

Rodgers, Yana; Zveglic, Joseph E.; Ali, Khadija; Xue, Hanna

Working Paper

The role of family support in the well-being of older people: Evidence from Malaysia and Viet Nam

ADB Economics Working Paper Series, No. 730

Provided in Cooperation with:

Asian Development Bank (ADB), Manila

Suggested Citation: Rodgers, Yana; Zveglic, Joseph E.; Ali, Khadija; Xue, Hanna (2024) : The role of family support in the well-being of older people: Evidence from Malaysia and Viet Nam, ADB Economics Working Paper Series, No. 730, Asian Development Bank (ADB), Manila, <https://doi.org/10.22617/WPS240325-2>

This Version is available at:

<https://hdl.handle.net/10419/299305>

Standard-Nutzungsbedingungen:

Die Dokumente auf EconStor dürfen zu eigenen wissenschaftlichen Zwecken und zum Privatgebrauch gespeichert und kopiert werden.

Sie dürfen die Dokumente nicht für öffentliche oder kommerzielle Zwecke vervielfältigen, öffentlich ausstellen, öffentlich zugänglich machen, vertreiben oder anderweitig nutzen.

Sofern die Verfasser die Dokumente unter Open-Content-Lizenzen (insbesondere CC-Lizenzen) zur Verfügung gestellt haben sollten, gelten abweichend von diesen Nutzungsbedingungen die in der dort genannten Lizenz gewährten Nutzungsrechte.

Terms of use:

Documents in EconStor may be saved and copied for your personal and scholarly purposes.

You are not to copy documents for public or commercial purposes, to exhibit the documents publicly, to make them publicly available on the internet, or to distribute or otherwise use the documents in public.

If the documents have been made available under an Open Content Licence (especially Creative Commons Licences), you may exercise further usage rights as specified in the indicated licence.



<https://creativecommons.org/licenses/by/3.0/igo/>

THE ROLE OF FAMILY SUPPORT IN THE WELL-BEING OF OLDER PEOPLE

EVIDENCE FROM MALAYSIA AND VIET NAM

Yana van der Meulen Rodgers, Joseph E. Zveglich, Jr., Khadija Ali, and Hanna Xue

NO. 730

June 2024

**ADB ECONOMICS
WORKING PAPER SERIES**

ADB Economics Working Paper Series

The Role of Family Support in the Well-Being of Older People: Evidence from Malaysia and Viet Nam

Yana van der Meulen Rodgers,
Joseph E. Zveglic, Jr., Khadija Ali,
and Hanna Xue

No. 730 | June 2024

The *ADB Economics Working Paper Series* presents research in progress to elicit comments and encourage debate on development issues in Asia and the Pacific. The views expressed are those of the authors and do not necessarily reflect the views and policies of ADB or its Board of Governors or the governments they represent.

Yana van der Meulen Rodgers ([yana.rodgers@rutgers.edu](mailto: yana.rodgers@rutgers.edu)) is a professor of Labor Studies and Employment Relations and faculty director of the Center for Women and Work and Hanna Xue ([hmx1@smlr.rutgers.edu](mailto: hmx1@smlr.rutgers.edu)) is a PhD candidate at Rutgers University. Joseph E. Zveglic, Jr. ([jezveglic@adb.org](mailto: jezveglic@adb.org)) is the deputy chief economist at the Economic Research and Development Impact Department and Khadija Ali ([kali@adb.org](mailto: kali@adb.org)) is an operations analyst at the Central and West Asia Department, Asian Development Bank.



Creative Commons Attribution 3.0 IGO license (CC BY 3.0 IGO)

© 2024 Asian Development Bank
6 ADB Avenue, Mandaluyong City, 1550 Metro Manila, Philippines
Tel +63 2 8632 4444; Fax +63 2 8636 2444
www.adb.org

Some rights reserved. Published in 2024.

ISSN 2313-6537 (print), 2313-6545 (PDF)
Publication Stock No. WPS240325-2
DOI: <http://dx.doi.org/10.22617/WPS240325-2>

The views expressed in this publication are those of the authors and do not necessarily reflect the views and policies of the Asian Development Bank (ADB) or its Board of Governors or the governments they represent.

ADB does not guarantee the accuracy of the data included in this publication and accepts no responsibility for any consequence of their use. The mention of specific companies or products of manufacturers does not imply that they are endorsed or recommended by ADB in preference to others of a similar nature that are not mentioned.

By making any designation of or reference to a particular territory or geographic area in this document, ADB does not intend to make any judgments as to the legal or other status of any territory or area.

This publication is available under the Creative Commons Attribution 3.0 IGO license (CC BY 3.0 IGO) <https://creativecommons.org/licenses/by/3.0/igo/>. By using the content of this publication, you agree to be bound by the terms of this license. For attribution, translations, adaptations, and permissions, please read the provisions and terms of use at <https://www.adb.org/terms-use#openaccess>.

This CC license does not apply to non-ADB copyright materials in this publication. If the material is attributed to another source, please contact the copyright owner or publisher of that source for permission to reproduce it. ADB cannot be held liable for any claims that arise as a result of your use of the material.

Please contact pubsmarketing@adb.org if you have questions or comments with respect to content, or if you wish to obtain copyright permission for your intended use that does not fall within these terms, or for permission to use the ADB logo.

Corrigenda to ADB publications may be found at <http://www.adb.org/publications/corrigenda>.

Note:

ADB recognizes “China” as the People’s Republic of China, “Korea” as the Republic of Korea, “Vietnam” as Viet Nam, and “Hanoi” as Ha Noi.

ABSTRACT

Demographics in Malaysia and Viet Nam are evolving rapidly, potentially disrupting traditional family support to older people. We estimate a set of Poisson random effects models with panel data from the Malaysia Ageing and Retirement Survey and the Viet Nam Aging Survey to analyze how living arrangements, marital status, and support from children influence the mental and physical health of older people. In Malaysia, having living children plays an important protective role for both mental and physical health, while living with a son appears to have a protective effect for physical health. Results are similar for Viet Nam, except older women, who are at greater risk of mental and physical health problems, appear to enjoy a greater protective effect for their mental health from a child living nearby than do men. Our analysis underscores the importance of social safety nets for the health of senior citizens living alone.

Keywords: mental health, well-being, physical health, depression, gender, women, aging

JEL codes: I14, J16, O53

The authors thank Aiko Kikkawa, Minhaj Mahmud, Maki Nakajima, Donghyun Park, participants in the 2023 Asian Development Bank workshop on the State of Well-Beings of Older Persons in Asia, and participants in the 2024 Asian Development Bank Economists' Forum for their helpful suggestions. Guidance from Norma Mansor on the use of the Malaysia data and from Long Thanh Giang on the use of the Viet Nam data was greatly appreciated.

I. Introduction

The number of older Asians aged 65 and above is growing rapidly. By the year 2050, the share of Asia's older people in the total population will be 18%, exceeding the global average of 16% (Asian Development Bank [ADB] 2017). Although developing countries in the region still have relatively young populations, their demographic transitions are progressing rapidly, with a considerable shift in the age structure toward older people. This shift has prompted legislative reforms to build and reinforce the social safety net to better support older people, especially those living in poverty.

A growing body of research is examining how the well-being of older women and men is influenced by their living arrangements. Across countries, families are using their own unpaid labor, especially that of women, to provide care for older family members (Stark 2005). Unpaid care for older men is often provided by spouses, while for women it is provided by other family members, especially by daughters, as documented for the Republic of Korea (Yoon 2014) and the People's Republic of China (Chen et al. 2018). One outcome of these informal care arrangements is lower hospitalization rates for older people living with family members compared with the older people who live alone (González-González et al. 2011). In what has been called the feminization of later life, the population share has become increasingly female among older age groups in most countries, with women having higher life expectancies than men on average because of a combination of biological, social, and behavioral reasons (Kinsella 2000). Given women's longer life expectancies, in most countries relatively more women are widowed than men, leaving women more reliant on formal services outside of the home for their healthcare needs, including long-term care.

Despite their longer life expectancies, women are more likely than men to report health problems and to have worse self-reported health status (Atchessi et al. 2018; Madyaningrum, Chuang, and Chuang 2018; Case and Paxson 2005). Older women are more vulnerable to poverty given their relatively higher rates of widowhood as well as insufficient support from pensions and social security owing to their relatively shorter times in the labor force (Smeeding and Sandstrom 2005). In turn, poverty and income constraints contribute to problems in accessing healthcare. Older women have faced additional constraints, including relatively lower rates of health insurance coverage, less education, and lack of economic independence, that have limited their access to healthcare and their ability to pay for it (Brinda et al. 2015, Zhang et al. 2017). Gender discrimination and class bias against poor people may also play a role causing women to slip through the cracks in gaining access to services from network hospitals (Karpagam, Vasan, and Seethappa 2016).

We contribute to this literature by examining factors that are associated with the well-being of older people in Southeast Asia, with a focus on the role of family support and living arrangements. We study two countries that are experiencing pronounced demographic transitions and evolving challenges faced by the older members of their populations: Malaysia and Viet Nam. Our goal is to determine how support from children influences the mental and physical health of older people, and how these effects differ by ethnicity and gender. A focus on differences across ethnic groups reveals how people with varying ethnic backgrounds view the role of family in caring for aging parents. This approach is motivated by qualitative evidence that older Chinese in Malaysia are not supported by their children and are placed into nursing homes instead (Tey et al. 2016).

Moreover, the analysis will also show how discrimination by ethnicity—similar to the case of gender bias—may be reflected in disparities in the well-being of older people, to the extent that some ethnic groups in these countries have experienced bias and marginalization in the labor market.

Cultural nuances and different kinship systems can play a major role in influencing how older parents respond to care by their children, as evidenced by previous research indicating that the psychological well-being of older people in Viet Nam is positively associated with living with a married son but not with a daughter, while in Thailand, co-residence with a child has beneficial effects for the psychological well-being of older people regardless of the gender of the child (Teerawichitchainan, Pothisiri, and Long 2015). Our objective is to build on this research along several dimensions: we look at three measures of well-being, we use more recent data for Viet Nam and new panel data for Malaysia, and we explore how the relationship between living arrangements and the well-being of older people varies by gender and ethnicity.

II. Background

A. The Demographic Transition

Malaysia is still in the early stages of the demographic transition while Viet Nam is (somewhat surprisingly, considering its still relatively low income) at a more advanced stage. In fact, Viet Nam is one of countries of the Association of Southeast Asian Nations that is widely cited as being at risk of getting old before getting rich (Huong 2017). Therefore, the demographic profiles of Malaysia and Viet Nam are quite different in terms of the speed of population aging. Figure 1 depicts population pyramids for the years 1990

and 2021 in which the bars indicate the percentage of the total population that is male or female and belongs to a particular age group. Both countries have clearly undergone pronounced demographic transitions since 1990, with a large shift in the population distribution from children to adults. Consistent with other middle-income countries in the region, the population is now concentrated among age groups considered to be young and working-age adults, and Viet Nam has started to see that shift in the distribution of the population toward older people. Strikingly, gender imbalances are progressively skewed toward women in older age groups, especially in Viet Nam.

Insert Figure 1 here

Looking at the data from another angle shows that most of the older people are women. Figure 2 shows the male–female sex ratio by 5-year cohorts for both countries; that is, the ratio of the number of males in each 5-year age group to the number of females, expressed as a percentage. Numbers close to 100 indicate that the shares of males and females in an age group are roughly the same. These ratios exhibit a marked and sharp drop for the older population groups, especially after the age of 50, and especially in Viet Nam. Overall, among older people, women make up the majority share for all age groups, and the difference is particularly stark for those aged 70 and above.

Insert Figure 2 here

B. Aging and Family Support in Malaysia

A small but growing body of research has examined the essential role of social support for both physical and mental health outcomes for older people, especially concerning depression and physical inactivity (Sazlina et al. 2012, Marthammuthu et al.

2021, Sahril et al. 2023, Yahaya et al. 2013). For example, Kooshair et al. (2014) find that: (1) fewer social support functions are available for older women than for older men, (2) gender moderates the effect on the relationship between positive social interaction and life satisfaction, and (3) social support from children and family members has a significant positive effect on life satisfaction. Cultural traditions also play a role, in that relationships, gender roles, social norms, and group cohesions usually matter more for people's behaviors than their own beliefs (Kooshair et al. 2014). A study of more than 2,000 Malaysian older people living across the country found that the quality of social networks may matter more than living arrangements (Hamid et al. 2021). Women in Malaysia are often found to be at greater risk for several negative outcomes related to well-being, including frailty, anemia, dementia, weight problems, and security or safety at home (Badrasawi, Shahrar, and Singh 2017; Yusof et al. 2018; Hamid et al. 2010; Chen, Ngoh, and Harith 2012; Suriawati et al. 2020).

