STUDY PROTOCOL

Well-being, Interventions and Support during Epidemics (WISE): Protocol for a qualitative longitudinal study of older adults’ experiences during COVID-19 [version 1; peer review: 1 approved, 2 approved with reservations]

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Abstract

Background: The coronavirus disease 2019 (COVID-19) pandemic has the potential to trigger multiple stress domains and lead to long-term repercussions in an individual’s quality of life, health and well-being. Stressors from the pandemic are likely to be experienced in many ways by older adults with heterogeneous life experiences and supports available. In this context, it is necessary to tease out the underlying mechanisms leading to positive and negative well-being and mental health across interdependent individual, social and environmental factors. The aim of the present study is to explore community-dwelling older adults’ experiences during the COVID-19 pandemic, with a particular focus on mental health and psychosocial well-being.

Methods: An exploratory longitudinal qualitative study will be conducted with data collected through written submissions, sitting interviews and walk along interviews with older adults living in Irish community settings. Data collection will take place 3 to 10 weeks apart to enable the exploration of individuals’ responses to the evolving social, economic and environmental circumstances derived from the COVID-19 pandemic in Ireland. An iterative thematic analysis will be carried out to identify data themes, linkages, and explanations within a socio-ecological framework.

Ethics and dissemination: Ethical approval has been granted by the Royal College of Surgeons in Ireland, Research Ethics Committee (REC202011028). Findings will be disseminated through peer-reviewed journal publications, oral presentations at relevant conferences, and in consultation with Public and Patient Involvement (PPI) contributors. A lay summary of findings and infographic will be distributed to multiple stakeholders including our PPI panel, older people,
correlates with well-being, and there are many different factors that can influence
mental health and psychosocial well-being in older adulthood.

Keywords
- mental health, psychosocial well-being, support strategies, older adults, COVID-19, qualitative research, socio-ecological framework

This article is included in the Coronavirus (COVID-19) collection.

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Author roles: Guzman V: Conceptualization, Investigation, Methodology, Project Administration, Writing – Original Draft Preparation, Writing – Review & Editing; Foley R: Conceptualization, Methodology, Supervision, Writing – Review & Editing; Pertl M: Conceptualization, Methodology, Supervision, Writing – Review & Editing; Doyle F: Conceptualization, Methodology, Supervision, Writing – Review & Editing

Competing interests: No competing interests were disclosed.

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Background

The coronavirus disease 2019 (COVID-19) is having an unprecedented and widespread effect on all aspects of society. The effects of the disease itself and of the public health efforts necessary to contain the spread of the virus represent a broad-scale stressor that could lead to pervasive impacts on individuals’ mental health and well-being1–2. Evidence from previous massive infectious outbreaks suggests that possible effects of such stressors include long-term increased rates of anxiety, depression, post-traumatic stress, loneliness, suicidality and substance abuse3–5. These mental health consequences are likely to build on existing social inequalities and disproportionately affect vulnerable populations6.

Older adults have been identified as being at higher risk of developing severe illness if infected with COVID-19, and the highest mortality rate from the pandemic has been observed among this age group9,9. As a result, shelter-in-place orders and recommendations or restrictions of gathering and movement have been more stringent for older people10–12. Early studies on the psychosocial burden of COVID-19 on older populations have found that factors increasing stress levels include: uncertainty of the course of the pandemic, fear of infection in the face of lack of available treatments, disruption of ‘normality’ and previous healthcare routines, and deficits in social connections due to containment measures that require physical isolation and highlight the digital divide13–15. Findings emerging from the current pandemic indicate increased rates of loneliness, stress, anxiety and depression particularly among older individuals with pre-existing health problems16, lower levels of education and those who live alone17. However, older adults are a highly diverse population that is likely to experience stressors from the COVID-19 pandemic in multiple ways, and have heterogeneous access to coping and support strategies18. In this context, it is necessary to tease out the underlying mechanisms leading to positive and negative well-being and mental health across interdependent individual, social and environmental factors.

Understanding these mechanisms and developing appropriate interventions calls for special consideration of the interdependencies and bidirectional influences across multiple factors in a system, which is characteristic of socioecological frameworks19,20. The Bronfenbrenner socioecological model suggest that individuals are nested into multiple levels of influence21. At the core are the individuals’ socio-demographic characteristics, history, coping mechanisms and behaviours. The next level, labelled the microsystem, comprises the immediate social, built and natural environment21. This level includes, for instance, social interactions with family and friends or community organizations (i.e., church and volunteering groups), as well as household characteristics and access to natural environments from home. The mesosystem then comprises the interrelationships between an individual’s multiple microsystems22. The next level, the exosystem, includes broader formal and informal structures where the individual may not participate directly but influence their environment, such as mass media, the health care system and welfare services23. The highest level, denominated as the macrosystem, refers to cultural influences and ideologues31. Additionally, Bronfenbrenner proposes a chronosystem to reflect that interrelationships are dynamic and that the individuals’ interpretations evolve over time22.

