

RESEARCH ARTICLE

The amplifying effect of perceived group politicization: Effects of group perceptions and identification on anxiety and coping self-efficacy among members of UK COVID-19 mutual aid groups

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Abstract

Mutual aid groups developed and mobilized in communities across the UK and globally at the outset of the pandemic in order to support vulnerable community members with practical assistance and emotional support, with some understanding their work in political terms. This study adopted a “social cure” lens to investigate the effects of group identification and group perceptions on anxiety and coping self-efficacy among members of UK Covid-19 mutual aid groups. Survey data were collected from self-identified members of these groups ($N = 844$) during the initial period of “lockdown” restrictions in April – May 2020. Correlational analyses showed that identification with the mutual aid group was linked to more positive group perceptions and better self-reported psychological outcomes. Perceived group politicization showed the reverse pattern. Mixed support for the “social cure” model was evident; the effect of group identification on coping self-efficacy (but not anxiety) was serially mediated by perceived support and collective efficacy. Perceived group politicization was a significant moderator, seeming to amplify the indirect effect of group identification on coping self-efficacy via perceived support. Results are discussed in light of previous empirical work on the social cure and Covid-19 mutual aid groups. Please refer

to the Supplementary Material section to find this article's [Community and Social Impact Statement](#).

KEYWORDS

Covid-19, mutual aid, social cure, social identity, volunteering

1 | INTRODUCTION

Despite the difficult circumstances, the Covid-19 pandemic brought about an increase in community participation and engagement in the United Kingdom (UK) and elsewhere (Mak & Fancourt, 2020; Sitrin & Colective Sembrar, 2020). One key aspect of this community response has been the development and mobilisation of Covid-19 mutual aid groups in the UK and internationally. These groups, which numbered over 4,000 across the UK during the first national “lockdown” of spring 2020 (Covid-19 Mutual Aid, 2020) have provided invaluable practical, emotional, and often financial assistance to vulnerable community members since the beginning of the pandemic. Some of these groups understand mutual aid in political terms while others adopt a more pragmatic “service provision” perspective on their work (Singh Dhillon, 2020). These groups have contributed significantly to their communities but, as related research on volunteering indicates (Bowe et al., 2020; Gray & Stevenson, 2019) as well as recent research on Covid-19 mutual aid groups (Mao et al., 2020) it is also probable that mutual aid groups have equipped their members with the psychological resources to better cope with the manifold threats to mental health caused by the pandemic. An extensive body of work has demonstrated the positive effects of social support and group identification on physical and mental health across a range of challenging or stressful contexts, the so-called “social cure” (e.g., Haslam, Jetten, Postmes, & Haslam, 2009). However, this research has underexplored the way in which these processes play out within specific social and political contexts and has largely left unexamined the links between the social cure, collective action, and social change (Wakefield, Bowe, Kellezi, McNamara, & Stevenson, 2019). Informed by this body of work, this study investigates the relationships between group perceptions and identification, anxiety, and coping self-efficacy among members of UK Covid-19 mutual aid groups, particularly focusing on the way in which perceiving the mutual aid group as political or not, may be related to social cure processes.

2 | COVID-19 MUTUAL AID GROUPS

The pandemic motivated a significant community response across the UK and one important aspect of this has been the widespread proliferation of mutual aid groups. Some of these groups formed at the beginning of the pandemic, while others developed from pre-existing organizations such as parish councils (Tiratelli & Kaye, 2020). Organized generally on a hyper-local basis and via social media, these groups fulfilled practical tasks such as grocery shopping and collecting medication, but also provided invaluable emotional support and advice to members of the community, many of whom were struggling with physical and mental health issues as well as an economic disadvantage (Jones et al., 2020). Without mutual aid groups, vulnerable people would have had to rely on assistance from the local government, which was frequently perceived as too slow or inadequate in its provision (O'Dwyer, Beascochea-Seguí, & Souza, 2020; Tiratelli & Kaye, 2020).

Recent research on mutual aid groups has suggested that their members are disproportionately female (Jones et al., 2020; Wein, 2020), in line with other studies which have reported women's higher levels of engagement in Covid-19 volunteering (Mak & Fancourt, 2020) and general helping behaviour during the crisis (Ipsos, 2020). Thus, as with the pandemic's gendered impact in domains such as caring responsibilities and employment (e.g., Craig &

Churchill, 2021; Xue & McMunn, 2021), it seems that the community response to Covid-19 has also been bound up with gender.

In a similar way, an analysis of the geographical location of mutual aid groups found that their presence was positively related to the median age, happiness, life satisfaction, and wealth at the local authority level (Felici, 2020), and in another report their presence was linked to areas with higher levels of social capital and where working age people had more time, chiefly via the government's "furlough" scheme (Tiratelli & Kaye, 2020), suggesting that, mirroring the country's broader experience of the pandemic so far, the community response was also shaped by pre-existing economic and social inequalities.

Research has suggested that members of mutual aid groups are interested in politics and willing to engage in political action but view their mutual aid activities as apolitical (Wein, 2020). However, mutual aid as a concept has its roots in the anarchist thought of Peter Kropotkin (1902, as cited in Kinna, 1995) – it describes a different model of society to the neoliberal capitalist status quo, one based on reciprocity, altruism, and resistance to hierarchy. On this, Singh Dhillon (2020) describes two not necessarily mutually exclusive versions of UK Covid-19 mutual aid. The first of these works as (likely short-term) service provision/crisis response by partnering with third sector organizations, local government, and even perhaps the police. The second takes a more independent and critical approach and understands mutual aid during Covid-19 as an opportunity to radically restructure society over the long-term, and *what it means* to be a member of that society, in line with principles of localism, reciprocity, and equality (Covid-19 Mutual Aid, 2020). Members of these groups may advocate a lack of engagement with and independence from the local authorities and police; their work is long-term activism rather than short-term crisis response. Given the different types of mutual aid groups, it is plausible that the outcomes of association with these groups may differ.

To provide further relevant contextual information relevant to mutual aid groups, the UK government allocated emergency funding of £3.2 billion to local authorities at the end of March 2020, as well as £5 billion in cashflow support (Department for Levelling Up, Housing and Communities and Ministry of Housing, Communities & Local Government, 2020). Local authorities supported their communities with the provision of hardship grants for individuals (generally with strict eligibility criteria), as well as small grants for voluntary organizations, such as mutual aid groups. However, this should be contextualized by recognizing the significant financial pressures which local authorities have experienced due to budget cuts by the UK government over the past decade, a drop in funding estimated at nearly £16 billion by 2020 (Local Government Association, 2018).

