being lonelier or having reduced social contacts. 

Discussion

It is very important to understand the impact that shielding and stay-at-home policies, and the behavioural responses to them, have had on the mental health and well-being of different segments of the population. This is important not just for this pandemic, but for the management of future outbreaks. In this paper, using data that gathered information about shielding, staying at home or neither at three time points in 2020 (April, June/July and November/December), we show that although over time fewer people aged ≥50 years shielded or stayed at home, in November/December 2020 >70% described themselves as doing one or the other. Overall, staying at home throughout the pandemic or shielding at all (whether at one, two or all three points considered) were strongly associated with greater risk of elevated depressive symptoms, anxiety, poorer quality of life and lower life satisfaction. We also found an overall dose–response relationship between the frequency of shielding and poorer mental health, with those shielding at all times reporting worse mental health outcomes once basic demographic characteristics were accounted for.

By using nested models, we examined a number of hypothesised causes for this association: those shielding or staying at home coming disproportionately from more disadvantaged socioeconomic positions, having a greater likelihood of having specific clinical conditions and living with disabilities, having poorer prior mental health or having poorer social connections during the pandemic. Our models support this set of explanations to a limited degree. Socioeconomic position and physical health do substantially attenuate the relationships between shielding and poorer mental health, and provide the whole of the explanation for lower life satisfaction among those shielding or staying at home. As shown in Supplementary Table 3, those who already had poorer mental health pre-pandemic were also more likely to shield during the pandemic. Indeed, prior mental health also explains some of the association observed between shielding and poorer mental health. However, contrary to what might have been anticipated, social well-being indicators of loneliness, lack of social contact and household structure are not part of the explanatory matrix for this association, and add little to the explanation. Even controlling for a number of possible mediating and confounding factors, strong and significant associations remain between staying at home or shielding at all times during the pandemic, and higher depressive symptoms and lower quality of life. For anxiety, however, we found heightened odds only for those who shielded once or twice during the pandemic, whereas the initial associations for those staying at home or shielding at all times were mostly explained by pre-pandemic anxiety. This provides support for the idea that the acts of shielding or staying at home themselves have a negative impact on mental health among older people, as heralded by Webb, who, at the start of the pandemic, argued that the COVID-19 lockdown was ‘a perfect storm for older people’s mental health’.

This study draws strength from using longitudinal data from the nationally representative ELSA. To our knowledge, it is the first study to consider how the behavioural responses of older people...
to policy directives over time have contributed to mental health and well-being, and to test a variety of possible explanations for the association between shielding/staying at home and mental health outcomes. Our analysis supports the idea that shielding itself has been harmful, over and above other known vulnerabilities, perhaps because of the psychological impact of being told so starkly of your own vulnerability and mortality and the policing of your own behaviour, and resulting anxiety and stress. Our contribution, however, should be considered in light of some limitations. ELSA did not collect information about respondents’ perception on their (lack of) independence during the pandemic, exposure to COVID-19-related news, individuals’ ability to tolerate and cope with uncertainty owing to COVID-19, or personality characteristics such as degree of risk tolerance or harm avoidance. These factors might help further understand both different behaviours and choices around levels of shielding and their subsequent effect on mental health. Also, although instructions to shield were mostly targeting older people, we could not evaluate associations across the full adult-age spectrum, as ELSA samples only those aged >50 years, and those in care homes are excluded. Also, we only had information about shielding behaviours at three points in time, mostly referring to the week before the interview. Although we cannot construct more nuanced and continuous measures of shielding/staying at home, this is likely to be the best data obtainable at scale for behaviours among older people during the pandemic. ELSA is limited to the population of England, and so it is not possible to say that this would hold in other countries, although it is plausible that it would. Finally, ELSA suffers from non-random cumulative attrition, an unavoidable problem in longitudinal studies that can only partially be corrected for by using weights in the analysis.

In summary, our study provides a picture of the broader consequences of the pandemic and shielding policies among older people. Although it is important to recognise that the clear aim and main benefit of guidelines focusing on social distancing is to contain the spread of the disease and save lives, policy makers need to be aware of adverse consequences for the mental health and well-being of those advised to shield or stay at home. If the long-term health and social well-being of older people are not to be compromised by shielding and stay-at-home advice, urgent attention should be paid to addressing the mental health and wider needs of these groups in emerging from the current pandemic, and if shielding policies remain a core strategy to protect individuals at higher risk from COVID-19 variants, or indeed in a future pandemic.

Giorgio Di Gessa Institute of Epidemiology & Health Care, Department of Epidemiology & Public Health, University College London, UK; Debora Price, Department of Sociology, Manchester Institute for Collaborative Research on Ageing, University of Manchester, UK

Correspondence: Giorgio Di Gessa. Email: g.d-gessa@ucl.ac.uk

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Supplementary material
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Data availability
The data used in this study are available from the UK Data Service under access codes SN 8688 and SN 3050 (http://doi.org/10.5255/UKDA-SN-3050-24).

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Author contributions
G.D.G. had the initial idea for the study, conducted analyses, contributed to the study design and drafted the manuscript. D.P. led the conception and design of the study, co-led the interpretation of the results with G.D.G., and contributed to drafting and revising the manuscript. Both authors have read and approved the final version.

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Declaration of interest
None.

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