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# Islamic Religiosity Among the Older Adults in Turkey: The Association Among Religious Activities, Health Status, and Life Satisfaction

D Ismail Tufan¹ 🕕 Gulusan Ozgun Basibuyuk¹ 🕕 Asli Kilavuz²

# Abstract

Religiosity and religious activity increase with age. On the other hand, it is less known whether religiosity is related to satisfaction and physical and psychological health status. Associated variables with being religious in old age are aimed to examine in this empirical research held in Turkey among the older adults over the age of 60. Religious practices of the older adults (N=150) such as attending to the mosque, practicing daily prayers, and praying (often, rarely never) were compared with respect to their physical and psychological health, life satisfaction, self-serenity and fear of death. According to Chi-square results, participants who rated both physical and psychological health status as good, the number of participants performing often praying was higher than the number of people who were rarely praying or did not ever praying. People who rated their both life satisfaction and self-serenity as "good", the number of participants visiting a mosque often was higher than the number of people who were rarely visiting or did not ever visiting. Also, people who describe their fear of death as "never", the number of participants never performing daily prayers was lower than the number of people who often prayers and rarely prayers. Results revealed the possible association between physical/psychological health outcomes and religious participation.

Keywords: Religiosity, gerontology, psychological, health, life satisfaction, fear of death

# **Key Practitioners Message**

- In practice, considering possible roles of religious activity on physical and psychological health is recommended.
- Religious participation, including active engagement like daily praying and praying, is associated with better physical and psychological health outcomes.

Religion has always been an important part of life around the World (Badkar, 2018; Dollahite, Marks, & Dalton, 2018). Its effect on building human relations (Dollahite et al., 2018) and forming traditions in culture (Yang, 2019) has been mentioned in several studies. The discussions are more about the image of religion than the religious beliefs themselves.

The sociological explanation of religion is spread on a wide spectrum regarding the theoretical analysis. Religion is defined as part of social life (Wiebe, 2019). According to some researchers, religion has the power to rebuild the generations' continuity (Bell, 1979) and regulates social life (Wiebe, 2019). Next, when the anthropologic thesis is regarded, the function of religion is to tolerate the unresolvable problems of individual and social life emotionally and to create symbols to perceive the society as a "unit" (Hillmann, 2007). Finally, religion is also one of the dimensions of pedagogical education, which is taught by using a pedagogical methodology (Schweitzer, 2005). Religion

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is learned through education (Demirel Ucan, & Wright, 2019).

The importance of religion is observed, especially among older adults in societies. There is a remarkable increase in the number of publications carried about religion in the field of gerontology in western societies (Koenig, Peteet, & Balboni, 2017; Levin, 1997; Shaw, & Stevens, 2019; Sperling, 2004). This increment shows the significance of religion among older adults; however, it does not mean that the tendency to practice religious activities more increases in old age. It is highlighted that the religious and symbolic world is important for human being regardless of old age (Sperling, 2004).

The relationship between religion and aging is one of the critical focuses of gerontology. The findings of studies, however, are controversial. Regarding the disengagement theory, religious practices decrease by age (Argyle, 2000; Koenig, 1992). Although, some researchers state that religion helps to overcome the fear of death among older adults (Fortuin, Schilderman, & Venbrux, 2019; Wittowski & Baumgaertner, 1977), others believe that it is not possible to cope with the pressure of the end of life with religion (Templer & Datson, 1970). Death is perceived as a way of reaching God (Menzies & Menzies, 2018). Also, it is pointed out that older adults having religious participation has higher scores from fear of death (Fortuin et al., 2019).

Religious activity is defined as the frequency of attendance at religious services, or an amount of participation in religious activities (Witter, Stock, Okun, & Haring, 1985). It is proved that people performing religious activities feel content about themselves (Witter et al., 1985). Additionally, religious activities increase subjective well-being more than religiosity, which is defined as the importance of religion or interest in religion (Witter et al., 1985). Intrinsic religiosity has a negative correlation with the negative perception of death (Hood et al., 1996). The fear of death decreases when there is a belief in endless life and there is a spiritual meaning of death (Dittmann-Kohli, 1990; Utsch 1992). There is a discussion about the age in religious behavior. The younger generation is refusing the traditional religious concept. They are more autonomous, praying less, practicing meditation more, and have less expectancy from religious communities than older adults (Dieckmann & Maeillo 1980). There is also a gender difference, where women are found to be practicing religion more than men (Dieckmann & Maiello 1980).

# **The Theoretical Model of the Research**

The frequency of attending religious ceremonies, the visit of religious settings (church, mosque, and synagogue), praying and practicing religion are accepted as criteria of being religious (Seprling, 2004). The interest of gerontology with respect to religion is its contribution to health (Kruse, 2007). The Turkish population is aging, and the frequency of chronic illness is increasing in old age. Therefore, the question of whether religion helps to contribute to preventing health problems seems to be necessary. Around 27% of the people between the age of 60 and 64 are handicapped and in most cases, the reason is a chronic illness. Over the age of 80, the percentage of being handicapped is over 54% (DIE 2002, as cited in Tufan, 2007).

Devotion to religion is a multidimensional development process. Besides its religious- cultural content, its importance for individuals should be taken into consideration (Sperling, 2004). In a study, the importance of the fact that religious needs can be fulfilled by praying, meditation, and joining religious discussions (Sulmasy, 2002).

Hays, Meador, Branch, and George (2001) have created a tool to determine the development of individual devotion to religion. During an individual lifetime, the spirituality help someone gets, the importance of religion in family bibliography, the supports gathered over religious beliefs and disadvantages of being religious has been taken into consideration.

Idler and her colleagues (2003) draw attention that all the factors indicated here should be accepted as religious dimensions such as the religion, the effects of religion of private life, the religious experiences, the religious practices, participation in religious activities, the supports due to religion, the commitment for the religious community, and the forgiving tendency of religiosity (I do forgive myself, others and know that God forgives me). Researches about older adults usually show a positive effect of religion on subjective health status, life satisfaction, and happiness. (Levin, 1997; Sperling, 2004).

# **Hypotheses**

The hypothesis before the research was that subjective health, life satisfaction, and self- serenity are increasing with increased religious acts. The subjects were asked to evaluate their individual health status, life satisfaction self-serenity, and fear of death.

# Method

# **Participants**

The sample consists of 150 people. While selecting participants, an equal number of men (n = 75) and women (n = 75) was assigned to each group with respect to the frequency of their practicing daily prayers<sup>1</sup>. Daily prayers were divided into three groups: never (n = 50), rarely (n = 50), and

often (n = 50) practicing daily prayers. Participants' gender, marital status, and education level were distributed equally with respect to the sequence of daily prayers. The distribution of the participants in each group is demonstrated in Table 1.

It is well known that the education level has an essential effect on the economic status of the people in Turkey (Tufan, 2007). Therefore, balancing the number of people according to their educational level may mean the minimization of the effect of their economic status. Another factor affecting the economic status is gender. It is well known that women have a markedly lower education level and economic status than men. (Tufan, 2007). In this sampling, the effects of educational status and gender differences were avoided by selecting an equal number of people in each category since economic status might be a confounding factor physical and psychological well-being of individuals.

When looking at age groups, participants frequency of daily prayers aged 60-64 (n = 25), 65-69 (n = 35), 70-74 (n = 50), 75-79 (n = 25), 80 and above (n = 15) were shown at Table-2.

# Procedure

Research has been performed in Antalya. The data collected by a questionnaire that was de-

		Ge	nder		Marital Status			Educational Sta	itus	
		Male	Female	Single	Married	Widowed	Low (0-5 years)	Medium (6-11 years)	High (12-16 years)	Total
Frequency of Daily Praying	Never	25	25	10	20	20	20	20	10	50
	Rarely	25	25	10	20	20	20	20	10	50
Frequ of D Pray	Often	25	25	10	20	20	20	20	10	50
	Total	75	75	30	60	60	60	60	30	150

Performing daily prayers (known as "namaz" into Turkish) is one of the five basic religious acts in Islam. Each Muslim is obliged to pray to Allah five times a day. Praying is a way of personal connection with Allah to express his/ her gratitude. Each Muslim who performs prayers turns his face to the Kaaba in Mecca. The difference between daily prayers and praying is that daily payers is more systematic and time limited. On the other hand, praying does not need to be systematic, it can be done at any time of the day and can be performed verbally or heartily. signed regarding theoretical and practical findings from the literature. The participants were informed about the aim of the present study, and their consent was obtained. All subjects participated voluntarily. Interviews were conducted by specially trained 10 interviewers. Three groups have been developed based on the frequency of practicing daily prayers: Never practicing daily prayers (n = 50), rarely practicing daily prayers (n = 50), often practicing daily prayers (n = 50). Participants were rated their subjective physical health status, subjective psychological health status, life satisfaction, self-serenity, and fear of death by using a 3-point Likert scale (1= Bad, 2= Average, 3= Good; for fear of death 1= Often, 2= Average, 3= Never Exist).