3 | ANXIETY, COPING SELF-EFFICACY, AND COVID-19

The psychological impact of Covid-19 through "lockdown" conditions and disruption to social contact, employment, and education, has been extensively examined in recent empirical work (see Serafini et al., 2020 for a review). The emergence of a new, incurable virus is fundamentally an existential threat therefore some research has focused on the prevalence and determinants of anxiety in particular (e.g., Fancourt, Steptoe, & Bu, 2020; Serafini et al., 2020; Shevlin et al., 2020). In the UK context, studies have pointed to the increased prevalence of anxiety relative to other pre-pandemic time periods (Shevlin et al., 2020) but have also noted its rapid decline as restrictions were eased after the first lockdown (Fancourt et al., 2020). Various determinants of increased prevalence of anxiety during Covid-19 have been identified, including being female (Fancourt et al., 2020), of younger age, having children in the home, receiving a low income (Fancourt et al., 2020; Shevlin et al., 2020), high estimates of personal risk, and pre-existing health conditions in self and others (Shevlin et al., 2020).

On the other hand, self-efficacy, or an individual's belief in their own ability to exercise influence over their life and accomplish desired tasks (Bandura, 1977), may serve as a protective factor against psychological distress during the pandemic. In particular, coping self-efficacy, defined as "the perception of one's capability for managing stressful or threatening environmental demands" (Benight, Swift, Sanger, Smith, & Zeppelin, 1999; p. 2442) may be relevant

given it has been linked to lower psychological distress following disasters such as a serious hurricane in Florida (Benight et al., 1999) and the 1995 Oklahoma City bombing (Benight et al., 2000). During the pandemic, recent research has also related coping self-efficacy to lower levels of acute stress disorder among nurses in Jordan (Shahrour & Ali Dardas, 2020) and among healthcare and emergency workers in Italy (Vagni, Maiorano, Giostra, & Pajardi, 2020). These findings, taken together, suggest that coping self-efficacy may be a protective factor against psychological distress during Covid-19. However, coping self-efficacy, like other efficacy beliefs, is not a personality trait but a set of beliefs which is influenced by social and contextual factors (Bandura, 2006), one of which may be group membership and processes.

4 | THE SOCIAL IDENTITY APPROACH TO HEALTH AND WELL-BEING

An extensive body of research now supports a view of social identities as “powerful psychological resources that have an important role to play in managing and improving health” (Jetten, Haslam, Cruwys, Greenaway, & Haslam, C. &., 2017, p. 789) and has applied this framework to a range of physical and mental health issues, including stress, anxiety, and depression (Haslam, Cruwys, & Haslam, 2014), and eating disorder recovery (McNamara & Parsons, 2016). The “social cure” paradigm specifies a number of specific mechanisms through which groups and group identification affect health and wellbeing (Jetten et al., 2017). Chief among these are the “social cure” and “social curse” hypotheses which state that, depending on the content of the social identities and the social value attached to them (e.g., DeMarco & Newheiser, 2019), group membership can have either a positive or negative effect on health and well-being. Perceived social support and collective self-efficacy have been posited as primary mechanisms linking group identification to health and wellbeing outcomes (Häusser, Junker, & van Dick, 2020; van Dick & Haslam, 2012). There is developing empirical support for the serial mediation of the relationship between group identification and health and wellbeing outcomes by perceived support and collective efficacy, as reported in a cross-sectional study of burnout among Italian teachers (Avanzi, Schuh, Fraccaroli, & van Dick, 2015) and a longitudinal study examining the impact of group processes on emotional exhaustion, chronic stress, and depressive symptoms among German undergraduate students (Junker, van Dick, Avanzi, Häusser, & Mojzisch, 2019).

A number of studies using a “social cure” approach are of direct relevance to this study. First, some work has examined the way in which groups equip their members with the necessary psychological resources to cope with traumatic or stressful events. For example, Muldoon et al. (2017) explored the effects of social identity processes on post-traumatic stress and post-traumatic growth in Nepal, shortly after the 2015 earthquake. They found that the extent to which people had been affected by the earthquake (earthquake experience) was positively related to post-traumatic stress and post-traumatic growth, and that these relationships were mediated by increased perceptions of the collective efficacy of Nepalis. The relationship between earthquake experience and post-traumatic growth was also mediated by community identification.

Second, and related particularly to the issue of volunteering, Bowe et al. (2020) conducted a mixed-method investigation of community volunteering in England. Interview analysis suggested that community identification and volunteering were dynamically related, with community relationships and wellbeing central to participants' accounts of volunteering. Analysis of survey data with volunteers and non-volunteers also showed that the positive effect of volunteering on well-being was serially mediated by community identification and social support. Similarly, an analysis of interview data with volunteers in southeast England underscored the importance of group dynamics in participants' accounts of their experiences of volunteering (Gray & Stevenson, 2019). Their analysis points to the relevance of shared identity for the promotion of volunteering and particularly for facilitating an enduring commitment to the work.

Taken together, these studies support the relevance of a “social cure” approach to understanding psychological distress during Covid-19 and the potential role played by voluntary groups in mitigating this. Given that, for many,

mutual aid is indistinguishable from formal volunteering, it is likely that similar findings will be reported with members of Covid-19 mutual aid groups. However, Wakefield et al. (2019) make a salient point in their review of the “social cure” field by arguing for future research to situate these group processes within particular social and political contexts and projects – to examine the ways in which people “harness the positive potential of their group, (re) define their identities towards collective action, set their own agenda, and ultimately overcome social challenges” (p. 8). Covid-19 mutual aid groups, given their frequent political basis, present an ideal opportunity to investigate these issues.

5 | THE CURRENT STUDY

The present study investigates the relationships between group perceptions, identification, coping self-efficacy, and anxiety in the context of UK Covid-19 mutual aid groups. The aims of the present paper are (1) to investigate relationships between ingroup identification and ingroup perceptions, coping self-efficacy, and anxiety; (2) to test whether the association of ingroup identification with both coping self-efficacy is mediated by perceived support and collective efficacy (Avanzi et al., 2015; Häusser et al., 2020); and (3) to examine the potential moderating role of perceived group politicization on these two mediation models. Specifically, we hypothesized that ingroup identification would be positively related to both perceived support (H_1) and collective efficacy (H_2). We further hypothesized that perceived support and collective efficacy would mediate the relationship between ingroup identification and coping self-efficacy (H_3) and the relationship between ingroup identification and anxiety (H_4). Lastly, we hypothesized that perceived group politicization would moderate the indirect effects of ingroup identification on coping self-efficacy (H_5) and on anxiety (H_6). Given the differences in perceived politicization of mutual aid groups in the UK and the lack of research on the effects of group politicization in this context, we did not make predictions as to the direction of these moderating effects.

