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Whose Advice is Credible?: Claiming Lay Expertise in a Covid-19 Online Community --Manuscript Draft--

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Abstract:	<p>During the initial months of the Covid-19 pandemic, credentialed experts—scientists, doctors, public health experts, and policymakers—as well as members of the public and patients faced radical uncertainty. Knowledge about how Covid-19 was spread, how best to diagnose the disease, and how to treat infected patients was scant and contested. Despite this radical uncertainty, however, certain users of Covid-19 Together, a large online community for those who have contracted Covid-19, were able to dispense advice to one another that was seen as credible and trustworthy. Relying on Goffman's dramaturgical theory of social interaction, we highlight the performative dimension of claims to lay expertise to show how credibility is accrued under conditions of radical uncertainty. Drawing on four months of data from the forum, we show how credible performances of lay expertise necessitated the entangling of expert discourse with illness experience, creating a hybrid interlanguage. A credible performance of lay expertise in this setting was characterized by users' ability to switch freely between personal and scientific registers, finding and creating resonances between the two. To become a credible lay expert on this online community, users had to learn to ask questions and demonstrate a willingness to engage with biomedical knowledge while carefully generalizing their personal experience.</p>
Response to Reviewers:	<p>Dear editor and reviewers,</p> <p>We thank you once again for taking time to read and provide feedback on our paper. We have made the two requested revisions to the text.</p> <p>First, we have revisited the literature review and edited it for concision. 500 words have been eliminated (from 2592 words to 2092 words), and the section should be comparable in length to the data and methods section (also about 2000 words). We hope this length is appropriate.</p> <p>Second, we have revised the conclusion to integrate our use of Goffman in discussing the results of our analysis. We also point briefly to how a dramaturgical approach can be used to further understand the crisis of expertise, by examining face-work and maintaining lines of communications across social and political divides, and the stigma</p>

and spoiled identity of credentialed experts.

Whose Advice is Credible?: Claiming Lay Expertise in a Covid-19 Online Community

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Abstract: During the initial months of the Covid-19 pandemic, credentialed experts—scientists, doctors, public health experts, and policymakers—as well as members of the public and patients faced radical uncertainty. Knowledge about how Covid-19 was spread, how best to diagnose the disease, and how to treat infected patients was scant and contested. Despite this radical uncertainty, however, certain users of *Covid-19 Together*, a large online community for those who have contracted Covid-19, were able to dispense advice to one another that was seen as credible and trustworthy. Relying on Goffman’s dramaturgical theory of social interaction, we highlight the performative dimension of claims to lay expertise to show how credibility is accrued under conditions of radical uncertainty. Drawing on four months of data from the forum, we show how credible performances of lay expertise necessitated the entangling of expert discourse with illness experience, creating a hybrid interlanguage. A credible performance of lay expertise in this setting was characterized by users’ ability to switch freely between personal and scientific registers, finding and creating resonances between the two. To become a credible lay expert on this online community, users had to learn to ask questions and demonstrate a willingness to engage with biomedical knowledge while carefully generalizing their personal experience.

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Whose Advice is Credible?: Claiming Lay Expertise in a Covid-19 Online Community

Abstract: During the initial months of the Covid-19 pandemic, credentialed experts—scientists, doctors, public health experts, and policymakers—as well as members of the public and patients faced radical uncertainty. Knowledge about how Covid-19 was spread, how best to diagnose the disease, and how to treat infected patients was scant and contested. Despite this radical uncertainty, however, certain users of *Covid-19 Together*, a large online community for those who have contracted Covid-19, were able to dispense advice to one another that was seen as credible and trustworthy. Relying on Goffman’s dramaturgical theory of social interaction, we highlight the performative dimension of claims to lay expertise to show how credibility is accrued under conditions of radical uncertainty. Drawing on four months of data from the forum, we show how credible performances of lay expertise necessitated the entangling of expert discourse with illness experience, creating a hybrid interlanguage. A credible performance of lay expertise in this setting was characterized by users’ ability to switch freely between personal and scientific registers, finding and creating resonances between the two. To become a credible lay expert on this online community, users had to learn to ask questions and demonstrate a willingness to engage with biomedical knowledge while carefully generalizing their personal experience.

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1. Introduction

The initial months of the Covid-19 crisis in the United States were characterized by radical uncertainty about the outbreak, coupled with a tendency to doubt and mistrust public health experts. As scientists, doctors, and policymakers struggled to develop effective strategies to contain disease spread, develop diagnostic criteria, and identify treatment options for the disease, their credibility suffered. In this article, we seek to throw some light on the intricate relations between uncertainty and credibility by examining conversations on *Covid-19 Together*, an online community started in the very first months of the pandemic in the US, where those who tested positive for Covid-19, were presumed positive, or had family members who had Covid-19, share their experiences. We examine whose advice is deemed credible on this online forum and what determines this. As members of this forum grapple with existential uncertainty, feeling that their very lives are in danger, one might have expected them to endow authoritative experts—like Anthony Fauci or their doctor—and biomedical science with a great deal of credibility. Conversely, one might have thought that uncertainty would lead them to doubt all official experts, anoint their would-be-experts, and see as credible only fellow sufferers. Yet, we find that neither is quite the case. We will show that credible advice on *Covid-19 Together* was characterized by linking shared illness experience with resonant biomedical knowledge through a hybrid interlanguage. Attempts to

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4 provide advice by merely asserting what “the science” says or by relying purely on personal
5 experience were deemed not as credible.
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8 This finding accords with the overall balance of the research on “lay expertise” and patient
9 communities. Much of this research focused on situations of heightened uncertainty, either because
10 the disease in question was new, like HIV/AIDS, or because it was a contested or an “orphan”
11 illness that the medical establishment has ignored. Sociologists have shown that in such situations,
12 the uncertainty surrounding disease and illness created an opening for patients to turn themselves
13 into credible “lay experts.” ACT-UP activists, for example, turned themselves into lay experts and
14 gained credibility by learning the language and protocols of scientific research, but they could only
15 do so because they acted as representatives of an affected group whose illness experiences they
16 shared (Epstein 1995). Similarly, studies of “orphan illnesses” questioned the “deficit model” of
17 the public’s understanding of science (Kerr et al. 1998), and showed how illness experiences can
18 be combined with self-education to credibly contribute to expert understandings of health and
19 illness (Prior 2003). Online patient communities—forums, Wikis, blogs, Facebook groups—in
20 particular have become a popular setting for research on lay expertise. Studies have shown how
21 online communities serve as sites of shared commiseration of illness experience, focusing on the
22 subjective experiences of illness, medical neglect or maltreatment, and on coping strategies for
23 managing life with the disease (e.g. Radin 2006; Barker 2008; Ross et al. 2018; Kempner and
24 Bailey 2019; Petersen et al. 2020; Pierret 2003).
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39 Note, however, that we spoke above about credibility as something that forum members
40 “endow” claims with. Credibility is a relationship between performer and audience. It is built on
41 stage in real time, and it is highly dependent on temporal variables—sequence, speed, interval,
42 duration—to achieve resonance with the audience. We seek to add to the literature on lay expertise
43 and patient communities by drawing on Goffman’s (1959) dramaturgical theory of social
44 interaction, and focusing on the performative aspect of expertise and advice-giving (Hilgartner
45 2000; Carr 2010). Attention to this performative aspect can shed additional light on why, in
46 situations of radical uncertainty, credibility depends on a resonant interlanguage combining
47 biomedical knowledge with shared personal experiences. While the literature on lay expertise has
48 convincingly demonstrated that biomedical knowledge can be transformed—willingly or not—by
49 incorporating the shared experiences of lay patients, it is important to recognize that in situations
50 of heightened uncertainty this sharing of experiences, “illness identity,” is not a given. Patients do
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4 not know yet whether they are suffering from “the same” condition. This is particularly true for
5 complex syndromes where there are multiple symptoms and potential diagnoses, requiring patients
6 to learn to recognize that they are “similar-but-different” to each other (Barker 2009, 64). In such
7 situations, patients would not automatically endow with credibility one who speaks to them purely
8 as a fellow sufferer. Hence, the obverse is no less important: biomedical knowledge can be a crucial
9 resource that allows patients to recognize that their illness experiences are similar, valid, and not
10 just “in their heads”. Credible performances are thus resonant also because *they create their own*
11 *audience*. They need to persuade audience members of the similarity and objectivity of their
12 situation for the constituted audience to reciprocate by endowing the performance with subjective
13 credibility. Lay expertise in a situation of radical uncertainty is thus deemed credible if claimants
14 can create a convincing hybrid interlanguage. This is not, however, a recipe that one can follow at
15 their leisure. It is a performance that demands attention to temporality. We will show that there
16 was a certain *sequence* by which the credibility of advice-giving was constructed. Users could not
17 immediately present themselves as “lay experts.” They had to begin by asking questions,
18 establishing in this way their bona fides status as lay patients. They followed this up, however, by
19 engaging with biomedical knowledge, and carefully, qualifiedly, emphasizing what resonated with
20 their personal experience.

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22 In this study, we ask: (1) *What characterizes credible as against non-credible advice on*
23 *Covid-19 Together?* and (2) *What is the sequence by which the ability to provide credible advice*
24 *is acquired on this online community?* We begin with a review of the literature on lay expertise,
25 credibility, and uncertainty. Then, we describe the data and the mixed qualitative and
26 computational methods used to trace discussions on *Covid-19 Together*. We then detail our
27 findings and end with concluding thoughts on how this study of lay expertise may contribute to
28 other discussions of the public’s role in shaping scientific and biomedical knowledge.

