Social Support and Quality of Life among Older Adults in Malaysia: A Scoping Review

Tengku Amatullah Madeehah T. Mohd^{1,2*}, Awatef Amer Nordin^{1,3}, Choo Wan Yuen¹, Noran Naqiah Hairi¹ and Farizah Hairi¹

¹Department of Social and Preventive Medicine, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia

²Faculty of Medicine and Health Sciences, Islamic Science University of Malaysia, Kuala
Lumpur, Malaysia

³Ministry of Health Malaysia

Ageing leads to the dependency of older adults on the people surrounding them. Social support provided by these people gives older adults emotional and material resources necessary for healthy ageing. Social support is associated with mortality, morbidity and quality of life. The objective of this review is to give a brief overview of the evidence between social support and quality of life among community-dwelling older adults in Malaysia. A systematic search was conducted using five databases. Articles in English and Malay were included in the search. A total of 282 articles were screened and four fulfilled the inclusion criteria. Among the four included articles, one was a qualitative study, while the remaining three were cross-sectional studies. All three cross-sectional studies found between social support and quality of life. The respondents in the qualitative study reported that social support was needed in improving their quality of life. In addition, emotional support and support from family were found to be important for a higher quality of life among the older adults. This study indicates that social support from the Malaysian setting is important to improve the quality of life among older adults. Therefore, a policy that can optimise family support in the community should be developed.

Keywords: Social support; quality of life; older adults; community-dwelling; Malaysia

I. INTRODUCTION

As people age, older adults become more and more dependent on the people surrounding them. Social support has been shown to be associated with mortality, depression and well-being (Berkman and Syme, 1979; Chen and Silverstein, 2000; Holt-Lunstad, Smith and Layton, 2010; Schwarzbach *et al.*, 2014; Gariepy *et al.*, 2016). Social support is defined as the exchange of resources between two individuals which is deemed to benefit the recipient (House, 1981; Oxman *et al.*, 1992). The support can be in the form of instrumental, emotional, appraisal and informational support (House, 1981; Thoits, 1982). It can be further categorised into structural and functional social support. Structural social support is an individual's social ties with

others, whereas functional social support is the exchange of different types of social support (House, 1981; Thoits, 1982).

Ageing is a worldwide issue contributed by the increase in life expectancy. However, the increase in life expectancy does not parallel the improvement in quality of life among older adults. Quality of life is defined by the World Health Organisation (WHO) as an individual's perception of their position in life with reference to their culture and value systems. It is also associated with the individual's goals, concern and standards (The WHOQOL Group, 1995). Quality of life among older adults decrease with increasing age especially after 70 years (Asakawa *et al.*, 2012). Poor quality of life has been found to be associated with increased hospital admissions and lower physical function (Zaninotto, Falaschetti and Sacker, 2009; Ingrum, 2017). Social support

^{*}Corresponding author's e-mail: madeehah@usim.edu.my

has been found to be associated with improvements in quality of life (Everard *et al.*, 2000; Zaninotto, Falaschetti and Sacker, 2009).

Currently, Malaysia has 1.9 million older adults, accounting for 6.2% of the total population. It is estimated that in the year 2030 the older population will reach 15% making Malaysia an aged nation (Department of Statistics Malaysia, 2018). Therefore, Malaysia is currently in a position that requires urgent action in preparation for the increase in the number of older adults soon. Improving quality of life among older adults living in the community should be one of its priorities. The aim of this study is to review the body of knowledge regarding the association between social support and quality of life among community-dwelling older adults in Malaysia. The research questions for this study are:

- What is the literature available on social support and its association with quality of life among community-dwelling older adults in Malaysia?
- 2) What are the measurement tools used to measure social support and quality of life?
- 3) What are the gaps for future research on the association between social support and quality of life?

II. MATERIALS AND METHOD

We conducted a systematic search in four databases Medline, SocINDEX, CINAHL, Psychology and Behavioural Sciences using the keywords "social support", "quality of life", "older adults" and "Malaysia". Apart from English articles, articles in Malay were searched using the Malaysian Citation Centre database using the same keywords in both English and Malay. This database contained Malaysian journals published in both English and Malay. Google Scholar was also searched using the keywords "social support", "older adults", and "Malaysia" and translated Malay keywords. Search findings in Google scholar were sorted according to relevance and the first 300 articles were screened. This was based on a study recommending a search of the 200-300 first titles in Google Scholar (Haddaway *et al.*, 2015).

