

# BMJ Open Consensus statement: loneliness in older adults, the 21st century social determinant of health?

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## ABSTRACT

**Objective** The purpose of this consensus statement is to determine the state of the field of loneliness among older people, highlighting key issues for researchers, policymakers and those designing services and interventions.

**Methods** In December 2018, an international meeting on loneliness was held in Belfast with leaders from across the USA and Europe. A summary of the conclusions reached at this event is presented following a consensus-building exercise conducted both during this event after each presentation as well as after the event through the drafting, reviewing and agreement of this statement by all authors for over 6 months.

**Results** This meeting resulted in an agreement to produce a consensus statement on key issues including definitions of loneliness, measurement, antecedents, consequences and interventions.

**Discussion** There has been an exponential growth in research on loneliness among older adults. However, differing measurements and definitions of loneliness mean the incidence and prevalence, associated risk factors and health consequences are often conflicting or confusing especially for those developing policy and services.

In December 2018, a group of international researchers, practitioners and policymakers working in the area of ageing met as part of a 3-day symposium held in Belfast, Northern Ireland to discuss loneliness, its impacts and appropriate interventions.<sup>1–15</sup> It is encouraging that there has been an exponential growth in research on loneliness and social isolation among older adults of late, in recognition of the significance of loneliness as an adverse experience in older age. However, limitations persist in the evidence base, in relation to impacts, risk factors, assessment and especially interventions. The objective of the Belfast meeting was to determine the state of the field of loneliness among older people, highlighting best practices, evidence and key research gaps. The following consensus statement emerged from these discussions in

relation to the current status of policy, practice and especially research on loneliness.

## CONTEXT

It seems there have never been so many ways to connect with people, yet the fear of loneliness is increasingly capturing public attention, driving the issue further up policy agendas across the world.<sup>16</sup> For example, in the UK, 2018 saw the launch of a loneliness strategy<sup>17</sup> and a loneliness minister was appointed. In the USA, the National Academies of Sciences, Engineering, and Medicine have formed a committee to examine how social isolation and loneliness impact health outcomes in older adults, its report released in February of 2020.<sup>18</sup> The AARP in the USA and the Campaign to End Loneliness in the UK have established awareness raising work and visibility in this area. Campaigns are an important necessary step to raise awareness to effectively address the stigma of loneliness but are not sufficient especially for the development of effective interventions.

With growing concern about rates and consequences of loneliness in civic society, there is also an increasing body of research on loneliness and social isolation among older adults, especially in high-income countries (HICs). However, there are significant gaps in our understanding of the 'true rates' of loneliness within and across countries, the drivers of loneliness in different populations and sub-groups, its impact on health and well-being, and a lack of high quality evidence on effective solutions. In low/middle-income countries (LMICs), research to underpin the allocation of resources to meet medical needs, and/or to secure adequate food and housing in later life has been given greater priority than studies on loneliness.<sup>19</sup> In summary,



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evidence to support appropriate action in addressing loneliness is urgently needed. However, a number of building blocks are required in relation to definitions, measurement, antecedents, consequences and ultimately effective interventions.<sup>18 20</sup>

## METHODS

At our 3-day event in December 2018, AB took detailed notes during all presentations and discussions. Following the event, AB synthesised these notes to produce a single document detailing all topics on which some consensus was reached at the event in relation to loneliness in older adults that is, multiple authors had supported a statement or argument. This document was then sectioned into issues related to: definition and types of loneliness; measurement of loneliness; antecedents of loneliness; consequences of loneliness; and interventions. This document was shared with ROS and TP to refine further before being shared with all authors to check consensus. Following each circulation, any issues raised by authors were synthesised with feedback requested from all authors again prior to a new draft based on these agreed changes being circulated. Following a 6-month period and the circulation of multiple drafts, all authors signed off on a final consensus statement (the content of this communication) which represented the views of all and addressed all issues raised during the process to the satisfaction of all.