29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 **2. Credibility, Uncertainty, and Lay Expertise**

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50 To give advice on *Covid-19 Together* is a performance, the credibility of which we define
51 along the lines of Goffman’s (1959) dramaturgical theory of social interaction: by the audience’s
52 response. As Goffman states: “there are many statuses in which membership is not subject to
53 formal ratification... where standards of competence are not objective, and where *bona fide*
54 practitioners are not collectively organized to protect their mandate, an individual may style
55 himself an expert and be penalized by nothing stronger than sniggers” (Goffman 1959, 39). To
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4 give advice on *Covid-19 Together* is to “style oneself” as some sort of expert. The credibility of
5 the performance can be judged by the audience’s applause. As Goffman intimates, the performance
6 of expertise here is different from that of credentialed experts. In Hilgartner’s (2000) analysis of
7 scientific advisory boards credentialed experts engage in active stage management to give off an
8 impression of objectivity. This is not the impression that advice-givers on *Covid-19 Together* strive
9 to create and why the concept of “lay expertise” has some, albeit limited, usefulness.¹ The role of
10 lay expert fits Goffman’s description of statuses “not subject to formal ratification”, open to a wide
11 range of claimants who do not claim objectivity. On the contrary, at times they claim some form
12 of subjectivity to speak authoritatively based on their experiences. The credibility of such
13 performance is evaluated differently by the audience compared with the credibility of credentialed
14 experts. Credible performance of lay expertise, by giving advice on *Covid-19 Together*,
15 paradoxically requires also performance of (in)expertise (Carr *Forthcoming*), distancing oneself
16 from speaking as a credentialed expert. This can be to avoid the opprobrium incurred by those
17 trying to pass themselves off as who they are not. As Goffman argues: “it is felt to be an
18 inexcusable crime against communication to impersonate someone of sacred status, such as a
19 doctor” (39). But it can be—as we argue—because under conditions of radical uncertainty, when
20 there is a tendency to mistrust experts, presenting oneself as “not an expert” is a useful strategy to
21 bypass the crisis of expertise that would shut down lines of communication when the contested
22 identity of the credentialed expert is invoked (Eyal 2019).²
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39 Sociologists have asked how lay experts gain credibility. Some, like Epstein (1995),
40 emphasized that laypeople become credible lay experts by *learning the language of credentialed*
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45 ¹ We use “lay expertise” without engaging with whether it is an oxymoron (Collins and Evans 2007; Epstein 2021).
46 We note that there is dissatisfaction with the term “lay expertise” amongst researchers. As Evans and Plows (2007)
47 write, “‘Scientist’ is too narrow a category, while ‘public’, even when pluralized as ‘publics’, conflates groups that
48 are quite distinct” (828). The question, of course, is what constitutes “specialist expertise” and how to distinguish
49 between these groups. The categories of interactional expertise and contributory expertise attempt to do this (Collins
50 and Evans 2007). In this model, however, different types of claims to expertise are kept apart and are ranked, with
51 contributory expertise being “more” than interactional expertise (Selinger and Mix 2004). Researchers uneasy about
52 this hierarchy developed neighboring concepts such as expert patients (Pols 2014), embodied health movements
53 (Brown et al. 2004; Nelson 2011), lay epidemiology (Brown 2007; Davison et al. 1991; Bloor 2000; Russell and Kelly
54 2011; Jauho 2017), lay pharmacovigilance (Barker 2019), collective self-experimentation (Kempner and Bailey 2019),
55 self tracking and self expertise (Heyen 2020), communities of practice (Akrich 2010), and everyday fringe medicine
56 (Vuolanto et al. 2020). The question for us is pragmatic: can the concept do useful analytical work? We think it does,
57 especially when the juxtaposition of opposites in one concept does not stand for a stable position or role, but for the
58 movement back and forth between two unstable poles. This is the thrust of our empirical analysis.

59 ² Carr (*Forthcoming*) finds that Motivational Interviewing therapists engage in a similar strategy of proclaiming
60 “(in)expertise” to win the confidence and cooperation of potentially skeptical clients.
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4 *experts* and acquiring their knowledge. Lay members of the public teach themselves scientific
5 concepts and methods, how to read scientific articles, and eventually can stake a position and
6 intervene in scientific controversies. While they may not become contributors to scientific research,
7 they acquire a form of “interactional expertise” and thus gain “a seat at the table” (Collins and
8 Evans 2009). Others have focused on laypeople's struggles to gain acceptance and credibility for
9 their own *experiential and embodied* knowledge. The Cambrian sheep farmers studied by Brian
10 Wynne (1996) did not attempt to learn nuclear physics, but they claimed to be credible experts by
11 virtue of long years of raising sheep next to the Sellafield nuclear power station. Similarly, patients
12 suffering from contested illnesses (Barker 2008), where medical experts have differing opinions
13 on the diagnosis and treatment of specific syndromes, have claimed that their own illness
14 experiences constitute alternative and credible bases of expertise. Patients come with embodied
15 health knowledge that challenges or adds to medical professionals' expertise, who lack
16 understanding of how the illness affects the patient on a day-to-day basis (Brown et al. 2004).
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28 The distinction made in the previous paragraph is ideal typical. Most sociologists have paid
29 attention to both sources of credibility—learning the language of experts and claiming relevance
30 for experiential knowledge—as well as to their interrelations. Indeed, many have demonstrated
31 how learning to speak the language of experts has allowed laypeople to craft an “intermediary
32 discourse” (Rabeharisoa and Callon 2004), in which credibility accrues to experiential knowledge,
33 and by the same token, *embodied knowledge can then be converted into scientific knowledge*
34 through codification, quantification, and testing. For example, websites like PatientsLikeMe have
35 moved from being a forum for shared commiseration, into a platform where researchers partner
36 with patient groups to conduct research (Kempner and Bailey 2019). The Quantified Self
37 Movement can be seen to be doing something similar, quantifying subjective feelings into a quasi-
38 objective metric (Heyen 2020). This is particularly useful when lay experts venture out from
39 patient communities—armed with scientific evidence—to interact with policymakers and
40 credentialed experts. What sociologists perhaps did not yet ask is how does one *perform in situ*
41 this combination of claims.
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53 One thing, however, that sociologists demonstrated is that uncertainty is not simply a
54 predicament, but a resource for would-be experts. Where there is uncertainty amongst credentialed
55 experts—or when available scientific knowledge loses its power to convince its audience that it
56 can solve a patient's medical complaints—the claims from experience enjoy more credibility. To
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4 some extent, this mirrors the relations between uncertainty and credibility in medicine generally.
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6 Medical professional socialization teaches student physicians to recognize the limits of scientific
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8 knowledge and to manage uncertainty in their day-to-day roles (Fox 1957; Light 1979). Diagnosis,
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10 in particular, requires the physician to collapse a wider range of factors to arrive at a decision
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12 (Brown 1995; Jutel 2009). Clinical expertise thus consists of the honed ability to arrive at good
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14 decisions in situations of uncertainty (Dreyfus and Dreyfus 2005), and despite attempts at
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16 standardization, the management of uncertainty continues to be part of the everyday roles of
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18 physicians (Timmermans and Angell 2001). Affected communities, however, often offer an
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20 alternative program before there is certainty (Rabeharisoa and Callon 2004). In situations
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22 involving illness where scientific knowledge is lacking, such as with chronic fatigue syndrome
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24 (Barker 2008) and migraines (Kempner 2014), patient communities were able to use uncertainty
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26 as a resource that added to their credibility. This is evident in the struggle over diagnosis of
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28 contested illnesses because the ability of clinical expertise to use uncertainty as a resource is
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30 limited by bureaucratic classifications used by hospitals and insurers (Dumit 2006), while patient
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32 communities are not similarly bound. As they challenge existing classifications, they cast doubt
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34 on the credibility of clinical expertise, and offer their expertise as an alternative.

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36 These observations are relevant because of the lack of knowledge about the diagnosis,
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38 prognosis, and treatment of Covid-19. Moreover, the uncertainty is exacerbated by the pandemic's
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40 novelty, severity, duration, and global reach. The challenge in global health emergencies such as
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42 the Covid-19 pandemic is not only the need to make life-altering decisions when facing uncertainty,
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44 but also the urgency and speed needed in arriving at a course of action (Lakoff 2017). Instead of
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46 simply contending with medical uncertainty, credentialed experts also confronted global health
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48 uncertainty and public health uncertainty, with the lack of basic scientific knowledge about the
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50 disease and with the lack of knowledge over its transmission (Kelly et al. 2020). These areas of
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52 "undone science" (Frickel et al. 2009) and "strategic unknowns" (McGoey 2012) invite a wider
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54 range of experts to make claims.³ Scientific and public health knowledge about the disease that
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56 would otherwise be taken-for-granted becomes open to debate amongst credentialed experts. The
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58 struggle among credentialed experts constitutes both an opening and an obstacle for would-be lay

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³ Bibliometric analysis of Covid-19 scientific publications showed that most early publications came from East and Southeast Asian countries, showing the geographic distribution of knowledge (Chahrour et al. 2021). Most studies were also clinical and field based, rather than laboratory studies, but the sheer scale of scientific research is unprecedented, with over 48,000 articles mentioning Covid-19 published by the end of July 2020 (Doanvo et al. 2020).