**Table-2.** The distribution of the participants according to ageand performing daily praying

			Age Groups				
		60-64	65-69	70-74	75-79	80+	Total
2 ~ 2	Never	8	12	17	4	9	50
uend Jaily /ing	Rarely	12	12	15	11	0	50
Frequency of Daily Praying	Often	5	11	18	10	6	50
	Total	25	35	50	25	15	150

# Results

Data was computerized, and the hypotheses had been examined via the SPSS.

# **Physical Health**

24.67% of participants (n = 37) reported as their physical health as "good," while 75.33% (n = 113) of the participants reported as their health as "bad".

A chi-square test of independence was performed to test the relationship between daily prayer and physical health status perception. As can be seen, by the frequencies cross-tabulation in Table-3, there was a significant relationship between daily prayers and health status perception,  $\chi^2$  (2, n = 150) = 22.46, p  $\leq$  .001. Among those who describe their health status as "good", the number of participants performing daily prayers often (n = 24) was higher than the number of people who rarely prayers (n = 8) or did not ever prayers (n = 5).

A chi-square test of independence was per-

formed to test the relationship between visiting a mosque and physical health status perception. As can be seen, by the frequencies cross-tabulation in Table-3, there was no significant relationship between visiting a mosque and health status perception,  $\chi^2$  (2, n = 150) = .93, p ≥ 05.

A chi-square test of independence was performed to test the relationship between praying and physical health status perception. As can be seen, by the frequencies cross-tabulation in Table-3, there was a significant relationship between praying and health status perception,  $\chi^2$  (2, n = 150) = 23.32, p ≤ .001. Among those who describe their health status as "good", the number of participants performing praying often (n = 24) was higher than the number of people who were rarely praying (n = 9) or did not ever praying (n = 4).

**Table-3.** The distribution of the participants in each group according to the health status and religious participation

		Health Stat	tus "Good" (n =	37)
		Practicing of daily praying	Visiting to the mosque	Praying
of ous	Never	5	10	4
ency eligio tivity	Rarely	8	13	9
Frequency of The Religious Activity	Often	24	14	24

# **Psychological Health**

22.67% of participants (n = 34) reported as their psychological health as "good," while 77.33% (n = 116) of the participants reported as their psychological health as "bad".

A chi-square test of independence was performed to test the relationship between daily prayer and psychological health status perception. As can be seen, by the frequencies cross-tabulation in Table-4, there was a significant relationship between daily prayers and psychological health status perception,  $\chi^2$  (2, n = 150) = 21.53, p  $\leq$  .001. Among those who describe their psychological health status as "good", the number of participants performing daily prayers often (n = 22) was higher than the number of people who rarely prayers (n = 9) or did not ever prayers (n = 3).

A chi-square test of independence was performed to test the relationship between visiting a mosque and psychological health status perception. As can be seen, by the frequencies cross-tabulation in Table-4, there was no significant relationship between visiting a mosque and psychological health status perception,  $\chi^2$  (2, n = 150) = .99, p≥ 05.

A chi-square test of independence was performed to test the relationship between praying and psychological health status perception. As can be seen, by the frequencies cross-tabulation in Table-4, there was a significant relationship between praying and psychological health status perception,  $\chi^2$  (2, n = 150) = 20.39, p  $\leq$  .001. Among those who describe their psychological health status as "good", the number of participants performing praying often (n = 22) was higher than the number of people who were rarely praying (n = 8) or did not ever praying (n = 4).

**Table-4.** The distribution of the participants in each group according to the psychological health status and religious participation

		Psychological Health Status "Good" (n = 34)		
		Practicing of daily praying	Visiting to the mosque	Praying
of su	Never	3	9	4
equency e e Religiou Activity	Rarely	9	12	8
Frequency of The Religious Activity	Often	22	13	22

# **Life Satisfaction**

26% of participants (n = 39) reported as their life satisfaction as "good," while 74% (n = 111) of the participants reported as their life satisfaction as "bad".

A chi-square test of independence was performed to test the relationship between daily prayer and psychological health status perception. As can be seen, by the frequencies cross-tabulation in Table-5, there was no significant relationship between daily prayers and life satisfaction,  $\chi^2$  (2, n = 150) = 00, p ≥ 05.

A chi-square test of independence was performed to test the relationship between visiting a mosque and life satisfaction. As can be seen, by the frequencies cross-tabulation in Table-5, there was a significant relationship between visiting a mosque and life satisfaction ,  $\chi^2$  (2, n = 150) = 13.93, p ≤ .001. Among those who describe their life satisfaction status as "good", the number of participants visiting a mosque often (n = 22) was higher than the number of people who were rarely visiting (n = 11) or did not ever visiting (n = 6).

A chi-square test of independence was performed to test the relationship between praying and life satisfaction. As can be seen, by the frequencies cross-tabulation in Table-5, there was a significant relationship between praying and life satisfaction,  $\chi^2$  (2, n = 150) = 5.82, p ≤ .05. Among those who describe their life satisfaction status as "good", the number of participants performing praying often (n = 17) was lower than the number of people who were rarely praying (n = 15) or did not ever praying (n = 7).

**Table-5.** The distribution of the participants in each group according to the life satisfaction and religious participation

		Life Satisfaction "Good" (n = 39)			
-			Visiting		
		Practicing of	to the		
		daily praying	mosque	Praying	
Ś s	Never	13	6	17	
Frequency of The Religious Activity	Rarely	13	11	15	
Frec of Reli Ac	Often	13	22	7	

# **Self-Serenity**

20.67% of participants (n = 31) reported as their self-serenity as "good," while 79.33% (n = 119) of the participants reported as their serenity as "bad".

A chi-square test of independence was performed to test the relationship between daily prayer and self-serenity status perception. As can be seen by the frequencies cross-tabulation in Table-6, there was a significant relationship between daily prayers and self-serenity,  $\chi^2$  (2, n = 150) = 10.82,  $p \le .01$ . Among those who describe their self-serenity as "good", the number of participants never performing daily prayers (n = 3) was lower than the number of people who often prayers (n = 16) and rarely prayers (n = 12).

A chi-square test of independence was performed to test the relationship between visiting a mosque and self-serenity. As can be seen by the frequencies cross-tabulation in Table-6, there was a significant relationship between visiting a mosque and self-serenity,  $\chi^2$  (2, n = 150) = 23.01, p ≤ .001. Among those who describe their self-serenity status as "good", the number of participants visiting a mosque often (n = 21) was higher than the number of people who were rarely visiting (n = 8) or did not ever visit (n = 2).

A chi-square test of independence was performed to test the relationship between praying and self-serenity. As can be seen, by the frequencies cross-tabulation in Table-6, there was no significant relationship between praying and self-serenity,  $\chi^2$  (2, n = 150) = 1.06, p ≥.05.

**Table-6.** The distribution of the participants in each group according to the self-serenity and religious participation

		Self-Serenity "Good" (n = 31)		
		Practicing of daily praying	Visiting to the mosque	Praying
<ul> <li>cy</li> </ul>	Never	3	2	8
Frequency of The Religious Activity	Rarely	12	8	11
Fre Re A	Often	16	21	12

# **Fear of Death**

20.67% of participants (n = 31) reported as their fear of death as "never," while 79.33% (n = 119) of the participants reported as their health as "often".

A chi-square test of independence was performed to test the relationship between daily prayer and fear of death. As can be seen by the frequencies cross-tabulation in Table-7, there was a significant relationship between daily prayers and fear of death,  $\chi^2$  (2, n = 150) = 7.40, p  $\leq$  .05. Among those who describe their fear of death as "never", the number of participants never performing daily prayers (n = 4) was lower than the number of people who often prayers (n = 14) and rarely prayers (n = 13).

A chi-square test of independence was performed to test the relationship between visiting a mosque and a fear of death. As can be seen by the frequencies cross-tabulation in Table-7, there was a significant relationship between visiting a mosque and fear of death,  $\chi^2$  (2, n = 150) = 10.82, p  $\leq$  .001. Among those who describe their fear of death status as "never", the number of participants visiting a mosque never (n = 3) was lower than the number of people who were rarely visiting (n = 12) or often (n = 16).