In Malaysia, discrepancies in health by ethnicity can be pronounced. Conditions like arthritis, high blood pressure, diabetes, asthma, and perceived health status vary considerably across ethnic groups. After controlling for socioeconomic and health and lifestyle factors, Teh, Tey, and Ng (2014a) found that Chinese older people are least likely to report poor health, whereas Indians and indigenous peoples are more likely to do so. Further, older Malays have a lower likelihood than older Chinese and Indian of undergoing check-ups due to the influence of cultural beliefs (Cheah and Meltzer 2020). These ethnic disparities in seeking medical check-ups appear only in lower-income groups, not middle-income or high-income groups. Closely related, Omar (2003) found disparities by ethnicity in social support in the city of Petaling Jaya: older men, especially Muslim and Chinese

men, were more mobile, whereas older women were more housebound, experienced greater loneliness, and were more likely to suffer from depression. Issues related to the migration of adult children compound these differences across ethnic groups. In particular, semi-structured interviews of older Chinese and Malay adults indicate that assistance from their emigrant adult children tended to be mostly informational and financial, often substituting for a lack of more tangible support (Evans et al., 2017). Although the adults in this purposive sample lived alone by choice, there was quite some ethnic variation in types of support. Older Malays received more support from nearby adult children and relatives, whereas older Chinese adults were less likely to have adult children living locally and more likely to emphasize support from friends and neighbors instead.

C. Aging and Family Support in Viet Nam

Viet Nam exhibits substantial regional differences in the patriarchal family system. Older people are much more likely to reside with a married son than daughter, and this tendency is more pronounced in the northern regions of Viet Nam than in southern and central areas (Friedman et al. 2003). In contrast, Viet Nam exhibits less variation by gender among older people when it comes to intergenerational transfers, household wealth, and self-perceptions of economic satisfaction (Friedman et al. 2003). Self-reported health status is a different matter, as older Vietnamese women are more likely than men to report poor self-rated health, with factors like social participation playing a confounding role (Le, Quashie, and Prachuabmoh 2019). More specifically, additional predictors of health for older women include living alone, number of children living nearby, and average frequency of talking on the phone with children, while satisfaction with respect from the

community, financial support from children, and information support are strongly associated with older men's health (Giang, Nguyen, and Nguyen 2020). However, while intergenerational co-residence was found to increase the psychological well-being of older people in Viet Nam, this effect was more important for older men than for older women (Yamada and Teerawichitchainan 2015).

Women comprise about three-quarters of older people in Viet Nam who live alone, and they are more vulnerable to health problems, especially anxiety and depression. (Vo et al. 2021, Pham et al. 2018). About 30%–60% of older women in rural Viet Nam self-reported moderate health problems related to mobility, self-care, usual activities, pain or discomfort, and anxiety or depression (Hoi, Chuc, and Lindholm 2010). Van Minh et al.'s (2010) study of the Bavi District, a rural community west of Ha Noi, affirm these general findings with evidence that a higher proportion of older women reported both poor health status and poor quality of living compared to older men.

In terms of healthcare-seeking behavior among older people, previous research suggests that Viet Nam's long history of socialized medicine helps to explain why the country sees a relatively high probability that individuals seek healthcare services from professional providers compared to some regional neighbors (Rodgers and Zveglic 2021). However, in Viet Nam, being a woman is negatively associated with healthcare-seeking behavior. A possible reason is that women face relatively more stigma and discrimination than men in seeking treatment for some communicable diseases in Viet Nam (Govender and Penn-Kekana 2008, Van Minh et al. 2018).

III. Data and Methodology

The study uses panel data from the Malaysia Ageing and Retirement Survey for 2018–2019 and 2021–2022 and the Viet Nam Aging Survey for 2019 and 2022. The Malaysia Ageing and Retirement Survey data, collected by the Social Wellbeing Research Centre, is national longitudinal data based on in-person interviews with adults aged 40 years and above. Wave 1 was completed in 2019 with 5,613 respondents, and Wave 2 was completed in 2022 with 4,821 respondents (of which 75% consisted of panel respondents who participated for the second time). The Viet Nam’s Institute of Social and Medical Studies collected the Viet Nam Aging Survey data through a home-based survey to evaluate social health insurance for aging adults, with 4,333 respondents aged 50 and above in 2019. The 2022 wave only included those aged 60 and above, and it had 3,183 respondents (of which 45% consisted of panel respondents who participated in the 2019 wave). Both the Malaysia and Viet Nam data sets have detailed information on socioeconomic and demographic characteristics, family relationships and support, health outcomes, and healthcare utilization. For both countries, we run regressions for the full sample as well as a sample of older people, defined to be those individuals aged 60 and above (consistent with the United Nations’ definition of older people).

We model the determinants of well-being in old age using Poisson random effects regressions, following the approach of Díaz-Venegas, Sáenz, and Wong (2017). Poisson regressions, which are used to analyze count data such as the number of depressive symptoms reported by a respondent, can be used to explore how various factors can predict the likelihood or frequency of an event occurring. We focus on two indicators: the

number of self-reported depressive symptoms and the number of self-reported chronic conditions.

For the Malaysia survey, respondents were asked about the frequency of 18 possible depressive symptoms they may have experienced in the previous 6 months. The symptoms include negative experiences (such as sadness, losing interest in most things, and thoughts of death) and positive experiences (such as feeling cheerful, satisfaction with life, and having people to turn to). Responses for all 18 questions were coded as a Likert scale, ranging from 1=never to 5=always. To construct our indicator of the number of depressive symptoms, we counted the number of negative experiences for which “always” or “often” was the response plus the number of positive experiences for which “never” or “rarely” was the response. For the number of chronic physical conditions, respondents were asked if they had ever been diagnosed by a doctor for 19 possible illnesses, including cancer, stroke, heart disease, and diabetes. For this indicator, we simply counted the number of conditions for which the response was yes. Variable construction using the Viet Nam data was similar, with some notable differences. For the 15 depressive symptoms, allowable responses were yes or no rather than a Likert scale, and the reference period was the previous 7 days. The variable for the number of chronic physical conditions, based on 15 listed conditions, was constructed in the same way as the Malaysian data.

One of the key independent variables is the number of living children, with the a priori expectation that the number of children is beneficial for the well-being of older people. In both countries, adult children are usually considered the traditional care providers and the most important source of support for older people. Because this

association may be nuanced by living arrangements and the gender of the children, our regressions include control variables for these indicators. In particular, we have a set of dummy variables for living arrangements: living with a spouse only, living with other family members, and living alone (the excluded variable). We also include controls for gender, ethnicity, educational attainment, age, marital status, geographical region, and survey wave. In Malaysia, the ethnic groups are Malay (majority), Chinese, Indian, other Bumiputra, and other groups. In Viet Nam, the ethnic groups are Kinh (majority) and other groups. For Malaysia only, we also include a set of dummy variables for the location of the nearest living son: living with the respondent, living near the respondent, and living elsewhere (the excluded category); a similar set of variables is included for the nearest living daughter. For Viet Nam, a set of dummy variables is included for the location of the nearest living child, though the survey did not have questions that allowed us to create such variables by gender (son or daughter).

Because we are interested in how the effect of family support differs by ethnic group and by gender, for some specifications, we construct sub-samples based on gender and ethnicity (constructed as ethnic majority and an aggregation of the ethnic minorities) and run separate regressions for those sub-samples. The results for the gender sub-samples are reported in the main tables, and the results for the ethnic sub-samples are available upon request. All statistical analyses are weighted to the population using the sampling weights from the respective data sets. Standard errors are corrected for clustering at the household level. The online appendix¹ provides detailed variable definitions (Appendix Table 1) and sample means (Appendix Tables 2 and 3).

¹ The Appendix is available at <http://dx.doi.org/10.22617/WPS240325-2>.

Figures 3–6 compare several key variables between the two countries. As shown in Figure 3, 57% of older people in Viet Nam report having at least two chronic physical health conditions, considerably higher than Malaysia (32%); only 18% in Viet Nam were not diagnosed with any chronic conditions compared to 46% in Malaysia. Older people in Viet Nam are also more likely to report having depressive symptoms: 57% of older people in Viet Nam reported experiencing at least three depressive symptoms compared to 18% in Malaysia. Also of note are considerable gender differences in marital status in both countries: older men are considerably more likely to still be married compared to older women. In contrast, older women are much more likely to be widowed in both countries, especially in Viet Nam—presumably as a long-term repercussion of the loss of men’s lives during the Viet Nam war (Figure 4). In both countries, the vast majority of older people live with other family members (85% in Malaysia and 72% in Viet Nam) (Figure 5). Gender differences in living arrangements are less pronounced in Malaysia than they are in Viet Nam, where 67% of older men live with other family members compared with 74% of older women. Also in both countries, older women are more likely than older men to live by themselves, while the opposite is true for living only with one’s spouse. A final point of interest in the descriptive statistics is the location of the nearest living child. A large proportion of older people in both countries live with their children: in Malaysia, 77% of older people live with at least one child, and in Viet Nam that share is 65% (Figure 6). In Malaysia, more older people live with a son than with a daughter, and this is true for both men and women.

Insert Figures 3-6 here

IV. Estimation Results

A. Malaysia

Table 1 shows the results for the factors that are associated with the number of depressive conditions in Malaysia. The table reports Poisson coefficients, each of which is interpreted as the expected change, on a log scale, the count of depressive conditions for a one-unit change in the predictor variable (holding the other predictor variables constant).

Insert Table 1 here

Looking first at the results for the overall sample in column 1 and the two age-group subsamples (aged 40–59 and aged 60+) in columns 2–3, we see that increasing age is associated with a somewhat higher expected number of depressive symptoms, but gender has no statistically significant association with depressive symptoms. Columns 2 and 3 show that the positive association between age in years and depressive conditions is coming entirely from the older people aged 60 and above. Among the ethnic groups in the overall sample, compared to the other Bumiputra category, being Indian is associated with more depressive symptoms, and this is driven mostly by the those aged 40–59. In contrast, being Chinese is associated with fewer depressive conditions for both age groups and for the overall sample. This result is consistent with previous findings in the literature that among older people in Malaysia, Chinese individuals are less likely to self-report poor health compared to Malays, Indian, and Indigenous People, and this result holds across income groups (Teh, Tey, and Ng 2014a; Chan et al. 2015; Khan and Flynn 2016). A possible reason is that older Chinese adults

exhibit more health-promoting behaviors than older Malay and Indian adults (Mohd et al. 2022).

Our key independent variables for the number of children and living arrangements yield some meaningful results. As shown in column 1, compared to adults with no living children, adults who have at least one living child have a substantially lower expected number of depressive symptoms, and this is particularly true for adults who have three or four living children. This protective effect of having living children is only true for older people aged 60 and above. Closely related, compared to adults who live alone, adults who live with their spouse or with other family members have a lower expected number of depressive symptoms, and this is especially true for adults who live only with their spouse. Again, columns 2 and 3 show that these living arrangement variables only have statistically significant coefficients for older people aged 60 and above. Although it does not appear to matter if the adult is living with a son or daughter in the same home, it does matter for mental health to have a daughter living nearby, but in an unexpected way: living near one's daughter is associated with a higher number of depressive symptoms. This result is driven by older people aged 60 and above. Closely related to living arrangements is marital status: adults who are separated or divorced have more depressive symptoms compared to people who are married in both age-group samples. Being widowed is also associated with more depressive symptoms, but this result is explained mostly by adults aged 40–59. Having never been married also appears to have an adverse mental health effect for adults aged 40–59 but a protective effect for older people aged 60 and above.

Results for the other independent variables in columns 1–3 are as expected. More education is generally associated with fewer depressive conditions compared to having

no education at all, and the magnitude of this relationship is larger the higher the educational attainment. In addition, living in an urban area is associated with a lower number of expected depressive conditions, although the opposite is true for living in Peninsular Malaysia where most of Malaysia's population lives.

Columns 4–6 show how these results for the two age-group samples differ by gender of the respondent. Of note, the increase in depressive conditions associated with age is particularly strong for women aged 60 and beyond, while the protective effect of being Chinese holds for both men and women (except that the coefficient is not statistically significant for men aged 40–59). The results for the number of living children and living arrangements are also striking. The protective effects of having living children compared to having no children for older people hold for both men and women, as do the beneficial effect of living with one's spouse only. However, only older men seem to experience the adverse effect for mental health from living near a daughter.