Articles were chosen based on these inclusion criteria: 1) studies that used the general population of community-

dwelling older adults aged 60 years and above; 2) studies that measured social support as the exposure and quality of life as the outcome; 3) articles that report primary data regardless of whether it was quantitative or qualitative in terms of study design; and 4) articles in both English and Malay languages. For the exclusion criteria, studies that included participants with specific diseases, or older adults in the hospitals or long-term care were excluded. Limitation on the year of publication was not applied.

Selection of articles is illustrated as a Preferred Reporting Items for Systematic and Meta-Analyses (PRISMA) flow chart (Figure 1) (Moher *et al.*, 2009). Articles were screened by two independent authors. From each article, data such as title, year, location, study design, sampling method, population setting, sample size, methods and statistical outcomes were extracted. The information was extracted separately by two reviewers and then cross-checked. Any disputes were settled with a third reviewer.

III. RESULT

A total of 282 articles were found in the systematic search. After screening all the articles, a total of four articles fulfilled all the criteria (Figure 1). The summary of the final four studies are presented in Table 1. Three cross-sectional studies (Sazlina Shariff Ghazali et al., 2012; Ibrahim et al., 2013; Abdul Rashid Khan and Ibrahim Tahir, 2014) and one qualitative study were found (Suridah Ali, 2017). All three cross-sectional studies were published in English, while the qualitative study was in Malay. The total population in the three cross-sectional studies was 2583 with a grand total of 2597 in all four studies. Two studies were conducted in rural areas (Ibrahim et al., 2013; Suridah Ali, 2017) while one used a random sampling from the Penang state (Abdul Rashid Khan and Ibrahim Tahir, 2014). The remaining study did not specify the location of the study population in Selangor (Sazlina Shariff Ghazali et al., 2012). Although our inclusion criteria mentioned including older population aged 60 years and above, one study with a population of 55 years or older was included due to the small number of studies.

The definition of social support and quality of life was specified in only two studies (Ibrahim *et al.*, 2013; Abdul Rashid Khan and Ibrahim Tahir, 2014). The WHO definition

of quality of life was used in both studies. For the definition of social support, both studies used similar definitions. Social support was defined as the interactive process where emotional, instrumental or financial and physical support is given by friends, family and other people in an individual's network (House, Landis and Umberson, 1988; Tomaka, Thompson and Palacios, 2006).

Table 1 shows the different social support and quality of life measures in all studies. All studies used different measures for both variables. Social support was measured using different questionnaires: Medical Outcome Study Social Support (MOS-SS) (Ibrahim *et al.*, 2013), Duke UNC Functional Social Support Questionnaire (Sazlina Shariff Ghazali *et al.*, 2012) and Oslo-3 Social Support Scale (Abdul Rashid Khan and Ibrahim Tahir, 2014). Quality of life was measured using SF-12, SF-36 and WHO-BREF quality of life in the three cross-sectional studies.

In all four studies, social support was found to contribute to better quality of life. Table 2 summarises the results of the three cross-sectional studies. Poor social support was associated with poorer overall quality of life (Abdul Rashid Khan and Ibrahim Tahir, 2014). However, the impact of social support on physical and mental component of quality of life has mixed results. In the study by Ibrahim *et al.* (2013), only emotional support was significantly associated with physical component of quality of life. But poor social support was found to be associated with both physical and mental component of quality of life in the Selangor study (Sazlina Shariff Ghazali *et al.*, 2012).

In the qualitative study, social support from family members were important in times of illness (Suridah Ali, 2017). The type of support that they require are preparing food, buying groceries and taking them for follow ups at the hospital or clinic. Older adult women expect social support from their children whereas older adult men who still have their spouses expect social support from their spouses. However, if they are independent, most of the older adults prefer to stay in their own homes (Suridah Ali, 2017).

IV. DISCUSSION

This study was aimed at gathering previous studies in Malaysia which studied the relationship between social support and quality of life among older adults living in the community. Overall, poor social support is associated with lower quality of life scores among older adults in Malaysia. This reflects results of previous studies whereby good social support was found to be associated with better quality of life in Europe, Asia, North and South America (Zaninotto, Falaschetti and Sacker, 2009; Chen, Hicks and While, 2013; Unsar, Dindar and Kurt, 2015; Bélanger *et al.*, 2016; Dai *et al.*, 2016; Hakulinen *et al.*, 2016; Henchoz *et al.*, 2017).