A chi-square test of independence was performed to test the relationship between praying and fear of death. As can be seen, by the frequencies cross-tabulation in Table-7, there was no significant relationship between praying and fear of death,  $\chi^2$  (2, n = 150) = 1.55, p ≥.05.

**Table-7.** The distribution of the participants in each group according to the fear of death and religious participation

		Fear of Death "Never Exist" (n = 31)		
		Practicing of daily praying	Visiting to the mosque	Praying
, s cy	Never	4	3	13
Frequency of The Religious Activity	Rarely	13	12	10
A Re	Often	14	16	8

# Discussion

The results of the research revealed the possible association between religious participation and physical or psychological health outcomes. Perceived physical and psychological health status, life satisfaction, self-serenity, and fear of death were taken into account when considering religious participation.

Participants who rated both physical and psychological health status as useful; the number of participants often performing daily prayers was higher than the number of people who rarely prayers or did not ever pray. In other words, people whose physical and psychological health status perception as good participated in daily prayers more often or vice versa. Similarly, participants who rated both physical and psychological health status as good; the number of participants performing often praying was higher than the number of people who were rarely praying or did not ever pray. In other words, people whose physical and psychological health status perception as good participated praying more often. Similar findings of religious participation health status relationships were mentioned in the literature (Kruse, 2007). On the other hand, there was no significant relationship between visiting a mosque and physical and psychological health perception. Therefore, visiting a mosque was independent of health perception.

When looking at life satisfaction, there was no significant relationship between daily prayers and life satisfaction. On the other hand, there was a significant relationship between visiting a mosque and life satisfaction. People who rated their life satisfaction status as "good", the number of participants visiting a mosque often was higher than the number of people who were rarely visiting or did not ever visiting. Those people with good life satisfaction might have more economic independence to visit a different mosque. Moreover, when looking at life satisfaction and praying relationships, people who describe their life satisfaction status as "good", the number of participants performing praying often was lower than the number of people who were rarely praying or did not ever praying.

When looking at self-serenity and religious participation, there was a significant relationship between daily prayers and self-serenity. Among those who describe their self-serenity as "good", the number of participants never performing daily prayers was lower than the number of people who often prayers and rarely prayers. The significant difference was also observed between self-serenity and visiting a mosque. Among those who describe their self-serenity status as "good", the number of participants visiting a mosque often was higher than the number of people who were rarely visiting or did not ever visiting. Findings for daily praying and visiting mosque and self-serenity revealed that participation in religious activities and a sense of content are associated (Witter et al., 1985). On the other hand, there was no significant relationship between praying and self-serenity. Therefore, on the basis of the type of religious participation, self-serenity and religious participation results might be different.

When looking at fear of death relationships with religious participation, there was a significant relationship between daily prayers and fear of death. Among those who describe their fear of death as "never", the number of participants never performing daily prayers was lower than the number of people who often prayers and rarely prayers. Also, people describe their fear of death status as "never"; the number of participants visiting a mosque never was lower than the number of people who were rarely visiting or often. In other words, people who never visit a mosque had a higher fear of death. Those results were showing a significant association between fear of death and both daily praying and visiting a mosque, all of which confirmed earlier studies revealing higher religious participation and fear of death relationship (Fortuin et al., 2019). On the other hand, there was no significant relationship between praying and fear of death, which means the importance of the type of religious participation in fear of death.

The practice of daily prayers and prayers are behaviors that are obviously different from visiting a mosque. In both of these religious activities, the body and soul need to be active. This reminds us of the disengagement and activity theories of gerontology. Praying is more a passive behavior and resembles the disengagement of the older adults. The practicing of daily prayers and visitings to the mosque is keeping one active, and this increases life satisfaction and self-confidence and helps to maintain health in old age. This research was limitedly evaluating the relationships between religious participation, physical and psychological health outcomes. Daily praying, visiting a mosque, and praying were taken as religious participation in the Islamic religion. Those connections between religious participation and health outcomes should be considered in the light of Islamic religion that could not be generalizable. Also, further studies are needed to a causal relationship between other religious participation variables into Islamic religion as well as other religions from the perspective of gerontology.

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# **REVIEW ARTICLE**

# Health Literacy As A Tool To Ease Pressure On Long-Term Care Systems: Perspectives And Issues On Healthy Aging Across The Life Course

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# **ABSTRACT**

This paper aims to heighten attention and awareness surrounding the need for collective actions to advance health literacy interventions and initiatives within a life-course framework. Placing health literacy within a life course approach is held to be a precursor to healthy aging and an effective means of a) increasing healthy life expectancy in later life and b) reducing escalating costs associated with the operation of long-term care systems established to provide long-term care for the aged. Governments worldwide and their respective public health systems are encouraged to initiate policy developments that promote health literacy as a national health imperative. The significant actual and potential contributions of a strengthened focus on health literacy are highlighted as offering a pathway for a cultural shift leading to patient and consumer empowerment, increased health care equity, and improvements in organizational and health system outcomes. Making health literacy an essential part of health care policies warrants an understanding of the complex and dynamic interplay of components operating at the individual, community, and health system levels.

Keywords: Communication technology, digital literacy, health competency, longevity effect, self-management

# **Key Practitioners Message**

- 1. This manuscript offers useful insights and approaches to health professionals working in middle-income and transitional phase governments where major shortfalls exist in legislative commitments for supporting the health and well-being of older adults.
- 2. Health professionals need to be more cognizant of their responsibilities in providing health information to health consumers including the adoption of practical and innovative strategies that help to create health literate environments to improve individual and community-based health outcomes.
- 3. This article represents a call to action by health care professionals to identify deficits in their respective health systems with a view to enhancing access to health information and allied services including easy-to-follow navigation steps for assistance.
- 4. Researchers and health care professionals should be encouraged to support the practice of healthcare, disease prevention, and health promotion within a framework that examines how the unequal distribution of health literacy is influenced by socioeconomic determinants at different times in the lifecourse.

"Knowing is not enough; we must apply. Willing is not enough; we must do."

Goethe

# Introduction

<u>Harper (2019)</u> refers to the myriad of complex issues and challenges that are emerging worldwide as nations are progressively becoming aging societies. <u>Berlinger</u> and <u>Solomon (2018)</u> refer to aging societies as those in

which "fewer children are born, adults are living longer, and the population distribution is shifting toward older adults. A society in which more residents are over sixty-five than under fifteen is often described as an aging society" (p. S3). According to the National Research Council (2001) which is the working branch of the United States National Academies "The projected growth in the numbers and proportions of the world's older population poses an array of challenges to policymakers" (p. 1). The World Health Organization (2015) estimates that the number of people over 60 years of age is set to double by 2050 and will require radical societal change. Among the host of formidable and unprecedented challenges arising from the population, aging is the increasing demand on long-term care systems for older people made vulnerable by the passage of time. In the present situation, long term care can be taken to mean the provision of programs, activities, and support by a range of persons assigned to assist people with, or who may be at risk of, major ongoing loss of functional capacity and abilities with potential or actual adverse effects that endanger their fundamental human rights, freedoms, and dignity. On the other hand, long-term care systems have been established in countries worldwide to meet the needs of older people requiring long-term care. Pot, Briggs, and Beard (2017) drawing upon the World Health Organization (2016) Global Strategy and Action Plan on Ageing and Health report that long-term care systems are primarily concerned with the "delivery and coordination of all care, support, and assistance to ensure the best possible trajectories of an individual's capacity and functional ability over time for people with, or at risk of, a significant ongoing loss of capacity" (p. 7). Long-term care systems vary in design and operation across countries and involve a myriad of settings that include home, community, and residential aged care facilities. The costs associated with the operation of long-term care systems are projected to escalate and will vary in accordance with a) care setting b) country and geographic location of care and c) level of required care.

It is not surprising, therefore, that governments worldwide are concerned and motivated to avoid the anticipated increase in health care costs arising from population aging. Intille (2004) in recognition of the increasing pressure on healthcare systems resulting from the upward movement of age demographics advocates for the adoption of persuasive type technologies to promote health and wellness throughout all stages of life. It is easy, therefore, to understand how problemstated orientations surrounding shifts to predominantly older populations have and continue to echo through the corridors of governments causing alarm and consequent demand for strategies to curb expected increases in health care costs for older people. For example, Haan, Rice, Satariano, and Selby (1991) in a special issue of Journal of Aging and Health presented an article entitled "Living Longer and Doing Worse" and Gruenberg's (1977) telling statement "the failures of success in the health care journal the Milbank Memorial

Fund Quarterly Health and Society refers directly to "how medicine has succeeded in dealing with many health problems, though the result is greater morbidity" (<u>Brooks, 1996</u>, p. 277). More recently, however, <u>Williams, Cylus, Roubal, Ong, and Barber (2019)</u> in a policy brief on building a framework for sustainable health financing for an aging population proffer the view "Healthy and active aging can help reduce the burden of disease and disability in older people and delay care dependency, contributing to reduced demand for health care" (p. 13).