## DEFINITIONS

Loneliness has been defined in many ways and an agreed definition of loneliness remains elusive, but it is acknowledged as distinct from social isolation and social exclusion.<sup>10</sup> Loneliness is a subjective negative experience that results from inadequate meaningful connections, where ‘inadequate’ refers to the discrepancy or unmet need between an individual’s preferred and actual experience.<sup>3 21</sup> Loneliness has been described in a range of different domains and experienced as a sense of inadequate social connection to:

- ▶ An intimate other person.
- ▶ Family and friends.
- ▶ Community life, collective identity and roles bringing connections to the broader society with meaning and purpose.

Different domains of loneliness are reflected in research that distinguishes between emotional and social loneliness, where emotional loneliness is characterised by the absence of an intimate connection and social loneliness is characterised by the absence of contact and engagement with a broader network of friends, neighbours and colleagues.<sup>22 23</sup> Others have distinguished between loneliness that is intimate, relational (marked by the perceived lack of close friends/confidants), and collective (characterised by a perceived lack of a sense of belonging or group identity).<sup>24</sup> Still others discuss existential loneliness.<sup>25</sup>

To date, the range of definitions of loneliness has been useful for drawing attention to the issue but not sufficient for advancing the field to explain, for example, the intensity, frequency and duration of loneliness. Loneliness can be acute (ie, transient) or chronic (ie, enduring), and it can be mild to severe in its intensity. Moreover, it can stem from a variety of antecedents, and each precursor may require a unique ‘solution’. Researchers, policymakers and practitioners all tend to define and discuss loneliness differently which can create confusion as to what is meant as well as what actions to take for policy, services and society. To deliver effective policy and practice requires a more nuanced understanding of the complexity of loneliness (eg, the different pathways, types and ways of addressing loneliness) which, while not considered a medical condition, can have an impact on health.

Further theoretical and empirical work is needed to adequately conceptualise the complexity of loneliness, and to distinguish its various domains and types and frequencies. Unfortunately, the focus has tended to be on social loneliness with relative neglect of other types of loneliness. In particular, there is a need to develop a unified language and definition(s) to facilitate the discussion of loneliness, its evidence and mechanisms for its effects, and to develop theoretical frameworks that situate loneliness and its antecedents and consequences in a global social context. Doing so would also permit accurate comparisons of global loneliness trends, and could accelerate the development and dissemination of interventions across countries.

## MEASUREMENT

Directly connected to definitions, standardised and validated measurement of loneliness is crucial. Currently, different studies use a mixture of scales (which assess frequency only) and single-item measures, while some reviews have further combined these with aspects such as living alone and marital status under the umbrella term of isolation/loneliness, leading to an ambiguous and unreliable evidence base.

The most widely used validated loneliness scales are:

- ▶ UCLA Loneliness Scale<sup>26</sup> ; Revised UCLA Loneliness Scale, version 3<sup>27</sup> ; UCLA three-item Loneliness Scale.<sup>28</sup>
- ▶ the De Jong Gierveld 11-item or six-item Loneliness Scale.<sup>22 29 30</sup>

The UCLA Loneliness Scale is intended to assess loneliness as a unitary construct; dimensions of the loneliness experience have been identified in factor analyses but they are subsumed in a higher level loneliness construct. In contrast, the De Jong Gierveld Scale assesses overall as well as emotional and social loneliness through its subscales. Though less widely used, the Social and Emotional Loneliness Scale for Adults<sup>23</sup> also distinguishes between social and emotional loneliness and further distinguishes two domains of emotional loneliness—family and romantic.