From this ecological perspective, older individuals living through COVID-19 may need diverse resources and support systems to navigate daily activities and maintain stable psychosocial well-being23. Ultimately, access to social, affective and material resources enables health24, and given the restrictions of movement and shelter-in-place recommendations during the COVID-19 pandemic, proximate community resources and nearby ‘living spaces’25, including dwellings, gardens, parks, and the spaces that connect or separate them may play a particularly significant role26–28. However, it is relevant to note different users may perceive the same space in diverging ways and attach contrasting attributes to a specific area depending on context, and dynamic interactions within actors and networks29. For some, a neighbourhood park may trigger discrete therapeutic qualities that act as ‘stress-buffering’ mechanisms or provide opportunities to engage in physical activities that boost endorphins. Conversely, others may perceive the same park as a stressor if they believe that physical distancing is not feasible while they are there, or fear that others sharing the space are not adhering to public health recommendations.

Therefore, using longitudinal qualitative inquiry is critical to contextualize the evolving lived experience of community dwelling older adults during the COVID-19 pandemic, and to ascertain the role of specific social and environmental factors in enabling the conditions necessary to experience psychosocial well-being. Moreover, a qualitative approach provides the opportunity for older people to communicate their experiences with COVID-19 in their own words and to richly describe the relationships between multiple factors and their consequences.

This research protocol corresponds to the qualitative diagnostic component of the Well-being, Interventions and Support during Epidemics (WISE) study, and aims to explore community dwelling older adult’s experiences during the COVID-19 pandemic with a particular focus on mental health and psychosocial well-being. Findings from the proposed study will contribute to increased understanding of what/how resources and activities provided joy and respite, or lead to negative emotions and poor well-being, giving consideration to individual, social and environmental factors. It is expected that the exploratory approach of the present study will highlight gaps in current services and opportunities for future interventions, as well as showcase how older adults have successfully adapted to emerging challenges and supported others.

Research questions

• What are the experiences of community dwelling older adults during COVID-19 and how have these experiences influenced their mental health and psychosocial well-being?
• What do community dwelling older adults consider stressful or related to negative emotions during the COVID-19 pandemic, and, conversely, what brings relief or joy?
• What are perceived barriers or enablers for formal and informal support strategies?

**Methods**

**Study design**

An exploratory longitudinal qualitative study will be conducted and reported following the Consolidated Criteria for Reporting Qualitative Research (COREQ)\(^\text{30}\). A longitudinal qualitative approach will allow us to examine detailed information about how and why individuals’ mental health and well-being change over the course of the pandemic, and to explore the mechanisms and outcomes of particular environments and support strategies\(^\text{31}\). Moreover, the longitudinal approach is key to capture older adults’ response to the evolving circumstances and crisis points related to the COVID-19 pandemic, and consider how these interact with participants’ individual and socio-ecological characteristics.

A Public and Patient Involvement (PPI) group and advisory panel, consisting of community dwelling older adults, will provide advice on recruitment strategies, development of the interview guide, analysis of findings and development of dissemination strategies. The Guidance for Reporting Involvement of Patients and the Public ([GRIPP2]),\(^\text{32}\) will be used to describe PPI activities in reports and publications emerging from the study.

**Research team and reflexivity**

Interviews will be conducted, transcribed and analysed by VG. Transcription will be assisted by NVivo 12 software. RF, MP and FD will support data analysis by engaging in critical dialogue to identify relevant codes and key themes.

VG is a medical doctor and has received training in qualitative research methods as part of her ongoing PhD programme. She will conduct data collection and analysis supported and supervised by RF, MP and FD. RF is an associate professor of health geography with extensive experience of conducting \textit{in situ} qualitative research, particularly on therapeutic landscapes and the relationships between place, health and well-being. MP is a lecturer in psychology and experienced qualitative researcher. Her previous research has focussed on mental health, psychosocial supports, and older adults. FD is a senior lecturer in psychology and has extensive experience of conducting and supervising research related to mental health, health behaviours, quality of life and complex interventions, including qualitative evaluations.