Results for the number of chronic health conditions for Malaysia are in Table 2. Looking first at the overall results and the two age-group subsamples in columns 1–3, we see that being a woman is associated with a higher expected number of chronic health conditions for older people aged 60 and above, but not for younger adults. In contrast, an additional year of age is linked with more chronic conditions for adults aged 40–59, but not for older people. Among the ethnic groups, the largest effect is found for being Indian, which is associated with a fairly large increase in the expected number of chronic conditions among adults in their 40s and 50s, but not older people. Ethnic Malays in their 40s and 50s also have more chronic conditions, while the opposite is true for the “other” ethnic category. Again, these results for the different ethnic groups are largely in line with

previous studies on self-reported health among Malaysia's different ethnic groups (Teh, Tey, and Ng 2014a, Chan et al. 2015, Khan and Flynn 2016).

Insert Table 2 here

Among the results for the number of children and living arrangements, having at least one child is positively linked with the number of chronic conditions, and this effect is coming entirely from older people aged 60 and above. The general living arrangements do not appear to play much of a role, but living with or near one's children does. Living near one's daughter is associated with a higher number of chronic conditions, especially for adults aged 40–59, while living with one's son is associated with fewer chronic conditions, especially for older people aged 60 and above. Because these estimates are associations and not causal effects, it could be that daughters are likely to live close to their parents if their parents are in poor health with multiple chronic conditions, but the daughters' own childcare arrangements prevent them from living with their parents. For older people, and especially older men, living with a son has a clear protective effect for physical health. Being widowed is also associated with having a higher number of chronic conditions. As for the other control variables, the most notable finding is the lack of a consistent protective effect from educational attainment, which is counter to the results we found for depressive conditions.

As for gender differences in Columns 4–6 of Table 2, there are several key findings. First, only women in their 40s and 50s, not men, report a positive association between being Malay and having more chronic health conditions. In contrast, the positive association between having at least one child and having more chronic health conditions among older people aged 60 and above holds more for men than it does for women. A

similar conclusion applies to living near one's daughter: among adults aged 40–59, the positive association between living near one's daughter and number of chronic conditions is considerably larger for men than for women. Being widowed also has a stronger positive association with chronic conditions for men than women among older people aged 60 and above.

B. Viet Nam

Results for the predictors associated with the number of depressive conditions in Viet Nam are in Table 3. Overall, results for adults aged 60 and above are very similar to results for the overall sample, so compared to Malaysia, there is far less nuance by age in Viet Nam, which may be partly accounted for by differences in minimum ages in the two countries' samples. Overall, and among older people above the age of 60, being a woman is associated with having a higher number of depressive symptoms, and the magnitude of this association is fairly large compared to many other estimates. However, being part of the ethnic majority (Kinh) has a protective effect on mental health. Among the estimates for the number of children and living conditions, having at least one child is associated with a lower number of depressive symptoms for both men and women, and the same is true for living with their spouse or living with other family members, as compared to living alone. Compared to not living close to any children, living with a child or living near a child also appears to have a protective effect on mental health for all adults and for older people.

Insert Table 3 here

There are more variations by age and gender for marital status. In particular, being separated or divorced is associated with a lower expected number of depressive

symptoms for the overall sample but a higher number of depressive symptoms for older people aged 60 and above. Most of that effect is coming from older women. Also contributing to having more depressive symptoms for women but not for men is being widowed. In direct contrast, never having been married is associated with more depressive symptoms for men and fewer depressive symptoms for women. Also of note is the protective effect of having higher educational attainment on the mental health of both older men and older women; we saw a similar result for Malaysia. Moreover, the protective effect of living with or near a child appears to only hold for women, as men have more depressive symptoms if they are living with or near a child.

Finally, Table 4 reports the results for the number of chronic health conditions in Viet Nam. As we saw with the results for depression, being a woman is associated with a higher expected number of chronic health conditions than men. Age and being ethnic Kinh also have a positive association with the number of chronic health conditions. In contrast, living with or near a child is strongly associated with fewer chronic health conditions for all adults and for older people.

Insert Table 4 here

The results for support from family members show more differentiation by age and gender. In the overall sample, having at least one child is associated with a higher number of chronic conditions, and this result is driven primarily by men. Among adults in their 60s and above, the relationship is less clear-cut and varies by the number of children and by the gender of the respondent. So, for example, having at least one child is associated with a meaningful increase in the expected number of chronic conditions for older men, and this risk varies with the number of children, but for older women, the relationship is

smaller and in one case (having 3–4 children) it even becomes negative. As for living arrangements, for the most part, there is a protective effect from living with their spouse only or with other family members. This holds for everyone except for older women aged 60 and above, for whom living with their spouse is associated with more chronic health conditions. Moreover, the apparent protective effect for physical health from living with or near a child is larger for men than women.

Men and women differ considerably in how marital status is associated with the number of chronic conditions. While widowhood and being separated or divorced are associated with fewer chronic health conditions among older men in their 60s and beyond, the association becomes positive for older women. However, never having been married appears to be good for one's physical health for both older men and older women. The final noteworthy result is that the protective effect we saw in the case of mental health does not appear to hold for chronic physical conditions. Having secondary or tertiary schooling is associated with more chronic conditions for the overall sample and the sample of older people, and it holds for both men and women except for the case of older women having tertiary education.

V. Conclusion

This study has explored factors that are associated with health outcomes of older people in Malaysia and Viet Nam. We used recent health surveys to estimate Poisson random effects regressions to model the determinants of well-being in old age, with a focus on mental health and physical health. Our main findings for Malaysia point to a greater incidence of self-reported chronic health conditions among older women relative

to older men. Consistent with earlier studies, we also find substantial differences across ethnic groups in the likelihood of reporting both depressive symptoms and chronic health conditions, with Indian adults being more likely to report mental and physical health issues compared to Chinese adults. Having living children plays an important protective role for both mental and physical health compared to having no children at all, especially for older people aged 60 and above. Living with a son also appears to have a protective effect on physical health. As expected, living alone and being widowed or separated or divorced are all associated with more depressive symptoms. The results for Viet Nam are similar, except that older women are at greater risk of both mental health and physical health problems compared to men, and women in Viet Nam enjoy more of a protective effect for their mental health from living with or near a child than do men. On balance then, family support is critical for the mental and physical health of older people in both countries, with the implication that senior citizens who are living alone need extra support through the social safety net.

In Malaysia, the government has taken several steps to promote the health and well-being of older people. Notably, Malaysia is one of just a few Asian countries that has achieved universal health coverage, meaning that people receive needed healthcare services without experiencing financial hardship (Kowal, Ng, and Hoang 2024). Another key measure in place includes the National Policy on Aging, which covers various aspects of older people's well-being, including healthcare, social support, and financial security. The government has been working to increase the accessibility and affordability of healthcare services, as well as providing specialized services for age-related conditions. The government has also conducted health education and promotion campaigns

targeting older people to raise awareness about healthy living, disease prevention, and the importance of regular health check-ups. In terms of financing healthcare, the government provides financial support to older people through programs like the Social Welfare Department's financial aid schemes, which aim to assist those with low incomes. Such efforts have not only come from the top down, as initiatives have been implemented to provide community-based care for older people, which allows them to receive healthcare services and support in their own communities, thus helping to reduce the need for institutionalized care. In addition, various social support programs and initiatives have been launched to address the social and emotional well-being of older people, including social clubs, recreational activities, and counseling services.

More recent efforts include implementing and enforcing regulations on elder care services in Malaysia to ensure that older people receive appropriate care and support. These various initiatives reflect the government's recognition of the aging population and the need to focus on care. In early 2023, the government proposed a comprehensive policy solution to address its aging population. One of the most striking provisions of the Senior Citizens' Bill is its financial penalties for people placing their older parents into formal care institutions, highlighting the continued role of filial piety customs in Malaysian culture by attempting to enforce a statutory duty that legally binds adult children to caring for their older parents (Hui 2023). However, critics point to the 2023 and 2024 national budgets as evidence that the Government of Malaysia lacks a strong focus on responding to the needs of its aging population (New Straits Times 2023, Thomas 2023). The Malaysian Coalition on Aging has continued to urge the government to do more to support the healthy and active aging of older people, emphasizing limited savings of older people

and advocating for a basic universal pension scheme. Hui (2023) also proposes greater investment in Malaysia's care economy and care infrastructure to respond to the vast majority of older people's preferences to age in their own homes.

In Viet Nam, the older people share of the total population is projected to increase from 8.1% in 1999 to almost 20% by 2035 (United Nations Population Fund [UNFPA] 2019). The Government of Viet Nam has recognized the growing size of its older population and has already implemented several policy measures to address their needs. These efforts include an Ordinance on Elderly People, passed in 2000, that contained provisions for the support for and care of older people. In 2009, this Ordinance was replaced by a broader Law on the Elderly 2009, which guaranteed the rights of older people. It was followed 3 years later by the National Action Program on the Viet Nam Elderly, which contained specific social targets, including health care and the promotion of "active aging" (UNFPA 2019). In 2014, the government instituted a revised Health Insurance Law that removed barriers to coverage faced by poor people (Thuong 2020), and it has since adopted additional resolutions to address the needs of the aging population further.

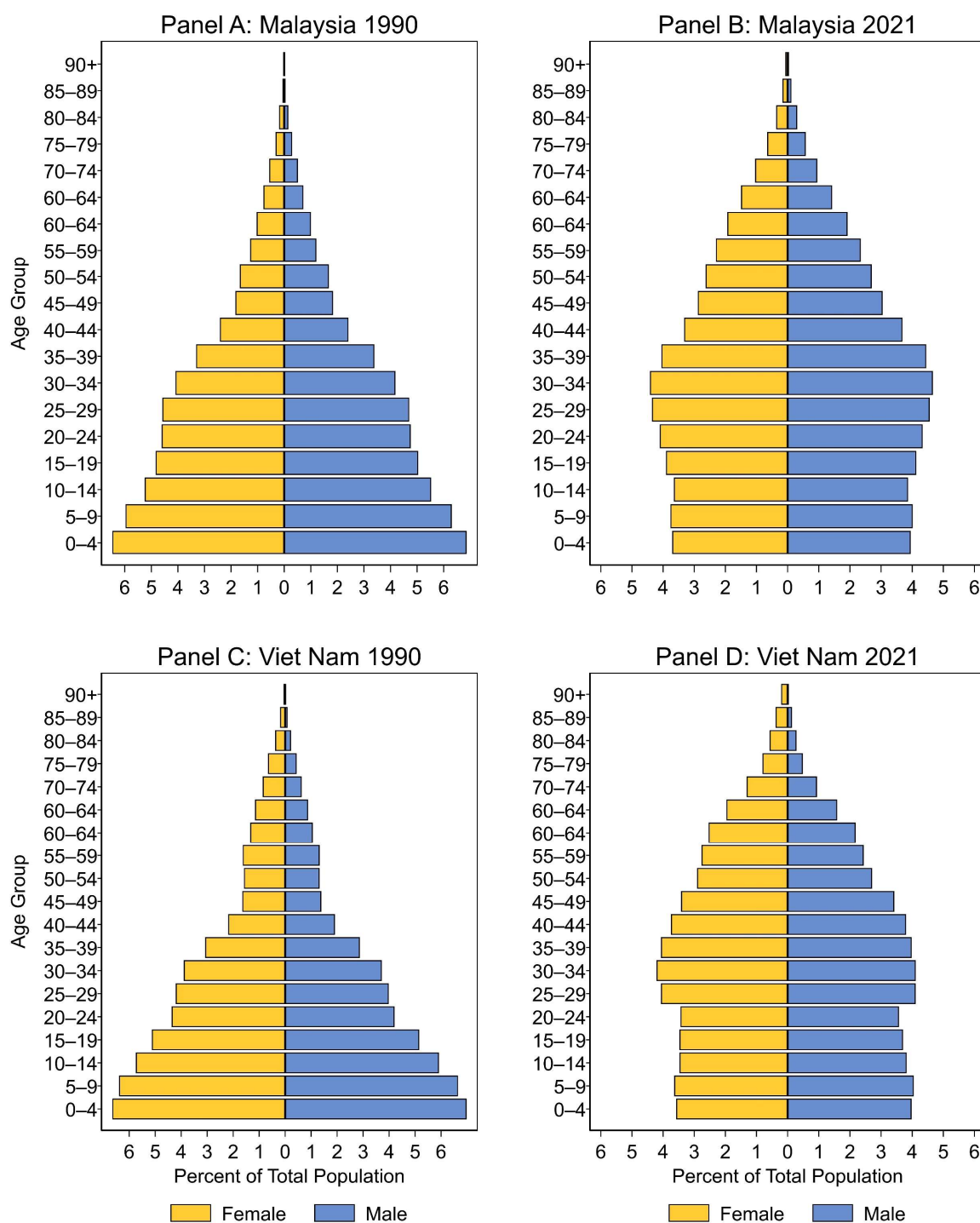
Viet Nam's fast-aging population has created new policy challenges, especially in terms of welfare administration. Structural problems with its national welfare system, particularly through the separation of the pension and social welfare system, have left many older people behind. Further, low levels of participation in Viet Nam's social insurance program (only 38% as of June 2023), and continued withdrawals from the program have threatened pension security, placing older people at greater risk (Giang 2023, Nguyen 2023, Viet Nam News 2023b). The government has tried to address these

problems. In 2019, it enacted a policy to phase-in increases in the retirement age, from 60 to 62 for men by 2028 and from 55 to 60 for women by 2035 (Webster et al. 2019). Moreover, in August 2023 the government passed a resolution to study and propose a social allowance and pension program for those aged 75–80, along with general raises in social allowances for the older population (Viet Nam News 2023a). If stigma and discrimination in seeking treatment are contributing to Viet Nam's sizeable male–female gap in healthcare-seeking behavior, then programs and policies that adjust these types of attitudes and gender norms will go a long way to eliminate health inequities in Viet Nam.

