OPEN LETTER

Why the Patient-Made Term 'Long Covid' is needed [version 1; peer review: 1 approved with reservations, 1 not approved]

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Abstract

The patient-made term 'Long Covid' is, we argue, a helpful and capacious term that is needed to address key medical, epidemiological and socio-political challenges posed by diverse symptoms persisting beyond four weeks after symptom onset suggestive of coronavirus disease 2019 (COVID-19). An international movement of patients (which includes all six authors) brought the persistence and heterogeneity of long-term symptoms to widespread visibility. The same grassroots movement introduced the term 'Long Covid' (and the cognate term 'long-haulers') to intervene in relation to widespread assumptions about disease severity and duration. Persistent symptoms following severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection are now one of the most pressing clinical and public health phenomena to address: their cause(s) is/are unknown, their effects can be debilitating, and the percentage of patients affected is unclear, though likely significant. The term 'Long Covid' is now used in scientific literature, the media, and in interactions with the WHO. Uncertainty regarding its value and meaning, however, remains. In this Open Letter, we explain the advantages of the term 'Long Covid' and bring clarity to some pressing issues of use and definition. We also point to the importance of centring patient experience and expertise in relation to 'Long Covid' research, as well as the provision of care and rehabilitation.
Keywords
COVID-19, Long Covid, naming of diseases, patient advocacy, patient movements, patient-led research, SARS-CoV-2, symptoms

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Competing interests: All authors have been involved in different forms of patient advocacy in relation to 'Long Covid'

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Introduction
This Open Letter aims to contribute to multi-stakeholder discussions over how to conceptualize and respond to symptoms that persist several weeks after symptom onset suggestive of coronavirus disease 2019 (COVID-19). As authors, we all experience such symptoms and have contributed to international patient advocacy in relation to the acknowledgement and conceptualization of such symptoms. We also bring interdisciplinary expertise from the humanities, interpretive social sciences, arts, medicine and public health, science policy, patient involvement, and ethics in research. The Open Letter explains why we believe that the patient-made term ‘Long Covid’ is a helpful and capacious term that is needed to address key medical, epidemiological and socio-political challenges posed by long-term symptoms. Persistent symptoms following severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection are now one of the most pressing clinical and public health phenomena to address: their cause(s) is/are unknown, their effects can be debilitating, and the percentage of patients affected is unclear, though likely significant. The term ‘Long Covid’ has now been taken up in scientific literature, the media, and in clinical, policy, and governmental spaces. Uncertainty regarding its value and meaning, however, remains. In this Open Letter, we explain the advantages of the term ‘Long Covid’ and bring clarity to some pressing issues of use and definition.

What is ‘Long Covid’?
‘Long Covid’ is a patient-made term that, in the absence of formally agreed definitions, we use here to describe diverse symptoms persisting beyond four weeks after symptom onset suggestive of COVID-19. Many patients who have remained ill for months initiated support groups and grassroots campaigns to bring the condition to visibility[13]. ‘Long Covid’ (and cognate ‘long-haul Covid’) now appears in journals[3,4], and has been used by clinical and governmental actors and WHO meetings[4-5]. Doubts and imprecision about its meaning remain, however, and an epidemiological definition is needed. For this, two other definitions must be considered: a clinical case definition of COVID-19, which does not solely rely on laboratory confirmation; and a sophisticated definition for recovery that accounts for relapsing illness[6,10]. Once those definitions are in place, quantifying ‘Long Covid’ by excluding what it is not, ‘Long Covid’ remains a capacious and powerful term – one that has passed from patients to use by the WHO in under three months.