Participants will not have established any relationship with the research team members prior to study commencement. Participants will be informed about the research purposes during preliminary contact, through the information leaflet and when obtaining informed consent.

Participants selection and recruitment

Participants will be recruited with a purposive sampling approach with reference to age (youngest-old [65–74 years old], middle-old [75–84], and oldest-old [>85 years old]), sex, and household location (urban vs. rural). Participants will be eligible to take part in the research if during the COVID-19 pandemic they are over 65 years’ old and are living in Irish community settings irrespective of household composition. The study will be open for individuals who meet the inclusion criteria and have the ability to use and understand the information to make a decision about their participation and communicate any decision made. Sample size will be guided by principles of saturation\(^\text{33}\). Due to the expected heterogeneity of the sample, it is anticipated in excess of 30 participants will be recruited\(^\text{34}\).

Recruitment activities will include public advertisements through social media and newsletters of community and charity organizations, as well as through contact with potential gatekeepers in relevant organisations (i.e., ALONE, Age Friendly Communities, Age Action Ireland, etc). Additionally, information on the study will be circulated via email to other relevant stakeholders involved with providing care and/or support to older adults or involved with mental health initiatives. Phone calls will be arranged with prospective participants to provide an introduction to the study and offer to send further information and consent forms either via email or traditional post. A follow-up phone call will take place around 2–5 days later to allow participants to consider participating.

**Data collection**

Due to the evolving nature of COVID-19, the heterogeneity of the sample, and the need to capture experiences in detail, a multi-method approach will be utilized to collect data. Similar multi-methods approaches have been used previously in ageing studies to capture complex processes between individuals and their socioecological environments\(^\text{35}\). Data collection will take place at two time points between 3 to 10 weeks apart dictated by public health restrictions, roll out of vaccines and situation of the COVID-19 pandemic in Ireland. All participants will be invited to 1) submit written responses and images related to their experiences during COVID-19, 2) take part in an in-depth semi-structured interview (lasting approximately 45 minutes), and 3) engage in a go-along interview (lasting approximately 20 minutes, depending on the participant). Participants will be asked to voluntarily engage with the methodology that suits them best and can choose to participate in all components, only one or two.

Researchers will utilise a topic guide rather than a fixed schedule to guide data collection without rigid constraints, ensuring that the data are driven by participants’ perceptions and experiences. The topic guide will evolve as categories are discovered through the data collection and analysis. Subsequent activities will build up on emerging information and use maps and photographs to prompt further conversation and clarify ideas. Follow-ups will begin by providing a summary of the
previous exchange and themes identified, and then move on to focus on current feelings and discuss what has changed and why. This selective data collection approach will lead to focused information without producing an overwhelming amount of new information31.

For written submissions, researchers will provide a few open-ended questions as prompts for participants to narrate their experiences. No word limit will be placed for responses. For electronic submissions, an embedded map created with Padlet software [a web 2.0 tool widely used for educational purposes, which allows for virtual walls to be created for multiple types of files30], will be used to gather information regarding places of importance, with the option to attach accompanying audio files and/or images that detail their experiences and/or place characteristics. Analysis of the photographs and identification of important spaces will promote further reflection in complementary data collection, with opportunities to clarify related meaning and interpretations.

Interviews will be conducted at the time and location of participants’ choosing, either face-to-face, through a videoconferencing software or over the phone. The narrative interview schedule covers four thematic areas: 1) experiences during the COVID-19 pandemic, 2) perceived stressors and challenges during this time, 3) support strategies and support factors in the social, natural and built environment, and 4) concerns and beliefs about the future in relation to COVID-19. Interview guides will be developed in consultation with the PPI advisory group. Oral exchanges will be recorded, transcribed, and checked for completeness against recorded interviews.

For go-along interviews, participants will make all decisions regarding location, route, speed, and duration. Go-along interviews may take place, for instance, in the immediate space around a participant’s home or around their neighbourhood. Go-along interviews are considered in situ qualitative methods that provide a layer of depth and context to participants lived experiences30,36. The questions and observations along the go-along interview will allow the researchers to examine participant’s interactions and interpretations of their social, natural, and built environment, and explore how these elements have enabled or hindered their mental health and well-being during COVID-19. Photographs from the go-along interview and route will be captured using GPS software (i.e., Ubipix), and complemented with researcher field-notes taken immediately after each interview. An interactive mapping exercise will be developed where face-to-face meetings are not possible.

