Association between political group participation and depressive symptoms among older adults: an 11-year longitudinal study in Taiwan

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ABSTRACT

Background Given the speculation that political participation is causing an epidemic of depression, this study examined how participation in political and non-political groups influenced depressive symptoms among older adults in Taiwan.

Methods The 11-year follow-up data from the Taiwan Longitudinal Study on Ageing, covering 5334 persons aged 50 years and older, were analysed using random-effects panel logit models.

Results Engagement in social groups reduced the likelihood of depression (adjusted odds ratio [AOR]: 0.71, 95% confidence interval [CI]: 0.64–0.80). However, there was a greater likelihood of depressive symptoms among older adults who were engaged in political groups when compared with those who were engaged in non-political groups (AOR: 1.87, 95% CI: 1.31–2.65). For older adults who remained politically engaged, participation in a greater number of non-political group types was associated with a lower likelihood of depression (e.g. at 1: AOR: 0.53, 95% CI: 0.30–0.91; at 2+: AOR: 0.35, 95% CI: 0.18–0.67); this numbers-based effect was not prevalent among those who were solely engaged in non-political groups.

Conclusions Political group attendance can result in negative mental health outcomes among older adults. Our findings suggest that reducing the prevalence of depression through social participation is conditional to the engagement type.

Keywords depression, older adults, political groups, social engagement, Taiwan

Introduction

Geriatric depression is associated with medical illness, cognitive disorders, disability, mortality and suicide.¹ Depression is the leading cause of disease burden in older adults: 10–15% of older adults have clinically significant depressive symptoms. Antidepressants were effective treatment reported; however, it might pose risk for adverse events among older adults due to polypharmacy.² It is therefore increasingly important to identify the potential causes and any other interventions that may prevent depression among older persons.

The broader literature confirms that lower social participation in old age is associated with increased depressive symptoms.^{3–12} Social participation is defined as a person's involvement in groups or organizations that provide interaction with others in the society.¹³ Participating in a social group tends to enhance social support networks, thus creating greater levels of attachment among participants in the same communities. The more groups a person belongs to, the more likely it is that he or she will have access to resources that support healthy ageing.¹⁴ More specifically, studies have found that active participation in community friendship groups,¹⁵ religious organizations,¹⁶ sports and hobby clubs¹¹ and volunteer groups⁷ is associated with better mental health.

Few studies have examined how political participation influences mental health among older adult populations. Further, previous studies have contrastingly interpreted the association between political participation and depression, while the empirical evidence used for those hypotheses is also inconsistent.^{7,16,17} Several points thus merit further

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© The Author(s) 2021. Published by Oxford University Press on behalf of Faculty of Public Health. All rights reserved. For permissions, please e-mail: journals.permissions@oup.com This is an Open Access article distributed under the terms of the Creative Commons Attribution NonCommercial-NoDerivs licence (https://creativecommons.org/licenses/by-ncnd/4.0/), which permits non-commercial reproduction and distribution of the work, in any medium, provided the original work is not altered or transformed in any way, and that the work is properly cited. For commercial re-use, please contact journals.permissions@oup.com discussion. First is the claim that political participation results in a stronger sense of community and enhances social identity by providing opportunities to voice opinions through larger social networks, thereby reducing depressive symptoms.¹⁷ Nevertheless, this may be conditioned on the presence of a government that can build inter-partisan trust. Next, insights from the effort-reward balance theory indicate that low levels of reciprocity between the efforts spent and rewards received from long-term political engagement are associated with increased depression,¹⁶ but this neglects the given political context. As for the operationalization of political participation, previous research has examined political activities^{7,17} and/or participation in both political and community organizations¹⁶ rather than solely focusing on political group involvement. In addition, there is a lack of research comparing older adults engaged in political organizations with their nonpolitical counterparts in regard to the association between political participation and depression. Finally, the scope of such an analysis should include nascent democracies, but most research has been limited to mature democracies^{16,17} or non-democratic regimes.⁷

The aim of this study was to examine the influence of participation in political and non-political groups on depressive symptoms among older adults in Taiwan, a relatively young democracy. In addition, we investigated the influence of participation in multiple groups on depression among the same study sample.

Methods

The unit of analysis was 'individuals-year'. This study used data collected from the Taiwan Longitudinal Study on Ageing (TLSA), which was conducted by the Health Promotion Administration of Taiwan, thus offering a nationally representative sample of the Taiwanese population. This longitudinal study was based on a three-stage equal probability sampling design using household registration data and information collected during face-to-face interview. Data were collected across a total of six waves from 1989 to 2007. We collected a sample of 15 053 pooled time-series and cross-sectional observations from four of six survey rounds; that is, in 1996, 1999, 2003 and 2007.