‘Long Covid’ was first used by Perego[1] as a contraction of long-term Covid illness to engage with her experience of a cyclical, multiphasic, and multi-system condition extending temporally and clinically beyond a biphasic pathway identified, for example, by Lescure et al.[12]. The cognate term ‘long haulers’ was independently established by Watson for the support group she founded[13], and brought to wide attention by Yong[14]. Exchanges amongst patients, as well as print and broadcast journalism, have been central in consolidating both terms. Patient-led surveys made visible the diversity and persistence of symptoms[15]; these findings are now being replicated in peer-reviewed journals[16,17]. Scientists do not yet know what causes long-term symptoms[18], and incidence remains uncertain: case studies indicate 10–87% present persistent symptoms or fail to return to their health baseline three weeks after onset[16,17,18]. These figures, however, derive from heterogeneous study designs and samples.

We argue here that ‘Long Covid’, as an open and malleable term, has many advantages for describing persistent symptoms and/or sequelae of infection, as well as for navigating the dramatic scientific and socio-political challenges posed by the pandemic. In addition to itemizing these advantages below, we point to important considerations we believe should be kept in mind when conceptualizing and defining ‘Long Covid’.

Composite and multi-dimensional
‘Long Covid’ points to vastly variable clinical manifestations. It may incorporate several conditions with different aetiologies and more than one mechanism, even in the same patient. Effects in multiple organs have been documented[20,21]. Ongoing fatigue appears common[2,3,22]. While waiting for further research, ‘Long Covid’ may, mechanistically, include patients with symptoms variously deriving from direct viral damage, immune response damage, opportunistic bacterial infections, and post-viral/post-sepsis symptoms[23-27]. Additional post-traumatic and mental health symptoms might interact with physiological symptoms in complex ways[28,29]. ‘Long Covid’ accounts for the possibility of persistent viral infection with low levels of viral shedding; protracted immune reaction; latency; or the presence of virus in reservoir organs or tissues[23,30]. SARS-CoV-2 also appears to be able to re-infect[31], and to have the potential to precipitate new disease[32-34].

‘Long Covid’ patients require prompt, multidimensional diagnostic investigations and treatment – not least to rule out potentially life-threatening developments[4]. Those who were not hospitalized, and those who were not tested or have negative PCR/antibody tests, must be able to access diagnostic and therapeutic services[4]. Trauma and psychological symptoms are reported in both hospitalized and non-hospitalized survivors and need to be addressed sensitively[32]. Differential diagnosis that does not reduce ‘Long Covid’ to psychological symptoms is crucial. We urge researchers and clinicians to tread a careful line which: (i) does not assume that symptoms are caused by anxiety; (ii) acknowledges that COVID-19 is frequently a traumatic experience; (iii) considers many potential mechanisms in explaining mental health symptoms – including inflammatory responses and neurological damage[21,22,35].

Disease severity
‘Long Covid’ intervenes in early classifications of COVID-19 as mild, severe, and critical, built on reports from Wuhan[36,37].
COVID-19 was initially assumed to be a respiratory disease: classification was based around pneumonia severity and respiratory and/or multiple organ failure. It has become clear this categorisation does not do justice to heterogeneous disease trajectories. COVID-19s now primarily characterized as a multi-systemic disease: mild manifestations in the prodromal stage can progress to severe disease and sequelae, including cardiovascular, thrombotic, and neurological manifestations. Interstitial COVID-19 pneumonia can be asymptomatic/pauci-symptomatic, challenging any easy adjudication of severity. Heterogeneous disease pathways and comorbidities – particularly those rendering people vulnerable, e.g. dementias – are likely to make it harder to parse ‘Long Covid’ symptoms. Aberrant immune response might be involved in persistent symptoms and additional organ damage. By deconstructing the current mild vs severe dichotomy, ‘Long Covid’ underlines that hospitalization is an imperfect indicator of severity, even if has been used as such in studies. Criteria for admission varied from country to country, and within countries, and there are indications from hotspots that severely ill patients were not hospitalized. To rely on hospitalization as a demarcation of severity creates skewed samples, including poor representation of younger/pediatric patients. In any case, persistent symptoms impairing an individual’s usual function and quality of life should not be called ‘mild’.