Analysis plan
Data analysis within each case and as a comparison between cases will be ongoing throughout the data collection process utilising the Bronfenbrenner socioecological model as a framework to identify relevant factors across multiple levels and stakeholders. Thematic analysis will be conducted to analyse participant responses according to the steps established by Braun and Clarke39, which include: (1) familiarization with the data; (2) generation of initial codes; (3) search for themes; (4) review themes; (5) define and name themes; and (6) write-up the analysis. It will be an iterative process to continually identify themes, linkages, and explanations. Preliminary analysis of baseline data will allow for emerging themes to be pursued in the second point of data collection, with particular focus on change and transitions31. Members of the research team will meet to discuss ongoing analysis and ensure consistency. Data analysis will be conducted utilizing NVivo 12 software.

Ethics
Ethical approval for this study has been granted by the Royal College of Surgeons in Ireland Research Ethics Committee (REC202011028). Individuals interested in taking part on the study will receive an information leaflet detailing research activities and processing of their data. Researchers will allow time for individuals to raise questions and consider their decision to participate in this study before obtaining informed consent. Informed consent will be re-established on a regular basis through data collection activities to verify ongoing participants’ agreement.

Data collection activities will take place at a time and place that are mutually agreeable and safe. Researchers will emphasize empathic, person centred approaches and observe for verbal and non-verbal cues that the participants may be experiencing discomfort or distress during data collection. If this situation emerges, the researcher will pause the activity and iterate the option to move onto another topic, resume at another time or withdraw to no disadvantage to themselves. Participants in need of further intervention will be referred to the appropriate instance to continue their care (GP practice, Samaritans, etc.). Additionally, at the end of each data collection session participants will be offered an information sheet with details of mental health and psychological support services open to the general population and older people. Research data and personal information will be managed in accordance with relevant regulatory approvals.

Dissemination
Findings will be disseminated through peer reviewed journal publications and in poster or oral presentations at relevant national and international conferences, as well as in consultation with our PPI advisors. A lay summary of findings and infographic will be distributed to multiple stakeholders including our PPI panel, older people, caregivers, community organisations, charities and mass media.

Study status
At time of publication the research team, including PPI advisors, are working on finalizing the interview guides and commencing recruitment.
Conclusion
This protocol describes the methodological approach for the qualitative diagnostic phase of the WISE study, which seeks to determine socio-ecological mechanisms associated with mental health and psychosocial well-being of older adults during the COVID-19 pandemic. We consider that the findings emerging from this study will advance the understanding of mental health and psychosocial well-being in times of collective trauma, and inform interventions for older people during public health emergencies and beyond.

Data availability
Underlying data
No underlying data are associated with this study.

References


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This is a study protocol rather than a research article that has been conducted already so there are no findings at this stage. Having said that the research protocol is interdisciplinary looking at health and the environment in relation to older adults and Covid. This is very timely and important. The study involves older people and is comprehensive using several qualitative methodologies for triangulation. It has included older people from the onset of the research proposal writing which is an excellent practice. The only comment would be that the synthesis of the team does not involve researchers who are familiar with the built environment studies, which could perhaps influence the study sample. For example, where do these people live? It is mentioned dwelling in the community but what types of dwellings and the built environment related affordances? Could the different typologies or locations affect the perception? This has not been sufficiently addressed in the proposal but it could theoretically make a difference.

Is the rationale for, and objectives of, the study clearly described?
Yes

Is the study design appropriate for the research question?
Yes

Are sufficient details of the methods provided to allow replication by others?
Partly

Are the datasets clearly presented in a useable and accessible format?
No

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

**Reviewer Expertise:** Health and care and the built environment, ageing, mental health in relation...
to the built environment.

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.

Reviewer Report 27 April 2021

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Nari Kim
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- Is the rationale for, and objectives of, the study clearly described?

This protocol study clearly shows an objective and rationale, and it is a very timely needed study. However, two things can be helpful to develop this research. Firstly, it is hard to find a specific research position of ‘well-being’, ‘intervention’, and ‘support’. Although researchers elucidated mental health and psychosocial well-being and support for the well-being, intervention can be diverse; sociopolitical intervention, clinical intervention, or community intervention, etc. In the same context, it is not clear in what areas the researcher would like research findings to be used or contributed to the future. I think that an attempt to discover various influential systems on the research subjects' mental well-being are absolutely necessary, however, the purpose of the study should be clear whether is to make a step-by-step mechanism of older adults' mental health based on the Bronfenbrenner socioecological model or is to make the mechanism based on the specificity of the older adults in the Irish community. Even something else.