6 | METHOD

6.1 | Participants

The central organising website (Covid-19 Mutual Aid, 2020) was our starting point for participant recruitment as it listed the details of over 4,000 groups at the time of data collection.

Depending on the contact details provided on this website, invitations to participate in the study were posted in Facebook groups, WhatsApp chats (with permission from the group administrator) or emailed to the group administrator for circulation to its wider membership. The median response time was 14 min. Approval for this project was granted by the first author's institutional ethics committee.

The total number of participants was 844. In line with other work on mutual aid groups (Jones et al., 2020; Wein, 2020), participants were overwhelmingly female (85%). The mean age of the sample was 48 years ($SD = 12.91$). Further demographic information about the sample is provided in Table 1.

A cross-sectional survey format was adopted. Data were collected online from the 29th April to the 17th May 2020. A nationwide “lockdown” was announced by the UK Prime Minister Boris Johnson on the 23rd March. Following widespread media coverage announcing the “end of lockdown” a few days before, on the 10th May, Johnson announced some very modest easing of lockdown restrictions: the most notable of these was encouraging those unable to work from home to return to work. The majority (67%) of participants completed the survey before any easing of lockdown restrictions had taken effect.

TABLE 1 Demographic and group-related characteristics of the sample

UK region	Percentage
Northern Ireland	3%
Wales	8%
Scotland	20%
Northwest England	8%
North East England	5%
West midlands	12%
East midlands	5%
Yorkshire and the Humber	3%
East of England	8%
South East England	13%
South West England	6%
Greater London	9%
Mutual aid group	
Newly formed	66%
Developed from a pre-existing organization	18%
Not sure	15%
Religious affiliation	
Yes	26%
No	74%
Socio-economic classification ^a	
Managerial, administrative, and professional	76%
Intermediate occupations	11%
Small employers or own account workers	8%
Lower supervisory and technical workers	2%
Semi-routine or routine occupations	4%

^aAssessed using National Statistics Socio-economic Classification (Rose & Pevalin, 2003).

6.2 | Measures

6.2.1 | Ingroup identification

We used the group level self-investment dimension of a multicomponent measure of ingroup identification (Leach et al., 2008) to assess the extent to which participants identified with their mutual aid group. Relationships were investigated between the group level self-definition dimension of this measure but not used in subsequent analyses (see S1 for an account of this procedure). Ten items were used in this analysis, which gauged three components of ingroup identification: satisfaction (e.g., “I am glad to be a member of my mutual aid group”), solidarity (e.g., “I feel a bond with members of my mutual aid group”) and centrality (e.g., “The fact that I am in my mutual aid group is an important part of my identity”). All responses were on a 7-point scale: 1 (strongly disagree) to 7 (strongly agree). This 10-item measure of ingroup identification showed good reliability ($\alpha = .93$) and we averaged responses to create a composite measure.

6.2.2 | Perceived support

Two items were used to measure the extent to which participants perceived and expected support from their group: "If I needed emotional support from the group, I could count on it" and "If I needed practical assistance from the group, I could count on it". They were asked to respond on a scale of 1 (strongly disagree) to 7 (strongly agree). The relationship between the two items was significant ($r = .58, p < .001, 95\% \text{ CI } [.52, .63]$) therefore a composite variable was created by averaging responses across the items.

6.2.3 | Perceived collective efficacy

The perceived collective efficacy of the mutual aid group was measured using two items: "I feel our mutual aid group is able to make a difference" and "As a group, we are able to organise ourselves effectively to help our community". Responses were on a 7-point scale: 1 (strongly disagree) to 7 (strongly agree). The relationship between the two items was significant ($r = .79, p < .001, 95\% \text{ CI } [.74, .83]$) therefore a composite variable was created by averaging responses across the items.

6.2.4 | Perceived group politicization

Two items were used to measure the perceived politicization of the mutual aid group – "My mutual aid group is political" and "We often discuss political issues amongst ourselves". Responses were on a 7-point scale: 1 (strongly disagree) to 7 (strongly agree). The relationship between the two items was significant ($r = .59, p < .001, 95\% \text{ CI } [.54, .65]$) therefore the items were averaged to create an overall score.

6.2.5 | Coping self-efficacy

This was measured with 13 items that tapped people's confidence in their ability to cope in challenging circumstances (Chesney, Neilands, Chambers, Taylor, & Folkman, 2006). Items gauged the extent to which they reported being able to use problem-focused coping (6 items, for example, "Break an upsetting problem down into smaller parts"), stop unpleasant thoughts and emotions (4 items, for example, "Make unpleasant thoughts go away") and seek out help from friends and family (3 items, for example, "Get friends to help you with the things you need") when they were having problems or things were not going well for them. Responses were on an 11-point scale: 0 ("cannot do at all"), 5 ("moderately certain can do"), and 10 ("certain can do"). The 13 items showed good reliability ($\alpha = .96$) and responses were summed to create a composite measure of coping self-efficacy.

6.2.6 | Anxiety

This was recorded using the Generalized Anxiety Disorder Assessment (GAD-7) (Spitzer, Kroenke, Williams, & Löwe, 2006). Participants were asked to state the extent to which they had been bothered by seven problems over the preceding two weeks (e.g., feeling nervous, anxious, or on edge; trouble relaxing, becoming easily annoyed or irritable). Responses were not at all, several days, more than half the days, or nearly every day – these were summed to give a composite score in which higher scores corresponded to greater anxiety.

7 | RESULTS

7.1 | Overview of analysis

We firstly examined simple correlations between ingroup identification, perceptions of the mutual aid group (perceived support, collective efficacy, and perceived group politicization), and coping self-efficacy and anxiety. To assess H₁, H₂, H₃, and H₄, we conducted two mediation analyses using PROCESS version 3.2 (Hayes, 2017) to determine whether perceived support and collective efficacy mediated the relationship between ingroup identification and coping self-efficacy, and between ingroup identification and anxiety. Lastly, addressing H₅ and H₆, we conducted moderated serial mediation analyses to investigate whether these relationships were affected by perceived group politicization.

7.2 | Correlational analysis

Simple correlations between study variables are displayed in Table 2. As can be seen, an increased perception of the mutual aid group as political was related to lower levels of ingroup identification, perceived support, and collective efficacy. It was also significantly and negatively related to coping self-efficacy and positively related to anxiety. Ingroup identification was positively and significantly related to perceived collective efficacy, coping self-efficacy, and perceived support. Anxiety was negatively and significantly related to ingroup identification. These correlations suggest that, among our sample at least, perceived group politicization was related to more negative group perceptions as well as poorer self-reported psychological outcomes. Ingroup identification was, as expected, consistently linked to positive group perceptions and better psychological outcomes.