Depressive symptoms were assessed using 10 items from the Centre for Epidemiologic Studies Depression Scale (CES-D). Respondents rated how frequently each item applied to them over the course of the preceding week. Ratings were based on a 4-point scale ranging from 0 (rarely or none of the time) to 3 (most or all of the time). This short form of the CES-D thus generated total individual scores ranging from 0 to 30, with higher scores indicating more depressive symptoms. A dummy variable was created so that 1 = 'respondents with depressive symptoms' (≥ 10 points) and 0 = 'otherwise' (0–9 points).

As for the independent variables representing the level and type of engagement in social groups, participants were asked to indicate whether they were members of community friendship groups, religious groups, business associations, political groups, volunteer groups, clan associations and/or senior groups (0 = 'no'; 1 = 'yes'). Scores ranged from 0 to 7, with higher scores indicating higher levels of engagement in social groups. We also created a dummy variable so that 1 = 'respondents participating inat least one group' and 0 = 'otherwise'. Finally, a list of binary variables was included for specific types of group participation.

Individual-level characteristics were set as control variables, including gender (binary, 1 = 'male'), age, education level (0, 1-6, 7-9, 10-12 and >13 years), frequency of exercise (0, 1-2 and \geq 3 times per week), and current living status (binary, 1 = living alone). Further, chronic diseases (hypertension, diabetes, heart disease, stroke, cancer, lung disease, arthritis and hepatobiliary disease) were recorded based on self-reported data. A count of conditions was created based on the total number of chronic conditions for each participant (ranging from 0 to 8), whereas the number of morbidities was treated as a categorical variable (0: 'absence of disease', 1-4: 'mild to moderate' and \geq 5: 'severe'). Older adults were also asked to indicate if financial difficulties had occurred in their family during the past 12 months (i.e. answers of 'no', 'somewhat difficult' and 'very difficult'). Finally, self-rated economic situations were obtained using the item 'In general, are you satisfied with your current economic status?' This was answered on a 5-point Likert scale (very satisfied = 1, satisfied = 2, neither = 3, unsatisfied = 4 and very unsatisfied = 5, with options 1 and 2 were combined into 'satisfied' and options 4 and 5 combined into 'not satisfied'). Table S1 summarizes characteristics of study participants in the total sample.

The vast majority of older adults changed very little or not at all across time (3504 participants with a sample of 9727 observations presenting all positive or negative mental health outcomes). Because the lack of variability within subjects indicates that the standard errors from fixed-effects models may be too large to tolerate, this study applied a random-effects panel logit model. For robustness tests, we changed the cutoff score for the determinant of depression from 10 to 9 or 11. Further, participants were asked to provide additional information on whether they were members of learning clubs for older adults from the 1999 survey in order to code the level and type of social group engagement. The literature also shows that some personality traits are linked to the susceptibility for depression, whereas others appear to be independent of mood state.¹⁸ Participants displaving all positive or negative mental health outcomes during each of the four survey rounds likely had certain traits that were not influenced by depressive episodes. This analysis thus excluded such participants and applied conditional logit fixedeffects models to estimate within-individual differences while controlling for unobserved individual heterogeneity that may have been correlated with the explanatory variable. Finally, individuals were excluded from analysis if they were unsatisfied with their current economic status, experienced serious financial hardship or reported at least five chronic diseases. This was because they were both more prone to depression and less likely to engage in social groups; to allege that social group engagement affects depression implies a spurious interrelationship.

Results

Respondents who lived alone (adjusted odds ratio [AOR]: 1.68, 95% confidence interval [CI]: 1.40–2.01), were not satisfied with their current economic status (AOR: 4.81, 95% CI: 4.02–5.76), experienced serious financial hardship (AOR: 3.28, 95% CI: 2.64–4.07) and reported at least five chronic diseases (AOR: 11.35, 95% CI: 8.02–16.07) were more likely to develop depression (Table S2). Further, increased age was associated with an increased likelihood of mental health problems (AOR: 1.05, 95% CI: 1.04–1.06). Contrastingly, male (AOR: 0.60, 95% CI: 0.52–0.69) and more educated (AOR: 0.59, 95% CI: 0.42–0.83) participants were less likely to report depressive symptoms. Respondents who engaged in physical exercise more than three times per week had a 51% lower likelihood of being depressed (AOR: 0.49, 95% CI: 0.44–0.56). See Tables S3 and S4 for similar results.