The primary objective of this paper is to foster awareness and stimulate debate in the hope of creating new ways of thinking and acting in terms of policy development in relation to improving population health through health literacy for aging societies. In simple terms, the notion of health literacy concerns the extent to which individuals have the confidence and basic capacity to obtain, process, and understand healthrelated information and services to make appropriate and safe decisions concerning the management of their health and well-being. A report by the Centers for Disease Control and Prevention (2009) makes the point that in relation to health literacy that age-related deficits in the sensory processes involving vision and hearing acuity and cognitive integrity are good predictors of health literacy. From the outset, however, the acquisition of basic literacy and numeracy skills forms the cornerstone for advancing the ability to process information whatever it might be. The argument developed in this paper is that health information provided in the right context and the right form and with access to meaningful support assistance when and where required provides individuals with opportunities for reflexive choice-making leading to positive health changes that endorse the view offered by Laceulle (2014) "that almost all aspects of people's lives are susceptible to revision in light of new information or knowledge" (p. 97). It must be recognized that irrespective of whether countries are designated as developed or underdeveloped that current and future people of all ages, including older citizens, will be very different people with different capacities and capabilities, different outlooks, expectations, and attitudes from their predecessors. The stance taken in the present situation is that health literacy should be fostered by national governments and their respective public health systems as a preventive health strategy and the cornerstone of all national and regional health agendas for a) empowering all people across all ages to pursue healthy lifestyles across the life course b) facilitating an increased awareness surrounding the modifiability of the aging process that leads to an enhanced understanding and appreciation that it is never too late to benefit from healthy lifestyle interventions and c) helping to curb the overall costs associated with the operation of health care systems for older people.

Promoting Healthy Aging: A Life Course Challenge

The impact of increases in life expectancy signals what might be termed the "longevity effect" whereby there is the ever-expanding growth in the number of people living beyond 80 years of age with implications for increasing demands for social and health care support arising from the onset of dependency and frailty (Christensen, Doblhammer, Rau, & Vaupel, 2009; Parker & Thorslund, 2007). Lunenfeld and Stratton (2013). looking at the clinical consequences of an aging world argue for the promotion of healthy aging to combat increasing morbidity and disability among the aged and emphasize the need for health-related social policies and preventive strategies. Cristea, Noja, Stefea, and Sala (2020) suggest that a first step to reducing health care costs concerning population aging should be to set about improving the health status of older people by encouraging them "to adopt healthy aging mindsets through preventive approaches, with the help of medical professionals and awareness campaigns, especially for the older adults and the segment of the population aged 55-64" (p. 17). Offering a similar supportive orientation Lak, Rashidghalam, Myint, and Baradaran (2020) in a systematic review of literature on active aging argue "Creating positive aspects of aging life is an important factor in achieving health expectancy. In societies with a growing older adult population, great attention should be paid to the participation of the older adults in their well-being and that of their families" (p. 1). However, a cautionary note is in order, in so far, that to only examine the role of individual agency in adopting healthy living is to ignore the dynamic interplay of social and institutional forces in shaping individual health practices across the life course. Dannefer and Lin (2014) about the issue of "social disadvantage" assert, "People with lower levels of education, income, and wealth are more likely to experience earlier onset of chronic diseases and subsequently, more rapid progression of the loss of functioning" (p. 185).

Maddox (1992) about the revolution of knowledge relating to human aging identifies the following salient aspects that impact the health and well-being of older people involving "(a) the heterogeneity of aging populations (b) continuities in the aging process (c) the modifiability of the aging process and (d) the importance of the interactions between people and their environments" (p. 60). Taking each of the preceding issues in turn it is clear that diversity among the aged is exemplified by the following viewpoint offered by Maddox "The more carefully we look, however, the more we become aware that at the same chronological age the variance around the central tendency is quite pronounced...So although in the long run, we are all dead, we do not get there in identical ways biologically or socially" (p. 61). The notion of continuity reflects the predictive power of the Shakespearean phrase "What's past is prologue" which in the present situation can be interpreted as reflecting the significance of how early and mid-life health behaviors can provide insights relating to the shape and form of health and well-being in later life. Carstensen,

Roseberg, McKee, and Aberg (2019) offer support for the Shakespearean perspective "Well-being in later life cannot be fully understood without contextualizing an individual's present circumstances through the prism of their past" (p. 42). Research findings support the modifiability of the aging process by showing a positive effect on the health behaviors of older adults through the application of behavior change interventions (Burbank, Padula, & Nigg, 2000; Michel, Dreux, & Vacheron, 2016). Walker (2018) utilizing biological and social science research insights contends "that, while aging is inevitable, it is also plastic. This means that it not only manifests itself in different ways but also that it can be modified by mitigating the various risk factors that drive it" (p. 253). Research work undertaken by Calder et al. (2018) on healthy aging indicates that lifestyle changes made earlier in the life course that include nutrition and diet interventions offer positive potentials for living longer healthier lives. On the other hand, Kalache et al. (2019) reveal that for some older people their lifespan potential is limited due to unequal access to healthy diets, health services, and healthrelated information. A study by Stafford, Von Wagner, Perman, Taylor, and Kuh, D (2018) identified that older people who reported poor social connectedness had a lower engagement with health preventive services than similarly aged persons who maintained good levels of social connectedness. The same researchers found that meaningful social connectedness resulted in the creation of a network of social contacts that assisted in the maintenance of positive levels of mental health. Excellent coverage of research on effective strategies to promote healthy aging is provided in a report to the Victorian Department of Health and Human Services by the National Ageing Research Institute and the Council on Ageing Victoria (2016) "Healthy Ageing Literature Review". The preceding report suggests "that an evidence-based approach should be used to underpin the aims, objectives, and goals of any healthy aging program and to guide its development and implementation" (p. 9).

Gregg (1992) drawing upon the work of Rowe and Kahn (1987) made mention of the "healthspan" concept which formed part of their notion of "successful aging" and refers to the maintenance of "full physical and psychological functions as nearly as possible to the end of life" (p. 169). It would seem appropriate to examine the potential for initiating health interventions that are supportive of the "healthspan" concept that is embedded in a life-course framework to influence and encourage people across all ages and socio-economic groupings to adopt and maintain lifelong health-related actions that lead to well-being in older age (Kuh, Cooper, Hardy, Richards, & Ben-Shlomo, 2014; Kuh, Karunananthan, Bergman, & Cooper, 2014; Walker, 2018). A complementary concept "healthy life expectancy" offers the potential for inclusion in the thinking and decisions surrounding interventions that support healthy aging. In simplistic terms, healthy life expectancy about older age, can, for example, be illustrated by the number (proportion) of healthy life

years at 65 years and beyond that are lived relatively free from disability and frailty (<u>Robine & Jagger, 2005</u>). Of particular importance to older age, the concepts relating to health-span and healthy life expectancy offer realistic potentials and possibilities for improvement in well-being through actions taken preferably in an earlier life but also in later life (<u>Beltrán-Sánchez, Soneji, & Crimmins, 2015; Crimmins,</u> 2015; <u>Michel et al., 2016</u>).

# Health Literacy: Functional Interpretation and Implications

Berkman, Davis, and McCormack (2010) in light of work by Zarcadoolas, Pleasant, and Greer (2006) and Nutbeam (2008) emphasize "Definitions of health literacy have begun to embrace a more ecologically framed conceptual model with an appreciation for the role of language, culture, and social capital" (p. 16) According to Parker, Ratzan and Lurie (2003) "Health literacy has many dimensions, including what it means to be able to read, understand, and communicate important medical and health information during different phases of life. Health literacy is central to multiple health system priorities, including quality, cost containment, safety, and patients' involvement in health care decisions" (p. 147). The U.S. Department of Health and Human Services (2010) in a national action plan to improve health literacy adopted the following two primary principles "(1) everyone has the right to health information that helps them make informed decisions and (2) health services should be delivered in ways that are understandable and beneficial to health, longevity, and quality of life" (p. 1). Berkman and his colleagues (2010) provide a typical definition of health literacy that places a focus primarily on the responsibility of the individual consumer to take appropriate action for their health with health literacy taken to mean "The degree to which individuals can obtain, process, understand, and communicate about health-related information needed to make informed health decisions" (p. 16). However, Sørensen and her colleagues (2012) argue that discussions on health literacy need to embrace a more realistic approach by seeing "Health literacy as an interaction between the demands of health systems and the skills of individuals" (p. 3). Hill (2014) articulated the following definition of health literacy in which responsibility for action is shared between the individual consumer and key stakeholders across health care domains: "The degree to which individuals can obtain, process and understand the health information and services they need to make appropriate health decisions. Healthcare providers and the health system can provide information and improve interaction with individuals, communities and each other to respond to and improve health literacy" (p. 10). At the same time, there exists the need to accept the fact that health literacy understandings and meanings will vary in terms of acceptance, interpretation, and significance following whether or not the focus is upon:

- Individual consumers, caregivers, communities;
- Health professionals and the health care workforce;
- Health care organizations and allied health systems.