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4 experts. On the one hand, they can exploit the ensuing uncertainty to claim credibility. On the other
5 hand, to establish the broader relevance of their experiential knowledge, to be able to share it with
6 others, they need to link it with scientific facts. After all, when scientific facts circulate beyond the
7 laboratory, these facts needed to be interpreted and defended rhetorically by scientists and their
8 allies (Latour 1987; Eyal 2019, 6). Thus, the struggle among credentialed experts rendered the
9 credibility of giving advice and performing expertise on *Covid-19 Together* vulnerable. Members
10 not only defended their own illness experiences, but the scientific knowledge that they drew on to
11 make sense of Covid-19. Through the forum, we trace the rhetorical tactics mounted by lay experts.
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19 We find that in this situation of radical uncertainty, credible performances of lay expertise
20 on *Covid-19 Together* required users to tack back-and-forth between the specialized language of
21 credentialed experts (i.e. interactional expertise) and the subjective language of personal
22 experience (i.e. embodied expertise). This is similar to the idea of “intermediary discourse” that is
23 “neither purely technical nor purely strategic, which enables patients to go into the content of
24 research without... losing sight of the goals” (Rabeharisoa and Callon 2004, 151), and “patient
25 knowledge” or when “practical knowledge to translate knowledge from different sources and
26 advices [patients] get into usable techniques” (Pols 2014, 78). The difference is that we emphasize
27 the performance of this discourse in real time, and how aspects of performance impact its
28 credibility. The concept of “intermediary discourse” is a snapshot in time, the culmination of
29 multiple performances that established the credibility of its components. At the pandemic’s onset,
30 neither scientific knowledge nor personal experience about Covid-19 is well-established enough
31 to convince the audience that a claim is credible. When contributors to the forum write in “pure”
32 registers of either biomedical knowledge or personal experience, their advice is deemed less
33 credible. Successful performances move rather freely between a personal register in which they
34 describe their day-to-day, embodied illness experiences and a scientific register where the same
35 experiences are analyzed using terms borrowed from biomedicine. Claims to lay expertise fashion
36 resonances between previously de-contextualized biomedical knowledge with the messy reality of
37 everyday life for patients, and vice-versa. We draw here on McDonnel, Bail, and Tavory’s (2017,
38 2) discussion of pragmatism and the resonance of cultural objects: “a cultural object ‘works’
39 because it resonates—but it also resonates because it works”. This directs attention to the hybrid
40 performative style of lay experts: scientific findings resonate with patients if lay experts explicate
41 them in ways that correspond to their personal experience with Covid-19 and/or are useful in
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4 managing their illness. By the same token, personal experiences would resonate with other patients
5 if the reporter is can link them with biomedical concepts, otherwise they run the risk of remaining
6 “in one’s head.” Performances unfold in real time: To succeed they require attention to sequence
7 and timing. One does not begin with scientific assertions. Often the gambit requires the
8 construction of initial (in)expertise (e.g. “I’m not a doctor”). Learning to perform this hybrid
9 interlanguage (Galison 2010), reflects a “metalinguistic awareness” which can become “a
10 powerful institutional and political resource” in medical settings (Carr 2010, 225). When lay
11 experts are consulted on patient advisory boards or organize into patient advocacy groups, this
12 hybrid interlanguage can adapt to its new audience and be made intelligible to credentialed experts.

21 **3. Data and Methods**

22 The online community, *Covid-19 Together*, was created in mid-March. The forum is a part
23 of a general-purpose social media site where anyone can start a new discussion board. As far as
24 we can tell, the forum has no formal ties to any medical, scientific, or pharmaceutical
25 organizations.⁴ Over four months until mid-July, it had over 24,000 users who contributed to the
26 forum by posting. A core set of about 400 users contributed 50 or more posts during this period.
27 The online community created more than 9,800 threads containing over 138,000 posts during the
28 four months. Each post varies in length, ranging from pages of text to short sentences and snarky
29 replies. The mean number of characters is 310 or about 60 words or around two sentences. The
30 median number of characters is 178 or about 35 words or a sentence. The number of comments
31 posted per day on the forum range from about 750 to 1250 comments per day. The number of
32 comments posted picked up quickly from the forum’s creation in mid-March as the forum gained
33 a certain degree of “virality”. There was a consistent level of contributions from the end of March
34 to the end of our observation period in mid-July, reflecting the consistent engagement and the
35 usefulness of the forum for patients. Unlike other Covid-19 related forums that share news articles
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50 ⁴ The selection of this forum conforms to Eysenbach and Till’s (2001) insistence that online qualitative health research
51 be done on “public” sites. The selected forum is considered more “public” than “private”, as it is not password
52 protected, not restricted to users, and is indexed on search engines. This is also a large user community, which indicates
53 that posts on the forum are meant to be read by a wider community. While Eysenbach and Till (2001) insists that
54 researchers should not “lurk” and that they should seek consent from forum members, Barker (2008) points out that
55 this is unrealistic due to the number of members who are involved in online community with varying degrees of
56 participation, as well as the fact that disclosing the presence of a researcher changes the ways in which users participate
57 in the forum. We changed the name of the online community and gave pseudonyms to the users. Direct quotes taken
58 from this website are altered with synonyms replacing key words, while preserving the meaning of these excerpts.
59 This is not a guarantee of users’ anonymity as their postings may still be revealed through online search.
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4 and speculate on developments related to the pandemic, *Covid-19 Together* is focused on being “a
5 space for folks who tested positive for Covid-19 to share your experiences, resources, and let off
6 some steam!”. While no systematic comparison was conducted with other forums related to Covid-
7 19, users on *Covid-19 Together* frequently commended other community members for their civility
8 and collegiality, contrasted against the unruly and disruptive behavior that exist in other Covid-19
9 forums. The forum is moderated by a small team of users, who remove irrelevant posts and attempt
10 to uphold community standards, guarding the forums against trolls. The moderators exerted
11 significant influence on the types of claims that users could make on the forum. Nonetheless,
12 despite the intent of moderators to exclude claims to credentialed expertise or the provision of
13 “medical advice,” we will show that users were able to make assertions about what could be
14 learned from scientific and biomedical research. At the same time, the forum’s moderators did not
15 provoke too much ire or dissent from its users, signaling, perhaps, a degree of agreement among
16 users about the implicit rules of judgement they employed. Moderation was also largely reserved
17 for new threads rather than individual posts within threads, and the volume of posts—1000 or so
18 each day—typically was too much for the team of 10 moderators to review thoroughly. Using an
19 API provided by the forum, these posts were downloaded for analysis. In addition to this,
20 discussions on the forums were tracked in real time—as we received email and notifications for
21 new notable threads. These impressions gained from real time observation during this period also
22 helped familiarize us with the wide range of conversations on the forum, as well as provided a
23 sense of the temporality of posting—sequence and pace—that could be easily missed in a
24 retrospective analysis.

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43 Due to the quantity of text, we analyzed the data in two stages. First, we attempted to
44 characterize the themes in the text to get a sense of what was being discussed by users on the forum.
45 To achieve this first objective, we combined an abductive approach with assistive automated
46 coding to analyze the posts on Atlas.ti (Tavory and Timmermans 2014; Deterding and Waters
47 2018). First, we produced a list of words and frequency and examined it for relevant keywords.
48 Second, we developed a coding scheme, covering topics such as feelings (e.g. trust, uncertainty),
49 sources of information (e.g. Fauci, Google), interactions with medicine and medical professionals
50 (e.g. doctors, test), and controversies (e.g. masks, ibuprofen). In addition to these codes, symptoms
51 (e.g. fever, shortness of breath) and place names (e.g. New York City, California) were coded as
52 well. Third, we applied this coding scheme using the Auto Coding function, in which paragraphs
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containing the relevant keywords for each code were linked to it. Finally, we used the Code Co-Occurrence tool to locate discussions that touch on two different codes. For example, co-occurrence of codes for trust and science locates conversations about trust (or mistrust) of science. Additionally, computational text analysis was used to explore the data. Three broad topics of discussions were detected using topic modeling techniques: symptoms and course of illness, staying home and related emotions, and experiences with testing and doctors. The associated terms are reported in **Table 1**.⁵ In the first topic of symptoms of illness, the associated terms relate to symptoms such as shortness of breath, cough, fever, chest pains, loss of smell, headaches, and fatigue, as well as to the course of the illness (day, week, start, etc.). This is seen clearly in posts that painstakingly detail day-to-day changes of the patients' illness experiences, from onset to the months-long recovery of “long-haulers”. The second topic combines terms that describe the experience of isolating and staying home and the related emotional states. Because this topic likely refers also to steps users have taken to prevent catching Covid-19 or to their period of quarantine after suspected infection, it includes also terms related to prevention and recovery such as masks, vitamins, rest, eating well, and staying home as well as terms related to the stress of having the disease and isolating, such as anxiety and worry. The third topic seems to center on interactions at the medical system's access points (Giddens 1990), namely with testing and doctors. The topic includes terms such as test, positive, negative, blood, and result. There are also terms related to recovery, antibody tests, and immunity. This topic includes reports on difficulties that patients faced in getting medical professionals to take their symptoms seriously and patients’ mistrust of testing results. This broad grouping of discussions corresponds with our qualitative understanding of the data, and the themes were relatively consistent during the four months of observation.

Topic 1 (Symptoms and course of illness)	Topic 2 (Staying home and related emotions)	Topic 3 (Testing and doctors)
day, feel, symptom, week, back, breath, cough, fever, still, start, pain, chest, better, throat, felt, mild, normal, never, smell, sinc, headach, lung, fatigue, around, heart	right, work, know, purpose, sure, need, stay, home, care, call, way, famili, eat, hospit, sick, live, better, rest, anxieti, vitamin, worri, give, mask, didnt, sorri	test, covid, peopl, posit, symptom, virus, doctor, negat, case, infect, long, blood, know, month, antibody, recov, result, caus, seem, actual, differ, sever, high, immune, probabl

⁵ The R *tm* package for topic modeling was used to perform a Latent Dirichlet Allocation (LDA) analysis of the text. Of the posts in the forum, those with over 100 characters or approximately 20 words were kept. This left 96,666 posts of the full set of 138,488 posts. The stop words were removed from the text and stemmed. Clusters ranged from two to five topics were used, and the decision to include three clusters was based on the ability of the topics to meaningfully reflect the themes that arose from qualitative readings of the text.