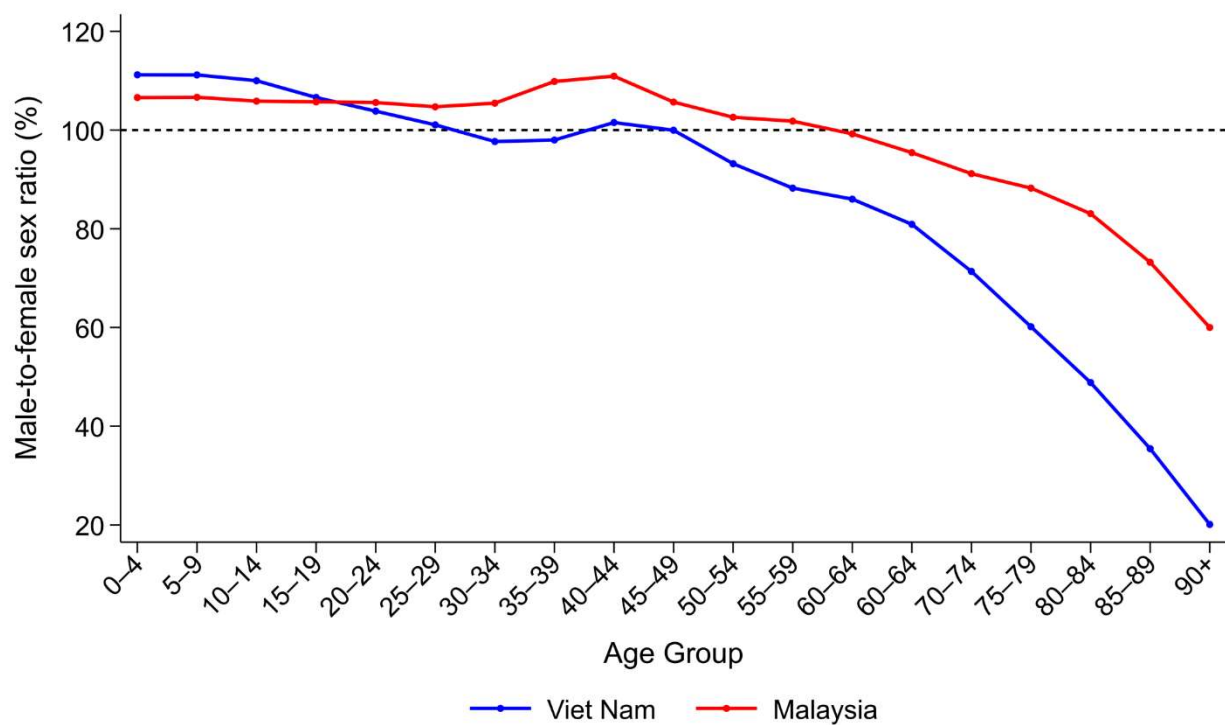
Like Malaysia and Viet Nam, many countries in the region have implemented reforms that focus on the needs of their aging populations, but progress has remained uneven, depending on the size of public sector health budgets (Mahal and McPake 2017). Governments in the region will need to set out plans to better prepare their populations for active and healthy old-age living. The strategic challenge for policymakers across developing Asia is to equip current and future cohorts of older Asians with greater access to quality health, education, and other services, leading them to more fulfilling lives in their older age. From the society's perspective, success in this endeavor will determine whether the growing number of older Asians can become an asset rather than a burden.

FIGURES AND TABLES

Figure 1: Population Pyramids for Malaysia and Viet Nam, 1990 and 2021

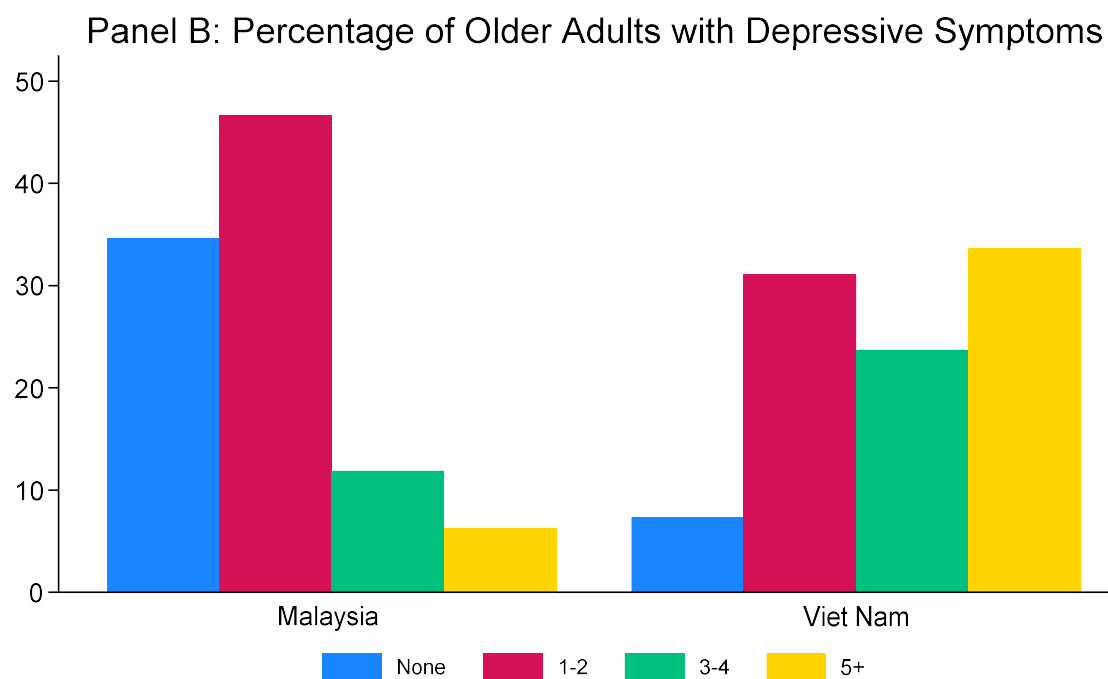
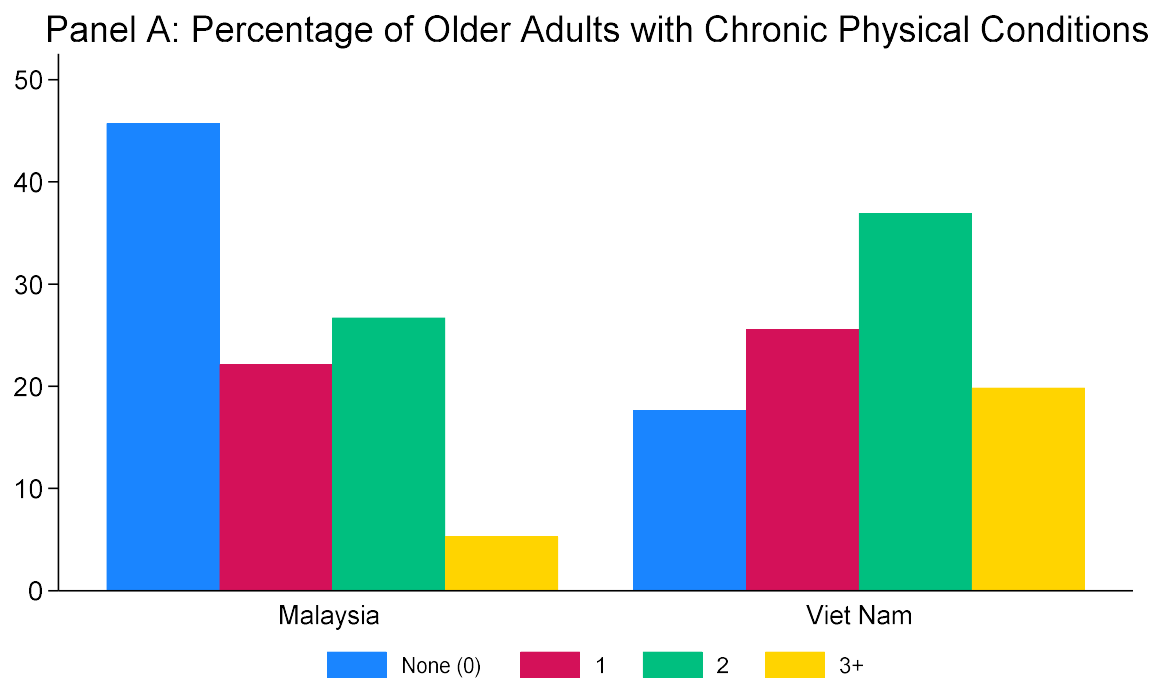


Source: Constructed with data from United Nations Department of Economic and Social Affairs (2022).