Figure-1 illustrates what can be seen as a dynamic interaction network constituted by healthcare professionals, the health system, and users' who collectively form the core of an operational framework for creating health literate communities.

### Figure 1

Illustration of the Health Literacy Network Operating in a Complex Interactive Process Between Individual Consumers, Communities, Health Professionals, and Healthcare-Related Systems



*Note*. Source: Department of Health Victoria (Australia), 2013, p. 9). {Used by permission}.

Loan et al. (2018) make the following call for action to enhance health literacy "In health-care systems and community health care settings, leaders must provide resources that enable all health-care providers to minimize the gap between patient skills and abilities and the demands and complexities of health care systems" (p. 97). It must be understood that although heterogeneity is the defining feature of aging populations there will always be some older people who will need assistance to navigate their way through the health care system. A recent survey in Turkey of older adults' level of health literacy by Bozkurt and Demirci (2019) found that for the majority of their study sample that health literacy was deemed to be "problematic and inadequate" (p. 272). The preceding situation in Turkey would more than likely be similar in all countries throughout the world.

<u>Clouston, Manganello, and Richards (2017)</u> contend that "Health self-management is integral to healthy aging and lowered disease burden" (p. 494). <u>Spoel, Harris,</u> and <u>Henwood (2014)</u> in an examination of work undertaken by <u>Rudman (2006)</u> and <u>Katz (2002)</u> report "how the civic imperatives of self-care are constituted in especially pronounced ways for older citizens who are urged to stave off the effects (and healthcare costs) of aging and emerging health problems through selfcare practices of body monitoring and improvement, risk management, and active lifestyles" (p. 132). It is one matter for social systems to establish normative expectations for personal responsibility for healthy living, there is, however, the need to consider the adequacy or otherwise of available government and health system support to adopt and maintain healthy lifestyle practices. For Spoel and her colleagues (2014), the dominant rhetoric focusing on the individual to be a good health citizen "does not preclude a simultaneous, minor chord of critique directed at the issue of how government should or could better enable healthy living" (p. 145). Work by Nielsen-Bohlman, Panzer, and Kindig (2004) in their major text for the Institute of Medicine "Health literacy: A Prescription to End Confusion" state: "More needs to be known about the causal pathways between education and health, the role of literacy, and the discrete contribution of health literacy to health. With this knowledge, we will be able to understand which interventions and approaches are most appropriate and effective" (p. 13). With the majority of nation-states growing more complex along with the growth of "aging societies" the need for improved levels of health literacy becomes increasingly important, particularly in light of the proliferation and dissemination of health misinformation and questionable lifestyle practices. People with strong health literacy skills are likely to adopt healthy lifestyles resulting in better health and well-being. At the same time, people with well-developed health literacy skills and competencies are in a more advantaged position to identify and target modifiable risk factors. However, individuals with weaker health literacy skills are more likely to engage in risky health behaviors leading to poorer levels of health and well-being. While the relationship between low literacy and numeracy skills and poor health literacy is strong there is also a need to recognize that an individual with high literacy skills may still register poorly on overall health literacy.

The issues surrounding health literacy and dementia raise several challenges for caregivers and researchers. Rostamzadeh et al. (2020) present a case for more research into the systematic assessment of health literacy in the "at-risk" population for Alzheimer's disease. The preceding researchers argue that better understandings of health literacy concerning cognitive decline can assist in the provision of "adequate communication with persons at-risk, being sensitive to individual needs and preferences" (p. 47). Oliveira, Bosco, and di Lorito (2019) present research findings that suggest that low levels of health literacy may indeed predict future higher dementia risk. Lo (2020) argues for action to empower informal family caregivers with improved dementia literacy for them to implement "effective care strategies, thus ameliorating the caregiver burden and enhancing the life quality of people with dementia in the long run" (p. 1). Sadak, Wright, and Borson (2018) report promising results on their work to develop, operationalize, and culturally adapt a new caregiver management measure for dementia family caregivers. A systematic review of health literacy and older adults by Chesser, Woods, Smothers, and Rogers (2016) highlights the need to improve health strategies for older people known to

have low health literacy including the adoption of a "standardized and validated clinical health screening tool for older adults" (p. 1).

The challenge surrounding the effectiveness or otherwise of health literacy interventions will necessarily require the incorporation of a "Quality Assurance System" that is assigned the task of engaging a continuous process of monitoring the planning, delivering, modifying, and reviewing of policy and interventions within and across all of the constituent networks.

Larsen, Thygesen, Mortensen, Punnett, and Jorgensen (2019) raise an interesting slant on workplace health literacy interventions that are focused on employees who are prone to a great deal of health and well-being challenges. For example, the preceding researchers suggest that "Organizing health literacy in nursing homes might be a feasible and effective way to build work environment efforts targeting the needs of employees" (p. 386). Sørensen and her colleagues (2012) offer a human rights perspective on health literacy and its importance in public health and healthcare:

Advancing health literacy will progressively allow for greater autonomy and personal empowerment, and the process of health literacy can be seen as a part of an individual's development towards improved quality of life. In the population, it may also lead to more equity and sustainability of changes in public health. Consequently, low health literacy can be addressed by educating persons to become more resourceful (i.e., increasing their health literacy), and by making the task or situation less demanding, (i.e., improving the "readability of the system"). (p.10)

### **Digital Health Literacy**

In a world of exponential growth in digital technologies, there are of course specific skills required to access and use the Internet to obtain and use health information. There will be some older people who may have problems with medical jargon and/or lack the confidence, skills, experience, and/or financial resources to use available digital technologies. In one way or another, it has to be accepted that technological innovation has impacted nations worldwide, and as such, older people irrespective of their country and geographical location will have already experienced varying levels of exposure to digital technology. There will of course be much diversity within and between older age population cohorts within each nation-state as to the acceptance, use, and skill development associated with the application of digital technology as part of their evolving lifestyle practices. Moss, Süle, and Kohl (2019) make a case for the promotion of digital health literacy arising from the emerging trend where "Both electronic health (eHealth) and mobile health (mHealth) are

becoming prominent components of health care" (p. 57). The term eHealth refers to health information and services provided by information and communication technology (ICT) such as computers, mobile phones, whereas mHealth provides health information via smart or portable (wrist) type devices. It must be understood that globally, information communication technology (ICT) will become an accepted and significant mode for communicating health information (Berkman et al., 2010). Gully (2009) contends "Advances in communication technology offer new and exciting opportunities to empower individuals and groups concerning their health, to significantly enhance the quality of the practice of health care and public health professionals, and to address inequalities in people's access to health information and services" (p. xxvii). Any attempt by key stakeholders to understand the application of digital technology among older population groups within a specific country context must necessarily field questions relating to access, affordability, and degree of openness surrounding the acceptance of digital technology. Paech and Lippke (2015) in their guest to promote the importance of health literacy in an age of increasing information technology offer the following commentary that has relevance for prompting health professionals, policymakers, and researchers to explore the value of initiating new approaches for advancing the health literacy concept to promote healthy aging "In the face of demographic change the older population represents an important group to look at: What helps to remain or recover their health, how can they participate in society and age successfully?" (p. 67). Stuckelberger and Vikat (2008) reporting on issues relating to the European commitment to a society for all ages state" The empowerment of older persons and the promotion of their full participation are essential for active aging, and must be enhanced through appropriate measures" (p. 2). One such measure must be the provision of education and training in the understanding, access, and application of digital technologies for the increasing numbers of people worldwide now reaching the status of "older person". While Damant, Knapp, Freddolino, and Lombard (2017) in their study relating to the effects of digital engagement on the quality of life of older people found both positive and negative impacts they also made the following projection on the likely involvement of future generations of older people with a "digital society":

In particular, many adults today contemplating moving into the "older age" category rely much more extensively on ICT in their daily lives than do today's older people; their experiences and expectations of a "digital society" in older age will likely differ considerably. (p. 1700)