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4 **Table 1: LDA Topic Modeling of Posts (25 terms associated with each topic)**
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6 Second, after understanding the general themes under discussion, we attempted to answer
7 the question we formulated earlier, namely how users perform credible lay expertise.
8 Operationalizing credibility is a difficult task as rhetorical performances on the forum rely on
9 conversational dynamics that are sequential and asynchronous, consist of links, images, and videos,
10 and rely on colloquialisms, sarcasm, and technical terminologies. One way in which we tried to do
11 this is by using the in-built voting function on *Covid-19 Together*, where posts that are deemed
12 praiseworthy can be “liked” and those that are seen as unhelpful or off topic can be “disliked” by
13 other users, resulting in a score that subtracts the number of dislikes from total likes. There was a
14 considerable range in scores. The maximum score was 3860 and the minimum was -104; the mean
15 is 5 and the median is 2. This measure is straightforward but has the distinct disadvantage that it
16 can measure many other things apart from credibility, let alone lay expertise (e.g. popularity, a
17 joke landing well, etc.). Hence, we selected a purposive sample of the top 1000 and bottom 1000
18 scoring posts and analyzed them qualitatively and comparatively, looking for posts that involved
19 giving advice and providing information (hence staking at least a minimal claim to expertise), and
20 searching for characteristics that could have made this instance of advice-giving more or less
21 credible.⁶ We developed a coding scheme inductively to capture the various explanations for posts
22 deemed most credible and those that were seen as the least credible. Furthermore, to trace the
23 process of becoming a lay expert, we examined the top 100 active users' postings on the forum by
24 post counts. The top 100 users contributed over 27,000 posts. We traced the trajectory of users by
25 skimming these posts, with attention paid to high and low scoring posts at the beginning, middle,
26 and end of a user’s posting history. This enabled us to observe the temporal dynamics by which
27 credibility is accrued or lost, and how this may impact over time the tone, style, and topics raised
28 by the user. A description of this trajectory was recorded for each top user. It is important to restate
29 here that the number of posts a user contributes and the number of likes that a post receives are
30 only proxies for a credible performance of lay expertise. Some users post a lot on the forum but
31 never seem to be seen as by other users as credible information providers. Some posts receive
32 significant attention, but for reasons other than providing credible information or advice.
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58 ⁶ Users and moderators were also able to delete or remove posts. Of the top 1000 posts, 66 were no longer available.
59 Of the bottom 1000 posts, 266 were no longer available. Likewise, deleted and removed posts from the top 100 users
60 were also not available.
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4 There are more limits to using this data. First, it would be unwise to attempt to glean
5 demographic information from semi-anonymous profiles. Certainly, the impact of Covid-19 is
6 different along racial, national, class, disability, and gender groups. However, it does seem that
7 most of the contributors are located in the United States given the frequency of place-name
8 mentions. Second, reported attitudes may not reliably reflect actual behavior, but this analysis aims
9 to capture discourse. Third, emojis and other images inserted into the text were not captured and
10 analyzed systematically. Fourth, this data only tracks discussions amongst Covid-19 patients—
11 omitted here are how medical practitioners perceived patients. Nonetheless, this data is still useful
12 for studying how users performed lay expertise and won credibility during the Covid-19 crisis.
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20 **4. Findings**

21 Before we detail our findings, we should note an important aspect of the context in which
22 such performance of lay expertise—specifically, dispensing advice—was to be received.
23 Organizers of this forum explicitly frowned upon users providing medical advice, referring to
24 medical or scientific knowledge, without personal experience of the matter. Cognizant of what
25 takes place in other forums, organizers and users were wary of posters pretending to be
26 credentialed experts. This is seen clearly in the rules of the online community:
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- 33 • Please be kind. This is a stressful period. Avoid being rude and personal attacks on each other. No trolling.
- 34 • Do not provide medical advice. Even though you may discuss medicine, remember that we are not medical
35 experts. Seek help from your doctor if you are concerned about your health.
- 36 • Think before posting news items that may alarm each other. We don't want to create further anxiety.
- 37 • Write from your personal experience. We want to learn firsthand about your experience with Covid-19.
38

39 The rule of no medical advice was not just the “dead letter of the law”. Users often invoked it. This
40 is seen clearly in a thread from late March, in which user WhatsUp asks: “Is there a way that I
41 check if I already contracted the virus?”:
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45 **Gary125:** Just call your doctor or nurse to find out.

46 **WhatsUp:** The thing is that I believe that folks on the Internet know more than medical professionals
47 nowadays. Every day we find out something new about the coronavirus. But doctors and nurses don't have
48 any free time for reading and to keep up to date with the news now.

49 **HilaryNY:** That really is a ridiculous justification.

50 **James2020:** Please don't just rely on Professor Google. Consult a hospital's medical phone line just to make
51 sure. A lot of the facts you may find on the Internet can be hearsay and is distorted in a game of telephone.
52 There are falsehoods out there and panic only breeds more distortion. While I agree with you that doctors
53 can lag behind, I would trust a professional over social media or a search engine.
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55 In this exchange, WhatsUp was quickly reprimanded by others for a question that they thought
56 should be directed to medical experts. And yet, WhatsUp's skepticism about medical knowledge
57 was not an anomaly on *Covid-19 Together*, as indicated by James2020's last sentence. Many other
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4 users expressed a similar sense that because of the fast-paced development of knowledge
5 surrounding Covid-19, credentialed experts and codified scientific knowledge—knowledge that
6 has gone through peer review or incorporated into medical protocols—was not necessarily the
7 most accurate or useful. Another poster, CovidNavigator, made a similar point while writing about
8 their month-long battle with Covid-19:
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13 When I started to search for trustworthy information on Covid-19, I found that a lot about the Covid-19 was
14 still unknown and experts are just coming up with best guesses. The science is still in its infancy. It is unclear
15 why some people only display mild symptoms while others end up on a ventilator. All experts have are
16 hypotheses based on viral load, gender, blood type, co-morbidities, and what have you.
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18 As you go through this labyrinth of facts, try to determine for yourself what is probably true, what is likely
19 false, and what is just opinion. Consult sources you can trust. But, do not instantly assume that those with
20 authority are right, regardless of whether they are public officials or medical professionals. The situation and
21 knowledge is changing all the time.
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23 This sums up the dilemma faced by users on *Covid-19 Together* (and perhaps by the public at the
24 beginning of the pandemic): the rule of “no medical advice” divides the world into two neat little
25 boxes. Users can be credible, it says, as long as they speak purely about their personal experience.
26 General statements or medical advice, on the other hand, are credible only if they come from
27 doctors and scientists. Yet maintaining the division between the boxes proves impossible. It is hard
28 to determine what is significant and relevant about one’s personal experience without “trustworthy
29 information” from experts, but users have “to determine for yourself” what is credible and “true”
30 in what the experts say (for a similar dynamic, see Reich 2016). Radical uncertainty is thus both
31 an obstacle and an opening/resource for users. How, then, can users speak credibly and provide
32 meaningful feedback to others about Covid-19? The rule is meant to provide guidance for
33 recognizing and exhibiting credibility under conditions of radical uncertainty, but it does not work
34 without knowing *how to follow the rule*. When is it and for whom, for example, that to violate the
35 letter of the rule is to uphold its spirit?
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38 In the following sections, we detail two key findings that explain how users were able to
39 exhibit and recognize that they and others were following the rule, despite, or perhaps by virtue of
40 the radical uncertainty that they faced, and how they could provide others with useful medical
41 advice. First, when examined individually, a credible performance of advice-giving on *Covid-19*
42 *Together* required a hybrid interlanguage that blurred medical and personal advice and that created
43 resonances between scientific and experiential terms. Second, taken sequentially, such a hybrid
44 interlanguage could not be successfully drawn upon by all users, but only by ones who have gone
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4 through a distinctive process of gradually accumulating credibility as lay experts on *Covid-19*
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6 *Together*.