The level and type of social group engagement were related to significant reductions in depressive symptoms. Participating in at least one social group was associated with a lower likelihood of depression (AOR: 0.71, 95% CI: 0.64–0.80) (Fig. 1), whereas an increase in social group engagement of 1 resulted in a 19% lower such likelihood (AOR: 0.81, 95% CI: 0.76– 0.87). However, not all types of group participation reduced the symptoms of major depression. Indeed, respondents in political groups were more likely to report depressive symptoms than those in non-political groups (AOR: 1.87, 95% CI: 1.31–2.65) (Fig. 2). Respondents who reported engagement in non-political groups also had a lower likelihood of depression than those who did not participate in social groups (AOR: 0.71, 95% CI: 0.62–0.81). These results held even when the analysis divided non-political groups into community friendship groups, religious groups, business associations, volunteer groups, clan associations and senior groups.

Respondents in both political and non-political groups were less likely to be depressed than those who were only engaged in political groups (AOR: 0.45, 95% CI: 0.28-0.72) (Fig. 3). Further, there were no statistically significant differences in depression likelihood between those engaged in both types and those in non-political groups only (AOR: 1.13, 95% CI: 0.76-1.67). Figure 4 shows the interplay between the level and type of engagement in social groups and the effects on depression likelihood. For those in political groups, participation in a greater number of non-political group types was associated with a lower likelihood of depression (e.g. at 1: AOR: 0.53, 95% CI: 0.30-0.91; at 2+: AOR: 0.35, 95% CI: 0.18–0.67). For those engaged in non-political groups, the effects of engagement level on depression likelihood were not prevalent, that is, a 3% higher depression likelihood from 1 to 2 (not statistically significant) (AOR: 1.03, 95% CI: 0.82–1.28) and 36% lower depression likelihood from 1 to 3+ (AOR: 0.64, 95% CI: 0.42-0.96). Table S5 shows the results of the robustness tests.

Discussion

Main finding of this study

This study examined how participation in political and nonpolitical groups influenced depressive symptoms among older adults in Taiwan. First, there was a greater likelihood of depressive symptoms among older adults who were engaged in political groups when compared with those who were engaged in non-political groups. Second, for older adults who remained politically engaged, participation in a greater number of non-political group types was associated with a lower likelihood of depression; this numbers-based effect was not prevalent among those who were solely engaged in nonpolitical groups.

What is already known on this topic?

It is universally accepted that social participation benefits mental health for older adults. However, most studies have examined whether the level of social engagement^{3–12} or various forms of social participation^{3,7,11,15,16} explain mental health in older adulthood. There is dearth of literature on a consideration of both the level and type of group participation in regard to depression likelihood. Further, the literature is inconsistent about whether political participation exerts a positive impact on mental health in older age.^{7,16,17}

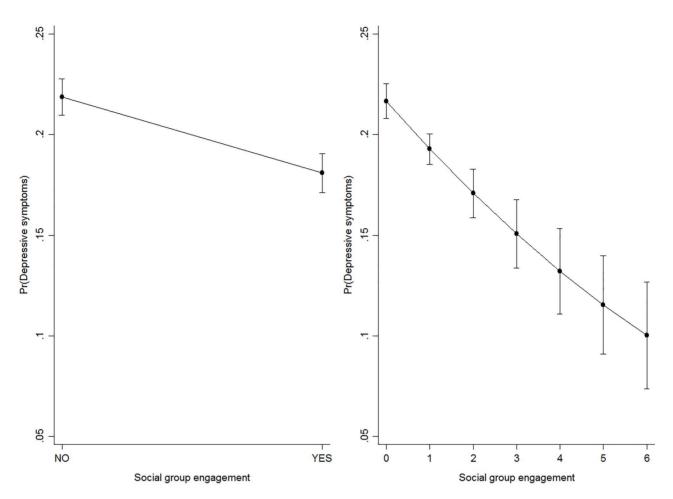


Fig. 1 The effects of social group engagement on the probability of depression among older adults, by levels, Taiwan, 1996–2007. Note: all results were based on random-effects panel logit models. Results correspond to model 1 and 2 of Table S2, supplementary material. Source: the author.