Components of social support assessed in all cross-sectional studies were from the functional aspect of social support. Functional social support is the qualitative aspect of social support, which is the exchange of different types of social support between the older adult and the people surrounding them (House, 1981; Thoits, 1982; Schwarzbach *et al.*, 2014). They included questions on whether older adults received emotional or informational, tangible, affection and possible social interaction of social support. Another component of social support which was not measured was structural social support. Structural social support measures a person's social ties to the people surrounding them. This includes how many close family and friends they have, and how frequent they meet (Haber *et al.*, 2007).

Emotional support was found to be significantly associated with quality of life when compared to tangible or instrumental support, affectionate support and possible social interaction (Ibrahim *et al.*, 2013). This indicates that emotional support is the most important support for older adults. Our results correspond to previous studies that show emotional support is significantly associated with quality of life (Bélanger *et al.*, 2016; Neri *et al.*, 2018). But in the study conducted by Ibrahim *et al.* (2013) emotional support was found to be significantly associated with the physical component of quality of life and not the mental component. Receiving emotional support from family and friends, provides a sense of belonging and security resulting in increased psychological well-being (Cobb, 1976; Berkman *et al.*, 2000).

Table 1. Studies included in the review

Author (Year)	Study Design	Objective	n	Participants	Social support measure	Outcome measure	Findings
Ibrahim et al.,	Cross	To examine the	16	60 years and	Medical Outcome	Quality of	Positive relationship between
(2013)	sectional.	role of social support	2	above in FELDA	Study (MOS) Social	Life SF-12	physical component of quality of
		and depression in		Sungai Tengi.	Support		life and emotional and
		predicting the quality					informational support.
		of life among the					
		elderly living in rural					
Sazlina et	Cross	To determine the	41	55 years and	Duke UNC Functional	Health	Poor social support, low income
al., (2012)	sectional.	health related quality of	6	above with non-	Social Support	Related Quality	(<rm700), education,<="" formal="" no="" td=""></rm700),>
		life and its predictive		communicable	Questionnaire	of Life SF-36	presence of co-morbid were
		factors among older		diseases			predictors for lower mental health
		people with non-		attending			and physical component of health
		communicable diseases		primary care			related quality of life.
		attending primary care		clinics in			
	-	clinics.		Selangor.	- 1 11		
Khan &	Cross-	To determine the	20	60 years and	Oslo-3 Social	WHO	Living with spouse and family
Tahir (2014)	sectional.	influences of social	05	above who	Support Scale, living	Quality of Life-	member, being socially active and
		factors to the quality of		received	arrangement, social	Bref	having good social support
		life of the elderly in		government aid in	activity.		associated with increased quality
Suridah Ali	01!4-4!	Malaysia. To examine the	1.4	Penang.			of life.
	Qualitative		14	Government retirees who have			Social support is important for
(2016)		quality of life of retirees from the		retirees who have retired for at least 3			better quality of life. Family
							support is important when older
		perspectives of		years from			adults are ill. Spousal support is
		economic ability, health, social support,		compulsory retirement in			more important than support from children.
		living conditions and					Cilidren.
		· ·		Besut, Terengganu.			
		social relationships.					

Table 2. Results for the cross-sectional studies

Author, Year	Social Support Scores	Quality of life scores Mean (SD)	Results of association between social support and quality of life
Ibrahim et al.,	Medical Outcome Study - Social Support	PCS 74.4 (SD 13.36)	Emotional support was significantly
(2013)	• Emotional/ informational support:	MCS 51.51 (SD 8.24)	associated with PCS (B 0.477, β 0.286)
	Mean Score 26.62 (SD 8.01)		but not MCS.
	Tangible support:		
	Mean score 16.57 (SD 3.77)		
	 Affectionate support: 		
	Mean Score 12.42 (SD 3.12)		
	 Possible social interaction: 		
	Mean score 11.27 (SD 3.31)		
Sazlina et	Duke UNC Functional Social Support	PCS 49.4 (SD 8.90)	Poor social support was significantly
al., (2012)	Questionnaire:	MCS 49.6 (SD 7.02)	associated with PCS (B 0.75, OR 2.11)
	Mean score 4.38 (SD 1.07)		and MCS (B 0.10, OR 2.71)
Khan &	Oslo-3 Social Support Scale:	Overall Mean 59.1 (SD 11.1)	Poor social support (B -28.55) and
Tahir (2014)	Poor support: 16.3%	Physical 57.9 (SD 12.9)	moderate support (B -30.67) were
	Moderate support: 63.6%	Psychological growth 61.7 (SD 13.1)	significantly associated with quality of
	Strong support: 20.1%	Social Relations 56.8 (SD 15.4)	life.
		Environment 59.9 (SD 12.5)	