- Is the study design appropriate for the research question?

All research questions look good enough to listen to older adults' dynamic mental health status during COVID-19. A little concern that I found is a connection between research questions and the framework in this study. Based on the purpose of this study, researchers mentioned that they want to make a mechanism of older adults' positive and negative well-being, and mental health within socio-environmental systems. However, three research questions barely mentioned phased systems which reflect the Bronfenbrenner socioecological model, so it is difficult to distinguish which research questions are for well-being, intervention and support for the older adults at which level of the system. More than one research question needs to indicate the systematic level if the researcher wants to explore researcher participants' psychological well-being in terms of the socioecological model.

- Are sufficient details of the methods provided to allow replication by others?

Research steps and methods are well explained and future researchers who interested in similar research topics or groups can easily adapt to the process. I confused between a choice of methodology and a thematic analysis of the study under the Bronfenbrenner socioecological model and worry the way of approach to older Irish people. According to the section of study design, researchers wrote that they are planning to adopt a longitudinal qualitative approach
because of consideration of the uniqueness of mental health research that is variable and difficult to generalized. This means that the method aims to explore research subjects’ deep mental well-being targeting limited research participants in a specific community. However, in the analysis section, researchers said that they are planning to define and sort themes and show the linkage without mentioning how the analysis can interact with the Bronfenbrenner socioecological model. I could not find themes, meanings, or patterns that researchers want to focus on by using this analysis and how this analysis will efficiently emphasize either the participants’ psychological well-being or systematic levels that interact with their mental health. Additionally, I wonder how researchers anticipate results of electronic submissions of open-ended questions via Padlet software and videoconferencing software, although they mentioned a phone call interview. The researcher can provide several ways how they are going to invite potential participants when they want to participate in the electronic questions or video interviewing, such as sending an email, QR code, or link. Lastly, regardless of the research question, I want to raise on curiosity about research subject criteria because ‘the ability to use and understand the information to make a decision’ looks too broad to participants in the age group presented for the study and too highly fancy methods work process for the research group.

○ Are the datasets clearly presented in a useable and accessible format?

Not applicable. However, if researchers can make datasets the useable format its’ contribution will be tremendous because psychological well-being and mental health can be different depending on socio-culture backgrounds differ from physical disease diagnosed by clinical symptoms. Thus, allowing the dataset to other researchers enriches discussions via comparison studies with other ethnicities, planning specific spatial systems for Irish older adults, or contributing to emotional well-being academic fields, etc.

General Comments:

Overall, this study protocol is very timely and well explains how they are going to explore Irish older adults’ psychological well-being and mental health during COVID-19, and they will provide Well-being, Interventions, and Support (WISE) based on the Bronfenbrenner socioecological model. However, I made several recommendations here.

First of all, making WISE looks like a major contribution of this study, and research results from WISE can be developed as a valuable framework for the older population facing future epidemics or natural disasters. Thus, emphasizing WISE more academic ways and showing fields where it makes contributions. For suggesting WISE based on discovered mechanism, researchers need to define what is the definition and role in this research and how it used in similar cases.

Next, the study protocol is framed by using the Bronfenbrenner socioecological model. While the Bronfenbrenner socioecological model is developed based on psychology, this project could contribute to making policies for later-life care environments, community planning, or public practices for welfare during the great social chaos era in the future. However, readers need to know why the Bronfenbrenner socioecological model is an influential framework rather than the concept of spatiality or spatial scale to explore the psychological well-being or mental health of older adults. So many geographers have been studying the scale of spaces and health, and geography scholarship has emotional geography as sub-disciplinary (see examples, Bondi1,2; Bondi and Fewell3; Price4; Pile5), and those geographers have studies how human being’s body and emotions interact to socio-political structures in diverse ways. In this context, the researchers need to mention how this project contributes or enriched current earlier works relating to older
adults’ mental health well-being by using the Bronfenbrenner model.

Lastly, researchers put three research questions to explore research subjects’ mental health; I could not find what researchers want to hear from research participants because research questions are too similar to each other. It means that participants also could not find a hint of the system for giving their answer while this project aims to cover different systems that look like different spatial scales from individuals’ body to neighborhoods, society, and culture. At this moment, I want to know how the ‘system’ that researchers used in this protocol is different from a concept of scale because researcher are actively planning to use geo-referencing data with GPS. I put several geographers’ earlier works, which provided visualization of emotion based on geo-dataset. I hope those are helpful to develop your work.