What this study adds

This is the first study to examine how older adults in political organizations could influence mental health in a new democracy. Results showed that political group attendance could worsen mental health. Reasons for this are related to intense interparty competition that tends to weaken community belonging and contributes to a lack of meaning and purpose in life. New democratic governments face exceptionally strong distributive pressures. These are exerted both by groups that are re-entering the political arena after long periods of repression and established interest groups that are demanding reassurances.¹⁹ A new democratic government also frequently faces competition for political power from elites that were active in old regimes. In such an environment, competitive pressures tend to drive the government and its oppositional counterparts to indoctrinate their ideologies. This includes the conversion of party identifiers (especially partisans) into 'true believers', thereby leading to polarized expressions of support for certain political values.²⁰ Further,

individuals who identify with a given political party tend to positively evaluate their co-partisans while negatively assessing opposing partisans.²¹⁻²³ Thus, institutionalized competition for political power creates party-based trust biases,²⁴ which may hamper the individual sense of self among citizens. Many individuals may also attack major ideological differences held by friends or family members, which results in a weaker sense of political community that can trigger depression. Indeed, evidence shows that the sense of community is a crucial determinant for depression, anxiety and stress.^{25–27} A government that is rife with opposing ideologies also reflects a general departure from the concept of long-standing individual political beliefs, thus contributing to personal losses of meaning and purpose. In this context, a growing body of evidence supports the resulting phenomenon of 'political depression'.²⁸⁻³⁰

Taiwan is a relatively young democracy, where competition between two electorally dominant parties has intensified since democratization. Because older people have stronger

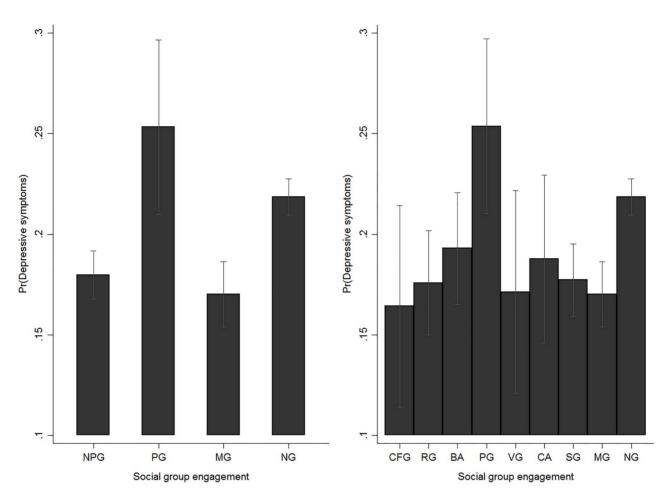


Fig. 2 The effects of social group engagement on the probability of depression among older adults, by types, Taiwan, 1996–2007. *Note*: NPG: non-political groups, PG: political groups, MG: multiple groups, NG: no groups, CFG: community friendship groups, RG: religious groups, BA: business associations, VG: volunteer groups, CA: clan associations, SG: senior groups. All results were based on random-effects panel logit models. Results correspond to model 1 and 2 of Table S3, supplementary material. *Source*: the author.

feelings of psychological attachment to an ideological ingroup upon accepting relevant cues,³¹ we expected that in Taiwan, older adults who engaged in political groups were more likely to develop depression when compared with those who engaged in non-political groups. Empirical evidence confirms the arguments. Future research should analyse the effects of political group engagement on mental health across population groups and compare similar cases for providing the strongest basis for generalization.

Other types of social engagement (e.g. community friendship, religious and volunteer groups) were also associated with lower depression likelihood, which is consistent with previous research.^{3,7,15,16} We further found that such activities reduced the likelihood of depression among older adults who remained politically engaged. There are several possible explanations. First, this may help older adults in political groups reconnect with others through social relationships, allowing social benefits to accrue. Connecting with other members of a social group allows people to receive social support and to contribute positively to the lives of others, an important protective factor against loneliness and hope-lessness.³² Research evidence indicates that social support enables older adults to create a positive self-image,³³ exchange emotional intimacy³⁴ and buffer against the deleterious effects of stressful life events,³⁵ thereby reducing depression.

Second, intergroup contact tends to reduce perceptions of both outgroup hate and disconnectedness from political communities, thus combating mental health problems. Contact can help to reappraise how one thinks about outgroup members, open one's heart to experience the abundance of diversity and generate affective ties and friendships, thus diminishing negative emotions including anxiety and depression. It is likely that other areas of social participation such as volunteering and religious involvement can increase the chances of contact with members of a political outgroup and, accordingly, reduce negative cross-partisan feelings.³⁶

