Learning from each other in the COVID-19 pandemic

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Abstract

The increase in cases of coronavirus disease 2019 (COVID-19) worldwide has been paralleled by increasing information, and misinformation. Accurate public health messaging is essential to counter this, but education may also have a role. Early in the outbreak, The London School of Hygiene & Tropical Medicine partnered with FutureLearn to develop a massive open online course (MOOC) on COVID-19. Our approach was grounded in social constructivism, supporting participation, sharing uncertainties, and encouraging discussion. The first run of the course included over 200,000 participants from 184 countries, with over 88,000 comments at the end of the three-week run. Many participants supported each other’s learning in their responses and further questions. Our experience suggests that open education can complement traditional messaging, potentially providing a sustainable approach to countering the spread of misinformation in public health.

Keywords

COVID-19, education, infodemic, MOOC

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Worldwide connectivity has facilitated spread of the virus causing COVID-19, and this has been almost paralleled by the spread of information and misinformation. Sharing accurate information, for example through reliable, trusted, social media accounts and websites, as well as responding to misinformation with MythBusters is important. However, education may also play an important role, to support health literacy, and early on in the outbreak of COVID-19, the London School of Hygiene & Tropical Medicine (LSHTM) agreed to develop a massive open online course (MOOC) on COVID-19, in partnership with FutureLearn, as described here, and following courses on previous outbreaks such as Ebola and Zika.

MOOCs offer an opportunity for wide participation, but there is a challenge to engage at scale, and maintain participation, and MOOCs can have high drop-out rates (between 95–98%). With these challenges in mind, we brought together a multi-disciplinary group to share and discuss, at pace, what a MOOC on COVID-19 could look like, in terms of approach, content and style. We grounded our MOOC in educational theory and utilised social constructivist principles. The pedagogical approach is considered to be the most important dimension in the quality of a MOOC, and constructivist approaches, placing the learner at the centre, have explicit expectations for engagement, to better support deep learning, and the ability to appraise information critically; important aspects for public health literacy.

We began with consideration of who the intended learners might be, and what they would know, and we structured the course simply, in terms of what was known at that time about COVID-19, what a public health response may look like – and fears – could be expressed and addressed was central. In the first run, just over a third of those enrolled completed the course, which included sharing uncertainties in terms of what was known, and encouraging discussion and questioning, which academics then responded to, helping to keep the course current.

Much of the feedback on the course, captured through course comments and the end of course survey, has been positive, highlighting the opportunity to gain new knowledge and skills, and in the first run, just over a third of those enrolled completed the course. Running the course, we felt that developing participants’ own learning, and providing a space where ideas – and fears – could be expressed and addressed was central to their learning and participation. But what surprised us was the level of expressed gratitude, perhaps reflecting a gap in such educational opportunities in public health.

Our experience suggests that MOOCs can be developed at pace, with an appropriately skilled and motivated team, to support learning in a public health emergency, and maintain quality across pedagogical, organisational, technological, and social domains. From a public health perspective, we consider that building individuals’ own capacity to question, to query the data, reports and guidance is essential, and complementary to the circulation of accurate public health information. Further investigation of the role of MOOCs to support health literacy, which has an established role in the context of patient education to support public health response in a pandemic.
behaviour change, should be considered in the particular context of infectious disease outbreaks, to better understand and inform public health practice.

**Data availability**

No data are associated with this article.

**Acknowledgements**

We would like to acknowledge all those who have, and continue to, contribute to the MOOC, “COVID-19: Tackling the novel Coronavirus”, as well as all those who have and are participating in it.

**References**


7. Shah S: *Chapter 4 - Health literacy and how to communicate effectively with patients to elicit a long-term behavioural change*. Editor(s): Emma Short *A Prescription for Healthy Living*. Academic Press 2021; 47–59. Publisher Full Text
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The open letter "Learning from each other in the COVID-19 pandemic" accomplishes this type of submission instructions, but there are improvements that could increase the impact of this contribution. The open letter describes the MOOC on Covid-19 developed and how many people were engaged and what they learnt in general terms. But, the following specific instruction is not well addressed "The rationale for the Open Letter should be explained, including an outline of existing challenges and the purpose of the letter, different views and opinions in the field should be referenced appropriately". The open letter describes more the specific experience obtained with the "MOOC on Covid-19", but a general overview on this topic with different views is missed. Another improvement to be considered is to illustrate results with specific examples, not as a research paper because the open letter does not require this, but it could help to identify the real benefits and improvements of applying this type of MOOC.

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:** No competing interests were disclosed.

**Reviewer Expertise:** My areas of research are: communication sciences, education and sociology.

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.

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The Open letter states that education would be one of the main benchmarks for avoiding misinformation by presenting the impact of the MOOC developed by the London School of Hygiene & Tropical Medicine partnered with FutureLearn. Although the topic is certainly relevant and timely it is suggested to add more references to support the arguments that could build up a more suitable and relevant theoretical framework.

It is suggested to add some literature about MOOC focusing on specific features, about learning communities, which is a specific research topic in the open letter; and, also it is recommend some literature about misinformation, authors state that education is in the basis of facing misinformation but it is barely explained. This is essential for a better understanding of the main statements contained in the open letter.

The authors provided the rationale for the Open Letter however they should also outline existing challenges in the field for instance the level of dropout in MOOCs. The Open Letter just focus on descriptive numbers in terms of participants, countries or comments, but how many of that first run participants finished the MOOC?

Facing misinformation is challenging in different dimensions and globally speaking as acknowledged by WHO with the “infodemic” problem. In this regard, it should be better if authors are less enthusiastic with their statements such as: “By using open platforms to build communities of learners, to share the values of academia through education, we can support sustainability in countering the spread of misinformation”. A more cautious and realistic wording is suggested, underlining the value of these initiatives in alleviating part of the problem.

**Is the rationale for the Open Letter provided in sufficient detail?**
Does the article adequately reference differing views and opinions? 
No

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? 
Not applicable

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

**Reviewer Expertise:** New learning approaches, digital literacy, digital skills, digital communication, learning methodology.

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.

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**Silvia Lizett Olivares Olivares**

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The open letter describes a MOOC with high impact on participants learning about an important topic. The purpose to educate the public is important to address their concerns and misinformation about COVID-19.

I would recommend supporting information with MOOC literature, specially about quality dimensions, design and specific features.

Results from the MOOC are only oriented by numbers (participants, countries, or comments). I recommend describing the type of feedback received from quotes, or satisfaction measures.

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

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?
Yes

Competing Interests: No competing interests were disclosed.

Reviewer Expertise: Higher education research, especially health sciences education.

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.