7.3 | Mediation analysis

Prior to the mediation analyses, we inspected the data for accuracy and appropriateness for regression. Ten outliers were identified and removed from the dataset, using a Mahalanobis distance cut off value of 22.458, ($df = 6$, $p < .001$). Subsequent to this, the analyses were rerun on data including these outliers – this did not alter the results. No issues were identified in relation to normality or homoscedasticity.

We conducted two mediation analyses to determine whether the effect of ingroup identification on coping self-efficacy and anxiety was serially mediated by perceived support (stage-1 mediator) and collective efficacy (stage-2 mediator). Age and gender were included as covariates in both mediation models given previous research suggesting greater prevalence of anxiety among women and younger people during Covid-19 (e.g., Shevlin et al., 2020). We used model six in version 3.4 of Hayes' (2017) PROCESS macro. We calculated confidence intervals using bootstrapping with 5,000 samples in both analyses and all variables defining products were mean centred. The statistical model and unstandardized coefficients for coping self-efficacy and anxiety are displayed in Figures 1 and 2.

In line with H₁, and H₂, ingroup identification positively predicted both perceived support from the mutual aid group, ($B = .655$, 95% CI [LLCI = .637, ULCI = .757]) and collective efficacy ($B = .406$, 95% CI [.305, .436]). Perceived support was a positive predictor of collective efficacy ($B = .394$, 95% CI [.267, .403]) which then positively predicted coping self-efficacy ($B = .105$, 95% CI [.254, 5.980]). Perceived support was also significantly related to increased coping self-efficacy ($B = .160$, 95% CI [1.426, 6.529]). Age was a significant, positive, covariate of coping self-efficacy ($B = .251$, 95% CI [.428, .743]). Consistent with H₃, the total effect of ingroup identification on coping self-efficacy was significant ($B = .180$, 95% CI [2.927, 6.628]) however this effect became non-significant when perceived support and collective efficacy were included, indicating full mediation ($B = .005$, 95% CI [-2.511, 2.784]).

TABLE 2 Simple correlations between study variables

	1	2	3	4	5	6
1. Coping self-efficacy	-	-.57**	.22**	.25**	.20**	-.11*
2. Anxiety	-	-	-.08*	-.10*	-.02	.09*
3. Collective efficacy	-	-	-	.68**	.67**	-.23**
4. Perceived support	-	-	-	-	.65**	-.19**
5. Ingroup identification	-	-	-	-	-	-.13**
6. Perceived group pPoliticization	-	-	-	-	-	-

Note: ** $p < .001$, * $p < .05$.

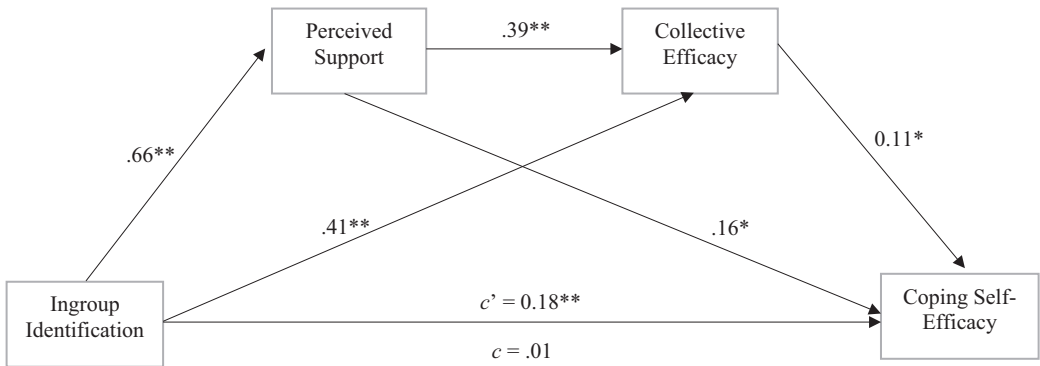


FIGURE 1 Serial mediation model (without covariates) for coping self-efficacy. c' is total effect of ingroup identification on coping self-efficacy; c is direct effect of ingroup identification on coping self-efficacy. ** $p < .001$, * $p < .05$ All coefficients are standardized

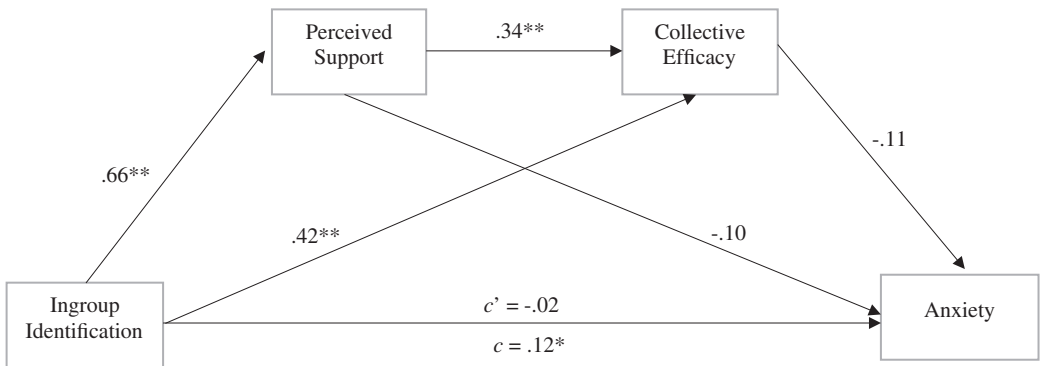


FIGURE 2 Serial mediation model (without covariates) for anxiety. c' is total effect of ingroup identification on anxiety; c is direct effect of ingroup identification on anxiety. ** $p < .001$, * $p < .05$ All coefficients are standardized

The same model was tested with anxiety as the outcome variable (see Figure 2). Similarly in line with H_1 , and H_2 , ingroup identification was significantly and positively related to both perceived support from the mutual aid group, ($B = .659$, 95% CI [LLCI = .638, ULCI = .756]) and collective efficacy ($B = .415$, 95% CI [.315, .445]). Perceived

support was positively related to collective efficacy ($B = .336$, 95% CI [.269, .402]). Perceived support and collective efficacy were not related to anxiety. Age was a significant, negative, covariate of anxiety ($B = -.108$, 95% CI [-1.136, -.079]). Counter to H_4 and the results of the mediation analysis for coping self-efficacy above, the total effect of ingroup identification on anxiety was negative and non-significant ($B = -.016$, 95% CI [-.412, .260]) but became positive and significant when the mediators were included ($B = .590$, 95% CI [.122, 1.078]). None of the indirect pathways were significant. Clearly, mediation could not be supported here given the lack of a significant total effect of ingroup identification.