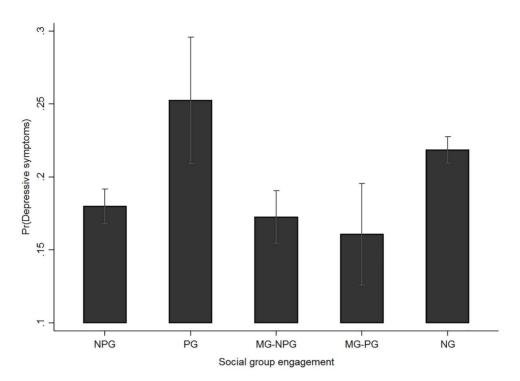


Fig. 3 The effects of social group engagement on the probability of depression among older adults, by types, Taiwan, 1996–2007. *Note:* MG-NPG: multiple groups, excluding political groups, MG-PG: multiple groups, including political groups. All results were based on random-effects panel logit models. Results correspond to model 1 of Table S4, supplementary material. *Source:* the author.

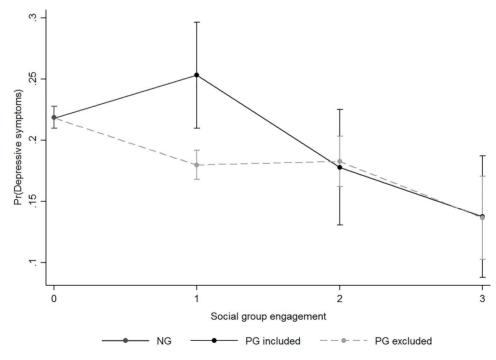


Fig. 4 The effects of social group engagement on the probability of depression among older adults, by levels and types, Taiwan, 1996–2007. *Note*: PG included: political groups are included. PG excluded: political groups are not included. All results were based on random-effects panel logit models. Results correspond to model 2 of Table S4, supplementary material. *Source*: the author.

Participation in such activities can also result in perceived commonality between the self and the political outgroup, which is a remedy to affective polarization and interparty hostility.³⁷

Third, such engagement may provide older people with a life purpose, thus reducing the risk of depression. Group membership helps the person to understand who they are, where they belong and how they make sense of the world, thus enhancing a person's sense of purpose, belonging and self-worth. When individuals have a primary motivational force to achieve personal aims and living objectives, psychological distress declines. A review of the literature certainly shows a significant inverse relationship between purpose in life and depression among the old population.^{38,39}

Notably, the effects of engagement level on depression likelihood were not prevalent among older adults in non-political groups. It appears arbitrary to argue that 'over-engagement' can have negative consequences for mental health. A literature review on preventive occupational health suggests that excessive time and effort spent in group participation leads to sustained activation with negative side effects, including psychological distress.⁴⁰ Future studies should re-examine whether engagement level has a positive relationship with mental health.

We confirmed the differential effects of both the type and level of social participation on depression likelihood among older adults, thus suggesting that the type of social engagement is a more important predictor of mental health. This also highlighted a potential difficulty when measuring the level of social participation, that is, totalling scores for responses to questionnaire items about participation in certain categories of social activity and organization.^{3–10}

Empirical evidence does not support the argument that members of political groups who report a higher likelihood of depression, compared with members of other types of social groups, complete less regular exercise, live alone or worry about their financial situation (Table S6). Thus, within this subset of individuals, it is probable that political group affiliation, rather than additional factors such as living alone, influences the likelihood of depression. However, this study suggests that factors such as frequency of exercise may link group participation status, rather than political group affiliation, to the likelihood of depression (Table S7).

Limitations of this study

This study had several limitations. First, more types of social engagement (e.g. sports clubs and cultural groups) were used to examine the predicted relationship.¹¹ However, TLSA data (the most comprehensive available for social group engage-

ment) allowed us to analyse the given group types. Second, participants were simply asked to indicate their involvement in each of the listed groups. There was no assessment of the time amounts spent on each group, thus causing bias. Future research should test the validity of the proposed arguments using additional measurements. Third, no data exist for unpacking the pathway underlying how political group engagement would not exert a positive impact on mental health outcomes. More detailed data may enable the examination of theoretical expectations. Finally, 1879 participants who completed the questionnaire after 1996 were lost to follow-up due to death. Those who were more likely to die were older, male, less educated, with multi-morbidities and less likely to participate in social groups. Thus, selection bias due to follow-up loss threatened the internal validity of estimates derived from the longitudinal data. Nevertheless, inverse probability weighting models accounting for the participants lost to follow-up revealed robust results (Table S8).

Research ethics and patient consent

The use of data in the study was exempted from Institutional Review Board approval of the Research Ethics Committee of China Medical University and Hospital, Taichung, Taiwan (CMUH-109REC1-154).

Supplementary data

Supplementary data are available at the *Journal of Public Health* online.

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Conflict of interest

None declared.

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