References


Is the rationale for, and objectives of, the study clearly described?
Yes

Is the study design appropriate for the research question?
Yes

Are sufficient details of the methods provided to allow replication by others?
Yes

Are the datasets clearly presented in a useable and accessible format?
Not applicable

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

**Reviewer Expertise:** Health Geography, Social Gerontology, Emotional Geography.

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.

Reviewer Report 25 February 2021

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The manuscript presents a protocol for a longitudinal qualitative study (with two waves of data collection) which will investigate Irish older people's psychological experiences during the COVID-19 Pandemic. The study will use interviews as well visual/interactive methods of data collection to elicit information on the perceived enablers and barriers for wellbeing. The study will be guided by an advisory panel including members of the population of interest.

This is an interesting study which will help to shed a light on the pandemic experiences of a demographic group that is considered highly vulnerable. Overall, the study has a clear rationale and the design is appropriate. There however a number of aspects, particularly methodological, which in my opinion require clarification. I have listed these below:

1. In the Background section, the authors provide a rationale for the study, but I would encourage to expand on two aspects: Firstly, the impact and implications of the study, clarifying what kind of actions or interventions might derive from this study; secondly, clarifying where the study is taking a focused or broad perspective on "resources and activities". While it is commendable that the authors are using a socioecological approach, it would be useful to clarify whether the data collection will focus on any of the systems or all of them.

2. In the Background, p.2 paragraph 5, the authors state: "Therefore, using longitudinal qualitative inquiry is critical to contextualize the evolving lived experience of community dwelling older adults during the COVID-19 pandemic". This does not appear to be well-linked with the previous paragraph, which is focused on heterogeneity of experiences. It would be useful to provide a clearer justification for the longitudinal approach here.

3. In the Background, p.2 paragraph 6, the authors state that the study is a qualitative "diagnostic" component of a larger study. Could the authors clarify what they mean with "diagnostic" here?
4. Background, p.2 paragraph 6: It would be useful to have either a reference to the WISE study, or a brief explanation of the objective of the overall project, so to give better context to this study.

5. Research questions 1 and 2 appear to repeat each other. Perhaps they could be merged into one. Otherwise, I would encourage the authors to specify what they mean with "experiences", is this related to health, social aspects, environmental inequalities?

6. Participant selection and recruitment should note any potential difficulties related to COVID-19 restrictions with regards to approaching prospective participants (e.g., how to deal with signing of consent form) and contingencies to deal with such difficulties.

7. In the Data collection section, I wonder on whether the authors could better justify the time period 3-10 weeks for repeat interviews. One would expect that 3 weeks is quite a short period to see any changes in socioecological circumstances, or indeed in subjective wellbeing. Is there a risk here that the second interview may not hold any new piece of information? My personal recommendation would be to use a longer period, particularly if restrictions are ongoing for a long period, such as 6 weeks or longer, to capture potential changes. However, there might be a specific reason for this timeframe, and it would be important to make that explicit in the protocol.

8. In the Data collection, are there any restrictions or T&Cs in place with regards to collecting images (e.g., not including people's faces)?

9. In Data Collection: Will the go-along interviews or face-to-face interviews be feasible if there is a level-5 lockdown? Are there any restrictions put in place by the Higher education Institution where the authors are affiliated that may prevent these? These aspects should be clearly planned given the Covid-19-related vulnerability of the population of interest. The authors mention the possibility to use interactive mapping exercise as an alternative, and it would be good to expand a bit on these.

10. With regards to online submissions on Padlet mentioned at page 5, could there be any issues related to participants' digital literacy? How will these be dealt with? Will the participants need training? Is there a contingency plan to have images or audios collected not on Padlet?

11. Will any quantitative sociodemographic or health information be collected via a questionnaire or survey to profile the sample of respondents? I would very much encourage this, but if this is not planned, please clarify why.

12. The data analysis section does not appear to indicate the approach to the analysis of images. This appears to be a photovoice exercise, thus, it would be useful to clarify the approach to image analysis. The same applies to the audios mentioned at page 5.

13. In the Ethics section, please clarify whether informed consent will be written. I wish the authors all the best with their project.
Is the rationale for, and objectives of, the study clearly described?
Yes

Is the study design appropriate for the research question?
Yes

Are sufficient details of the methods provided to allow replication by others?
Partly

Are the datasets clearly presented in a useable and accessible format?
Not applicable

Competing Interests: No competing interests were disclosed.

Reviewer Expertise: Environmental Psychology, Gerontology, Cognitive Sciences.

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.