7.4 | Exploratory analyses

We then conducted a moderated serial mediation analysis to examine to what extent the indirect effects of group identification on coping self-efficacy through perceived social support and collective efficacy depended on the extent to which the mutual aid group was perceived as political (H_5). In this model, ingroup identification was entered as the X variable, coping self-efficacy as the Y variable, perceived social support as the stage-one mediator, collective efficacy as the stage-two mediator, and perceived group politicization as the moderator. Age and gender were again included as covariates. We used model 85 in version 3.4 of the PROCESS macro (Hayes, 2017) to test this model. Figure 3 displays the conceptual model.

The moderated mediation analysis for coping self-efficacy was tested with several regression analyses. The analyses showed that coping self-efficacy was only predicted by perceived support ($B = 3.960$, $SE = 1.283$, 95% CI [1.47, 6.45]) and the covariate variable of age ($B = .577$, $SE = .082$, 95% CI [.41, .74]). The effect of the interaction between ingroup identification and perceived group politicization on coping self-efficacy was non-significant. All variables accounted for 13% of the variance in coping self-efficacy. The effect of the interaction between ingroup identification and perceived group politicization on perceived support was significant, $B = .084$, $SE = .022$, 95% CI [.040, .127]. Further, the effect of the interaction between ingroup identification and perceived group politicization on collective efficacy was also significant, $B = .065$, $SE = .017$, 95% CI [.0316, .099]. We then decided to further analyse the conditional indirect effects of ingroup identification on coping self-efficacy. Against our hypotheses that all indirect effects would be moderated by perceived group politicization, only the indirect effect of ingroup identification on coping self-efficacy through perceived support depended on the level of perceived group politicization, $index = .33$, 95% CI [.094, .672]. The difference in perceived group politicization was not significant for other indirect effects such as the effect of ingroup identification on coping self-efficacy via collective efficacy, $index = .19$, 95% CI [-.008, .423] and the serial multiple mediation, $index = .07$, 95% CI [-.003, .189].

Further slope analysis of the indirect effect (ingroup identification on coping self-efficacy through perceived support) by using one standard deviation above and below the mean value of perceived group politicization showed that at a high level of perceived group politicization, the effect ($B = 3.142$, $SE = 1.034$, 95% [1.139, 5.187]) was bigger than the effect at a low level of perceived group politicization ($B = 2.305$, $SE = .757$, 95% [.833, 3.829]). Figure 4 presents the unstandardized path coefficients of the indirect effects at both low (-1.265) and high (1.265) levels of perceived group politicization.

We finally tested the same moderated mediation model for anxiety (H_6). The analyses showed that anxiety was only predicted by ingroup identification ($B = .541$, $SE = .252$, 95% CI [.050, 1.032]) and the covariate variable of gender ($B = 1.024$, $SE = .482$, 95% CI [.046, 1.950]). The effect of the interaction between ingroup identification and perceived group politicization on anxiety was non-significant. All variables accounted for 9% of the variance in anxiety. As with coping self-efficacy, the effect of the interaction between ingroup identification and perceived group politicization on perceived support was significant, $B = .080$, $SE = .020$, 95% CI [.043, .122], as was the effect of this interaction on collective efficacy, $B = .054$, $SE = .018$, 95% CI [.022, .091]. Counter to H_6 , none of the indirect effects were moderated by perceived group politicization.

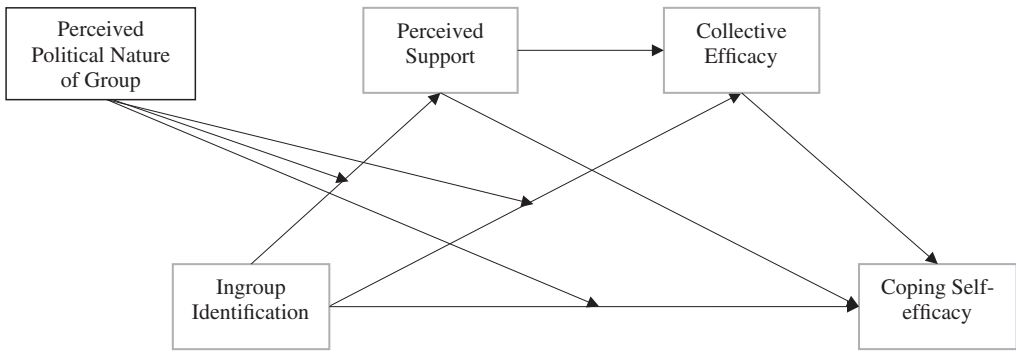
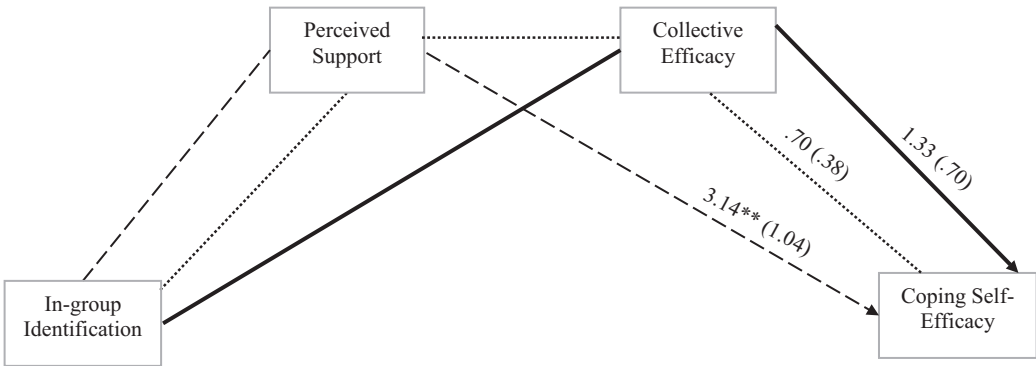


FIGURE 3 Moderated serial moderation model specifying the indirect effect of ingroup identification on coping-self-efficacy through perceived support and collective efficacy, moderated by the group's perceived group politicization. Age and gender have been controlled

