Harnessing behavioural science in public health campaigns to maintain ‘social distancing’ in response to the COVID-19 pandemic: key principles

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INTRODUCTION

Coronavirus Disease 2019 (COVID-19), like Middle East respiratory syndrome (MERS) and severe acute respiratory syndrome (SARS), is an infection arising from a coronavirus. The COVID-19 pandemic is unprecedented in recent times in terms of the global spread of infection and the resultant morbidity, mortality and burden on health systems.1 2 In the absence of a vaccine, reducing transmission of the COVID-19 virus requires rapid and extensive behaviour change to enact protective behaviours3 and ‘social distancing’ across whole populations. Although ‘social distancing’ is the current most used term, it actually refers to maintaining physical separation by reducing the number of times people come into close contact with each other across whole populations.4 Social distancing applies regardless of infection status and is thus distinctive from quarantine or the isolation of those with suspected or diagnosed infection, which is also an important element of infection control.5 6 Governments across the world are implementing a diverse range of interventions to promote adherence to social distancing measures, which include elements of education, persuasion, incentivisation, coercion, environmental restructuring, restriction and enablement.7 8 Interventions have been developed rapidly and could not be informed directly by evidence, given the novelty of the virus and rapid spread of the pandemic.9 Despite this lack of direct evidence, a body of behavioural science exists which can usefully inform the current interventions and promote adherence to these restrictive measures. This body of science has been developed through the study of other infections (including other coronaviruses such as MERS and SARS), other areas of health and other areas of behaviour. This body of science suggests a number of principles which could ensure that interventions are more likely to achieve their intended outcomes and less likely to generate unintended harmful consequences.

As a group of behavioural and social scientists who have shared their advice with government through the UK’s Government Office for Science, we have collaborated to develop a series of principles to inform interventions to promote whole population adherence to social distancing measures. These were informed by members’ expertise and knowledge of existing theory and evidence, rather than by any formal review of the literature.

Key principles

1. Clear and specific guidance: Information will be necessary, but insufficient, for whole population behaviour change, which also requires motivation and the opportunity to implement change.10 Nonetheless, information is important and must provide clear and specific guidance for exactly what behaviour individuals should adopt to implement social distancing.11

2. ‘Protect each other’ messages are promising, particularly when building on messages promoting collective identity and supportive social norms (see point 3). Messages promoting care for others are rooted in the psychology of social identity,12 social influence,13 and moral behaviour,14 with evidence of benefits in the COVID-19 and other health contexts.15 16 ‘Protect each other’ messages should stress how desired behaviours benefit the group and protect its most vulnerable members, including those we love. This will be enhanced by concrete examples, powerful images and the actual voices of those we need to protect (loved ones, the vulnerable, healthcare systems and workers) linked to clear, specific advice on how to implement social distancing. Images and accounts of widespread population adherence (rather than examples of non-adherence) can persuade ‘conditional co-operators’ (those whose willingness to help others is conditional on being aware of others doing so) to over-ride individual self-interest and to act in the collective interest.17 18 In communicating such messages, it is important to recognise variation across population groups, for example by age, socio-economic status and ethnic group, in terms of what is given up when adhering to social distancing,19 which might inform segmented communication and enablement strategies (see principle 8 below). In contrast, ‘Protect yourself’ messages will have limited overall impact among the general public because many consider themselves at low risk of severe consequences from COVID-19 infection and are unlikely to be persuaded otherwise.20 21 This may be different for those with specific vulnerabilities who are asked to ‘shield’ themselves for extended periods of time.

3. ‘Stand together’ messages emphasise how our sense of self is rooted in our proud membership of groups such as families, neighbourhoods, communities and nation, linked to sense of duty, solidarity and inclusion. Messages should come from voices representative of and trusted by the group rather than those perceived as partisan or self-interested.22 Messages may be tailored to appeal to specific sub-groups based on gender, age or regional, ethnic or cultural affiliations,23 drawing on family and faith/interfaith voices particularly for some class and ethnic groups.24 In doing so, it is critical to draw on voices that are appropriate to the group in
Avoid authoritarian messages: Messages should be clear, specific and calm advice, helping households to plan together how to commit to social distancing while still accessing income, food, social networks and communication and exercise. Circumstances will evolve, so households should be encouraged to review plans regularly. Planning materials should be provided in paper copy or via online or smartphone app support.

8. ‘Make it possible’ messages: Reward, incentives and enablement tend to be more effective influences on this kind of behaviour than punishment, disincentives or castigation. Since behaviour is influenced by social context, messaging will be more persuasive and effective if there is a clearly communicated offer of timely and generous support in terms of income, employment rights and food, online access to social networks, communication, entertainment, education, and parenting and mental health support, and opening up more green space to public access. Such support needs to be long-term to support maintenance of behaviours and embrace progressive universalism—open to all but aiming to maximise benefits for the most disadvantaged. Reducing physical barriers to social distancing will increase adherence and reduce the distrust, distress and mental ill health arising from them.

9. Style of messaging: Messages should be communicated via professionally designed and appealing mass and social media campaigns. Campaigns should also engage with media outlets to provide trusted spokespeople and to promote responsible coverage (eg, by giving visibility to collective adherence and not to non-adherence or social divisions).

10. Theory of change: Each campaign should be considered an intervention with campaign briefs including the following: a defined behavioural aim (eg, under ‘consumer objectives’), message (eg, under ‘focal insight’), message source/voice and medium/method (eg, under ‘deliverables’), target group (eg, under ‘target audience’) and expected reach and indicators (eg, under ‘objectives/outcomes’). Each brief should include in its ‘design principles’ a theory of change of how campaign activities aim to generate behavioural impacts. Campaigns should include under ‘support/evidence’ what evidence and principles of behaviour change are being used. Individual interventions should form part of a coherent overall programme with consistency of information. Campaigns should also consider the potential for unintended consequences using existing frameworks to minimise these possibilities.

11. Co-design: Interventions should be co-designed and piloted with relevant audience groups using a range of methods including online engagement and ethnography, and virtual focus groups. They should be evaluated using pre-agreed indicators of delivery, reach and impact, and the evaluation should feed back into future communications. Polling and quantitative and qualitative research data should be used to assess the impact of the overall communications programme on trends in, for example, a) sense of collective identity, b) sense of duty to care to others, c) motivation for social distancing, d) behaviour planning and e) behaviour change.

CONCLUSION
We have drawn on our knowledge of behavioural and social science to outline key principles which can be used to inform the development of behavioural and social interventions for the response to the COVID-19 pandemic, to maximise their potential and minimise the risk of unintended harms. These principles do not remove the need for empirical formative research with relevant communities to inform interventions or for interventions to be pre-tested prior to implementation and evaluated once implemented. However, we hope that they provide a helpful means of ensuring that such efforts focus on the best candidate interventions.

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