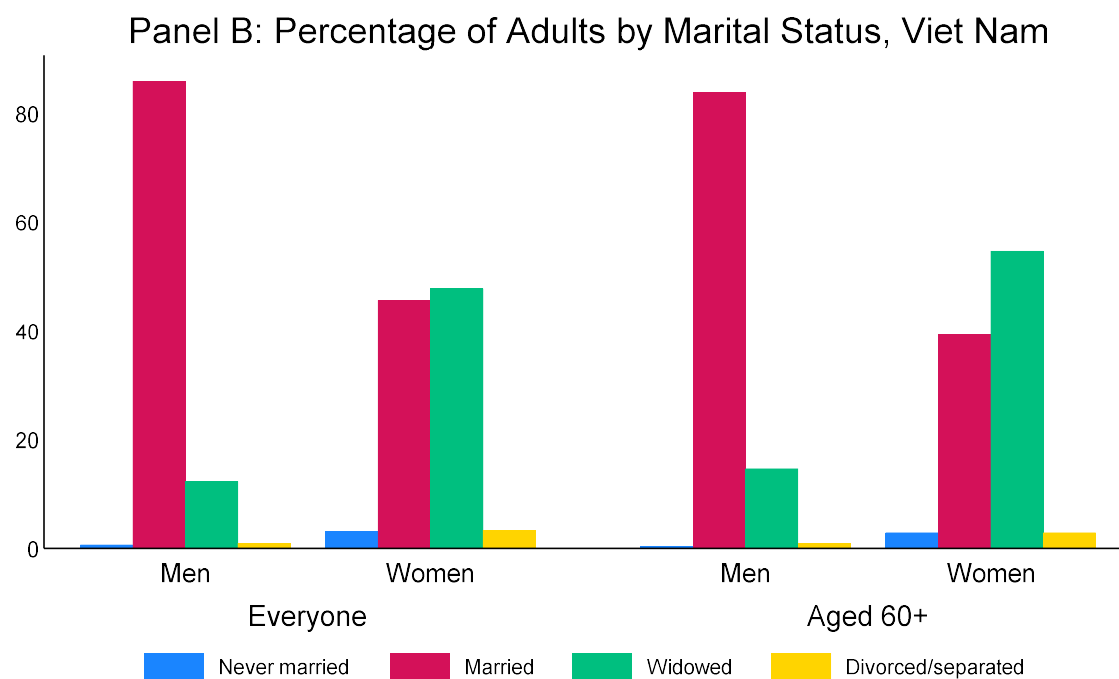
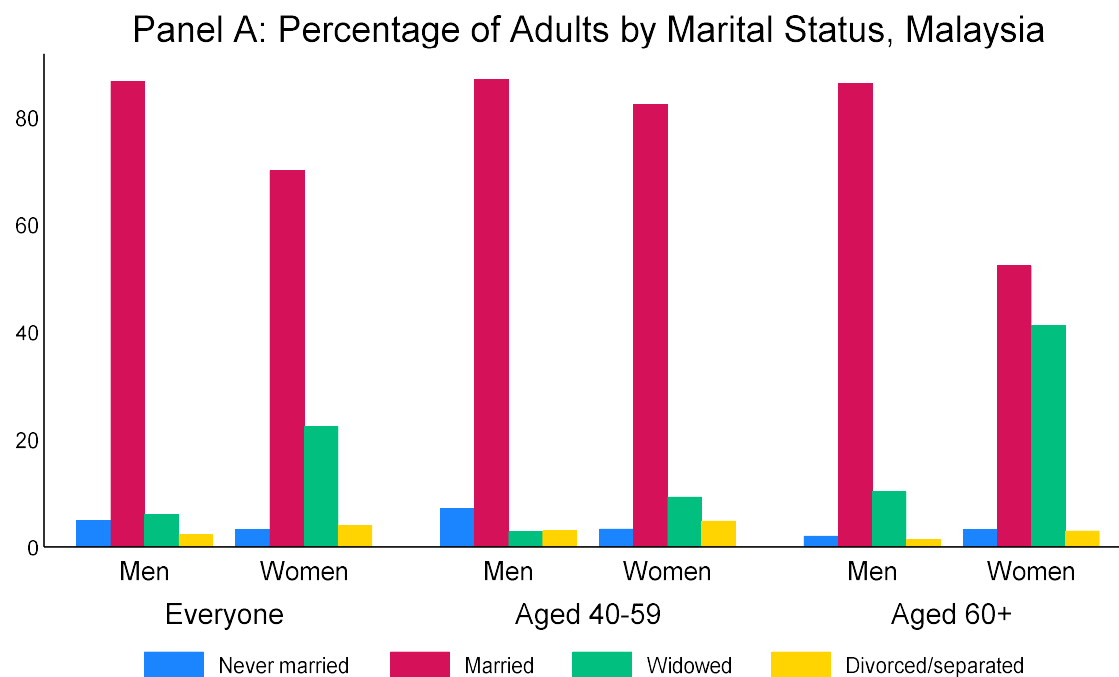
Figure 2. Population Sex Ratios by Country, 2021

Source: Constructed with data from United Nations Department of Economic and Social Affairs (2022).

Figure 3. Chronic Physical Conditions and Depressive Symptoms by Country

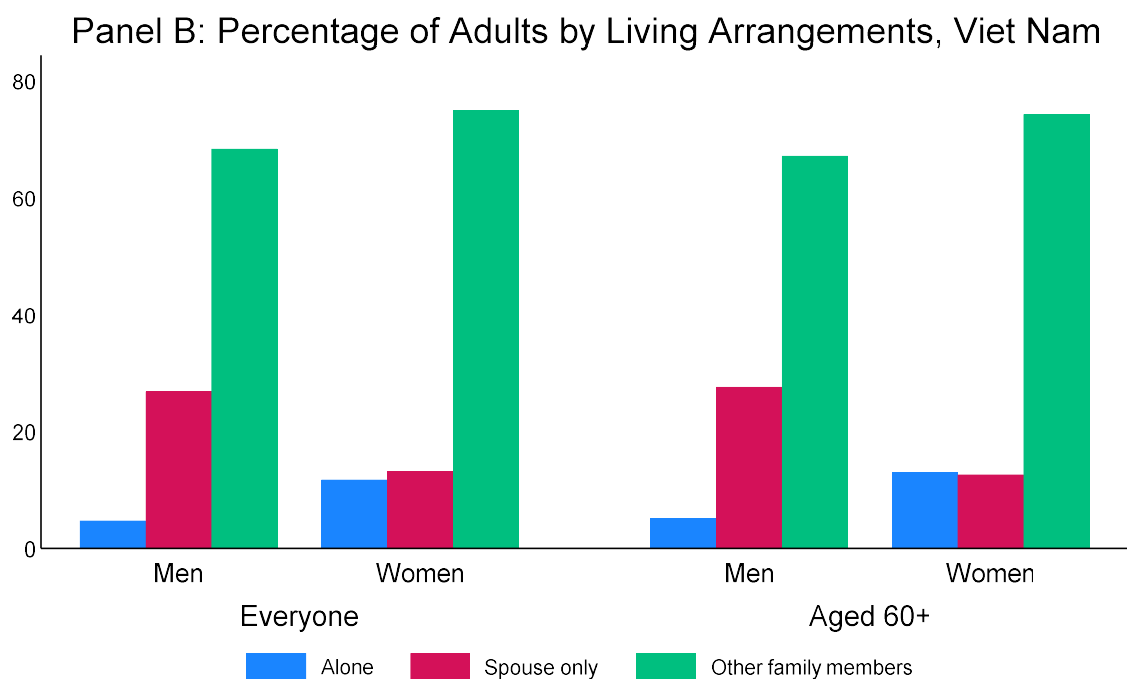
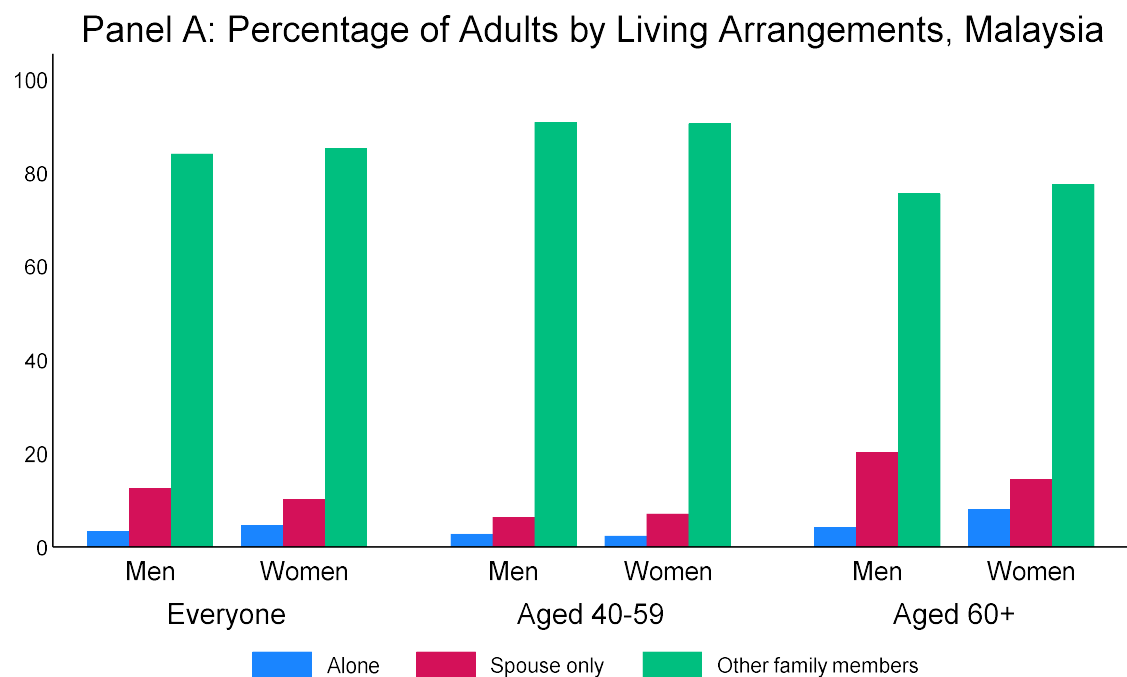


Source: Authors' calculations using Malaysia Ageing and Retirement Survey data and Viet Nam Aging Survey data.

Figure 4. Marital Status by Country

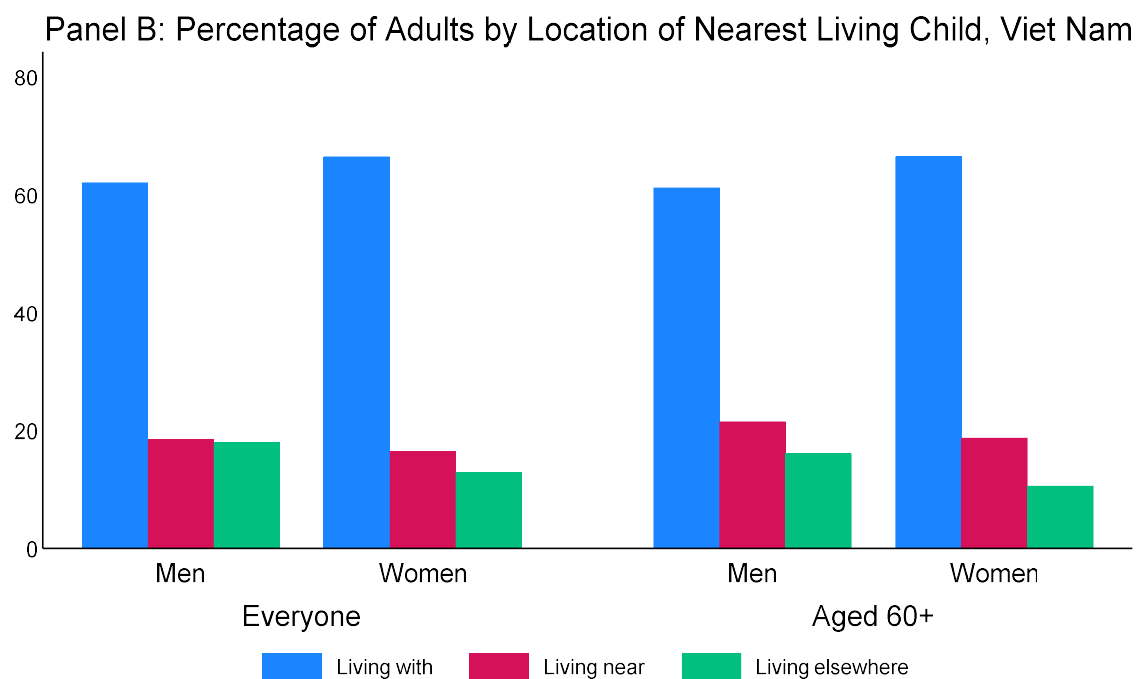
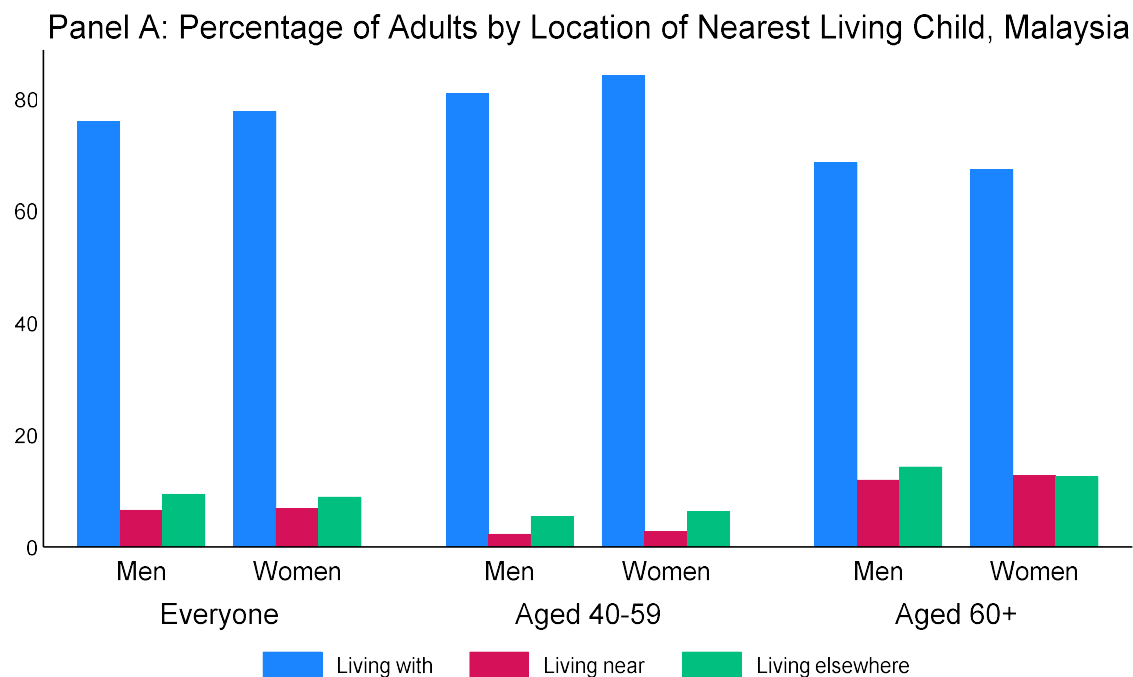
Source: Authors' calculations using Malaysia Ageing and Retirement Survey data and Viet Nam Aging Survey data.