Having good psychological well-being has been found to be associated with better physical health through immune functions, endocrine function and blood pressure regulation (Uchino, Cacioppo and Kiecolt-glaser, 1996). As a result, the health of the older adults improves.

In the qualitative study older adults reported the importance of having social support from family in times of illness (Suridah Ali, 2017). Abu Samah et al. (2010) conducted a qualitative study among older women to identify sources of social support and satisfaction level of social support of older women in Malaysia. Older women reported that they expected their children, especially sons to look after them in old age. The form of social support they wanted the most was more frequent contact, especially face-to-face contact (Asnarulkhadi Abu Samah et al., 2010). This indicates that older adults in Malaysia still have expectations on their children to look after them. Among older adults without children, relatives and neighbours are their source of social support (Suridah Ali, 2017). In contrast, older adults in the western world depend more on their friends for support (Gariepy et al., 2016).

In the three cross-sectional studies, the majority of older adults lived with spouse or family (87.4%-92%) which is reflective of the National Health and Morbidity Survey 2015 and the United Nations Report (Malaysia, 2015; United Nations Department of Economic and Social Affairs, 2015). Therefore, family is an accessible social support resource for older adults in Malaysia and should be optimised. Government should conduct awareness campaigns in educating the families and the community in providing social support for older adults. Policies which encourage people to look after their parents should be enhanced further.

The strength of this review is in the systematic search of articles, the inclusion of Malay language studies and comparison between studies. To the best of our abilities, this is the first review studying the association between social support and quality of life among older adults in Malaysia. The findings of this review should pave the way for more future research in this topic and assist in future policies for older adults.

However, there are a few limitations in reviewing the studies. The studies used different measurements for social support and quality of life. Since there is no standardized social support measurement, comparison between studies could not be made. This applies to both the social support and quality of life measurements. Social support scores and quality of life scores could not be compared between studies resulting in difficulty in interpreting the results.

The study design of the quantitative studies was cross-sectional study which could not confirm temporal causality between the association of social support and quality of life. Future research in this topic should be designed as a cohort study. Cohort studies looking at patterns of social support and its outcomes would enlighten us further in confirming causality and identifying trends in social support among older adults. Trends are important for analysing how social support changes over time and what impact it has on older adults' lives. In addition, structural social support was not included in the measurements of social support. Therefore, future studies should include both structural and functional measures of social support for comparison. More details on structural social support would improve understanding of the culture among Malaysian older adults.

V. CONCLUSION

This review has highlighted the importance of social support on quality of life among older adults. It has confirmed previous findings that receiving good social support is important for better quality of life. Emotional social support and family support has been found to be important for older adults in Malaysia. Future research should include implementation research of how to improve social support from family to older adults and increase quality of life.

VI. ACKNOWLEDGEMENTS

The authors would like to thank the staff of the Centre for Epidemiology and Evidence-Based Practice for their assistance. This study is funded by University of Malaya Grand Challenge Project (GC001A-14HTM and GC001B-14HTM, Prevent Elder Abuse and NegleCt InitiativE (PEACE).