<u>Shann and Stewart (2018)</u> offer the following advice for advocates planning to assist older people to improve their digital technology literacy skills "To develop technologies that address older people's health needs and support their autonomy-and which also are widely accepted, adopted, and utilized-it is essential to understand older people's experiences, expectations, and concerns" (p. 266). <u>Bashshur (2002)</u> provides an important caveat when trying to ascertain the willingness or indeed capacity of countries to bring their respective health systems in line with available digital technologies:

It is important to recognize, however, that health systems are unique to each society and culture-even within countries. In each instance, the system reflects: (1) a combination of cultural values and practices, (2) the extent to which science and technology are incorporated into the practice of medicine, (3) the level of health sophistication, (4) relative affluence, and (5) each society's investment in health and health care. (p. 10)

Park (2017) highlights about Australia that with penetration information "increasing of and communication technology (ICT) in all public and private realms, there is a need to examine the deeply rooted digital divide and how it is intertwined with issues of social exclusion in rural communities" (p. 399). Speyer et al. (2018) in a study of telehealth by allied health professional and nurses in remote locations report "Telehealth services may be as effective as faceto-face interventions which are encouraging given the potential benefits of telehealth in rural and remote areas with regards to healthcare access and time and cost savings" (p. 225). Earlier work by lacono Stagg, Pearce, and Chambers (2016) supports the value-added outcomes from the use of eHealth technologies in rural Australia. In more recent times, the National Rural Health Alliance (2019) prepared a "Pre-Budget Submission 2020-2021" for attention by the Australian Government that emphasized the need for 1) urgent actions to improve the health outcomes for people living in remote areas throughout Australia 2) the establishment of a Rural Digital Initiative (RDHI) to combat ongoing barriers associated with such matters as connectivity, reliability, accessibility, affordability and digital health literacy and 3) building a sustainable capacity for digital health literacy through education and training workshops for healthcare professionals operating in rural Australia. The World Health Organization (2019) has published guidelines and recommendations on the use of digital applications that should be essential reading by all health systems planning to strengthen health literacy interventions. Penno and Gauld (2017) report that while health technologies and eHealth are seen to empower patients there remains the contentious issue that an overemphasis on promoting independence and self-care "risks shifting the burden of care to older adult patients and informal caregivers" (p. 232). There is a pressing issue relating to the need to support informal caregivers to become more skillful in accessing available health literacy options. This is particularly important when recognition is given to the fact that family-centered care is the reality in which many older people have to

receive and manage their health information and care. <u>Sutherland, Stickland, and Wee (2020)</u> in a review of video consultations offer a cautionary note to counter what might appear to be an overly enthusiastic and premature acceptance of digital interventions:

While recognizing the innovative role that digital technologies can play in strengthening the health system there is an equally important need to evaluate their contributing effects and ensure that such investments do not inappropriately divert resources from alternative, non-digital approaches. (p. 273)

The pandemic arising from COVID-19 has seen unprecedented demand from Australians for telehealth service consultations that utilize both telephone and video applications with medical and allied healthcare professionals resulting in a marked reduction of the traditional face-to-face doctor-patient interactions. It is anticipated that come post-pandemic that the preceding trend will likely remain as an accepted and well-entrenched part of the doctor-older patient consultation process. It is of course understood that while some older patients may choose to use telehealth consultations on a limited basis they may nevertheless prefer for a range of personal and health-based reasons to opt for regular face-to-face contact with healthcare professionals. Inglis and her colleagues (2010) report improved quality of life outcomes and reduced hospital admissions for people with chronic heart failure through the use of telephone support and counseling services.

While this section has examined the potential of partnering health literacy with digital technology for improving population health including the health of older adults it is important to recognize and understand that there are many pathways and approaches for relevant health information to reach people over the life course. It must be emphasized that digital type technologies must not be placed on a pedestal as a panacea to counter age-related health problems and concerns. Rather they represent a mechanism that is utilized in the right situations and circumstances and with appropriate support can be useful tools for assisting increasing numbers of people across all generations and ages to remain active, self-reliant, and committed to sustaining healthy lifestyles well into advanced old age. Perhaps in light of the exponential growth in technology and its implications for advancing health literacy a legitimate case be made for rethinking the nature of the learning process as explained by Senge (2007) in his Foreword to Theory U, a book on the Social Technology of Presencing in which he refers to the vision of the author, Otto Scharmer:

Virtually all well-known theories of learning focus on learning from the past: how we can learn from what has already happened. Though this type of learning is always important, it is not enough when we are moving into a future that differs profoundly from the past. Then a second, much less well-recognized type of learning must come into play. This is what Scharmer calls "learning from the future as it emerges". (p. xvi)

### The Policy Response: Selected Considerations

When any discussions and/or decisions are underway concerning policy-making and digital technologies it is important not to err on the side of assuming that the word technology is a synonym for innovation. Indeed, innovation should not be allied solely with new digital products alone. Rather, innovation should be seen in the first instance as a stand-alone concept that is associated with the development of new ideas, new approaches, new or modified applications including novel ways of thinking and behaving, that either alone or in a mix of configurations, can lead to the facilitation of action outcomes that may contribute or enhance the potential for improving some measure or aspect of human life (Eng, 2001). With the preceding viewpoint in mind, the challenge to improve health through health literacy for older people may find fertile ground for policymakers to look more closely at the opportunities and potentials for intervention arising from the growth of aging populations worldwide and the rapid advancement and growing acceptance of technological innovations per se. More than ever before policymakers are having to face a) the impact of life expectancy increases resulting from the demographic transition with concerns surrounding "primarily the capacity of older adults now and into the future to function independently" (Maddox, <u>1992</u>, p. 57) b) the dynamics surrounding the promotion of health and wellness of older people (Harper, 2019; Perrier, 2015) and c) the phenomenon of "structural lag" which concerns the mismatch between the way present-day older people are aging and the current social structures that influence both individual aging and population aging (Riley, 1992; Wilmoth & Longino, 2007). Loan et al. (2018) in support of patient engagement as a foundation of genuine health care emphasize that health literacy is a global priority warranting an innovative policy approach that incorporates a focus on "three domains-practice, systems of care, and partnerships-to minimize the gap between patient skills and abilities and the demands and complexities of health care systems" (p. 98). Indeed, there has to be acceptance of the fact that there exists across all sections of populations differential levels of mismatch between the demands associated with health literacy and the skills and competencies required to understand and apply healthrelated knowledge and information.

A timely perspective for policymakers concerned with enhancing health literacy is offered by Jean-François Mattei a French physician, philosopher, and professor of Greek Philosophy at the University of Nice "Prevention is not well understood, probably because its challenges are not well understood" (cited in <u>Michel et al., 2016</u>, p. 298). At the same time, the following message from the renowned economist John Maynard Keynes presents a challenge for key decision-makers who are often reluctant to embrace new ways of thinking and acting "The real difficulty lies not in developing new ideas, but in escaping from old ones" (cited in <u>Deveson, 2003</u>, p. 18).

Today many social structures are inadequately prepared to deal with and support the "rapid changes in the process of aging-changes in the strengths, as well as the numbers, of older people themselves. So far, these structures have largely failed to aid older people in developing or expressing their remarkable potential" (<u>Riley, 1992</u>, p. 29). In short, there are significant potentials for enhancing the health and well-being of older people for the 21st century. Policy initiatives to promote health literacy among a population need to include understandings of how both agency and structural dimensions impact the adoption or otherwise health-related lifestyles. <u>Cockerman (2005)</u> of emphasized the need for medical sociology to examine "the relative contributions of agency and structure in determining health lifestyles" (p. 51). Grenier and Phillipson (2014) provide an insightful discussion on the agency and structure debate and apart from suggesting that agency should be considered as operating on a continuum there is the important issue of applying more "attention to the importance of analyzing and addressing power relations where increasing marginalization and vulnerability are concerned" (p. 72). <u>Wilmoth and Longino (2007)</u> provide an important insight that warrants attention by policymakers "Simply responding to the projected increase in the older population is not an adequate approach for the thoughtful policymaker" (p. 5). Parker et al. (2003) see health literacy as "a policy issue at the intersection of health and education" (p. 147).