7 8 ***a. Performing Credible Lay Expertise***

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10 What is a credible performance of lay expertise? There are really two questions here. First,
11 how would we recognize a performance of some sort of expertise when we see it? And second,
12 how do we measure whether this performance is credible or not? To begin with the second question,
13 as mentioned, we define a credible performance along the lines of Goffman's (1959) dramaturgical
14 theory of social interaction using the audience's response. When users convince others on the
15 forum that they know what they are talking about, they are met with multiple affirming replies,
16 with others concurring and complimenting their post. When a user's post is judged uncredible,
17 others question the user's understanding of the topic, the veracity of their claims, and the honesty
18 of their motivations. The lapse of credibility can also be measured by the breakdown and end to a
19 discussion thread. Credibility, therefore, is operationalized using the measure of total "likes" and
20 "dislikes" on a post.
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30 We inductively identified several patterns that differentiate the top 1000 from the bottom
31 1000 scoring posts. We find that posts in the top 1000 fell into several categories: posts that
32 detailed illness experiences (29%), gave useful advice to others (22%), expressed encouragement,
33 gratitude, or sympathy towards other users (17%), cautionary tales and reports of deaths (13%),
34 questions for other users that were deemed to be relevant (12%), and stories of success and
35 recovery that comforted those who were still fighting the illness (7%). Below, we analyze the
36 interplay between medical and experiential knowledge in posts that gave advice deemed as
37 credible to others. We specifically use this category of advice-giving to operationalize the credible
38 performance of at least minimal lay expertise. We will try to show that when dispensing advice,
39 members rely on a hybridized interlanguage that blended personal experience with scientific
40 research: Users frequently presented themselves as non-experts, prefacing their posts with phrases
41 like, "I'm not an expert" or "I'm not a medical professional", but showed willingness and
42 competency in searching for and understanding scientific research related to Covid-19, while
43 translating these findings into practical and everyday terms.⁷ In the next section, we draw also on
44 the category of posts that detail personal illness experience to demonstrate that there was a
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59 ⁷ While there were users who made mention of their backgrounds in medicine or science, these identities were not
60 given much credence by others, as users could not easily verify these claims.
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4 distinctive sequence by which this competency and recognition as lay experts was gradually
5 acquired.
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8 In contrast, posts from the bottom 1000 fell into several other categories: statements that
9 users attempted to pass off as “facts” without explanation (27%), *ad hominin* and offensive insults
10 (24%), posts that were overly skeptical of others’ personal accounts (17%), posts that downplayed
11 the severity of Covid-19 (15%), off-topic rants (11%), conspiracy theories (3%), and excessive
12 fear-mongering (3%). The “fact” category specifically will serve to operationalize claims to lay
13 expertise that were deemed as not credible by other users. Examples of such low scoring posts
14 include, “I believe hydroxychloroquine, azythromicin, and ivermectin should be given early on”,
15 “just take lots of vitamin D and you’ll be fine”, but also non-factual general strictures like “you
16 should just trust your doctor and ignore what you find on the Internet”. These “facts” or general
17 claims could be understood as attempts to invoke credentialed expertise in a way that was deemed
18 uncredible by the audience. We will try to show that the low scores for these posts did not mean
19 that other users thought that patients should not take vitamin D or that doctors are inherently
20 unreliable, but instead reflected the sense that such advice was given without performing the work
21 of fashioning resonances between scientific terms and personal experiences. Had users bothered
22 to explain the benefits of vitamin D combining personal experience with biomedical evidence or
23 explained under what conditions doctors should be trusted (or ignored), and had these users
24 gradually accumulated recognition as lay experts, these posts would likely have scored higher.
25 Claims that were easily discredited as unscientific such as posts touting homeopathy were also
26 seen in these low scoring posts. It is clear that despite the rule of no medical advice and the nominal
27 deference to medical expertise, there were plenty of instances where users *did* offer medical advice
28 to each other. This was because the boundary between what was considered “first-hand”
29 experience and “medical advice” was often blurry, and because credible advice drew on an
30 interlanguage that created resonances between medical and experiential knowledge.
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34 A common form of lay expertise on the forum was to provide advice about home remedies
35 and supplements that users claim to have aided in their recovery. Take for instance this exchange
36 from ExistingConditions with 28 likes from the end of March, typical of discussions about the role
37 of supplements in treating Covid-19:
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57 **ExistingConditions:** I am on day 15 of Covid. I have a ton of preexisting conditions like asthma, and am
58 suffering from shortness of breath. I’ve talked to PCP, my friends, cardiology specialist, friends in medicine,
59 and tried to research on my own. There’s not a lot of peer reviewed studies on self-treatment on Covid-19
60 done. But this is what I’ve been doing based on existing evidence of things you can do to help with respiratory
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4 illnesses with the lowest risk of harm: (a) Sleep in slightly warm, humid air; (b) use a pulse oximeter; (c)
5 Vick’s vapor rub and ginger lemon tea (obviously not evidence-based); (d) drink a lot of water and rest!; (e)
6 2500 mg Vitamin C two times a day, 25000 IU Vitamin D once a day for five days, N-acetyl Cystine 2600
7 mg two times a day. Avoid those deficiencies! I’m feeling better in the past few days, so this might help.

8 **RedRum:** You're ticking a lot of the right boxes except for the overloading of Vitamins. That's really not
9 backed by any science. [post disliked by multiple users]

10 **ExistingConditions:** There is definitely evidence that D deficiencies are correlated with worse outcomes for
11 respiratory illnesses. Mixed evidence for C.

12 **BadWeather:** This post was super useful. But is it safe to take so much Vitamin D?

13 **ExistingConditions:** Vitamin D is fat soluble, so you can overdose on it. Have you ever had your levels
14 checked? If they tend to run low, I’d definitely work on supplementing right away. I have mine checked at
15 least yearly, and mine run really low. I usually take 5000 IU a day, which is pretty high for most people. If
16 yours run normal, I think a more regular dose might be 2000-4000 IU a day. 25,000 is a very high dose, that
17 my doctor recommended that Covid patients do only for five days. But don’t stay at that kind of dose for any
18 real length of time unless under the direction of a doctor. But I’m not a doctor! So, ya know, check my recs
19 with the research out there and your own doc... Take care.

20 [...] **Equestrian123:** See this link. It contains reviews of existing studies on practices linked to better
21 outcomes for respiratory illnesses! <https://necsi.edu/respiratory-health-for-better-covid-19-outcomes>

22 **SigmundF:** I can confirm all the things you all recommended! I would only also suggest that you add
23 electrolyte tabs in your water. Staying upright, as you suggested, also helps. I stayed upright most of
24 quarantine... I’m getting a lot better. My fever and symptoms are disappearing, coughing less, and I can close
25 my eyes now and rest without fear of drowning my lungs.
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28 Users in this exchange freely drew from both personal and scientific evidence to justify their
29 selection of supplements, while debating the merits of different dosages and vitamin cocktails.
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31 There are several noteworthy elements in ExistingConditions’ post that exemplify what makes a
32 performance credible, or as RedRum says, “ticking a lot of the right boxes”: first, establishing that
33 one is not claiming to speak as a medical expert, but on the basis of personal experience.
34 ExistingConditions’ post is bookended by an initial claim to have credible relevant experience
35 (“day 15 of Covid”), and a concluding qualifier that—“I’m not a doctor”, and carefully cautioning
36 those pursuing these forms of self-treatment to consult with credentialed experts. Second,
37 presenting oneself as non-dogmatic. ExistingConditions reports consulting both medical
38 professionals and “friends,” without prejudging in advance which source is more credible. They
39 also calmly admit to uncertainty and to the limitations of both the literature (“mixed evidence for
40 C”) and personal experience (ginger lemon tea is “obviously not evidence-based”). Third, this non-
41 dogmatism allows ExistingConditions to move back-and-forth between displaying technical
42 facility with the literature (“fat soluble”) and individually tailored, practical advice based on their
43 experience (“I have mine checked at least yearly”). Fourth, the move back-and-forth is facilitated
44 by concepts like “respiratory illnesses,” which create resonance between personal experience
45 (most people have had some experience with an illness that affected respiration) and medical
46 research. Another concept providing such resonance is of course “vitamins”. It resonated widely
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4 because it contains within it the idea (and everyday practice) that patients could take control of
5 their health outcomes, yet guided by scientific research and doctor’s advice (yet requiring
6 ExistingConditions to calmly but firmly swat away RedRum’s objection). This was particularly
7 true for “long haulers,” where symptoms or fatigue from the virus extended for over a month, and
8 where credentialed experts seem to offer little useful advice.
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13 Breathing exercises were also popular amongst users on the forum who were having
14 difficulties with Covid-19 symptoms such as coughing and shortness of breath. Take for instance
15 this thread from BaldEagle, which received over 700 likes from the end of March:
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19 **BaldEagle:** Hi folks, as you know, coughing is exhausting and draining for your body. You should
20 check out this video on Active Cycle of Breathing Technique (ACBT), which helps you clear your lungs
21 more efficiently [https://bronchiectasis.com.au/physiotherapy/techniques/the-active-cycle-of-breathing-](https://bronchiectasis.com.au/physiotherapy/techniques/the-active-cycle-of-breathing-technique)
22 [technique](https://bronchiectasis.com.au/physiotherapy/techniques/the-active-cycle-of-breathing-technique). This is taught by physiotherapists to help patients clear out secretions in our lungs. There are
23 three different breathing pathways that you can try to see which works best for you: Breathing Control
24 (BC), Thoracic Expansion Exercises (TEE), and Forced Expiration Technique (FET). For BC, try to
25 breathe using the lower part of your chest with your diaphragm while relaxing your shoulders. For TEE,
26 focus on slow breathing and holding your breath at the end (you can alternate TEE with BC). For FET,
27 it is okay if you need to cough but try huffing as if you are steaming up a mirror in front of you.

28 **NYProf:** This worked excellently for me! Thank you so much. I have heard medical professionals
29 recommend this for patients of respiratory illness. This is also featured on this article about COPD
30 <https://mylungsmylife.org/topics/group-1/how-to-clear-your-chest/sputum-benefits-and-downside/>
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32 **LakeMichigan:** Coincidentally, my physiotherapist is also working with me on these breathing
33 techniques. The links you all provided seem great, I will try them out. I used to run a lot, so theoretically,
34 I should already know how to breath, but I am learning a lot from you all. I would also advise people to
35 work on Diaphragmatic Breathing, seen in this video <https://youtu.be/5Pfde986Xps>. Those who are not
36 yet severely ill should learn this before their conditions worsen.
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39 While BaldEagle does not explicitly claim to be a patient or an expert in this post, BaldEagle made
40 their advice on breathing exercises “user-friendly”, demonstrating intimate familiarity with the
41 techniques. Significantly, users draw here on knowledge and expertise from a paramedical
42 specialty—physiotherapy—which, because of its subordinate status, has always sought to recruit
43 patients as allies by giving them an active role to play in their treatment. Subsequent posts from
44 other users build on BaldEagle’s advice and amplify its resonance by, on the one hand, linking it
45 with the recommendations of “medical professionals” and, on the other hand, confirming that these
46 breathing exercises have helped them manage their symptoms. Credibility, in this case, was a
47 collective achievement sustained by the contributions of multiple users.
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51 The features that allowed the above advice to be credible—the intertwining of the
52 experiential and the scientific—stands in sharp contrast when we compare it with a discussion on
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4 self-isolation that ended up in acrimony and accusations of dogmatism when a user appeals to
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6 credentialed expertise:
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9 **Cyclist121:** My doctor presumed that I was positive and ordered that I isolate for 14 days AFTER my fever
10 dropped. I said what about CDC saying 72 hours? I was told no. 14 days. For what it's worth, I know there's
11 a lot at stake and a lot of different information.

12 **YourFriend:** Unfortunately this is not realistic advice and it is also against CDC guidelines.