VII. REFERENCES

- Abdul Rashid Khan and Ibrahim Tahir (2014) 'Influence of Social Factors to the Quality of Life of the Elderly in Malaysia', Open Medicine Journal, 1, pp. 29–35. doi: 10.2174/1874220301401010029.
- Asakawa, K. *et al.* (2012) 'Trajectories of health-related quality of life differ by age among adults: Results from an eight-year longitudinal study', Journal of Health Economics. Elsevier B.V., 31(1), pp. 207–218. doi: 10.1016/j.jhealeco.2011.10.002.
- Asnarulkhadi Abu Samah *et al.* (2010) 'Sokongan Sosial Terhadap Warga Tua Wanita', Malaysian Journal of Social Administration, 7–8(11), pp. 77–88.
- Bélanger, E. *et al.* (2016) 'Sources of social support associated with health and quality of life: A cross-sectional study among Canadian and Latin American older adults', BMJ Open, 6(6). doi: 10.1136/bmjopen-2016-011503.
- Berkman, L. F. *et al.* (2000) 'From social integration to health: Durkheim in the new millennium.', Social science & medicine, 51(6), pp. 843–857. doi: 10.1016/S0277-9536(00)00065-4.
- Berkman, L. F. and Syme, S. L. (1979) 'Social networks, host resistance, and mortality: a nine-year follow-up study of Alameda County residents.', Am J Epidemiol, 109(2), pp. 186–204. doi: 10.16953/deusbed.74839.
- Chen, X. and Silverstein, M. (2000) 'Intergenerational social support and the psychological well-being of older parents in China.', Research on Aging, 22(1), pp. 43–65.
- Chen, Y., Hicks, A. and While, A. E. (2013) 'Quality of life of older people in China: A systematic review', Reviews in Clinical Gerontology, 23(1), pp. 88–100. doi: 10.1017/S0959259812000184.
- Cobb, S. (1976) 'Social support as a moderator of life stress.', Psychosomatic medicine, 38(5), pp. 300–14. doi: 10.1097/00006842-197609000-00003.
- Dai, Y. et al. (2016) 'Social support and the self-rated health of older people: A comparative study in Tainan Taiwan and Fuzhou Fujian province.', Medicine. aDepartment of Health Management, School of Public Health, Fujian Medical University, Fuzhou Fujian Province Department of Healthcare Management, School of Public Health, Central South University, Changsha Hunan Province Department of Health Policy and: Lippincott Williams & Wilkins, 95(23), pp. e3881–e3881. doi: 10.1097/MD.000000000000003881.

- Department of Statistics Malaysia (2018) Current Population Estimates, Malaysia 2017-2018. Available at: https://www.dosm.gov.my/v1/index.php?r=column/cthe meByCat&cat=155&bul_id=c1pqTnFjb29HSnNYNUpiTm NWZHArdz09&menu_id=LopheU43NWJwRWVSZklWdz Q4TlhUUT09 (Accessed: 20 November 2017).
- Everard, K. M. *et al.* (2000) 'Relationship of activity and social support to the functional health of older adults.', J Gerontol B Psychol Sci Soc Sci. Program in Occupational Therapy, Washington University School of Medicine, 4444 Forest Park Ave, Box 8505, St Louis, MO 63108; keverard@ot-link.wustl.edu: Oxford University Press / USA, 55(4), pp. S208-12. doi: 10.1093/geronb/55.4.S208.
- Gariepy, G. *et al.* (2016) 'Social support and protection from depression: systematic review of current findings in Western countries.', The British Journal of Psychiatry. Institute for Health and Social Policy, McGill University, Montreal, Canada: Royal College of Psychiatrists, 209(4), pp. 284–293. doi: 10.1192/bjp.bp.115.169094.
- Haber, M. G. *et al.* (2007) 'The relationship between self-reported received and perceived social support: A meta-analytic review.', American journal of community psychology, 39(1), pp. 133–144. doi: 10.1007/s10464-007-9100-9.
- Haddaway, N. R. *et al.* (2015) 'The role of Google Scholar in evidence reviews and its applicability to grey literature searching.', PLoS ONE, 10(9), p. e0138237. doi: https://doi.org/10.1371/journal.pone.0138237.
- Hakulinen, C. *et al.* (2016) 'Structural and functional aspects of social support as predictors of mental and physical health trajectories: Whitehall II cohort study', Journal of Epidemiology and Community Health, 70(7), pp. 710–715. doi: 10.1136/jech-2015-206165.
- Henchoz, Y. *et al.* (2017) 'Determinants of quality of life in community-dwelling older adults: comparing three cut-offs on the excellent-to-poor spectrum.', Quality of Life Research. Institute of Social and Preventive Medicine (IUMSP), University of Lausanne Hospital Centre, Route de la Corniche 10 1010 Lausanne Switzerland: Springer Science & Business Media B.V., 26(2), pp. 283–289. doi: 10.1007/s11136-016-1394-3.
- Holt-Lunstad, J., Smith, T. B. and Layton, J. B. (2010) 'Social relationships and mortality risk: A meta-analytic review', PLoS Medicine, 7(7). doi: 10.1371/journal.pmed.1000316. House, J. S. (1981) Work Stress and Social Support. Addison-

Wesley.