High Perceived Group Politicisation



Low Perceived Group Politicisation

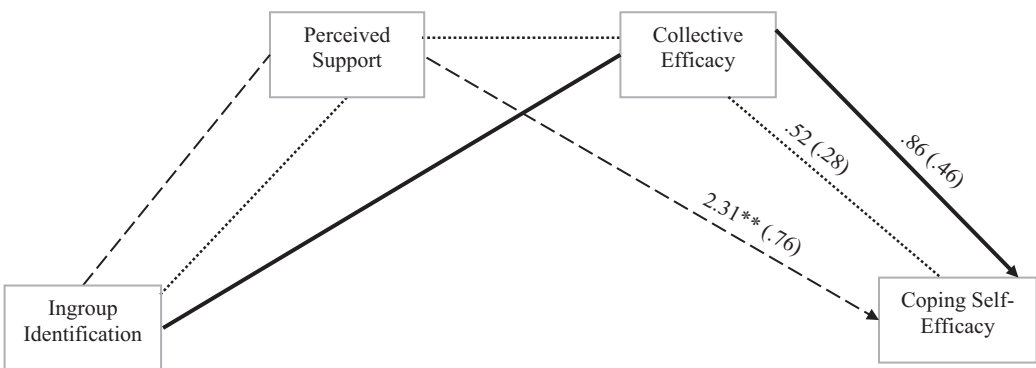


FIGURE 4 Unstandardized path coefficients of indirect effects in the serial mediation model (without covariates) for coping self-efficacy at high (+1 SD) and low (-1 SD) levels of perceived group politicization. Standard errors are provided in parentheses

8 | DISCUSSION

Results from the correlational analysis showed that ingroup identification was linked in general to more positive group perceptions as well as better self-reported psychological functioning (specifically, coping self-efficacy). On the other hand, perceived group politicization was related to lower levels of ingroup identification, more negative group perceptions, and poorer self-reported psychological functioning. Further, results indicated that, in line with previous “social cure” research and as expected, the effect of ingroup identification on coping self-efficacy was serially mediated by perceived support and collective efficacy. Further, perceived group politicization was a significant moderator of this indirect effect of identification on coping self-efficacy via perceived support. We found little evidence for “social cure” processes for anxiety; indeed, surprisingly we observed a positive relationship between ingroup identification and anxiety.

This study lends some support to recent research which has emphasized the relevance of ‘social cure’ processes to volunteering (Bowe et al., 2020; Gray & Stevenson, 2019), finding here that these positive effects are also observable during the uniquely stressful and challenging period of the pandemic. The study also extends work in this area by situating social cure dynamics within a political context (Wakefield et al., 2019); the results here are suggestive of an amplifying effect of understanding one's group as political on coping self-efficacy, itself a determinant in lower risk of psychological distress during stressful or challenging circumstances (e.g., Benight et al., 1999; Shahrour & Dardas, 2020). In particular, understanding one's mutual aid group as political strengthened the indirect effect of ingroup identification on coping self-efficacy via perceived support. Thus, for those who perceived their group as more political, ingroup identification led to higher coping self-efficacy through perceiving increased support from their fellow group members, as compared to those who perceived their groups to be less political. We did not find a significant moderated indirect effect of identification on coping self-efficacy through collective efficacy, surprisingly. These findings might be driven by increased expectation of reciprocal support based on shared political values tied to longer-term political goals, which could plausibly be dissociated from judgements on the group's actual effectiveness in achieving these goals. Further research is needed here to understand the ways in which perceived support and collective efficacy interact with perceived group politicization and impact more broadly on health and wellbeing.

The null results found here in relation to anxiety are counter to previous work which has linked group identification to improved mental health outcomes, including anxiety (Haslam et al., 2014). This could plausibly be explained by the inclusion of individual identification with the mutual aid group rather than the degree of group identification in the mutual aid group as the predictor variable (Häusser et al., 2020). Given previous work which has linked wellbeing impacts of volunteering to increased community identification (e.g., Bowe et al., 2020), it might also be related to our decision to focus on identification with the mutual aid group, rather than the wider community. A final alternative explanation is linked to the context in which data were collected – the first period of “lockdown” restrictions in the UK and consequently a period of great general uncertainty and anxiety. There might be something qualitatively different about the *experience* of anxiety (and consequently, the factors which might mitigate it) if it is a response which is shared by large amounts of the population, given the existential threat posed by a new virus against which there was as yet no vaccine. This may also be a potential explanation for the unexpected positive relationship we observed between ingroup identification and anxiety.

Ingroup identification was negatively related to perceived group politicization. Perceived group politicization was also related to lower coping self-efficacy and higher anxiety. Other work has found that members of mutual aid groups conceptualize their work as apolitical due to the potential to alienate potential or current members or cause conflict (O'Dwyer et al., 2020). It seems plausible that a majority of our participants here also took such a view of the work done by their groups, given the way in which perceived group politicization was related to less positive group perceptions and poorer self-reported psychological functioning.

In line with previous research on Covid-19 volunteering generally (Mak & Fancourt, 2020) and mutual aid specifically (Jones et al., 2020; Wein, 2020), it is apparent from these data that any prototypical “mutual aider” is most likely to be female. Given these findings, it is clear that Covid-19 should be understood as a gendered

phenomenon – it appears to have been women in the main who contributed to the community response. Further research should explore the reasons behind this but more importantly, it should also attend to the *consequences* of mutual aid for women's participation in political processes, particularly other forms of community organising and local government, to understand the wider societal impact. Policy makers should also recognize that the bulk of the community response to Covid-19, like other forms of unseen labour, has been shouldered by women. To “build back better”, there needs to be a shift in societal attitudes towards this “caring” labour, accompanied by legislative changes which would recognize and compensate it fairly (e.g., increasing carer support payments)

There are a number of limitations to the current study. First, and as mentioned above, despite previous research which has emphasized the importance of community identification to volunteering (e.g., Bowe et al., 2020), our survey did not include this measure. We made this decision as our focus was on identification with the mutual aid group, rather than identification with the broader community. However, identification with the mutual aid group is clearly not independent of community identification. The relationship between community identification and identification with the mutual aid group would be an interesting question for future research, particularly given the political basis of some groups which could potentially lead to a situation where these identities are perceived as incompatible (i.e., if the political views of the group are perceived to be in the minority in the community). Secondly, a degree of caution may be warranted because of the weaker correlation between the two indicators comprising perceived group politicization relative to other study variables. This may be due to the combination of items that could plausibly be conceptualized as having an effect/reflective or causal/formative relation (Bollen & Lennox, 1991; Diamantopoulos & Winklhofer, 2001) to the latent variable – perceived group politicization. Given that measures of internal consistency are unimportant for causal/formative indexes (Bollen & Lennox, 1991), following Diamantopoulos and Winklhofer (2001), we also assessed the external validity of the constituent indicators of perceived group politicization by examining their correlations with study variables. There were no significant differences between these correlations which suggested the quality of the indicators. Finally, we acknowledge shortcomings with the recruitment strategy and sample, particularly in relation to the over-representation of white, non-religious, and middle-class participants. We note here in particular the claim that mutual aid is a distinctive and commonplace practice of BIPOC and working-class communities (Zuri, 2020). Future research must take a broader view of the practice of Covid-19 mutual aid, particularly examining the ways in which religious and BIPOC communities have and continue to practice mutual aid.