Other clinical arenas indicate the difficulty of assessing whether severity criteria should be based on risk of death, symptomatology, extent of impairment, or symptoms longevity. ‘Long Covid’ insists that definitional resolutions need to include the perspective and published records of multiple patients with different temporal and clinical pathways. This has significant implications both for the way that individuals are medically treated and cared for, and how risk of infection is approached at a population level.

Nature and duration of disease
While we provisionally define ‘Long Covid’ patients as those who have not recovered within four weeks from symptom onset, the point at which COVID-19 moves out of its acute phase remains unclear, and may vary in different patients. Duration and final outcomes of, and recovery from, ‘Long Covid’ are also unclear. Further research needs to address the complex host-pathogen interaction. While similarities between some ‘Long Covid’ symptoms and symptoms from conditions such as Myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) and dysautonomia need to be investigated, there is a risk of prematurely framing studies of ‘Long Covid’ through other diseases. This might downplay emerging phenomena specifically linked to COVID-19 – such as the range of SARS-CoV-2 action via ACE2 receptors widespread in the body, and the temporally and spatially complex immune response to the virus – thereby missing thresholds for early intervention.

‘Long Covid’, through assuming agnosticism in relation to an as yet not understood disease course, side-steps the problems of ‘post-’ (e.g. ‘post-Covid syndrome’, ‘post-acute’) and ‘chronic’. It advocates instead for a nuanced and personalized approach to each patient – including monitoring and intervention both early in the infection and as a follow-up.

Prevention and morbidity
We need to adequately assess both morbidity and mortality in ‘Long Covid’ cohorts – including in those who were not tested at the time of infection or via effective serology screening, since testing is not exempt from pitfalls. The personal, economic and social costs of ‘Long Covid’ are unfathomable. They include screening; medical, rehabilitative and social care; and meeting costs associated with long-term disability, including lost productivity. Research indicating sequelae, even in asymptomatic/pauci-symptomatic cases, suggests screening and treatment may be needed for millions. The impact on already marginalised/minoritised communities will be particularly profound. ‘Long Covid’ calls for greater specificity in measuring ‘symptom duration, fluctuation, overall functionality and quality of life in comparison to before infection’. Understanding ‘Long Covid’ is also crucial for prevention, and will help determine pandemic control policies.

Centring patients
‘Long Covid’ was made by grassroots, international movements of people experiencing a new disease. Patients, many of them undergoing traumatic experiences in dramatic circumstances, engaged in self-reflection and observation, collective support, advocacy and activism. Many are closely involved in and engaging with fast-moving scientific literature; some are themselves clinicians and/or researchers.

Patients should be involved in the commissioning of research and clinical services. Many bring relevant expertise and some convene/own patient-led archives hosting extensive clinical data.

‘Long Covid’ demands that medical professionals, the media and the wider community are sensitive to the trauma experienced by patients. Some were left untreated, to die at home; many were misunderstood or had their symptoms reduced to anxiety. Some have been caring for ill – or dying – family and friends, and many have lost jobs or are under threat of losing their livelihoods, medical insurance or visa status. Patients’ datasets of symptoms, and potential therapeutics, carry risks of exploitation. Rapid gathering of DNA and other data from ‘Long Covid’ groups poses significant ethical challenges, including the use of sensitive information shared on different media to raise awareness in an unprecedented crisis.