In addition to the original 37-item measure, a revised 15-item version is also used.<sup>31</sup>

While not always co-occurring, there is an association and overlap between social isolation and loneliness.<sup>1 10</sup> Common measures of social isolation include the six-item Lubben Social Network Scale<sup>32 33</sup> and the four-item Berkman-Syme Social Network Index.<sup>34 35</sup> To date there has been no consensus statement on social isolation in terms of definitions, measurement and scales; however, many of the points made in the current paper in relation to loneliness are also relevant.<sup>36</sup>

The symposium participants did not explore or compare measures or their relative utility. However, it was recognised that a common set of validated measures of loneliness is needed in order to examine findings across research and interventions. The systematic inclusion of a harmonised set of covariates, demographic factors and antecedent or predictor measures would also facilitate meta-analyses and evidence-based reviews. A selection of scales currently used to assess both loneliness and isolation is available here (<https://www.publichealth.ie/ILINK>).

A consensus was reached that validated brief versions of all measures should be made available and promoted both for clinical and non-clinical settings to avoid the ad hoc editing of standardised measures, rendering findings often invalid, misleading or confusing (this conclusion of not using measures ad hoc is also supported by National Academies of Sciences, Engineering, and Medicine).<sup>18</sup> Standardised measures of loneliness must be used in order to build a valid evidence base to help inform policy, practice and services. It is also recognised that these scales have been developed in HIC/individualistic cultures and thus require validation in LMIC, and collectivist cultures, where they may not be as relevant or capture all dimensions.

## ANTECEDENTS

The determinants of loneliness are varied and complex. Understanding the complexity of the pathways into and out of loneliness requires research across a range of populations and subgroups, including longitudinal studies. A better understanding of root causes, pathways and trajectories of loneliness should in turn facilitate individual and community strategies, interventions, as well as the targeted matching of interventions.

Personal level characteristics (eg, gender, marital status, socioeconomic status) are often included as antecedents to loneliness in research, but there is less focus on the role of environmental and structural factors. The role of environments appears important to the field and can be both enabling and disabling in terms of loneliness, like many other public issues. At the community/neighbourhood level, it is important to consider the risk factors that can contribute to loneliness such as community safety, design of the built environment, community and neighbourhood design, civic spaces, transportation,

community-engagement opportunities, and access to activities and amenities within the local area.<sup>2 11</sup>

At a societal level, we have limited evidence on the structural and cultural changes or societal forces that may foster loneliness and contribute to social determinants of health in the 21st century (ie, public policies, public discourse, and dominant political and economic ideologies that influence the structure of society and ultimately our health and well-being).<sup>37</sup> In Western and capitalist economies, socioeconomic stresses and inequalities, automation, changing work, family, household and community structures, and the increasing use of social media and the internet for services and goods may be contributing to an erosion of communities and loss of connections, meaning and purpose. However, the evidence on the impacts of societal factors on loneliness is limited. The perceptions and expectations of today's society around ageing, older people, ageism and loneliness also need to be untangled.<sup>2</sup> Evidence to date suggests that solutions for loneliness will need to be developed at population as well as individual levels.<sup>11</sup>

While demographic ageing means loneliness is likely to increase numerically, the majority of older adults are not chronically lonely and evidence indicates that loneliness is also experienced by other age groups, especially young adults where levels are even higher than in older adults.<sup>20</sup> Although not proportionally increasing in older adults,<sup>38–40</sup> loneliness has risen up the agenda. Whether this is connected to a broader sense of dissatisfaction, disconnection and fragmentation in current society which may be expressing itself at present via an attachment to the concept of loneliness remains unclear.

## CONSEQUENCES

The consequences of loneliness on health and well-being can be profound. While there is inadequate causal evidence, the associations with poor health and well-being have been established. Evidence suggests associations with mental health, with evidence especially strong for depression,<sup>41</sup> non-communicable diseases (eg, cardiovascular disease),<sup>42</sup> health behaviours (eg, physical activity),<sup>43</sup> stress, sleep,<sup>44 45</sup> cognition<sup>46</sup> and premature mortality.<sup>47</sup> Paradoxically, there is a concern that chronic loneliness can adversely affect one's ability to connect with others positively and to engage in interventions that could decrease loneliness.

