NOTES & COMMENTS

Under the spell of SARS-CoV-2: A closer look at the sociopolitical dynamics

Neha Khetrapal1 · Gunjan Khera2

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Abstract Sitting on the fine line between pathogen ‘transmissibility’ and ‘severity’, the Behavioural Immune System (BIS) is responsible for activating behaviours that minimise infection risks and maximise fitness. To achieve self-preservation, the BIS also fuels social and political attitudes. We aim to explain societal changes that may be sparked by COVID-19 by highlighting links between human evolutionary history and our psychological faculties mediated by the BIS.

Keywords Social and political changes · Pandemic · Self-preservation · Authoritarianism

1 Introduction

Beyond the immediate health risks, the social and political consequences associated with the spread of SARS-CoV-2 are of great importance.1 As researchers interested in cross-cultural political psychology, we want to explain the rise of authoritarianism, characterised by hostility towards other social groups and ethnocentrism, across the world in the wake of COVID-19. The aim is to provide an explanation for the global rise of conservative attitudes. Acknowledging that the current situation is but a snapshot in a still evolving crisis, these explanations are intended as an initial

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Neha Khetrapal
nkhetrapal@jgu.edu.in

1 Jindal Institute of Behavioural Sciences, O.P. Jindal Global University, Sonipat, Haryana, India

2 College of Humanities and Social Sciences, Department of Cognitive Sciences, United Arab Emirates University, Al Ain, UAE
social scientific cut rather than a complete evaluation of the social consequences of the pandemic.

Compared to the other recent SARS outbreak in 2003, COVID-19 is on a different scale. Thus far, the pandemic has had the effect of strengthening national borders and concomitant anti-foreign sentiments, which the world was already witnessing on account of Brexit and as part of the US-American executive policies. Similar social and political trends were also observed in Asia, where there had been reports of rising nationalism during the first half-year of the pandemic. Given these trends, is it reasonable to ask whether the global population will eventually find itself in a politically and socially closed-off world as a consequence of COVID-19?

2 Ecological forces and us

In answering this question, we first highlight the pathogen avoidance responses that humans have evolved in the course of a long evolutionary history. COVID-19 is a rich ground for activating these self-protective responses. Throughout the human evolutionary trajectory, pathogen stress created strong survival pressures culminating in the development of the immune system to ward off diseases (Kasahara, 2011).

The immune system comprises the ‘behavioural immune system’ (BIS) and the ‘physiological immune system’ (PIS). The former entails a complex set of evolved cognitive and behavioural mechanisms. These psychological mechanisms work to detect visible signs of infection (e.g., signs of pustules) and accelerate adaptive responses (e.g., avoidance) to pre-empt the negative impact of pathogen stress even before an infection has struck (Schaller & Park, 2011). While the PIS serves as the first line of defence against an infection, the BIS is activated by ‘visible’ cues, e.g., specific facial anomalies associated with infections (Ryan et al., 2012). Often, these overt cues do not perfectly predict who carries a disease. As such, the BIS may ‘overreact’ and lead to false positive errors. Therefore, the activation of the BIS can have far-reaching implications for a host of psychological functions, including political preferences (Billingsley et al., 2018) and social relationships (Ji et al., 2019).

At any rate, the activation of the BIS, including any ‘overreaction’, is considered adaptive, as failing to detect a potential pathogen cue can have dire consequences (Murray & Schaller, 2016). The implication is that the PIS takes a ‘backseat’ in situations where physiological immunity does not yet exist or is likely to be suppressed (see, Miller & Maner, 2011), which is the case with SARS-CoV-2. In such cases, the BIS takes the ‘driving seat’ in our self-defence mechanisms.

3 Extending the ecological explanation

A radical component of the BIS mechanism involves the exclusion of members of ethnic out-groups. As humans developed an exquisite immune system that is well-equipped to combat pathogens prevalent among the members of a particular social group or in-group, it proved adaptive to avoid any foreign or ‘exotic’ pathogens carried by out-group members. These evolved behavioural mechanisms, apt
for pre-industrial, small-scale living conditions, are ill suited for dealing with the infectious threats of the modern world. This is because evolutionary forces lag behind the pace of industrialisation and have failed to fashion pathogen avoidance mechanisms that could be better suited to our contemporary connected world (e.g., Ackerman et al., 2020).

At the group or societal level, pathogens have been found to co-vary globally with authoritarianism and exclusionary attitudes towards ethnic out-group members, because people prefer authoritative leaders to orchestrate collective social action in the service of ‘group survival’ (refer, Fincher et al., 2008; Gelfand et al., 2011). In line with this theorising, Hartman et al. (2020) documented a direct link between the perceived threat of COVID-19 and authoritarian and anti-immigrant attitudes based on a cross-sectional representative survey in the UK in March 2020. Previous studies show that people in the United States exhibited exclusionary attitudes towards immigrants after simply reading about the health risks associated with swine flu during the HINI pandemic (Huang et al., 2011) and the 2014 Ebola outbreak (Kim et al., 2016).

4 The proposal

We invoke these theoretical premises and empirical findings to explain the rise of a pandemic of ‘authoritarianism’ and ‘ethnocentrism’ in tandem with COVID-19. The novelty of our proposal lies in the trade-off between virulence and transmissibility of SARS-CoV-2. The either/or relationship of virulence and transmissibility has important implications for the activation of the BIS and the ensuing social and political upheavals.

Viruses tread a fine line between transmissibility and severity (see, Asai & Nishiura, 2017). Those that are too virulent will incapacitate or even kill infected hosts (e.g., Ebola), which limits their ability to infect others in the long run. Those that are less harmful, on the other hand, will be successful in making copies of themselves and increase the scope of their transmissibility, which is likely to be the pertinent scenario with the impact of SARS-CoV-2 on otherwise ‘healthy’ hosts. The latter case also serves as an effective ground for the activation of BIS, while the former triggers the PIS.

We therefore argue that the spread of SARS-CoV-2 is likely to be associated with the development of particular socio-political ideologies that hinge on the activation of the BIS for redrawing social boundaries between in- versus out-groups in our complex world. Whether this will lead to novel kinds of ‘ethno-phobia’ or even ‘theophobia’ remains to be seen. Alternatively, we may witness new cooperation across societies concomitant with a weakening of the ‘us’ versus ‘them’ divide; a strategy that requires the inclusion of ‘everyone’ in a unified global attempt to fight the pathogen. Until the pandemic descends from its current global peak, we hope that this commentary serves as a ‘turntable’ for speculating
about its political and social aftermath, and that this will involve the cooperation of researchers from a variety of disciplines.

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