Disability-inclusive
‘Long Covid’ is explicitly disability-inclusive. Many who made ‘Long Covid’ – including some of us authors – have experienced disability, suffered discriminatory healthcare practices, and drawn on models developed within disability activism/research. ‘Long Covid’ also acknowledges the experiences of those who were healthy, or did not identify themselves as disabled/chronically ill, before infection. ‘Long Covid’ insists that long-term symptoms, disability, and rehabilitation...
are complex phenomena extending beyond questions of biology and physiology. They are entrenched unevenly within the socio-environmental milieu of communities.\textsuperscript{37–40}

The perils of pandemic medicine

‘Long Covid’, with its aetiological openness, recognizes the risks inherent to emergency medicine. These include: speculative therapeutics; inadequate care risking persistent/permanent damage; over-hasty diagnosis and diagnostic lumping – particularly in the context of trauma in clinicians and patients; lack of access to testing and diagnostic tools; and stigma. When in-depth testing evaluating biological markers is not available, or when such tests do not explain symptoms or the exact duration of viral persistence, the risk of misdiagnosis remains high.

‘Long Covid’ acknowledges the potential for persistent illness to be caught up in political and medical misunderstandings and exploitation. The definition and treatment of complex phenomena (‘Long Covid’) that emerge in relation to an equally complex, currently not well understood disease (COVID-19), itself of contingent definition, are full of danger. We do not currently know whether all ‘Long Covid’ patients are indeed ‘post-viral’.

Anthony Fauci has stated that a COVID-19 ‘post-viral syndrome’ is ‘strikingly similar to myalgic encephalomyelitis/chronic fatigue syndrome’\textsuperscript{49}. While we acknowledge the importance of investigating comparisons with other diagnostic entities, we argue however against enfolding ‘Long Covid’ within other diagnoses. We need a label distinct from other phenomena related to earlier viral and other exposures (e.g. ME/CFS). We also question the term ‘Post-Covid Syndrome’: we believe it carries not only risks of misdiagnoses and mismanagement, but also of leaving those with persistent illness behind, especially in a post-vaccine world.

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**Conclusion**

The term ‘Long Covid’ emphasizes the only aspect of illness comprising persistent symptoms about which there is currently certainty: illness is long in relation to the prevalent early public message of two weeks of illness in mild COVID-19 cases.\textsuperscript{46,48} The simplicity and strength of ‘Long Covid’ as a term helps the fight for fair recognition on a global scale, and calls for care, equity, compassion, and collective action – involving prominent actors, stakeholders, and activists. It is founded on demands for a nuanced, patient-focused approach – one incorporating wide-ranging investigations of potential post-viral conditions but, crucially, recognizing the pathogenesis of SARS-CoV-2 as specific in its own right. We need to avoid the severity or prevalence of ‘Long Covid’ being downplayed – whether for political purposes, privileging the claims that the economy is at odds with reducing levels of infection, or for fear of inadequately resourced healthcare systems.\textsuperscript{32} We need to ensure the public knows about the potential ‘Long Covid’ consequences of infection when they are balancing the risks of exposure to SARS-CoV-2.

In coming months, it is possible some clinical sub-disciplines or research groups, might be favoured – especially if specific medical/legal definitions for those with long-term symptoms are imposed or achieved. Which patients might be left out? How will funds be allocated for research and treatment? Who will qualify for disability benefits/sick pay? How can we ensure that evidence about variation in patients is not disregarded and exacerbates inequalities?

‘Long Covid’ calls for collective responses to such questions, in which the expertise of ‘Long Covid’ patients is recognised within multi-disciplinary teams of researchers, stakeholders and care providers. Extensive involvement of ‘Long Covid’ patients has the best chance of ensuring that conceptualization, investigation and treatment of ‘Long Covid’ are attentive to the cultures, health systems, and discriminatory societies where patients live.\textsuperscript{35,50} ‘Long Covid’ must not be understood as the outcome of biological processes alone.

**Data availability**

Underlying data

No data are associated with this article.

**Acknowledgements**

Ideas in this Open Letter have benefitted from conversations with multiple Long Covid patients and advocates in many countries. FC thanks Jane Macnaughton and Leon Rocha, principal investigators of the two grants listed, for their support.

### References


Open Peer Review

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Version 1

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1. Information about Covid-19 as the pandemic struck the UK was confined to a single WHO Report that stated the median time from onset to recovery for mild disease was two weeks and 3-6 weeks for people with severe or critical disease.

