ePaper Bisnis: International Journal of Entrepreneurship and Management

E-ISSN: 3047-907X P-ISSN: 3047-9061

Factors Affecting the Working Hours of the Elderly in the Agricultural Sector in Buduk Village, Mengwi District

Ni Luh Gede Dyana Pandu Widjayanti^{1*}, Anak Agung Istri Ngurah Marhaeni²

- ¹⁻² Bachelor of Development Economics, Universitas Udayana, Indonesia Email: dhvanapanduwidjayanti09@gmail.com
- * Corresponding Author: Ni Luh Gede Dyana Pandu Widjayanti

Abstract The objectives of this study are: (1) to analyze the motivation of elderly individuals to remain employed in the agricultural sector; (2) to examine the simultaneous and partial effects of elderly health, work experience, age, and income outside the agricultural sector on the working hours of the elderly in agriculture; and (3) to analyze the moderating role of income outside the agricultural sector in the relationship between elderly health and the working hours of elderly individuals in the agricultural sector in Buduk Village, Mengwi District. This study employed a quantitative, associative approach conducted in Buduk Village, with a sample size of 100 elderly individuals aged 60 and above. The sampling method used was non-probability sampling, including accidental sampling, snowball sampling, and purposive sampling techniques. Data were collected through observation, structured interviews, and in-depth interviews. The data were analyzed using moderation regression analysis and processed with the assistance of SPSS software. The results of the study indicate that: (1) the primary motivation for elderly individuals to continue working is the absence of others to manage their agricultural land; (2) the variables of elderly health, work experience, and income outside the agricultural sector have a negative and significant effect on the working hours of the elderly in agriculture, while the age variable has a negative but insignificant effect; (3) income outside the agricultural sector serves as a pseudo-moderating variable in the relationship between elderly health and their working hours in the agricultural sector in Buduk Village. The implications of these findings highlight the need for policies that support improving the quality of life of the elderly and empowering them economically through alternative income sources that do not rely heavily on physical labor.

Keywords: Agricultural Sector; Elderly Population; Elderly Welfare; Elderly Working Hours.

Received: June 30, 2025 Revised: July 14, 2025 Accepted: July 28, 2025 Online Available: July 30, 2025 Curr. Ver.: July 30, 2025



Copyright: © 2025 by the authors. Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY SA) license (https://creativecommons.org/licenses/by-sa/4.0/)

1. Introduction

In the context of national development, the agricultural sector is expected to play a greater role in enabling farmers to determine the priority of agricultural commodities that serve as key ventures, especially in developing countries like Indonesia. An integrated farming enterprise is fundamentally aimed at increasing farmers' income to support their families and improve their overall welfare (Mubyarto, 1995).

The agricultural sector is one of the main providers of food for the population; thus, accelerating agricultural development plays a vital role in ensuring sufficient and affordable food for all segments of society. The Gross Regional Domestic Product (GRDP) serves as an indicator of a region's economic condition—this study highlights the economic development in Badung Regency, Bali Province. In the past three years (2021–2023), the economic structure of Badung Regency has remained dominated by six main categories: Transportation and Warehousing; Accommodation and Food Service Activities; Construction; Wholesale and Retail Trade, Repair of Motor Vehicles and Motorcycles; Information and Communication; and Agriculture, Forestry, and Fisheries (BPS, 2024).

In a sustainable agricultural system, farmers must utilize production factors efficiently and effectively to enhance their farming productivity. The number of agricultural households refers to households engaged in at least one type of agricultural activity, where

some or all of the output is intended for sale or exchange—especially in food crop farming, including those whose production is entirely for self-consumption (BPS, 2023). The highest number of households with members working as farmers is found in Mengwi District (Department of Agriculture and Food, Badung Regency, 2024), indicating that a significant portion of the population in this area still relies on agriculture as their primary livelihood.

Efforts to increase food crop production through extensification have become increasingly difficult. Although Mengwi District has the highest number of farming households, it is also experiencing significant land-use conversion. For three consecutive years, Mengwi District has recorded the highest rate of rice field conversion in Badung Regency (Department of Agriculture and Food, Badung Regency, 2024). Consequently, improving food crop production through production efficiency becomes a strategic alternative, allowing farmers to use production inputs optimally. Human resources are one of the most critical factors for increasing food crop production. Based on the *Mengwi District in Figures 2024*, the highest number of farmers is located in Buduk Village, with a total of 10,129 farmers—representing approximately 7.83% of the total population.