In summary, and in line with previous research on the “social cure”, this study shows that group identification had positive consequences for coping self-efficacy (but not anxiety) among participants in Covid-19 mutual aid groups during the initial phase of the Covid-19 crisis, an effect which worked through increased perceived support from the group and perceptions of collective efficacy. Perceiving one's mutual aid group as political amplified the effect of group identification on coping self-efficacy via perceived support. Taken together, these results demonstrate the relevance of “social cure” processes to the mostly spontaneous development and mobilization of Covid-19 mutual aid groups and, as well as this, underscore the need for more work to elaborate the ways in which perceptions of one's group as political is related to both wellbeing and psychological outcomes *and* collective action and social change.

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CONFLICT OF INTEREST

There are no conflicts of interest associated with this work.

DATA AVAILABILITY STATEMENT

The data that support the findings of this study are available from the corresponding author upon reasonable request.

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REFERENCES

- Avanzi, L., Schuh, S. C., Fraccaroli, F., & van Dick, R. (2015). Why does organizational identification relate to reduced employee burnout? The mediating influence of social support and collective efficacy. *Work and Stress*, 29, 1–10.
- Bandura, A. (1977). Self-efficacy: Toward a unifying theory of behavioral change. *Psychological Review*, 84, 191–125.
- Bandura, A. (2006). Guide for constructing self-efficacy scales. In F. Pajares & T. Urdan (Eds.), *Self-efficacy beliefs of adolescents* (pp. 307–337) IAP.
- Benight, C. C., Freyaldenhoven, R. W., Hughes, J., Ruiz, J. M., Zoschke, T. A., & Lovallo, W. R. (2000). Coping self-efficacy and psychological distress following the Oklahoma City bombing. *Journal of Applied Social Psychology*, 30, 1,331–1,344.
- Benight, C. C., Swift, E., Sanger, J., Smith, A., & Zeppelin, D. (1999). Coping self-efficacy as a mediator of distress following a natural disaster. *Journal of Applied Social Psychology*, 29, 2,443–2,464.
- Bollen, K., & Lennox, R. (1991). Conventional wisdom on measurement: A structural equation perspective. *Psychological Bulletin*, 110, 305–314. <https://doi.org/10.1037/0033-2909.110.2.305>
- Bowe, M., Gray, D., Stevenson, C., McNamara, N., Wakefield, J. R., Kellezi, B., ... Costa, S. (2020). A social cure in the community: A mixed-method exploration of the role of social identity in the experiences and well-being of community volunteers. *European Journal of Social Psychology*. 50(7), 1523–1539. <https://doi.org/10.1002/ejsp.2706>
- Craig, L., & Churchill, B. (2021). Working and caring at home: Gender differences in the effects of covid-19 on paid and unpaid labor in Australia. *Feminist Economics*, 27(1–2), 310–326. <https://doi.org/10.1080/13545701.2020.1831039>
- Chesney, M. A., Neilands, T. B., Chambers, D. B., Taylor, J. M., & Folkman, S. (2006). A validity and reliability study of the coping self-efficacy scale. *British Journal of Health Psychology*, 11, 421–437. <https://doi.org/10.1348/135910705X53155>
- Covid-19 Mutual Aid. (2020). *Covid Mutual Aid*. Retrieved May 15, 2020, from Covid Mutual Aid: <https://covidmutualaid.org/>
- DeMarco, T. C., & Newheiser, A. (2019). When groups do not cure: Group esteem moderates the social cure effect. *European Journal of Social Psychology*, 49, 1,421–1,438. <https://doi.org/10.1002/ejsp.2594>
- Diamantopoulos, A., & Winklhofer, H. M. (2001). Index construction with formative indicators: An alternative to scale development. *Journal of Marketing Research*, 38(2), 269–277. <https://doi.org/10.1509/jmkr.38.2.269.18845>
- Fancourt, D., Steptoe, A., & Bu, F. (2020). Trajectories of anxiety and depressive symptoms during enforced isolation due to COVID-19: Longitudinal analyses of 36,520 adults in England. *MedRxiv* <https://doi.org/10.1101/2020.06.03.20120923>
- Felici, M. (2020). *Social capital and the response to COVID-19*. Retrieved May 15, 2020, from Bennett Institute for Public Policy: <https://www.bennettinstitute.cam.ac.uk/blog/social-capital-and-response-covid-19/>
- Gray, D., & Stevenson, C. (2019). How can “we” help? Exploring the role of shared social identity in the experiences and benefits of volunteering. *Journal of Community & Applied Social Psychology*, 30, 1–13. <https://doi.org/10.1002/casp.2448>
- Haslam, C., Cruwys, T., & Haslam, S. A. (2014). “The ‘we’s’ have it”: Evidence for the distinctive benefits of group engagement in enhancing cognitive health in ageing. *Social Science and Medicine*, 120, 57–66. <https://doi.org/10.1016/j.socscimed.2014.08.037>
- Haslam, S. A., Jetten, J., Postmes, T., & Haslam, C. (2009). Social identity, health and well-being: An emerging agenda for applied psychology. *Applied Psychology*, 58, 1–23. <https://doi.org/10.1111/j.1464-0597.2008.00379.x>
- Häusser, J., Junker, N. M., & van Dick, R. (2020). The how and the when of the social cure: A conceptual model of group- and individual-level mechanisms linking social identity to health and well-being. *European Journal of Social Psychology*, 50, 721–732. <https://doi.org/10.1002/ejsp.2668>
- Hayes, A. F. (2017). *Introduction to mediation, moderation, and conditional process analysis: A regression-based approach*. London: Guildford Publicationsm.
- Ipsos MORI. (2020). *Women more likely than men to have tried to help others amid COVID-19 outbreak*. Retrieved from Ipsos MORI: <https://www.ipsos.com/ipsos-mori/en-uk/covid-19-coronavirus-outbreak-crisis-polls-community-support-help-women-men>
- Jetten, J., Haslam, S. A., Cruwys, T., Greenaway, K. H., Haslam C., & Steffens, N. K. (2017). Advancing the social identity approach to health and well-being: Progressing the social cure research agenda: Applying the social cure. *European Journal of Social Psychology*, 47, 789–802. <https://doi.org/10.1002/ejsp.2333>
- Jones, M., Beardmore, A., Biddle, M., Gibson, A., Ismail, S. U., McClean, S., & White, J. (2020). A cross-sectional study of neighbour support in a major UK urban area during the COVID-19 lockdown [version 1; peer review: 2 approved]. *Emerald Open Research*, 2, 37. <https://doi.org/10.35241/emeraldopenres.13731.1>
- Junker, N. M., van Dick, R., Avanzi, L., Häusser, J. A., & Mojzisch, A. (2019). Exploring the mechanisms underlying the social identity–ill-health link: Longitudinal and experimental evidence. *British Journal of Social Psychology*, 58(4), 991–1007. <https://doi.org/10.1111/bjso.12308>
- Kinna, R. (1995). Kropotkin's theory of mutual aid in historical context. *International Review of Social History*, 40, 259–283. <https://doi.org/10.1017/s0020859000113227>