2. Long covid is a term that came about as a result of a large number of people reporting symptoms that persisted for weeks, sometimes months. It was particularly striking because people who expected a mild illness and had not been hospitalised—and were often previously fit and well—suffered these symptoms. This includes myself.

3. These seem to be a combination of post-viral symptoms associated with a number of other viral illnesses: POTS, exhaustion/fatigue being common, brain fog. There are also other post-viral effects on the heart and other organs that are just emerging.

4. There is also a worry with late complications of Covid-19 infection, including strokes and PE.

The abstract
1. I would argue that “their causes are unknown”. We know the cause: covid-19 infection, and many symptoms are very similar to other post viral syndromes.

2. I would argue a keyword should be “post-viral syndrome”: mainly to ensure we don’t start reinventing conditions that have been previously recognised and treated by infectious disease specialists and others.

Introduction
1. It is a good idea to have a capacious term, but I would be careful about researchers from the social science and public health areas defining a condition medically. Why not have it as a good holding term whilst further research on its causes and management is carried out?

2. I am concerned personally, as part of Long Covid as a patient, of defining something
because I am fundamentally conflicted as I have the disease as an entity. A good holding
term-yes; a permanent medical definition – no. The clinicians need more time to sort this
out-but you may be able to stop them calling it a syndrome. So please make this stronger
perhaps!

3. I am also concerned about the implication in the term Long Covid that it is caused by
persistent Covid-19 infection. It’s not but to the person on the street this is what it sounds
like and there will be permanent confusion in the public about whether people with Long
Covid are infectious. We know that this is mainly a post-viral phenomenon. The term
however suggest PERSISTING INFECTION. We don’t call people with glandular fever still
symptomatic at 9 months as “Long Glandular Fever”. We know by the nature of the disease
that this is the natural history of the disease-it lasts a long time in some people. So maybe
covid is like EBV-in some people there is a post viral phase that last for years.

4. There is also an issue about when the disease moves from “short” to “long”. The authors
state this is at four weeks, when “covid-19 moves out of its acute phase”. So in a sense they
are answering their own question, this is after the primary viral infection; if this is the case
then it is by definition, a postviral syndrome.

5. Again I agree about not framing it automatically with ME/CFS, but most ME/CFS is postviral.
I certainly agree with the nuanced and individualised approach to patient care.

6. I totally agree with measuring this somehow.

7. The disability could be expanded on. What disability are we talking about it. This needs to be
made clear. What is the evidence for discriminatory health care practices? Whilst I agree
with this, you need examples to make this cogent and believable.

Summary

1. I agree long covid avoids political/medical misunderstandings, BUT when the various causes
are untangled-postviral effects on the immune system, brain, lung, heart-then it will be a bit
clearer. And I agree having another “syndrome” specific to Covid would be extremely
counterproductive. But I am still not convinced this is just simply a set of symptoms in a
virus causing damage and long lasting effects that are seen with other viruses. The authors
do indeed start moving to this in the second to last paragraph.

2. So all in all a reasonable advocacy summary, well written, but we need to be careful that it
doesn’t do exactly what it is trying to avoid-creating a new phenomenon. This is a
temporary holding approach as we move forward to ensure a collective action between
health care professionals, researchers and society to assure people are helped in a non-
discriminatory way, and that “no-one is left behind”.

In summary, they need to be more explicit about the link between Long Covid and how this may
be a postviral syndrome as seen with other diseases. I would recommend but not insist that they
see it as a good "holding term" pending further elucidation of the causes of it in the team as
patients and others.