Figure 5. Living Arrangements by Country



Source: Authors' calculations using Malaysia Ageing and Retirement Survey data and Viet Nam Aging Survey data.

Figure 6. Location of Nearest Living Child by Country



Source: Authors' calculations using Malaysia Ageing and Retirement Survey data and Viet Nam Aging Survey data.

Table 1. Poisson Random Effects Estimates for the Number of Depressive Symptoms, Malaysia

Variable/Statistic	All		Aged 40–59		Aged 60+		Men Aged 40–59		Men Aged 60+		Women Aged 40–59		Women Aged 60+	
Woman	-0.023		-0.049		0.030									
	(0.028)		(0.039)		(0.041)									
Age (years)	0.003	**	0.003		0.016	***	0.001		0.010	**	0.009	*	0.021	***
	(0.002)		(0.004)		(0.003)		(0.006)		(0.004)		(0.005)		(0.004)	
Ethnicity (reference: other Bumiputra)														
Malay	-0.076		-0.103		-0.034		0.014		-0.130		-0.209		0.039	
	(0.074)		(0.100)		(0.108)		(0.156)		(0.166)		(0.133)		(0.141)	
Chinese	-0.342	***	-0.372	***	-0.339	***	-0.120		-0.359	**	-0.599	***	-0.342	**
	(0.072)		(0.099)		(0.103)		(0.153)		(0.158)		(0.134)		(0.137)	
Indian	0.185	**	0.223	*	0.141		0.366	*	0.025		0.104		0.233	
	(0.090)		(0.124)		(0.128)		(0.196)		(0.203)		(0.163)		(0.165)	
Others	-0.071		-0.163	*	0.090		-0.187		-0.322	*	-0.212	*	0.261	**
	(0.069)		(0.091)		(0.101)		(0.139)		(0.165)		(0.124)		(0.132)	
Education (reference: less than primary)														
Primary	-0.141	***	-0.077		-0.140	***	-0.050		-0.205	**	-0.114		-0.104	*
	(0.042)		(0.082)		(0.050)		(0.148)		(0.099)		(0.099)		(0.058)	
Secondary	-0.370	***	-0.333	***	-0.348	***	-0.223		-0.451	***	-0.401	***	-0.281	***
	(0.045)		(0.080)		(0.060)		(0.139)		(0.104)		(0.096)		(0.076)	
Tertiary	-0.644	***	-0.662	***	-0.519	***	-0.732	***	-0.584	***	-0.618	***	-0.533	***
	(0.081)		(0.113)		(0.126)		(0.173)		(0.161)		(0.147)		(0.206)	
Marital status (reference: married)														
Never married	0.003		0.298	**	-0.496	***	0.774	***	-0.375	**	-0.291	*	-0.547	***
	(0.091)		(0.127)		(0.122)		(0.173)		(0.177)		(0.160)		(0.160)	
Widowed	0.207	***	0.407	***	0.056		0.317	*	0.181	**	0.388	***	0.002	
	(0.040)		(0.076)		(0.047)		(0.180)		(0.079)		(0.085)		(0.059)	
Separated/ divorced	0.447	***	0.499	***	0.384	***	0.569	***	0.613	***	0.472	***	0.259	*
	(0.064)		(0.079)		(0.118)		(0.117)		(0.174)		(0.101)		(0.156)	
Urban	-0.110	***	-0.119	***	-0.097	***	-0.055		-0.107	**	-0.160	***	-0.086	*
	(0.025)		(0.036)		(0.035)		(0.054)		(0.052)		(0.048)		(0.047)	
Peninsular Malaysia	0.304	***	0.357	***	0.250	***	0.259	**	0.275	***	0.421	***	0.235	***
	(0.044)		(0.063)		(0.059)		(0.102)		(0.090)		(0.080)		(0.078)	

Continued on the next page

Table 1 (continued)

Variable/Statistic	All		Aged 40–59		Aged 60+		Men Aged 40–59		Men Aged 60+		Women Aged 40–59		Women Aged 60+	
Living children (reference: none)														
1–2	-0.256	***	0.064		-0.693	***	0.352	**	-0.615	***	-0.131		-0.719	***
	(0.075)		(0.108)		(0.102)		(0.166)		(0.142)		(0.127)		(0.137)	
3–4	-0.322	***	-0.036		-0.686	***	0.249		-0.550	***	-0.230	*	-0.779	***
	(0.076)		(0.113)		(0.103)		(0.178)		(0.144)		(0.135)		(0.138)	
5+	-0.278	***	0.122		-0.760	***	0.486	**	-0.635	***	-0.135		-0.828	***
	(0.082)		(0.124)		(0.109)		(0.192)		(0.148)		(0.149)		(0.149)	
Living arrangements (reference: live alone)														
Spouse only	-0.278	***	-0.164		-0.378	***	-0.148		-0.291	**	-0.159		-0.410	***
	(0.068)		(0.121)		(0.080)		(0.164)		(0.128)		(0.175)		(0.110)	
Other family members	-0.091	*	-0.119		-0.111	*	-0.117		-0.032		-0.109		-0.148	*
	(0.054)		(0.093)		(0.067)		(0.116)		(0.114)		(0.146)		(0.084)	
Nearest living son (reference: living elsewhere)														
Living with	-0.029		-0.078		0.000		-0.153	**	-0.071		-0.022		0.072	
	(0.034)		(0.049)		(0.048)		(0.077)		(0.070)		(0.063)		(0.065)	
Leaving near	-0.076		-0.140		-0.025		-0.028		-0.214	**	-0.194		0.104	
	(0.053)		(0.115)		(0.060)		(0.186)		(0.093)		(0.152)		(0.079)	
Nearest living daughter (reference: living elsewhere)														
Living with	-0.007		-0.025		0.007		0.067		0.020		-0.073		0.001	
	(0.034)		(0.049)		(0.048)		(0.075)		(0.071)		(0.064)		(0.065)	
Leaving near	0.097	**	0.033		0.149	***	0.231		0.271	***	-0.075		0.070	
	(0.047)		(0.112)		(0.054)		(0.198)		(0.078)		(0.140)		(0.073)	
Second survey wave	-0.137	***	-0.173	***	-0.084	**	-0.171	***	-0.052		-0.178	***	-0.110	**
	(0.025)		(0.036)		(0.036)		(0.055)		(0.053)		(0.048)		(0.048)	
Constant	0.693	***	0.432	*	0.234		0.074		0.585		0.454		-0.081	
	(0.147)		(0.256)		(0.259)		(0.374)		(0.395)		(0.352)		(0.334)	
No. of observations	10,295		5,961		4,334		2,553		1,998		3,408		2,336	
Model tests (p-values)														
Model fit	0.000		0.000		0.000		0.000		0.000		0.000		0.000	
Random effects	0.000		0.000		0.000		0.000		0.000		0.000		0.000	

*** = $p < 0.01$, ** = $p < 0.05$, and * = $p < 0.10$.

Source: Authors' calculations using Malaysia Ageing and Retirement Survey data.

Table 2. Poisson Random Effects Estimates for Number of Chronic Health Conditions, Malaysia

Variable/Statistic	All		Aged 40–59		Aged 60+		Men Aged 40–59		Men Aged 60+		Women Aged 40–59		Women Aged 60+
Woman	0.022		-0.029		0.081	**							
	(0.029)		(0.047)		(0.033)								
Age (years)	0.032	***	0.056	***	0.003		0.042	***	0.008	**	0.068	***	-0.002
	(0.002)		(0.005)		(0.003)		(0.007)		(0.004)		(0.006)		(0.003)
Ethnicity (reference: other Bumiputra)													
Malay	0.087		0.255	**	-0.069		0.081		-0.237	*	0.339	**	0.071
	(0.074)		(0.108)		(0.094)		(0.173)		(0.144)		(0.142)		(0.125)
Chinese	-0.036		-0.030		-0.082		0.051		-0.268	**	-0.158		0.071
	(0.070)		(0.105)		(0.088)		(0.165)		(0.135)		(0.138)		(0.119)
Indian	0.406	***	0.722	***	0.078		0.710	***	-0.037		0.693	***	0.182
	(0.087)		(0.129)		(0.107)		(0.203)		(0.168)		(0.168)		(0.141)
Others	-0.349	***	-0.598	***	-0.179	*	-0.677	***	-0.321	**	-0.552	***	-0.092
	(0.072)		(0.107)		(0.092)		(0.168)		(0.150)		(0.137)		(0.117)
Education (reference: less than primary)													
Primary	0.077	*	-0.053		0.042		-0.078		0.137		0.006		0.018
	(0.044)		(0.098)		(0.046)		(0.218)		(0.100)		(0.106)		(0.052)
Secondary	-0.007		-0.216	**	0.025		-0.037		0.195	*	-0.265	**	-0.088
	(0.048)		(0.094)		(0.051)		(0.209)		(0.101)		(0.103)		(0.062)
Tertiary	-0.095		-0.226		0.038		-0.043		0.269	**	-0.337	*	-0.485
	(0.082)		(0.140)		(0.096)		(0.250)		(0.126)		(0.190)		(0.227)
Marital status (reference: married)													
Never married	-0.040		-0.119		0.030		-0.262		-0.048		-0.051		0.052
	(0.086)		(0.126)		(0.114)		(0.195)		(0.172)		(0.182)		(0.147)
Widowed	0.103	***	0.200	***	0.119	***	0.177		0.202	***	0.149	*	0.085
	(0.036)		(0.073)		(0.038)		(0.148)		(0.069)		(0.088)		(0.046)
Separated/ divorced	0.000		-0.013		0.078		0.138		-0.127		-0.104		0.134
	(0.074)		(0.099)		(0.109)		(0.167)		(0.181)		(0.129)		(0.128)
Urban	-0.017		0.010		-0.035		0.007		-0.002		0.006		-0.061
	(0.017)		(0.029)		(0.022)		(0.051)		(0.034)		(0.035)		(0.028)
Peninsular Malaysia	-0.031		-0.217	***	0.141	***	-0.045		0.254	***	-0.338	***	0.044
	(0.041)		(0.064)		(0.048)		(0.111)		(0.072)		(0.080)		(0.068)

Continued on the next page

Table 2 (continued)

Variable/Statistic	All		Aged 40–59	Aged 60+		Men Aged 40–59	Men Aged 60+		Women Aged 40–59	Women Aged 60+
Living children (reference: none)										
1–2	0.200	***	0.045	0.247	**	-0.110	0.377	***	0.162	0.155
	(0.072)		(0.105)	(0.099)		(0.171)	(0.137)		(0.140)	(0.135)
3–4	0.209	***	0.061	0.260	***	-0.109	0.323	**	0.182	0.226
	(0.072)		(0.109)	(0.099)		(0.181)	(0.138)		(0.143)	(0.134)
5+	0.203	***	-0.001	0.238	**	-0.051	0.265	*	0.054	0.228
	(0.077)		(0.121)	(0.102)		(0.201)	(0.145)		(0.156)	(0.137)
Living arrangements (reference: live alone)										
Spouse only	0.014		-0.004	0.021		-0.138	0.040		0.091	-0.025
	(0.055)		(0.119)	(0.060)		(0.171)	(0.083)		(0.174)	(0.083)
Other family members	-0.017		-0.115	0.063		-0.136	0.046		-0.082	0.053
	(0.049)		(0.107)	(0.053)		(0.138)	(0.074)		(0.165)	(0.070)
Nearest living son (reference: living elsewhere)										
Living with	-0.054	*	0.071	-0.118	***	0.086	-0.160	***	0.084	-0.077
	(0.031)		(0.053)	(0.037)		(0.089)	(0.056)		(0.067)	(0.048)
Leaving near	0.032		0.006	0.051		0.293	0.068		-0.169	0.026
	(0.042)		(0.116)	(0.044)		(0.169)	(0.068)		(0.157)	(0.057)
Nearest living daughter (reference: living elsewhere)										
Living with	-0.022		-0.009	0.032		0.028	0.065		-0.023	0.017
	(0.031)		(0.050)	(0.037)		(0.081)	(0.057)		(0.065)	(0.049)
Living near	0.084	**	0.343	0.072	*	0.583	0.105		0.180	0.051
	(0.037)		(0.083)	(0.041)		(0.145)	(0.065)		(0.103)	(0.051)
Second survey wave	0.247	***	0.242	0.244	***	0.287	0.240	***	0.219	0.245
	(0.018)		(0.029)	(0.022)		(0.052)	(0.036)		(0.035)	(0.029)
Constant	-2.167	***	-3.121	-0.343	***	-2.513	-0.854	***	-3.735	0.135
	(0.148)		(0.317)	(0.225)		(0.530)	(0.329)		(0.414)	(0.297)
No. of observations	10,339		5,976	4,363		2,561	2,019		3,415	2,344
Model tests (p-values)										
Model fit	0.000		0.000	0.000		0.000	0.000		0.000	0.000
Random effects	0.000		0.000	0.000		0.000	0.000		0.000	0.000

*** = $p < 0.01$, ** = $p < 0.05$, and * = $p < 0.10$.

Source: Authors' calculations using Malaysia Ageing and Retirement Survey data.