- House, J. S., Landis, K. R. and Umberson, D. (1988) 'Social relationships and health.', Science, 241(4865), pp. 540–545. doi: 10.1126/science.3399889.
- Ibrahim, N. *et al.* (2013) 'Relationships between social support and depression, and quality of life of the elderly in a rural community in Malaysia', Asia-Pacific Psychiatry, 5(SUPPL. 1), pp. 59–66. doi: 10.1111/appy.12068.
- Ingrum, J. R. (2017) "The Impact of Quality of Life on the Health of Older People from a Multidimensional Perspective", Journal of aging research, 2018, pp. 1–7. doi: https://doi.org/10.1155/2018/4086294.
- Malaysia, M. of H. (2015) National Health and Morbidity Survey 2015. Volume II: Non-communicable Diseases, Risk Factors & Other Health Problems., Ministry of health. doi: 10.1017/CBO9781107415324.004.
- Moher, D. *et al.* (2009) 'Preferred reporting items for systematic reviews and meta-analyses: The PRISMA statement', PLoS Medicine, 6(7). doi: 10.1371/journal.pmed.1000097.
- Neri, A. L. *et al.* (2018) 'Factors associated with perceived quality of life in older adults: ELSI-Brazil. Revista de saude publica, 52, 16s.', Revista de saude publica, 52(16s), pp. 1-10s.
- Oxman, T. E. *et al.* (1992) 'Social support and depressive symptoms in the elderly.', American journal of epidemiology, 135(4), pp. 356–368.
- Sazlina Shariff Ghazali *et al.* (2012) 'Predictors of health related quality of life in older people with non-communicable diseases attending three primary care clinics in Malaysia.', J Nutr Health Aging, 16(5), pp. 498–502.
- Schwarzbach, M. *et al.* (2014) 'Social relations and depression in late life - A systematic review', International Journal of Geriatric Psychiatry, 29(1), pp. 1–21. doi: 10.1002/gps.3971.
- Suridah Ali (2017) 'Kualiti hidup pesara lelaki dan wanita Malaysia: Kajian kes di Besut, Terengganu (Quality of life of Malaysian men and women retirees: A case study in Besut, Terengganu)', Geografia-Malaysian Journal of Society and Space, 12(5), pp. 11–21.
- The WHOQOL Group (1995) 'The World Health Organization Quality of Life Assessment (WHOQOL): Position Paper from the World Health Organization.', Soc Sci Med, 41(10), pp. 1403–1409. doi: 10.1016/0277-9536(95)00112-K.
- Thoits, P. A. (1982) 'Conceptual, methodological, and theoretical problems in studying social support as a buffer against life stress.', Journal of Health and Social Behavior, 23(2), pp. 145–159.

- Tomaka, J., Thompson, S. and Palacios, R. (2006) 'The relation of social isolation, loneliness, and social support to disease outcomes among the elderly.', J Aging Health, 18(3), pp. 359–384.
- Uchino, B. N., Cacioppo, J. T. and Kiecolt-glaser, J. K. (1996) "The Relationship Between Social Support and Physiological Processes: A Review with Emphasis on Underlying Mechanisms and Implications for Health', 119(3), pp. 488–531.
- United Nations Department of Economic and Social Affairs (2015) World Population Ageing 2015.
- Unsar, S., Dindar, I. and Kurt, S. (2015) 'Activities of daily living, quality of life, social support and depression levels of elderly individuals in Turkish society', Journal of the Pakistan Medical Association, 65(6), pp. 642–646.
- Zaninotto, P., Falaschetti, E. and Sacker, A. (2009) 'Age trajectories of quality of life among older adults: Results from the English longitudinal study of Ageing', Quality of Life Research, 18(10), pp. 1301–1309. doi: 10.1007/s11136-009-9543-6.