13 **NYCPatient:** From the CDC: [https://www.cdc.gov/coronavirus/2019-ncov/if-you-are-sick/steps-when-](https://www.cdc.gov/coronavirus/2019-ncov/if-you-are-sick/steps-when-sick.html)
14 [sick.html](https://www.cdc.gov/coronavirus/2019-ncov/if-you-are-sick/steps-when-sick.html). Home isolation for people with COVID-19 can be discontinued under these conditions: if a test is
15 conducted to see if you are contagious; if you have no fever for at least 72 hours (without medication) AND
16 other symptoms have improved AND at least 7 days have passed since your symptoms first appeared.

17 **Ghost3333:** Why are people still believing the CDC and their guidelines? They have consistently delivered
18 misleading and reckless advice that has been disproven and that goes against common sense.

19 [...]I would just treat it as Schrödinger's virus. Everyone including myself both have it and is contagious and
20 also doesn't have it and is immunocompromised and act accordingly. Stay in quarantine until we know more.
21 Don't risk further spread until we have antibody tests and have peer reviewed studies that tell us how long
22 viral shedding goes on for.

23 **OnTheVerge:** What are you talking about Ghost3333? The CDC is one of the only reliable sources of
24 guidance, it's the public officials that don't listen to them that has been causing harm. What
25 misleading/reckless advice have they been delivering? They have been releasing information as they learn
26 more and constantly updating the public with their constantly evolving understanding of the virus.

27 **Ghost3333:** "Covid-19 isn't airborne". This was wrong. "Don't wear masks they're not effective". This was
28 wrong. "Just wash your hands and don't touch your face". This was wrong. "Asymptomatic people can't
29 spread the virus". This was wrong. "The virus can't spread on packages". This was wrong "Just quarantine
30 for 14 days if you start feeling sick then you can pop back to work and be around you grandparents again
31 when your symptoms have gone". Whoops you've been symptom free for a week but you are still testing
32 positive, our bad... Those blindly following official guidelines and not using their own common sense are
33 endangering everyone.
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36 NYCPatient's response to Cyclist 121's question is to recite the official guidance provided by the
37 CDC. Neither they, nor YourFriend, attempt to embed in or link this guidance with personal
38 experience. For this reason, they are perceived by Ghost3333 as "blindly following [misguided]
39 official guidelines and not using their own common sense." In the controversy that ensues, all sides
40 dispense medical advice and descend into a political dispute about trust in public health expertise.
41 Instead of intertwining personal experience with medical knowledge, the discussion ends at an
42 impasse. The advice dispensed by credentialed experts is discredited, but the appeal to "common
43 sense" is also empty because its only content seems to be "don't trust the CDC". In separate threads,
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45 users also ridiculed the 14 day rule:
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52 **StillSick:** I'm on day 30 of Covid and I'm still feeling it... my family thinks I should have recovered by now
53 and that I'm just insane.

54 **CovidSucks:** I'm on day 55! Someone told me that I was done and I'm now just in recovery. But I still have
55 the same symptoms. Its frustrating when they tell me how I'm doing or should be feeling... It's such a new
56 virus and nobody really understands it...

57 **LakeMichigan:** I'm on day 40 and it's still hitting me in waves. I'm just so exhausted. Still have my shortness
58 of breath and GI issues... I'm tired of Internet randos telling me that I'm just having the "regular flu". No
59 idiots, I have 14 of the 14 symptoms. "But it just lasts 14 days". Yeah sure. I've read your extensive study in
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4 *The Lancet*. For crying out loud. Even the actual “experts” have no clue because, maybe, I don’t know, this is
5 unprecedented?!

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7 The radical uncertainty of Covid-19 was therefore a resource that users invoked to downgrade the
8 credibility of proclamations from credentialed experts and create an opening for drawing on
9 personal experience as a valid, credible source of knowledge. This allows us to say something
10 about the much-bemoaned issue of mistrust in experts. What was distrusted on *Covid-19 Together*,
11 or put more descriptively, what was easier to discredit, were uncontextualized assertions that aimed
12 to borrow credibility from “science” or from the official status of the experts. This was
13 characteristic of the “fact” claims that users in the bottom 1000 scoring posts invoked. While the
14 explicit rule was to encourage users to consult with the doctors, the unspoken rule was to frown
15 upon any assertion that derived its sole force from being spoken by a doctor. It is telling that when
16 doctors and nurses weighed in on *Covid-19 Together*, they often felt the need to emphasize that
17 they too tested positive for Covid-19:
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27 **InfectedFamily:** I’m confused. My mom and brother both got Covid-19. My father, who
28 is old and pre-diabetic lives with them in close quarters was tested multiple times and was
29 negative throughout the ordeal. Was it possible he was asymptomatic and just had no
30 symptoms? It’s just strange that my healthy younger brother had the severe symptoms...

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32 **FemaNP:** Yes, that happens! I am a disaster relief nurse for a Covid treatment center that
33 was swamped with patients. A lot of us on staff tested positive. When I started working
34 there, everyone in my household quarantined and stayed away from each other. I stayed
35 upstairs but still shared the same bathroom and kitchen in our small 900 square feet home.
36 When I came down with Covid a few weeks ago I tried to disinfect everything. But there
37 were times when I couldn’t muster the energy to be as thorough. I’m symptomatic and
38 should be contagious. I really don’t know why they haven’t caught Covid from me yet...
39 I’m also the youngest, which makes no sense to me.
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43 The credentialed expert here was able to seamlessly combine the roles of credentialed and lay
44 expert, each lending credibility to the other. To summarize: a credible performance of expertise on
45 *Covid-19 Together* during this situation of radical uncertainty, as measured by the audience’s
46 reaction, was characterized by the ability to move back-and-forth between personal experience and
47 the interpretation of scientific research in a way that built resonances between the two, and that
48 was seen as congruent with and useful for the experience of others.
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50 51 52 53 **b. *Becoming a Lay Expert***

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55 This script of credible performance is something that can be learned and accumulated over
56 time by users on *Covid-19 Together*, culminating in an achieved status of lay expert. Two patterns
57 were observed in our analysis of the trajectories and careers of the top 100 active users. First, these
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4 users began their engagement with the forum by asking questions about the experiences of others
5 and posting about their own illness experience. They began, therefore, in the experiential register
6 and by soliciting advice from others. In the next stage, however, and this is the second pattern we
7 observed, these users proceeded to offer credible advice to others by drawing on their experience,
8 comparing it with the experience of others, and intertwining their account with official sources of
9 information that supported their advice. They now added a biomedical register to their voice, based
10 on critically reading news articles and scientific literature. Yet, their credibility depended on
11 carefully calibrating this register as supportive evidence for the lessons they gleaned from their
12 experience. At this point, users become credible lay experts who offer other members of the forum
13 advice on how to manage their disease. They often bring in their personal experience and
14 recommend supplements, diets, and medications that worked for them. Yet, just as often they link
15 to sources of information that would support their suggestion. It is important to note that these
16 kinds of links are exactly what the forum's rules frown upon as constituting medical advice not
17 from personal experience. The ability to deploy them depends on carefully intertwining them with
18 personal experience—thus sticking to the spirit of the rule while violating its written letter—and
19 accumulating over time the recognition that would endow them with resonance. These links
20 ultimately work because they resonate, but they resonate because they work.

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This trajectory is seen clearly in the career of user SympatheticPatient, who contributed
over 700 posts, and has been dealing with a long-haul case of Covid-19. The user begun by asking
generic questions like “How are you feeling?” in threads where users were describing their
symptoms in late March. This enabled them to compare their experience with others. After
soliciting illness experiences from other users, and finding them similar to their own,
SympatheticPatient became convinced that recovery from Covid-19 would take longer than they
had previously anticipated. As they wrote in April: “Your experience with Covid sounds exactly
like mine. I get tired from just walking to my mailbox”. By late April, the user began incorporating
previous studies of chronic fatigue syndrome and post-viral illness into their posts. They would
often begin their posts with phrases like “all the studies that I have read suggest that”. In a reply
in May to another user posing questions about the recovery experiences of other users,
SympatheticPatient pointed to the experience of SARS patients: “according to studies, a large
percentage of SARS 1 patients, mostly healthcare workers, suffered from long-term symptoms of
fatigue”. As they noted, because Covid-19 is a novel illness, little is known about its long-term

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4 effects; but past experiences of comparable viruses may be of use. By June, the user frequently
5 suggested different drugs and supplements to others, referencing scientific literature as well as
6 their own experience. To manage their lingering symptoms, SympatheticPatient would
7 recommend a supplement regimen: “I’m taking Vitamin D and C, Zinc, Glucosamine, Quercetin,
8 NAC, Flaxseed Oil, Magtein, Nattokinase, Probiotics, small doses of potassium. Obviously hard
9 to say what effect these have, but I felt better when I started taking quercetin. The NAC looked
10 like it helped with my breathing... I’ve read effects last 8 hours”. Users seeing this advice often
11 expressed gratitude and offered slight modifications to the regimen, based on their personal
12 experience and articles that they have read online. Yet, if another user barged on the scene and
13 with their very first post offered the same list of supplements as SympatheticPatient, they would
14 likely have been seen as quixotic and untrustworthy. The very same advice would have lacked
15 resonance without the backing of an established track record. SympatheticPatient’s case was
16 relatively straightforward. They were able to acquire recognition as lay experts by first
17 foregrounding their bona fides “lay” status: asking questions, comparing experiences with others,
18 and finding similarities. Only once they were secure in this status were they able to play the role
19 of “expert” and begin sharing and recommending biomedical knowledge and ultimately providing
20 hybrid advice to others. Top users can also confer a degree of credibility to relative newcomers if
21 the experienced user engages in or post affirmatively in the newcomer's thread, demonstrating the
22 role that mediators within the patient group played in shaping the collective recognition of credible
23 lay expertise.