Table 3. Poisson Random Effects Estimates for Number of Depressive Symptoms, Viet Nam

Variable/Statistic	All		Aged 60+		All Men		Men Aged 60+		All Women		Women Aged 60+	
Woman	0.199	***	0.154	***								
	(0.000)		(0.000)									
Age (years)	0.007	***	0.006	***	0.014	***	0.009	***	0.003	***	0.004	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Kinh ethnicity	-0.031	***	-0.014	***	0.016	***	-0.032	***	-0.041	***	-0.015	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Education (reference: less than primary)												
Primary	-0.074	***	-0.042	***	-0.032	***	-0.018	***	-0.110	***	-0.075	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Secondary	-0.262	***	-0.194	***	-0.219	***	-0.205	***	-0.294	***	-0.200	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Tertiary	-0.531	***	-0.488	***	-0.531	***	-0.467	***	-0.518	***	-0.486	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Marital status (reference: married)												
Never married	-0.249	***	-0.215	***	0.242	***	0.335	***	-0.296	***	-0.279	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Widowed	0.054	***	0.055	***	-0.076	***	-0.047	***	0.125	***	0.103	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Separated/divorced	-0.022	***	0.198	***	0.171	***	0.026	***	-0.064	***	0.177	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Urban	-0.135	***	-0.137	***	-0.053	***	-0.068	***	-0.209	***	-0.207	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Region (reference: northern)												
Central	0.047	***	0.029	***	0.048	***	0.014	***	0.037	***	0.036	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Southern	-0.031	***	-0.005	***	0.029	***	0.064	***	-0.080	***	-0.054	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Living children (reference: none)												
1–2	-0.261	***	-0.174	***	-0.486	***	-0.450	***	-0.124	***	-0.048	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
3–4	-0.199	***	-0.154	***	-0.236	***	-0.127	***	-0.163	***	-0.159	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
5+	-0.142	***	-0.120	***	-0.165	***	-0.052	***	-0.138	***	-0.174	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	

Continued on the next page

Table 3 (continued)

Variable/Statistic	All	Aged 60+	All Men	Men Aged 60+	All Women	Women Aged 60+
Living arrangements (reference: live alone)						
Spouse only	-0.230 *** (0.000)	-0.179 *** (0.000)	-0.402 *** (0.000)	-0.349 *** (0.000)	-0.091 *** (0.000)	-0.072 *** (0.000)
Other family members	-0.136 *** (0.000)	-0.078 *** (0.000)	-0.369 *** (0.000)	-0.301 *** (0.000)	-0.021 *** (0.000)	0.017 *** (0.000)
Nearest living child (reference: living elsewhere)						
Living with	-0.101 *** (0.000)	-0.091 *** (0.000)	0.075 *** (0.000)	0.019 *** (0.000)	-0.205 *** (0.000)	-0.180 *** (0.000)
Leaving near	-0.042 *** (0.000)	-0.039 *** (0.000)	0.024 *** (0.000)	0.001 *** (0.000)	-0.104 *** (0.000)	-0.092 *** (0.000)
2022 survey wave	-0.098 *** (0.000)	-0.121 *** (0.000)	-0.180 *** (0.000)	-0.210 *** (0.000)	-0.037 *** (0.000)	-0.052 *** (0.000)
Constant	1.317 *** (0.000)	1.288 *** (0.000)	0.897 *** (0.000)	1.206 *** (0.000)	1.777 *** (0.000)	1.591 *** (0.000)
No. of observations	7,192	5,941	2,935	2,423	4,257	3,518
Model tests (p-values)						
Model fit	0.000	0.000	0.000	0.000	0.000	0.000
Random effects	0.000	0.000	0.000	0.000	0.000	0.000

*** = p<0.01, ** = p<0.05, and * = p<0.10.

Source: Authors' calculations using Viet Nam Aging Survey data.

Table 4. Poisson Random Effects Estimates for Number of Chronic Health Conditions, Viet Nam

Variable/Statistic	All		Aged 60+		All Men		Men Aged 60+		All Women		Women Aged 60+	
Woman	0.104	***	0.109	***								
	(0.000)		(0.000)									
Age (years)	0.009	***	0.005	***	0.014	***	0.013	***	0.005	***	0.000	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Kinh ethnicity	0.129	***	0.068	***	0.050	***	0.052	***	0.158	***	0.077	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Education (reference: less than primary)												
Primary	-0.039	***	-0.030	***	-0.142	***	-0.176	***	0.032	***	0.074	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Secondary	0.132	***	0.147	***	0.159	***	0.164	***	0.097	***	0.104	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Tertiary	0.141	***	0.127	***	0.230	***	0.201	***	0.013	***	-0.016	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Marital status (reference: married)												
Never married	-0.109	***	-0.174	***	0.088	***	-0.096	***	-0.174	***	-0.171	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Widowed	-0.009	***	0.018	***	-0.126	***	-0.100	***	0.039	***	0.070	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Separated/divorced	-0.087	***	0.030	***	0.066	***	-0.143	***	-0.114	***	0.043	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Urban	0.032	***	0.062	***	0.117	***	0.144	***	-0.036	***	-0.002	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Region (reference: northern)												
Central	-0.057	***	-0.053	***	-0.052	***	-0.055	***	-0.062	***	-0.045	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Southern	0.140	***	0.124	***	0.078	***	0.051	***	0.186	***	0.176	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
Living children (reference: none)												
1–2	0.090	***	0.040	***	0.535	***	0.090	***	-0.042	***	0.050	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
3–4	0.125	***	0.010	***	0.605	***	0.137	***	-0.047	***	-0.037	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	
5+	0.305	***	0.229	***	0.781	***	0.360	***	0.122	***	0.161	***
	(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)	

Continued on the next page

Table 4 (continued)

Variable/Statistic	All	Aged 60+	All Men	Men Aged 60+	All Women	Women Aged 60+
Living arrangements (reference: live alone)						
Spouse only	-0.134 *** (0.000)	-0.047 *** (0.000)	-0.267 *** (0.000)	-0.175 *** (0.000)	-0.050 *** (0.000)	0.029 *** (0.000)
Other family members	-0.094 *** (0.000)	-0.023 *** (0.000)	-0.146 *** (0.000)	-0.051 *** (0.000)	-0.066 *** (0.000)	-0.018 *** (0.000)
Nearest living child (reference: living elsewhere)						
Living with	-0.097 *** (0.000)	-0.117 *** (0.000)	-0.169 *** (0.000)	-0.194 *** (0.000)	-0.042 *** (0.000)	-0.069 *** (0.000)
Leaving near	-0.035 *** (0.000)	-0.064 *** (0.000)	-0.072 *** (0.000)	-0.097 *** (0.000)	0.011 *** (0.000)	-0.032 *** (0.000)
2022 survey wave	0.489 *** (0.000)	0.466 *** (0.000)	0.434 *** (0.000)	0.441 *** (0.000)	0.521 *** (0.000)	0.477 *** (0.000)
Constant	-0.456 *** (0.000)	-0.117 *** (0.000)	-1.054 *** (0.000)	-0.606 *** (0.000)	-0.051 *** (0.000)	0.346 *** (0.000)
No. of observations	7,498	6,239	3,035	2,519	4,463	3,720
Model tests (p-values)						
Model fit	0.000	0.000	0.000	0.000	0.000	0.000
Random effects	0.000	0.000	0.000	0.000	0.000	0.000

Notes: The notation *** is $p < 0.01$, ** is $p < 0.05$, and * is $p < 0.10$.

Source: Authors' calculations using Viet Nam Aging Survey data.

REFERENCES

- Asian Development Bank (ADB). 2017. "Population and Aging in Asia: The Growing Elderly Population," Asian Development Bank Features. Manila: ADB.
- Atchessi, Nicole, Valéry Ridde, Seye Abimbola, and Maria-Victoria Zunzunegui. 2018. "Factors Associated with the Healthcare-Seeking Behaviour of Older People in Nigeria." *Archives of Gerontology and Geriatrics*, 79: 1–7.
- Badrasawi, Manal, Suzana Shahar, and Devinder Kaur Ajit Singh. 2017. "Risk Factors of Frailty among Multi-Ethnic Malaysian Older Adults." *International Journal of Gerontology*, 11 (3), 154–60.
- Brinda, Ethel Mary, Paul Kowal, Jørn Attermann, and Ulrika Enemark. 2015. "Health Service Use, Out-of-Pocket Payments and Catastrophic Health Expenditure among Older People in India: The WHO Study on Global Aging and Adult Health (SAGE)." *Journal of Epidemiol Community Health*, 69 (5): 489–94.
- Case, Anne, and Christina Paxson. 2005. "Sex Differences in Morbidity and Mortality." *Demography*, 42 (2): 189–214.
- Chan, Ying Ying, Chien Huey Teh, Kuang Kuay Lim, Kuang Hock Lim, Pei Sien Yeo, Chee Cheong Kee, Mohd Azahadi Omar, and Noor Ani Ahmad. 2015. "Lifestyle, Chronic Diseases and Self-Rated Health among Malaysian Adults: Results from the 2011 National Health and Morbidity Survey (NHMS)." *BMC Public Health*, 15: 1–12.
- Cheah, Yong Kang, and David Meltzer. 2020. "Ethnic Differences in Participation in Medical Check-Ups among the Elderly: Evidence from Malaysia." *Journal of General Internal Medicine*, 35, 2680–6.
- Chen, Seong Ting, H. J. Ngoh, and Sakinah Harith. 2012. "Prevalence of Malnutrition among Institutionalized Elderly People in Northern Peninsular Malaysia: Gender, Ethnicity and Age-Specific." *Sains Malaysiana*, 41 (1): 141–8.
- Chen, Xinxin, John Giles, Yafeng Wang, and Yaohui Zhao. 2018. "Gender Patterns of Eldercare in China." *Feminist Economics*, 24 (2): 54–76.
- Díaz-Venegas, Carlos, Joseph L. Sáenz, and Rebeca Wong. 2017. "Family Size and Old-Age Wellbeing: Effects of the Fertility Transition in Mexico." *Ageing & Society*, 37 (3): 495–516.
- Evans, Natalie, Pascal A. Allotey, Johanna Deborah Imelda, Daniel Reidpath, and Robert Pool. 2017. "Social Support and Care Arrangements of Older People Living Alone in Rural Malaysia." *Ageing & Society*, 38 (10): 2061–81.