Denton and Kusch (2006) offer a cardinal rule concerning the formulation of a policy aimed at supporting the well-being of older people "To develop a policy to promote seniors" well-being, it is important to have a clear picture of the risks faced by seniors and to understand how these risks vary for different groups in society" (p. 4). The OECD (2017) in a report dealing with aging and inequality offers the following perspective "Preventing aging unequally requires a comprehensive policy approach to help individuals overcome disadvantages that could cumulate over their life course and result in bad health, low income, and poverty at old age" (p. 3). A valuable and coherent statement on policy design for an aging population is proposed by Graycar (2018) that should be noted by advocates for older people and policymakers assigned to develop policy-related initiatives to deal with societal shifts to predominantly aging populations:

In policy design, it is always important to distinguish a condition from a problem. Aging is a condition and is not necessarily a problem. One adapts one's lifestyle as one age, and conditions change. However, when there is great poverty, ill health, and dependency, these conditions change into problems, and policy design comes into play. Understanding for whom aging is a problem is fundamental (p. 64).

Focus issues for policymakers concerning aging and health literacy include but are not limited to the following areas:

- Recognize the diversity among family caregivers in terms of educational and socio-economic status including a) the trend that sees most caregiver education and information materials presented in a manner suitable only for a highly literate population of family caregivers (<u>Wittenberg, Goldsmith, Ferrel, & Ragan, 2017</u>) and b) the need for programs to inform caregivers of available networking opportunities to improve their mental and physical health knowledge for self-care as well as for their role as a family caregiver (<u>Petrovic & Gaggioli, 2020</u>).
- Create policies that recognize that many communitydwelling older people live alone, and have low literacy and numeracy skills. Recognition should be given to the potential for medication mismanagement and the likelihood for increased risk of adverse side effects resulting from polymerization (Ireland, 1996; Zedler, Kakad, Colilla, Murrelle, & Shah, 2011).
- 3. <u>Chinn (2014)</u> identifies a limited vision of health literacy as it relates to people with intellectual disabilities. <u>Geukes, Bröder, and Latteck (2019)</u> advocate for research actions to address the shortfall in understandings and applications surrounding health literacy as it applies to people with intellectual disability (see also <u>Geukes, Bruland, & Latteck, 2018</u>).
- 4. Development and implementation of continuing education and training for healthcare professionals that focus on advancing and strengthening health literacy in relation to managing their own physical and emotional health and well-being (Larsen et al., 2019).
- Need for policy development concerning advancing the promotion of healthy aging and health literacy within a life-course framework (<u>Clouston et al., 2017;</u> <u>Kuh, Cooper, et al., 2014; Kuh, Karunananthan, et al.,</u> <u>2014; Rowlands et al., 2019; Walker, 2018</u>).

Plath (2009) in an international examination of independence in old age argues that understanding independence as it relates to older people should be culturally sensitive, and as such, policymakers focusing on health and well-being in later life should note her concern for the promotion of independence as a policy principle "Provision of a range of services and resources for older people should be accompanied by adequate information and support for older people as they make decisions about services and manage the engagement and coordination of services. Many older people will require no assistance in this process; for others, the support will be vital" (p. 220). Formosa (2011) offers a promising strategy for the advancement of health literacy as it applies to older people that involves the adoption of practical policy commitments bv communities to actively "engage in a coordinated approach with seniors-groups, libraries, health promotion agencies, and health care providers, to increase the access and uptake of resources that improve health literacy. Resources may range from elearning to reading of books, magazines, and other health literature" (p. 210). Cross-country comparisons in terms of health literacy interventions can add to the variability of approaches and thereby assist in policy development and/or modification. Indeed, close attention to what pertains elsewhere about health literacy initiatives can provide valuable insights into novel and innovative interventions. The National Research Council (2001) provides ample material on the value-added potentials emanating from conducting cross-national research to prepare for an aging world. Peerson and Saunders (2009) offer the view "The development of health literacy policies will be facilitated by better evidence on the extent, patterns and impact of low health literacy, and what might be involved in improving it" (p. 285). Bonk (2016) provides a range of innovative health models for addressing the health needs of older people, and in so doing, presents a policy challenge for societies worldwide:

Overarching national aging frameworks, innovative policies, and public services across multiple sectors and a broader evidence-based will be required. Enabling and supporting aging populations to enjoy additional years of life in good health is a crucial consideration for policy development. (p. 20)

### Interpersonal Communication: A Key Aspect of Health Literacy

The importance of language and discourse in health systems with implications for health literacy is made clear by Savundranayagam, Ryan, and Hummert (2007) "Aged-biased communication tends to reduce opportunities to demonstrate competence and to contribute to satisfying conversations...Within health care interactions, poor communication can lead to inadequate diagnosing, inappropriate treatment, and reduced compliance with lifestyle, exercise, and (p. medication prescriptions" Developing 82). communication competencies of physicians and other health care professionals can assist in the creation and facilitation of health knowledge empowerment and lead to the subsequent adoption of positive behavioral practices by older people. Ryan, Meredith, MacLean, and Orange (1995) provide a clear and professionally oriented message for the medical and allied health fraternity "Good communication is an essential component of optimal delivery of health and health promotion efforts" (p. 89). The OECD (2017) in a report entitled "Preventing Ageing Unequally" makes the point that from global perspective access to health services is not the same for everyone "Access to health care may be prevented for several reasons related either to the functioning of the health care system itself (like the cost of a doctor visit or medical treatment, the distance to the closest health care facility, or waiting lists) or to personal reasons (like fear of not being understood by the doctor or not having the time to seek care)" (p. 42). Almost twenty years ago Katz (2002) in his ground-breaking text "The Silent World of Doctor and Patient" highlighted the importance of clear, supportive, and unambiguous communication

between medical doctors and their respective patients. message the preceding author was that "effective communication between physician and patient builds mutual trust and facilitates medical decision-making" (Tongue, Epps, & Forese, 2005, p. 656). Fineberg (2004) identifies a major communication flaw among health professionals "Arcane language and jargon that become second nature to doctors and nurses are inscrutable to many patients. Adults who have a problem understanding written materials are often ashamed and use methods to mask their difficulty" (p. ix). Belim and De Almeida (2018) emphasize the importance of sound communication competencies among healthcare professionals as being an indispensable component of patient health treatment. Speros (2009) makes a similar call for nurses to utilize clear communication skills along with the adoption of a person-centered approach when working with the highly diverse population of older adults

A case is made by Stocks et al. (2009) for general practice to be more active in tailoring health information to patients particularly for patients deemed to have limited health literacy. Chung and Prato-Lefkowitz (2015) maintain that nursing graduates need to be aware of patients who may be deemed to be "atrisk" of not fully understanding and acting upon health information. At the same time, Chung and Prato-Lefkowitz advocate for actions to promote effective communication competence skills among nurses "This effective communication will reduce hospital readmission rates, decrease health care costs, and help gap between patient-nurse-provider close the communications. Nurse educators have a responsibility to incorporate health literacy assessment, appropriate patient education interventions, and evaluation of understanding into nursing curricula" (p.12). Loan et al. (2018) in a similar vein call for nurses to play a more dominant role to enhance health literacy while drawing attention to the situation where "health literacy is not well understood by clinicians, rarely approached as a health care system issue and is not universally executed across health care domains" (p. 97). Understanding culturally-based health beliefs should be an essential component when designing innovative health strategies and health literacy approaches for culturally and linguistically diverse communities. Lai, Tang, Chappell, Lai, and Chau (2007) in a study of the relationship between culture and health status focusing on older Chinese in Canada concluded "Interventions to improve health should focus on strategies to enhance cultural compatibility between users and the health delivery system" (p. 171). More research is required to examine the communication experience of older people across all domains of the health care system. The editors Nielsen-Bohlman et al. (2004) in their watershed text "Health literacy: A Prescription to End Confusion" refer to the need for health literacy policy and interventions to be embedded within a cultural context due to the understanding and recognition that "Cultural health beliefs affect how people think and feel about their health and health problems, when and from whom they seek health care, and how they respond to recommendations for a lifestyle change, health-care interventions, and treatment adherence" (p. 109).

The challenge confronting policymakers and health professionals is to improve access to health information that is a) culturally inclusive and sensitive to individual needs and b) focused on supporting individuals and communities to confidently utilize the information as part of an empowerment process that fosters the improved application of health literacy leading to informed health decisions for everyday living. The promotion of health literacy must include the notion of health competency which is the ability to apply health literacy to manage the complex demands of modern-day health (Stocks et al., 2009). In promoting and motivating people to adopt healthy lifestyles the challenge for health professionals is to move beyond their "expertise" to be "enablers" to assist people to self-manage their health and well-being (Robinson, Newton, Jones, & Dawson, 2014). It must be fully understood that "The complex concept of health literacy acknowledges the need for assessing and addressing health literacy for every patient, every time, and in every health encounter; and ensuring patients know what they must do after all health care encounters to self-manage their health" (Loan et al., 2018, p. 98).

