

## The value of maintaining social connections for mental health in older people



See [Articles](#) page e62

By 2050, it is estimated that about a fifth of the general population will be aged 65 years and older.<sup>1</sup> Social isolation and loneliness among young (18–40 years), middle-aged (41–64), and older adults (65 years and older) is thus a serious public health concern of our time because of its strong connection with cardiovascular, autoimmune, neurocognitive, and mental health problems.<sup>2</sup> The scientific literature has documented the bidirectional and complex relationship between psychological issues and social disconnectedness in the past 40 years.<sup>3</sup> Despite extensive work done to date on this topic, previous research has had several shortcomings. Limitations include preponderance of cross-sectional data that precludes causal inferences, use of single measure or single-item assessments of loneliness, absence of testing bidirectionality, and small sample sizes.

In *The Lancet Public Health*, Ziggi Ivan Santini and colleagues<sup>4</sup> build on previous work by examining the bidirectional relations between depression or anxiety severity and social disconnectedness between 2005 and 2016, and the degree to which perceived isolation mediated those relationships. The authors tested these hypotheses in a large sample of 3005 community-dwelling adults aged 57 to 85 years in the National Social Life, Health, and Aging Project using random-intercept cross-lagged panel modelling.<sup>5</sup> The analyses showed that social disconnectedness independently predicted depression and anxiety symptom severity (and vice versa). Additionally, self-perceived social isolation was found to mediate the link between social disconnectedness and depression and anxiety in both directions. For example, social disconnectedness predicted higher subsequent perceived isolation, which in turn predicted higher depression symptoms and anxiety symptoms (all  $p < 0.0001$ ). The random-intercept cross-lagged panel modelling approach, which adjusts for previous outcomes and between-person variation, permits the inference that these observed relations unfold within (as opposed to between) people, thus bringing us closer toward causal models. Moreover, the authors exemplified the best practices of longitudinal structural equation modelling by testing for measurement equivalence to verify that the

latent constructs were assessed along the same scale at various timepoints (an often-neglected step).

These findings can potentially inform public health and social policies. Brief evidence-based preventive interventions could plausibly be developed for older adults and implemented within multiple health-care venues, religious or cultural organisations, and community centres. Such skills could help older adults form meaningful connections with others. Cognitive skills could help them to critically evaluate the degree to which their social support network fulfills their need for friendships and a sense of belonging. Relatedly, action-based strategies, such as establishing more frequent social contact with significant others or repairing strained relationships, might be important to deliver the best quality care. Randomised controlled trials examining the effects of cognitive behavioural based therapies, delivered online or in-person, have been shown to alleviate depression and anxiety symptoms while simultaneously decreasing loneliness.<sup>7,8</sup> For instance, internet-delivered cognitive behavioural therapy has been shown to enhance both the general impression and tangible indicators of social affiliation and support compared with waitlist controls.<sup>7,9</sup> Similarly, establishing community volunteer outreach could also help in this regard, particularly for adults who are less mobile or more secluded.

These approaches can be implemented in geriatric and other clinical contexts, as well as welfare organisations that provide a range of meaningful and health-promoting social activities to older adults. Second, health-care providers can benefit from being mindful of the potentially scarring effects of untreated depressive and anxiety disorders in middle and late adulthood. Late-life affective disorders can trigger vicious cycles of social withdrawal, unhelpful self-referential thought patterns, and worsened psychiatric symptoms in the long term. Collectively, findings suggest that access to ageing or retirement communities that provide a sense of belonging and security is imperative for delivering high standards of mental health care to older adults.<sup>6</sup>

However, some study limitations deserve mention. It remains unclear if the results would be replicated if

diagnostic or clinician rated measures (as opposed to self-report) were used; future replication efforts could thus administer multimodal diagnostic psychiatric instruments. In addition, although the prospective, observational design approximates causality by establishing temporal precedence and co-variation, no strong causal conclusions can be drawn because of the absence of experimental manipulation required for internal validity.

Finally, it is important to keep in mind that most psychological treatments targeting loneliness and related constructs to date were limited by small sample size, non-randomised controlled designs (eg, pre-post effectiveness trials), absence of multiple-domain assessments of social disconnectedness, and use of an inactive no-treatment or waitlist comparison group. Accordingly, public health can benefit from future studies using a randomised controlled trial design with a bigger sample size, alongside a multiple-group factorial design to tease apart the treatments' causal mechanisms. Further, an active control comparison group should be used to rule out regression to the mean, expectancy effects, and other confounders, to analyse factors that contribute to treatment effects on change in outcomes. For example, it might be worth examining if the remedying effect of cognitive behavioural treatments on social disconnectedness might be mediated or moderated by changes in allostatic load, immune functioning, lifestyle, or other putative variables.<sup>10</sup> Nonetheless, the study by

Santini and colleagues is an important first step toward understanding the importance of social support for older adults in helping to prevent depression or anxiety.

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We declare no competing interests.

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