- Friedman, Jed, John Knodel, Bui The Cuong, and Truong Si Anh. 2003. "Gender Dimensions of Support for Elderly in Vietnam." *Research on Aging*, 25 (6): 587–630.
- Giang, Long Thanh, Trang Thi Nguyen, and Nam Truong Nguyen. 2020. "Social Support and Self-Rated Health among Older Men and Women in Vietnam." *Population Ageing* 13, 427–42.
- Giang, Nguyen Khac. 2023. "An Ageing Vietnam Struggles for a Reliable Social Insurance System." *Fulcrum*. 17 March.
- González-González, César, Sergio Sánchez-García, Teresa Juárez-Cedillo, Oscar Rosas-Carrasco, Luis M. Gutiérrez-Robledo, and Carmen García-Peña. 2011. "Health Care Utilization in the Elderly Mexican Population: Expenditures and Determinants." *BMC Public Health*, 11 (1): 192.
- Govender, Veloshnee, and Loveday Penn-Kekana. 2008. "Gender Biases and Discrimination: A Review of Health Care Interpersonal Interactions." *Global Public Health*, 3 (S1), 90–103.
- Hamid, Tengku Aizan, Hazwan Mat Din, Mohamad Fazdillah Bagat, and Rahimah Ibrahim. 2021. "Do Living Arrangements and Social Network Influence the Mental Health Status of Older Adults in Malaysia?" *Frontiers in Public Health*, 9: 624394.
- Hamid, Tengku Aizan, Saroja Krishnaswamy, Siti Suhailah Abdullah, and Yadollah Abolfathi Momtaz. 2010. "Sociodemographic Risk Factors and Correlates of Dementia in Older Malaysians." *Dementia and Geriatric Cognitive Disorders*, 30 (6): 533–9.
- Hoi, Le V., Nguyen TK Chuc, and Lars Lindholm. 2010. "Health-Related Quality of Life, and Its Determinants, among Older People in Rural Vietnam." *BMC Public Health* 10: 1–10.
- Hui, Lee Min. 2023. "Caring for an Aging Malaysia: Beyond Gender and Filial Norms." *New Mandala*. 23 November.
- Huong, Do. 2017. "Financial Literacy and Retirement Planning in Vietnam." *VNU Journal of Science: Policy and Management Studies*, 33 (2).
- Karpagam, Sylvia, Akhila Vasan, and Vijaykumar Seethappa. 2016. "Falling through the Gaps: Women Accessing Care under Health Insurance Schemes in Karnataka." *Indian Journal of Gender Studies* 23 (1): 69–86.
- Khan, Hafiz T. A., and Matt Flynn. 2016. "Self-Reported Health Status of Older Adults in Malaysia and Singapore: Evidence from the 2007 Global Ageing Survey." *Applied Research in Quality of Life*, 11: 687–705.

- Kinsella, Kevin. 2000. "Demographic Dimensions of Global Aging," *Journal of Family Issues*, 21 (5): 541–58.
- Kooshair, Hadi, Nurizan Yahaya, Tengku Aizan Hamid, and Aznaruhl Abu Samah. 2014. "Gender as a Moderator of the Relation among Social Support Functions and Life Satisfaction in Older Malaysians." *Journal of Women & Aging*, 26 (1): 22–38.
- Kowal, Paul, Nawi Ng, and Thanh Hoang. 2024. Universal Health Coverage and Ageing in Developing Asia. Asian Development Policy Report background paper. Manila: ADB.
- Le, Dung Duc, Nekehia T. Quashie, and Vipan Prachuabmoh. 2019. "How Does Self-Rated Health Differ among Older Vietnamese Men and Women?" *Population Ageing*, 12, 69–93.
- Madyaningrum, Ema, Ying-Chih Chuang, and Kun-Yang Chuang. 2018. "Factors associated with the use of outpatient services among the elderly in Indonesia," *BMC Health Services Research* 18 (1): 707.
- Mahal, Ajay, and Barbara McPake. 2017. "Health systems for aging societies in Asia and the Pacific," *Health Systems & Reform* 3 (3): 149–153.
- Marthammuthu, Thaneswaran, Farizah Mohd Hairi, Wan Yuen Choo, Nur Afiqah Mohd Salleh, and Noran Naqiah Hairi. 2021. "A Qualitative Investigation on the Roles of Social Support on Physical Activity Behaviour among the Rural-Dwelling Older Women in Malaysia." *International Journal of Environmental Research and Public Health*, 18 (18): 9609.
- Mohd, Saidatulakmal, Abdul Rais Abdul Latiff, Radieah Mohd Noor, and Sharifah Nurlaili Farhana Syed Azhar. 2022. "Ethnic Variability of Health-Promoting Behaviours of Older Adults in Malaysia." *Journal of Population Ageing*, 16 (1): 155–75.
- New Straits Times*. 2023. "2024 Budget: Health Funding Soars, but Concerns Arise over Welfare Spending for Older Adults." 2 November.
- Nguyen, Tu. 2023. "Pension Reform a Potential Powder Keg in Vietnam." *Asia Times*. 20 October.
- Omar, Rosiah. 2003. "Being Old in Malaysia: Issues and Challenges of Older Women." *Kroeber Anthropological Society Papers*: 116–31.
- Pham, Thang, Nguyen Thao Thi Nguyen, Sophie Bao ChieuTo, Tuan Le Pham, Thanh Xuan Nguyen, Huong Thu Thi Nguyen, Tam Ngoc Nguyen, Thu Hoai Thi Nguyen, Quang Nhat Nguyen, Bach Xuan Tran, Long Hoang Nguyen, Giang Hai Ha, Carl A. Latkin, Cyrus S. H. Ho, Roger C. M. Ho, Anh Trung Nguyen, and Huyen Thi Thanh Vu. 2018. "Sex Differences in Quality of Life and Health Services Utilization

- among Elderly People in Rural Vietnam.” *International Journal of Environmental Research and Public Health*, 16 (1): 69.
- Rodgers, Yana, and Joseph E. Zveglic, Jr. 2021. “Gender Differences in Access to Health Care among the Elderly: Evidence from Southeast Asia.” *Asian Development Review*, 38 (2): 59–92.
- Sahril, Norhafizah, Chan Yee Mang, Ying Ying Chan, Noorani Ahmad, Shaiful Azlan, Nik Adilah Shahein, Muhammad Solihin Rezali, Mohamad Aznuddin Abd Razak, Fatin Athirah Tahir, Nor’ain Ab Wahab, Norliza Shamsuddin, Muhammad Azri Adam Adnan, Muhamad Khairul Nazrin Khalil, and Siaw Hun Liew. 2023. “Poor Self-Rated Health and Associated Factors among Older Persons in Malaysia: A Population-Based Study.” *International Journal of Environmental Research and Public Health*, 20 (5): 4342.
- Sazlina, Shariff-Ghazali, Ahmad Zaiton, Nor Afiah Mohd Zulkefli, and Hayati Kadir Shahar. 2012. “Predictors of Health Related Quality of Life in Older People with Non-communicable Diseases Attending Three Primary Care Clinics in Malaysia.” *The Journal of Nutrition, Health, & Aging*, 16, 498–502.
- Smeeding, Timothy, and Susanna Sandstrom. 2005. “Gender and Aging: Cross-National Contrasts: Poverty and Income Maintenance in Old Age: A Cross-National View of Low-Income Older Women.” *Feminist Economics*, 11 (2): 163–74.
- Stark, Agneta. 2005. “Warm Hands in Cold Age—On the Need of a New World Order of Care.” *Feminist Economics*, 11 (2): 7–36.
- Suriawati, Ghazali, Aniza Abd Aziz, M. A. Rahmah, Ooo San, Rohayah Husain, and Samhani Ismail. 2020. “Living Support Characteristics among Mentally Healthy Elderly: A State-Wide Descriptive Study in Malaysia.” *International Journal of Public Health and Clinical Sciences*, 7 (5): 46–64.
- Teerawichitchainan, Bussarawan, Wiraporn Pothisiri, and Giang Thanh Long. 2015. “How Do Living Arrangements and Intergenerational Support Matter for Psychological Health of Elderly Parents? Evidence from Myanmar, Vietnam, and Thailand.” *Social Science & Medicine*, 136: 106–16.
- Teh, Jane K. L., Nai Peng Tey, and Sor Tho Ng. 2014a. “Ethnic and Gender Differentials in Non-communicable Diseases and Self-Rated Health in Malaysia.” *PLOS ONE*, 9 (3): e91328.
- Teh, Jane K. L., Nai Peng Tey, and Sor Tho Ng. 2014b. “Family Support and Loneliness among Older Persons in Multiethnic Malaysia.” *The Scientific World Journal*, 2014 (6): 1–11.

- Tey, Nai Peng, Saedah Binti Siraj, Shahrul Bahyah Binti Kamaruzzaman, Ai Vyrn Chin, Maw Pin Tan, Glaret Shirley Sinnappan, and Andre Matthias Müller. 2016. "Aging in Multi-ethnic Malaysia." *The Gerontologist*, 56 (4): 603–9.
- Thomas, V. 2023. "Please, Spare Some Thoughts for Senior Citizens in Budget 2023." *Malaysiakini*. 20 February.
- Thuong, Nguyen Thi Thu. 2020. "Impact of Health Insurance on Healthcare Utilisation Patterns in Viet Nam: A Survey-Based Analysis with Propensity Score Matching Method." *BMJ Open* 10 (10): e040062.
- United Nations Department of Economic and Social Affairs (UNDESA). 2022. World Population Prospects 2022. <https://population.un.org/wpp/Download/> (Accessed 12 September 2023).
- United Nations Population Fund (UNFPA). 2019. Towards a Comprehensive National Policy for an Ageing Viet Nam. Hanoi: UNFPA.
- Van Minh, H., Bui Thi Thu Ha, Nguyen Canh Chuong, and Nguyen Duy Anh. 2018. "Women's Health and Health Care in Viet Nam." *Health Care for Women International*, 39 (4): 364–7.
- Van Minh, Hoang, Peter Byass, Nguyen Thi Kim Chuc, and Stig Wall. 2010. "Patterns of Health Status and Quality of Life among Older People in Rural Viet Nam." *Global Health Action*, 3 (1): 2124.
- Viet Nam News. 2023a. "Caring for Senior Citizens as Population Ages." 28 October.
- Viet Nam News. 2023b. Viet Nam Should Have Appropriate Social Security Policies to Adapt Rapid Population Aging. 12 June.
- Vo, Man Thi Hue, Keiko Nakamura, Kaoruko Seino, and Thang Van Vo. 2021. "Greater Risk of Negative Health Outcomes of Older Adults Living Alone in Vietnam: A Community Survey." *International Journal of Environmental Research and Public Health*, 18 (21): 11115.
- Webster, Fiona, and Stephanie Rosseau. 2019. "Vietnam Approves Labor Code Changes." *Mercer Marsh McLennan*. 12 December.
- Yahaya, Nurizan, Yadollah Abolfathi Momtaz, Tengku Aizan Hamid, and Siti Suhailah Abdullah. 2013. "Social Support and Psychological Well-being Among Older Malay Women in Peninsular Malaysia." *Indian Journal of Gerontology*, 27 (2): 320–2.
- Yamada, Ken, and Bussarawan Puk Teerawichitchainan. 2015. "Living Arrangements and Psychological Well-Being of the Older Adults after the Economic Transition in Vietnam." *The Journals of Gerontology: Series B*, 70 (6): 957–68.

- Yoon, Jayoung. 2014. "Counting Care Work in Social Policy: Valuing Unpaid Child-and Eldercare in Korea." *Feminist Economics*, 20 (2): 65–89.
- Yusof, Muslimah, S. Maria Awaluddin, Maisarah Omar, Noor Ani Ahmad, Fazly Azry Abdul Aziz, Rasidah Jamaluddin, Tahir Aris, and Maw Pin Tan. 2018. "Prevalence of Anaemia among the Elderly in Malaysia and Its Associated Factors: Does Ethnicity Matter?" *Journal of Environmental and Public Health*, 2018 (5): 1–10.
- Zhang, Chuanchuan, Xiaoyan Lei, John Strauss, and Yaohui Zhao. 2017. "Health Insurance and Health Care among the Mid-Aged and Older Chinese: Evidence from the National Baseline Survey of Charls." *Health Economics*, 26 (4): 431–49.

The Role of Family Support in the Well-Being of Older People

Evidence from Malaysia and Viet Nam

Rapid demographic changes in Malaysia and Viet Nam could disrupt traditional family support for older people. An analysis of unique panel data from the Malaysia Ageing and Retirement Survey and the Viet Nam Aging Survey points to the benefits of living conditions—including marital status and whether one's children live nearby—for the physical and mental well-being of older people. Given the estimated protective effect of living arrangements examined in the paper, governments may need to adjust social safety nets to bolster the physical and mental health of senior citizens living alone.

About the Asian Development Bank

ADB is committed to achieving a prosperous, inclusive, resilient, and sustainable Asia and the Pacific, while sustaining its efforts to eradicate extreme poverty. Established in 1966, it is owned by 68 members—49 from the region. Its main instruments for helping its developing member countries are policy dialogue, loans, equity investments, guarantees, grants, and technical assistance.



ASIAN DEVELOPMENT BANK

6 ADB Avenue, Mandaluyong City

1550 Metro Manila, Philippines

www.adb.org