# Conclusion

With the world now experiencing rapid technological change there exists unprecedented challenges for policymakers including recognition that there will be some segments of society that experience difficulties to access, afford and indeed understand the relevance or otherwise of how technological innovation might impact their lives. It must also be recognized that the exponential introduction of technological innovations will serve to perpetuate inequalities as well as bringing to the fore a range of ethical questions surrounding inclusiveness and participation in mainstream society. A report by the OECD (2017) highlights the value of understanding the life course and how policy initiatives of the right kind can help to counter the risks associated with unequal aging. Bonk (2016) suggests that the time has come whereby "Societies need to develop a new understanding of aging and health and decisionmakers need to show their strong commitment" (p. 149). Hendricks and Powell (2009) provide an important reminder to policymakers, health professionals, and social justice advocates:

To comprehend the underpinning of certain forms of inequalities, it is also important to examine some of the transformations that are altering people's lives. One postmodern reality of the twenty-first century is the existence of a digital divide between those who have always known how to navigate keystroke technologies and those "ancients" who learned it later or not at all. (p. 10) Living in an imperfect world will mean of course that health literacy initiatives will not impact people equally or fairly. However, improvements in both access and utilization of health information and services by increasing numbers of people, young and old alike, will surely be seen as an important and positive step in transforming the journey into older age. Health literacy can of course be enhanced among the aged by improved communication practices between physicians, nurses, and allied health professionals and their older patients. This will also require respect for, and appreciation of the need to have both the medical, nursing, and allied health professions acquire "cultural competence" to deal with the language and cultural barriers that arise from the diverse number of immigrants entering counties from around the world (Chappell & Provident, 2020; Darawsheh, Chard, & Eklund, 2015; Stedman & Thomas, 2011; Tongue et al., 2005).

Paakkari and Okan (2020) in response to the COVID-19 pandemic highlight the urgent need for people to acquire the correct health information to adapt their respective health behaviors "The development of health literacy is even more topical than ever to prepare individuals for situations that require a rapid reaction. Above all, health literacy should be seen concerning social responsibility and solidarity and is needed from both people in need of information and services and the individuals who provide them and assure their accessibility for the general population" (pp. e249- e250). Okan et al. (2020) reporting on an online cross-sectional representative survey on COVID-19 in Germany found "Confusion about coronavirus information was significantly higher among those who had lower health literacy (p. 1). Armitage and Nellums (2020) point out that when older people are being encouraged to "self-isolate" for perhaps long periods, there must be recognition of the likely implications arising from a perceived sense of "enforced social disconnection" leading to risks for increased anxiety, depression and the overall decline in mental health. Failure of public policy to undertake concerted efforts to promote and advance health literacy and health competency among the diverse population of older people might well be interpreted as societal neglect involving ageism, discrimination, and maleficence. Laceulle (2014) provides an important reminder for key decision-makers to engage in critical reflection on existing social structures and their respective processes that have implications for the lived experiences of older people:

At the same time, the possibilities and the space to realize a "good life" and a "good old age" for oneself depend deeply on the opportunities and restrictions offered by the structural societal arrangements regarding aging over which individuals have very limited power of control". (p. 115) demonstrating that it is possible to improve health at every age, the challenge for individuals, communities, and societies worldwide are to plan and engage in positive health actions that can enhance the achievement of a healthy aging future (Loan et al., 2018; Michel et al., 2016; Stocks et al., 2009). A major developmental task of later life involves establishing a "mind-set" that balances the process of gains and losses that form the basis of the life world of older people (Featherman, 1992). Learning how to access and use health-related information and related services in the early and middle stages of the life course may engender a strong and positive developmental preparation for the tasks that will emerge in later life. The preceding viewpoint is supported by the Royal Commission into Aged Care Quality and Safety (2019) established on 8 October 2018 to inquire into the guality and safety of aged care in Australia:

"Maintaining a healthy, active lifestyle remains the strongest contributor towards healthy aging. Although this is a choice made by individuals, governments, community organizations and health professionals also play a crucial role in encouraging people to be as healthy as possible. This will be important in reducing the time people spend dependent on aged care services". (p. 99)

In the end, it is a frame of mind established and maintained through "deliberate intervention and training at earlier points in the life course" (Featherman, 1992, p. 163) that may offer beneficial health reserves to delay the onset of functional decline and ill-health in old age. For <u>Michel and his colleagues</u> (2016), "The "healthy aging" pathway corresponds to a lifelong process" (p. 298). The preceding viewpoint is supported by <u>Walker (2018)</u> who is a strong advocate for health policy to adopt a life-course focus "The life-course perspective is essential to recognize that chronic conditions and capabilities in later life are invariably the *outcomes* of earlier life social and economic status and exposure to risk factors" (p. 265).

Health literacy is both a humanity issue and a social justice issue, while at the same time unequivocally linked to human rights and citizen empowerment. The promotion of health literacy as a global movement will require a reinvention of the policy landscape within and across all societies. However, the introduction of new policy directions in each respective health system will need to circumvent differential levels of intransigence that have stymied progress towards the advancement of health literacy. It must be understood, however, that the options taken and implemented regarding health literacy will affect the future of "aging societies". Supporting pathways to healthy aging by building health literacy into an inclusive and life-course framework will necessarily introduce ethical issues and concerns relating to intergenerational equity and resource allocation (Summers & Smith, 2014). Notwithstanding the preceding implications and challenges there must

Accepting the fact that increasing research is remain in place a sustained and ethically based demonstrating that it is possible to improve health at commitment to ensure that no undertakings to advance every age, the challenge for individuals, communities, health literacy are initiated that directly or indirectly and societies worldwide are to plan and engage in undermine the proceeding stance articulated by the positive health actions that can enhance the <u>World Health Organization (2017)</u>:

The focus on "healthy aging" should not divert attention from other areas of care that are important for older people, including those in very advanced age, such as long- term care, prevention and management of disability in old age, an ageattuned, friendly health care environment and, once people reach the end of their lives, appropriate end-of-life care. (p. 12)

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# **Instructions to Authors**

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The quantitative, qualitative and mixed-method research approaches are welcome from disciplines including but not limited to education, gerontology, geriatrics, nursing, care and hospice, social work, psychology, sociology, biology, anthropology, economics and business administration, engineering, gerontechnology, law, human rights, public policy, architecture, women studies, rehabilitation, and dietetics.

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### **Vision and Mission**

The major goal of the *Journal of Aging and Long-Term Care (JALTC)* is to advance the scholarly contributions that address the theoretical, clinical and practical issues related to aging and long-term care. The *JALTC*, while making efforts to create care services for older people at the best quality available that are more humane, that pay special attention to people's dignity, aims from the perspective of the whole aging process- to discuss Social Care Insurance as a human right, to contribute care for older people to be transformed into an interdisciplinary field, to integrate care services for older people and gerontological concepts and to create more effective collaboration between them, to enhance the quality of care services for older people and the quality of life of caregivers from medical, psychological and sociological perspectives, to highlight the cultural factors in care for older people, to increase the potential of formal and informal care services, to provide wide and reachable gerontological education and training opportunities for caregivers, families and the older people.

## Aims and Scope

"National Association of Social and Applied Gerontology (NASAG)" has recently assumed responsibility for the planning and introduction of a new international journal, namely, the Journal of Aging and Long-Term Care (JALTC). With world societies facing rapid increases in their respective older populations, there is a need for new 21st century visions, practices, cultural sensitivities and evidenced-based policies that assist in balancing the tensions between informal and formal long-term care support and services as well as examining topics about aging.

The **JALTC** is being launched as the official journal of the **NASAG**. The preceding journal aims to foster new scholarship contributions that address theoretical, clinical and practical issues related to aging and long-term care. It is intended that the **JALTC** will be the first and foremost a multidisciplinary and interdisciplinary journal seeking to use research to build quality-based public policies for long-term health care for older people.

It is accepted that aging and long-term care is open to a diverse range of interpretations which in turn creates a differential set of implications for research, policy, and practice. As a consequence, the focus of the journal will be to include the full gamut of health, family, and social services that are available in the home and the wider community to assist those older people who have or are losing the capacity to fully care for themselves. The adoption of a broader view of aging and long-term care allows for a continuum of care support and service systems that include home base family and nursing care, respite day care centers, hospital and hospice care, residential care, and rehabilitation services. It is also crucial to be aware that life circumstances can change suddenly and dramatically resulting in the need for transitional care arrangements requiring responsive, available, accessible, affordable and flexible health care service provision.

For further assistance and more detailed information about the JALTC and the publishing process, please do not hesitate to contact Editor-in-Chief of the JALTC via sending an e-mail: editor-in-chief@jaltc.net **Editor-in-Chief:** Emre SENOL-DURAK





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