Is the rationale for the Open Letter provided in sufficient detail?
Partly

Does the article adequately reference differing views and opinions?
Partly

Are all factual statements correct, and are statements and arguments made adequately supported by citations?
Partly

Is the Open Letter written in accessible language?
Yes

Where applicable, are recommendations and next steps explained clearly for others to follow?
Partly

**Competing Interests:** I am sick with Long Covid at 7 months

**Reviewer Expertise:** epidemiology and public health

I confirm that I have read this submission and believe that I have an appropriate level of expertise to state that I do not consider it to be of an acceptable scientific standard, for reasons outlined above.

Reviewer Report 09 October 2020

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Ayo Wahlberg

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This is an important call to epidemiologically and medically normalize “Long Covid” following its grassroots emergence as a term used on various social media platforms by persons reaching out to similar others at a time where COVID-19 was solely known as either dangerously acute (for especially elderly and persons living with chronic conditions) or mild with quick recovery (for most others). This simple understanding of COVID-19 jarred with the experiences of thousands if not hundreds of thousands of people who had a confirmed diagnosis of COVID-19 or who had had symptoms without confirmation in the first half of 2020 yet who did not make a full recovery for weeks or months afterwards. Against this backdrop, the authors’ Open Letter reads as a strong and convincing call for action: “Persistent symptoms following severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection are now one of the most pressing clinical and public health phenomena to address: their cause(s) is/are unknown, their effects can be debilitating, and the
The key arguments of the authors is that 1) we need the term ‘Long Covid’, 2) we need to keep it open such that it remains an inclusive term, and 3) that it is preferable to ‘post Viral syndrome’ or ‘Post Covid syndrome’. In their words: “‘Long Covid’, through assuming agnosticism in relation to an as yet not understood disease course, side-steps the problems of ‘post-’ (e.g. ‘post-Covid syndrome’, ‘post-acute’) and ‘chronic’. It advocates instead for a nuanced and personalized approach to each patient – including monitoring and intervention both early in the infection and as a follow-up.”

While I do agree with the authors that we need the term Long Covid for the reasons they outline, I nevertheless would suggest that they look to and acknowledge more explicitly the important work that medical anthropologists, medical sociologists and other qualitative health researchers have carried out over the past decades focusing on how people (and their families) live with long term conditions. Long Covid has emerged as a form of ‘chronic living' for so many people in the wake of the pandemic. What we know from research on chronic living is that when people fall ill and struggle to get better, they (and their loved ones): search for meaning, look for explanations, devise coping strategies, mobilize therapy support groups, embark on therapeutic itineraries, try out a plurality of medical modalities in their search for something that ‘works’, innovatively adjust and tinker with the daily routines and the treatment regimens they follow, form bio-social communities to generate political attention to ‘their disease’, become biological citizens as they negotiate access to entitlements and demand health rights by tactically using biological knowledge. There are so many authors to acknowledge here, I can recommend Lenore Manderson & Carolyn Smith-Morris on “Chronic Conditions, Fluid States”, Jeanette Pols on “patient knowledge”, Arseli Dokumaci on “the disabilitisation of medicine”, Natasja Kingod on the “tinkering m-patient”, Jieun Lee on paradoxical forms of “living with/out”, Marie Svensson's work on “chronic paradoxes” and my own together with Nikolas Rose on “the governmentalisation of living” as “the social and personal consequences of living with disease come to be an object of political concern, and made knowable, calculable and thereby amenable to various strategies of intervention”. There are so many more relevant references!

If there is a moment to hammer home the crucial relevance of the social sciences/humanities in healthcare then surely Long Covid is that moment. This, for me, is what underpins the argument being made in this important open letter.

Is the rationale for the Open Letter provided in sufficient detail?
Yes

Does the article adequately reference differing views and opinions?
Yes

Are all factual statements correct, and are statements and arguments made adequately supported by citations?
Yes

Is the Open Letter written in accessible language?
Yes
Where applicable, are recommendations and next steps explained clearly for others to follow?
Partly

**Competing Interests:** No competing interests were disclosed.

**Reviewer Expertise:** medical anthropology, medical science and technology studies

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.