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41 It is important to emphasize that belonging to the group of 100 most active users coincided
42 only partially with credible lay expertise. Some users went through the stages of the trajectory of
43 the process fairly rapidly. They “got it right” in their first few posts but did not necessarily continue.
44 Conversely, some users posted frequently but never managed to strike the right balance. Their
45 failure is instructive about what makes for credible performances. Take for instance, the example
46 of user SevenUp, who contributed over 250 posts, but failed to be recognized as credible. Unlike
47 SympatheticPatient, SevenUp’s advice was never sought or favorably received. SevenUp’s initial
48 trajectory was similar to SympatheticPatient. They started posting in late March, asking others
49 how they felt and sharing their initial experiences with Covid-19. In April, SevenUp started posting
50 longer posts about their long-haul symptoms and continued asking questions about symptoms: “Is
51 neck pain a symptom of Covid-19? I haven’t seen this written about elsewhere but wanted to know
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4 if anyone else on here has had that experience”. Occasionally, SevenUp offered messages of
5 encouragement, “Hopefully you’ll feel better! Wishing you luck at the end of Week 5 over here”.
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7 This should have made users well-disposed towards SevenUp. From here onwards, however,
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9 SevenUp’s trajectory diverged from SympatheticPatient’s. They did not venture beyond asking
10 questions and offering their own experience. They did not incorporate research findings into their
11 posts, nor sought to establish resonances between their experience and biomedical research.
12
13 Gradually, other users became suspicious. A longer post from late April, detailed SevenUp’s
14 unsuccessful attempt to get medical care at a hospital, despite reportedly “coughing up blood” and
15 “losing control of my limbs”. This post, however, was removed by the moderator for “fear-
16 mongering.” Other users reacted negatively and suggested that SevenUp was “suffering from
17 severe anxiety,” or was simply “delusional”, perhaps suffering from Munchausen syndrome.
18
19 Members of the forum, therefore, began to think that SevenUp’s symptoms were perhaps “all in
20 their head”. Users did not seem to think SevenUp’s symptoms were credible because their reports
21 lacked resonance either with their own experience or with reports from the biomedical literature.
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23 After this incident, further posts from SevenUp were often dismissed. Ultimately, SevenUp
24 stopped posting in early June.
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33 We interpret the contrast between these two cases as indicating another function of the
34 hybrid interlanguage spoken by credible users on this forum. This observation is also more
35 generally relevant to the literature on lay expertise. Typically, command of scientific language and
36 evidence is considered important for establishing a lay expert’s credibility with official experts,
37 while the sharing of personal experiences understood to be important for establishing one’s
38 credibility with other sufferers. We also have emphasized the latter part in our analysis up till now.
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40 What we would like to suggest now, also, is that somewhat paradoxically, command of the
41 scientific evidence and language, and especially the ability to establish its resonance with typical
42 experiences, serves as an essential resource for lay experts to convince other affected persons of
43 the relevance of their personal experiences. As Barker (2008) notes, the “strong desire to frame
44 one’s suffering within scientific medicine’s core assumptions demonstrates that medical discourse
45 still garners significant cultural authority” (29). How do people know that they share disease
46 experience with others? How do they know that their symptoms are “the same” as the symptoms
47 of another sufferer? There is evidence that it requires rhetorical work (and sometimes legwork) of
48 persuasion, furnishing of evidence, and the drawing of analogies such as with “respiratory illnesses”
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4 or to “SARS 1” (Brown et al. 2004; Arancibia and Motta 2019). Drawing on scientific language
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6 can play an important role in turning subjective, disconnected complaints into a shared illness
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8 experience. Similarity of symptoms can not, by itself, achieve this transformation because there
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10 are always going to be interpretive discrepancies between complaints and because their
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12 significance depends on attributing credibility to the complainer. In the cases described above,
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14 SevenUp, who did not draw on scientific language and evidence, was ultimately judged a non-
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16 credible complainer. Other users were not convinced that they shared the same symptoms. The
17
18 counterfactual is that a discussion board composed only of “SevenUps” would have been unlikely
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20 to cohere into a shared illness experience.

21 This careful choreography of lay expertise—weaving together personal experience,
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23 comparisons with the experience of other patients, and the use of scientific knowledge and
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25 language—can also be seen in a thread from early April, titled “It Gets Better: Here's my
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27 Experience with a Mild Case,” by a user named DogLover115, who contributed over 70 posts. 790
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29 users liked this post. As the title indicates, this is a personal account of DogLover115’s 40-days
30
31 long experience with Covid-19. It begins not with a claim to expertise, but with an expression of
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33 encouragement, sympathy and connectedness with other forum members. DogLover115 writes, “I
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35 want to let everyone reading this who are anxious to know that I am slowly getting better, and
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37 chances are this will be the case with lots of folks. I hope you will find some use of my
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39 documentation”. What follows is a very detailed account in which DogLover115 takes a semi-
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41 scientific attitude to their illness, dutifully measuring and recording symptoms, and constantly
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43 comparing their experience with the lists of symptoms found on official sources. DogLover115
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45 experienced noticeable symptoms for about 15 days, starting with an itch in the back of their
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47 throats and a warm feeling that developed into a fever by day 4. DogLover115 dutifully recorded
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49 their temperatures 2-3 times a day, and employed a “symptom severity scale” of their own making
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51 ranging from 1 to 10. All the while, they also noted the subjective feelings of illness. By day 6,
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53 DogLover115 had started noticing a loss in smell and taste—a telltale sign noted by many other
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55 forum users even before the widespread reporting of the symptom in the news media.
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57 DogLover115 explains that they detected this through what they called “the coffee test”: “I was
58
59 able to tell with my morning coffee. I couldn’t smell the coffee when it was brewing or when I
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61 was holding it in front of me”. This loss of sense of smell resonated with other users. As user
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63 QuietReader chimes in, “Whoa! Reading your story gives me flashbacks to when I dealt with this
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4 in February... My throat felt raw and burnt, and I couldn't smell and taste anything". The coffee
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6 test is a good example of how credibility is claimed and deployed. DogLover115 draws on their
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8 experience and other users' experience, compares this with official medical reports, and ends by
9
10 offering other users a practical test that anybody can perform in their kitchens. While this may
11
12 seem a somewhat trivial example, what stands out about it from the point of view we develop here
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14 is the fact that DogLover115's contributions were well-liked and did not lead to controversy. The
15
16 claim to expertise here was certainly modest, but perhaps precisely for this reason, it was also
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18 credible.

19 As indicated above, the capacity of users to speak beyond their own illness experience is a
20
21 crucial component of lay expertise. While users draw on their experience to compare and
22
23 generalize across cases, biomedical knowledge can also be used to bolster a user's understanding
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25 of their own illness experience and—when brought in carefully—to share their own illness
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27 experiences with others. This can be seen through the links shared most frequently on the forum.⁸
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29 Users tended to favor sources directly from scientific literature that describe novel findings. This
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31 included links to the studies themselves or news articles and blog posts that covered the findings.
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33 For instance, the most shared scientific article is a preprint from Poletti et al. (2020) titled
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35 "Probability of symptoms and critical disease after SARS-CoV-2 infection" that analyzed the
36
37 symptoms of 5,484 Covid-19 cases in Italy and described risk factors of critical disease. Other
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39 studies that were frequently shared include findings that the loss of smell and taste was associated
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41 with Covid-19 and the prophylactic usage of Zinc and vitamins. There were also links to Youtube,
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43 such as a video titled "Recovering from COVID-19 / Can Coronavirus cause Post Viral Fatigue?"
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45 uploaded on April 30, 2020, which discussed studies related to Post-Viral Fatigue Syndrome
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47 (PVFS) and goes on to describe the vlogger's personal experience with PVFS. In their words, "I
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49 wanted to make this film to put the word out there to other people out there like me who are maybe
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51 still suffering two months after an initial infection to say you're not mad, it's not in your head".
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53 This phrase is especially telling because SevenUp, after all, was judged by other users to be
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55 somewhat "mad," their symptoms somewhat "in their head." This genre of video is representative
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57 of the same hybrid interlanguage seen in *Covid-19 Together*. It illustrates the role that this

58 ⁸ In total, there were 744 unique links that were shared 3421 times on the forum. These links are helpful in
59
60 understanding the sources of information drawn upon by users of the online community. Links to other parts of the
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62 forum (e.g. to the rules or other posts) were removed.

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4 language—especially the ability to build resonances between scientific research and personal
5 experience—plays in stabilizing illness reports, removing the suspicion of subjectivity (“in your
6 head”) and allowing symptoms to become shared. In contrast, official guidelines from CDC and
7 the FDA were less frequently shared. This suggests that users preferred to go directly to the
8 experiential source or the scientific source, without the layer of mediation represented by these
9 institutions. As we noted earlier, without context, citing these official guidelines appeared to users
10 as assertions from authority. This is important to understand regarding the current perception of
11 popular mistrust of science and experts. Users did not reject science, but they did question the
12 intermediary role of the public health expert in this radically uncertain situation. The public health
13 expert exercises honed judgment to assess different studies' value based on their rigor and quality.
14 But this judgment is mixed with other logistical, financial, and legal considerations—as was
15 evident in the Surgeon General’s disastrous tweet that facemasks “do not protect from Covid-
16 19”—and then translated into official guidelines and cutoffs (e.g. “positivity rates”). Without
17 carefully parsing these considerations—which itself runs the risk of descending into multiple
18 debates about evidence, values and judgment—following the guidelines appears dogmatic and
19 uncredible. To reiterate, scientific knowledge, such as the research articles in these links, was
20 integral for users in their attempt to understand the day-to-day experiences with Covid-19. Still,
21 they preferred to rely on the collective lay expert judgment that developed on the forum.