- Leach, C. W., van Zomeren, M., Zebel, S., Vliek, M. L., Pennekamp, S. F., Doosje, B., & Ouwerkerk, J. W. (2008). Group-level self-definition and self-investment: A hierarchical (multicomponent) model of in-group identification. *Journal of Personality and Social Psychology*, 95, 144–165. <https://doi.org/10.1037/0022-3514.95.1.144>
- Local Government Association. (2018). *Local government funding: Moving the conversation on (Finance)*. https://www.local.gov.uk/sites/default/files/documents/5.40_01_Finance%20publication_WEB_0.pdf
- Mak, H., & Fancourt, D. (2020). Predictors of engaging in voluntary work during the Covid-19 pandemic: Analysis of data from 31,890 adults in the UK. <https://doi.org/10.31235/osf.io/er8xd>
- Mao, G., Drury, J., Fernandes-Jesus, M., & Ntontis, E. (2020). Therapeutic alliance: How participation in Covid-19 mutual aid groups affects subjective wellbeing and how political identity moderates these effects. *SocArXiv*. <https://doi.org/10.31235/osf.io/x9csf>
- McNamara, N., & Parsons, H. (2016). “Everyone here wants everyone else to get better”: The role of social identity in eating disorder recovery. *British Journal of Social Psychology*, 55, 662–682. <https://doi.org/10.1111/bjso.12161>
- Muldoon, O. T., Acharya, K., Jay, S., Adhikari, K., Pettigrew, J., & Lowe, R. (2017). Community identity and collective efficacy: A social cure for traumatic stress in post-earthquake Nepal. *European Journal of Social Psychology*, 47, 904–915. <https://doi.org/10.1002/ejsp.2330>
- O'Dwyer, E., Beascochea-Seguí N., & Silva Souza, L. G. (2020). *Rehearsing post-Covid-19 citizenship: Social representations and social practices in UK mutual aid groups*.
- Rose, D., & Pevalin, D. J. (2003). The NS-SEC explained. *A researcher's guide to the National Statistics Socio-economic Classification*, 28–43.
- Serafini, G., Parmigiani, B., Amerio, A., Aguglia, A., Sher, L., & Amore, M. (2020). The psychological impact of COVID-19 on the mental health in the general population. *QJM: An International Journal of Medicine*, 113(8), 531–537. <https://doi.org/10.1093/qjmed/hcaa201>
- Shahrour, G., & Dardas, L. A. (2020). Acute stress disorder, coping self-efficacy and subsequent psychological distress among nurses amid COVID-19. *Journal of Nursing Management*, 28(7), 1686–1695. <https://doi.org/10.1111/jonm.13124>
- Singh Dhillon, A. (2020). The politics of Covid-19: The frictions and promises of mutual aid. Retrieved from Red Pepper: <https://www.redpepper.org.uk/the-politics-of-covid-19-the-frictions-and-promises-of-mutual-aid/>
- Sitrin, M., & Colective Sembrar. (2020). *Pandemic solidarity: Mutual aid during the Covid-19 crisis*. London: Pluto Press.
- Shevlin, M., Nolan, E., Owczarek, M., McBride, O., Murphy, J., Gibson, M. J., ... Bentall Richard, P. (2020a). COVID-19-related anxiety predicts somatic symptoms in the UK population. *British Journal of Health Psychology*, 25(4), 875–882. <https://doi.org/10.1111/bjhp.12430>
- Spitzer, R. L., Kroenke, K., Williams, J. B., & Löwe, B. (2006). A brief measure for assessing generalized anxiety disorder: The GAD-7. *Archives of Internal Medicine*, 166, 1,092–1,097. <https://doi.org/10.1001/archinte.166.10.1092>
- Tiratelli, L., & Kaye, S. (2020). *Communities vs. coronavirus: The rise of mutual aid*. London: New Local Government Network.
- van Dick, R., & Haslam, S. A. (2012). Stress and well-being in the workplace: Support for key propositions from the social identity approach. In J. Jetten, C. Haslam, & S. A. Haslam (Eds.), *The social cure: Identity, health and well-being* (pp. 175–194). Psychology Press.
- Vagni, M., Maiorano, T., Giostra, V., & Pajardi, D. (2020). Coping with covid-19: Emergency stress. *Secondary Trauma and Self-Efficacy in Healthcare and Emergency Workers in Italy*. *Frontiers in Psychology*, 11. <https://doi.org/10.3389/fpsyg.2020.566912>
- Wakefield, J. R., Bowe, M., Kellezi, B., McNamara, N., & Stevenson, C. (2019). When groups help and when groups harm: Origins, developments, and future directions of the “social cure” perspective of group dynamics. *Social and Personality Psychology Compass*, 13, e12440. <https://doi.org/10.1111/spc3.12440>
- Wein, T. (2020). *How mutual aid might change Britain*. Retrieved July 20, 2020, from dignity project: <https://dignityproject.net/wp-content/uploads/2020/07/New-Solidarity-How-Mutual-Aid-might-change-Britain.pdf>
- Xue, B., & McMunn, A. (2021). Gender differences in unpaid care work and psychological distress in the UK Covid-19 lockdown. *PLoS One*, 16(3), e0247959. <https://doi.org/10.1371/journal.pone.0247959>
- Zuri, E. K. (2020). Why we must remember the Black roots of mutual aid groups. *Gal-Dem*. <https://gal-dem.com/weve-been-organising-like-this-since-day-why-we-must-remember-the-black-roots-of-mutual-aid-groups/>

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