Further work is required to strengthen the evidence for a causal link between loneliness and health outcomes. Moreover, additional research is needed to determine how the duration and frequency of loneliness contribute to health outcomes, and whether temporal effects differ across outcomes (eg, emotional vs cardiovascular status). Beyond health, the social consequences of loneliness also remain unclear. There is a need for more robust research using standardised validated measures, adjusted for potential confounders, mediators and moderators to

assess if currently reported associations are independently predicted by loneliness and if so, to what degree.<sup>48</sup>

## INTERVENTIONS

In response to the needs of older people and the issue of loneliness, the field of work in delivering programmes and policy is moving faster than the research community. This important work by charities, voluntary organisations and community partners can only benefit from the availability of a more robust evidence base.<sup>49</sup> The current evidence base for many interventions is characterised by low-quality trials, small samples, a lack of theoretical frameworks or understanding of loneliness, diverse or undefined target groups, mixed measures of loneliness and short follow-up periods to assess longer term impact. While we recommend appropriate use of the validated widely used measures described above, we also acknowledge that minimal attention has been directed toward determining the optimal intensity, duration and frequency of the therapeutic elements of loneliness interventions and further validated established outcomes are therefore needed.

As well as the research evidence and alignment, political and civic leadership is needed to plan how best to incorporate loneliness interventions for an ageing population. Use of a public health approach, incorporating multiple perspectives and tailored for the needs of individuals may help prevent loneliness and yield societal benefits. Beyond the evaluation of existing programmes, better evidence on alternative interventions is needed. Strategies for generating evidence-based interventions should include diverse populations and cultural settings and not be limited to clinical or other relatively accessible groups. Interventions incorporating preventive or therapeutic elements as identified in already successful interventions are also required. Additionally, an assessment of the public health impact of community-based loneliness interventions should be determined, including the reach, effectiveness, adoption, implementation and maintenance of such programmes.<sup>50</sup> While not addressed adequately in the symposium, more attention towards determining the utility of primary, secondary and tertiary prevention is recommended. Potential examples include, for primary prevention, attention to design of the built and social environment to understand its impact on the ability to connect and prevent loneliness and design effective solutions and programmes, whether on one-on-one, social network or collective social good levels. For people of all ages, this could well involve community engagement in shared roles with meaning and benefit to the community. Secondary prevention could involve screening for those at risk—such as those who have newly retired or been widowed—whether at community or clinical levels, and identifying effective interventions to help prevent loneliness in this at-risk group. Tertiary prevention could involve recognition of those who are acutely or chronically lonely, with or without manifesting its sequelae, and

referral to programmes for skill remediation, therapy and/or connection, as indicated.

Overall interventions must be tailored and matched to specific root causes of loneliness in the individual, supporting personalised solutions whereby the individual is met in their own context/situation. While inevitably more complex to implement and evaluate, current evidence indicates that this tailored approach is a necessity.

## A WAY FORWARD

We need to more fully understand and address the antecedents and consequences of loneliness in later life. Research and evidence gaps have been noted throughout this paper and we recommend that research strategies are linked to complement and inform policy and practice interventions on loneliness. Future research is needed to help expand our understanding of loneliness, antecedents and consequences across the life course and in different groups such as young people, migrants, lesbian, gay, bisexual and transgender community, and other minority groups, as well as country/cultural differences and diverse health domains including the impact of enduring long-term loneliness. The consensus group discussed strategies on how these should be addressed, including the establishment of the International Loneliness and social Isolation research NetworK as a vehicle to facilitate knowledge exchange and learning. The research, policy and practice community, and ultimately civic society can benefit from a greater pooling of expertise and knowledge exchange in this area to ensure that we all play our part in addressing loneliness.

## LIMITATIONS

This statement is limited by its lack of data or representatives from LMICs and also by its broad focus on English-speaking countries with only one author from a country where English is not the first language represented (the Netherlands). The representatives of this group have however worked in LMICs and with ethnic minority groups from these countries. As a group, we acknowledge the lack of research from LMICs on prevalence, pathways and cultural differences in measurement.

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