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There were instances where personal experience was not referenced, with users debating a particular study's scientific merits. Users do this at their peril as moderators may shut down discussions that venture too far off from personal experience or seem to look too much like medical advice. Those who engage with such discussions tend to either have accumulated lay expertise, or have prior exposure or training in the relevant scientific fields. This was seen in the case of discussions over the potential dangers of using Ibuprofen, following reports that Ibuprofen may increase the severity of Covid-19. In a thread from mid-March from Hamster9090 titled “Could use some help. I feel awful”, a discussion over how to suppress a fever unfolded:

Hamster9090: I feel terrible. I’m experiencing shortness of breath, nausea, chest pains, aches all over, chills, malaise, giddiness... I want to get tested tomorrow but the clinics are running out of tests. Is there anything I can do to make myself feel better meanwhile?

[...]Summer151: Use medicine to lower your temperature like Tylenol, Ibuprofen, if you develop a cough keep sucking on cough drops to repress it, keep your intake of fluids up, if you can manage food eat small amounts at a time, the main thing is keeping you hydrated and your calorie count up, I hope you get better and can get medical treatment as soon as possible

LurkingUser: Do not take Ibuprofen. Studies in France have shown it to have a really negative impact on those infected. Take paracetamol or Tylenol!

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4 **SmoothJazz:** It is not a French study, though the French Health Minister did Tweet about it. It was a letter
5 to *Lancet* *hypothesizing* that ACE inhibitors and Ibuprofen *may* increase susceptibility because of known
6 effects on cell surface density of the particular receptor the virus utilizes to gain entry. There are no empirical
7 studies yet. The letter was published only a few days ago, although there certainly will be studies soon

8 **MiamiSoul:** Link please.

9 **LurkingUser:** Apologies, should have provided the link right away.
10 [https://www.theguardian.com/world/2020/mar/14/anti-inflammatory-drugs-may-aggravate-coronavirus-](https://www.theguardian.com/world/2020/mar/14/anti-inflammatory-drugs-may-aggravate-coronavirus-infection)
11 [infection](https://www.theguardian.com/world/2020/mar/14/anti-inflammatory-drugs-may-aggravate-coronavirus-infection)

12 **CovidQuestions:** Absolutely no medical experience whatsoever here, just questioning as a novice, isn't fever
13 helpful when fighting a virus? Why would you want to repress your immune response in a time like this?

14 **Lvchee09:** You'd want suppress your immune system because of the cytokine storm. It's the immune response
15 that kills people. People of going from mild symptoms to organ failure.

16 **LiveYourLife:** What should we do then?

17 **Lychee09:** I don't know. It's dammed if you do, and dammed if you don't. I read an article, where China has
18 been administering vitamin C intravenously to mitigate cellular damage caused by the cytokine storm.

19 **James999:** There is also a trial using tocilizumab, a monoclonal antibody that inhibits one of the cytokines
20 (interleukin 6 or IL6) showing great results so far.

21 [...]**Ohio12:** Not a doctor, but a middle school science teacher. I explained it to my students like this: "A
22 fever is much like a game of chicken. Your body is raising it's temperature in the hopes that the
23 temperature change kills the virus in your body before it shuts down your organs." Tylenol can lower your
24 fever before it gets dangerously high.

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27 The exchanges discussing Ibuprofen did not draw on personal experiences at all. Rather, users
28 drew extensively from existing biomedical knowledge and provided each other with medical
29 advice, seemingly in direct contravention of the forum's rules. And yet the discussion was not
30 flagged, nor did it descend into acrimonious accusations. This is probably because users were
31 careful to preface comments with the disclaimer "I'm not an expert, but..." (CovidQuestions and
32 Ohio12). How the forum's spirit, if not its explicit rules, continued to be present in this discussion,
33 was captured in MiamiSoul's ability to simply say "link please" and "LurkingUser's" immediate
34 apology, acknowledging an apparent deviation; and in Ohio12's use of a simple metaphor, of the
35 game of chicken, to appeal to other users' common sense.

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38 To summarize: to become a lay expert on this online community, users adopted a pragmatic
39 stance towards credentialed expertise. They were able to pick and choose scientific research that
40 resonated with their personal experiences, though no doubt they also learned to reinterpret their
41 experiences to produce this resonance. To enjoy credibility on the forum, users developed the
42 ability to report their embodied, personal experiences in a semi-scientific register. For scientific
43 knowledge to be authoritative in the forum, it had to resonate with personal experience. It had to
44 carry the marks of a personal taste in selecting what and whom to believe. This hybridity was part
45 of the script for a credible performance of lay expertise during the radically uncertainty of the
46 Covid-19 pandemic.

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5. Conclusion

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4 By using Goffman's dramaturgical theory of social interaction, this study of lay expertise
5 on *Covid-19 Together* showed how a hybrid interlanguage was deployed by users to gain
6 credibility and give advice to each other during the radical uncertainty of the pandemic's initial
7 months. Through asking questions and speaking to one another, users learn to play the role of the
8 lay expert, and acquire the capacity to speak beyond their own illness experiences by comparing
9 and generalizing from personal experiences, and by linking these experiences with scientific
10 knowledge that is resonant. By tracking the audience's reaction to attempts at advice-giving, we
11 found that the types of credentialed expertise that resonate with users on *Covid-19 Together*
12 included knowledge congruent with a patient's illness experience and knowledge that helps solve
13 problems that the patient encounters. Through this process, biomedical knowledge becomes
14 integral to shaping the collective illness identity of affected patients, by enabling patients to
15 constitute an audience of peers that recognize similarities in otherwise disjointed illness
16 experiences.
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18 This script of hybrid interlanguage for performing credible lay expertise may also be
19 observed in other patient communities in varying degrees. But as Goffman would point out, new
20 audiences and situations may require adjustments to the performance of lay expertise. What made
21 this hybrid interlanguage particularly credible was the radical uncertainty at the pandemic's onset.
22 When this uncertainty subsides, such a strategy may not be needed, as patients can simply draw
23 either on their own experience or on scientific knowledge to make their claims. But one could also
24 see the hybridity of lay expertise on this forum as enabling patients to prepare for their interactions
25 with policymakers, physicians, and researchers. In this way, the forum itself can be seen as a
26 backstage in the longer development of lay expertise. Stepping out of spaces like *Covid-19*
27 *Together* and in front of different audiences and onto different stages necessitates changes in how
28 patients speak, such as by citing medical protocols, the latest research studies, and the telling of
29 particularly moving anecdotes. Thus, the hybridity and the interlanguage observed in this online
30 community can serve as a staging ground for preparing future interventions. As patients learn to
31 speak beyond their own illness experience and generalize from their case, they may eventually
32 learn to speak *for* the patient community, mobilizing fellow patients to demand more from
33 policymakers and researchers. Future research on the interactional and performative dimension of
34 expertise should also pay attention to the different roles patients can play within patient groups,
35 such as the role of the mediators that lends credibility to newcomers.
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4 Additionally, thinking of lay expertise as a hybrid form of expertise enables us to consider
5 the implications of the politicization of expertise seen in the United States and the contested
6 cultural authority of science in this historical moment. Users' preference to avoid advice from
7 public health authorities and institutions of regulatory science and go directly to pre-prints and the
8 latest scientific article reflects the broader mishandling of the pandemic. The phrase “I’m not an
9 expert, but...” that is repeated on the forum should not be interpreted as only a disclaimer that the
10 advice dispensed by users is “not scientific”, but also as a strategy for users to continue to help
11 others while side stepping the mistrust of experts. As Goffman (1955) details in writings on face-
12 work, participants in social interactions go to great lengths to preserve lines of communication. To
13 invoke Goffman (1986), again, this performance of lay expertise attempts to avoid the current
14 stigma and spoiled identity of credentialed experts. By presenting themselves as “just a patient”,
15 users on the forum gradually acquire credibility and contribute to ongoing discussions about
16 Covid-19 without causing more controversy. Further research on expertise in this moment of crisis
17 can further shed light on what other performances of expertise can resonate across social, political,
18 and cultural divides.
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22 The long term impact of Covid-19 on the subgroup of patients with enduring symptoms—
23 “long Covid” or “long-haulers”—will be an area where lay expertise will undoubtedly shape the
24 development of biomedical knowledge. A November 2020 *60 Minutes* segment profiled Covid-19
25 long-haulers suffering from lingering symptoms months after their initial diagnosis (Cooper 2020).
26 The long-haulers interviewed in the segment reported that they initially faced significant
27 difficulties in getting medical professionals to take seriously their complaints. Patient Nitza
28 Rochez recounted her experience at the emergency room: “The doctors were like, ‘You’re fine.
29 You’re having anxiety attacks. You’re nervous. Breathe... They thought it was in my head.” Only
30 once she arrived at Mount Sinai Hospital’s Center for Post-Covid Care, was she able to find
31 physician-researchers who believed her. When asked why those at the Center believed in the
32 experience of long-haulers, Dr. Dayna McCarthy replied: “I have to. Because I feel those
33 symptoms too. And I don’t think it’s all in my head”. Their shared experience as long-haulers, Dr.
34 McCarthy suggested, allowed the medical personnel at Mt. Sinai to recognize the long-term effects
35 of Covid-19. But, of course, it was also crucial for Nitza Rochez that these were credentialed
36 medical experts who validated her symptoms. Without the combination of shared experience *and*
37 medical authority, patients like Rochez would have been left thinking that “it’s all in my head”.
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4 Already, groups such as *The Body Politic*, *The Patient-Led Research Collaborative*, and *Survivor*
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6 *Corps* are working with researchers to understand the effects of long Covid better, converting the
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8 hard-fought lay expertise they developed within the patient community into credible performances
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10 of expertise that is recognized by medical, scientific, and policy audiences.

11 12 13 **References**

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