The lack of interest among younger generations in the agricultural sector has become a growing concern in many countries, including Indonesia. Several contributing factors include the perception that agriculture is unprofitable, the low income levels, and the view of agricultural work as outdated and labor-intensive. One of the main causes is the lack of awareness of the vast potential within the agricultural sector, such as agribusiness, agricultural technology, and non-traditional employment opportunities. According to Laurens Klerkx in the *Journal of Agricultural Education and Extension* (2019), there is a significant relationship between young people's understanding of agriculture and their interest in pursuing a career in the sector. The study reveals that increasing awareness of opportunities in agriculture—such as the application of advanced technologies and agribusiness—can enhance their engagement. Furthermore, better education and training on modern agricultural practices can attract younger generations. Due to the lack of productive-age human resources interested in agriculture and the abundance of available opportunities, the sector is now predominantly occupied by the elderly.

Since 2021, Indonesia has entered the phase of an ageing population, where approximately 1 in 10 individuals is categorized as elderly. This demographic trend can offer a second demographic dividend, in which a growing elderly population remains productive and contributes to the national economy (Heryanah, 2015). However, older adults can also pose developmental challenges if they are no longer productive and become part of the vulnerable population.

Data from the August 2024 National Labor Force Survey (Sakernas) show that more than half of the elderly population (55.32%) is still working. Approximately 3 in 5 elderly individuals (65.24%) in rural areas remain employed—a higher percentage compared to urban areas (48.55%). More than half of these older workers (52.19%) are employed in the agricultural sector, and about two-thirds (66.65%) are self-employed or assisted by paid or unpaid workers. Of those still working, 84.75% are in the informal sector, 75.21% are classified as vulnerable workers, and 18.66% are temporary workers. Moreover, 20.69% of elderly workers are reported to work more than 48 hours per week (excessive hours). This condition is further supported by improvements in elderly health, which contributes to the increase in Life Expectancy (LE).

Life Expectancy (LE) is one of the key indicators reflecting the health status of a population. An increase in LE suggests improvements in public health and longer life spans. Advancements in the health sector positively influence economic and other sectors (Takii et al., 2007). Badung Regency records the highest LE in Bali, which can be attributed to the continuously improving quality and availability of healthcare services. This progress in health services is positively correlated with higher life expectancy (Mantra, 2000:111). A significant impact of this trend is the high availability of elderly labor, particularly in agriculture. In Mengwi District, the population aged 60 and above reaches 6,635 people—comprising 3,249 males and 3,386 females—making it the district with the third-highest number of elderly individuals still actively working in the agricultural sector (BPS, 2024).

In general, the elderly begin to experience health problems and functional decline that may affect their well-being. Hence, the goal of elderly individuals in society today is not merely to avoid illness but also to maintain a good quality of life despite potential health issues or functional limitations (Meyer and Sullivan, 2003). According to Law No. 36 of 2009 on Health,

health care efforts for the elderly should aim to ensure they remain healthy and socially and economically productive.

Older adults also have basic needs that serve as a driving factor for their continued participation in the workforce. These needs are essential for ensuring their independence and are aligned with Maslow's hierarchy of needs (1970), which includes physiological needs, safety needs, belongingness and love needs, esteem needs, and self-actualization (Nurhidayah, 2012). To fulfill these needs, many elderly individuals seek emotional support and close relationships with family members, particularly their children.

Based on the aforementioned explanation, this study aims to analyze in depth the factors influencing the working hours of the elderly in the agricultural sector in Buduk Village, Mengwi District. Not all elderly individuals share the same health status, work experience, age, and income outside of agriculture, which may result in varying levels of labor input. Therefore, objectives this study (1) the motivation of elderly individuals to remain active in the agricultural sector; (2) the simultaneous influence of elderly health, work experience, age, and income outside the agricultural sector on the working hours of elderly agricultural (3) the partial effect of elderly health, work experience, age, and income outside the agricultural working hours of elderly agricultural sector workers: (4) the moderating role of income outside the agricultural sector in the relationship between elderly health and their working hours in agriculture in Buduk Village, Mengwi District.

2. Method

This study employed a quantitative and associative research approach. The quantitative method was used because the data collected were in numerical form and analyzed using statistical techniques. As such, this study falls under the category of quantitative research. Sampling was conducted by selecting an equal number of respondents from each *banjar* (traditional village unit), with 10 respondents per *banjar*, resulting in a total of 100 respondents. The research was conducted in Buduk Village, Mengwi District, and data were collected through observation, structured interviews, and in-depth interviews. The analytical technique used was moderated regression analysis, chosen on the basis that a moderating variable may either strengthen or weaken the relationship between the independent and dependent variables.

3. Results And Discussion

Results of Data Analysis on Motivation of the Elderly to Continue Working in the Agricultural Sector

This description is to clarify the motivation of the elderly in maintaining their role in the agricultural sector. Data collection has been carried out through observation, structured interviews and in-depth interviews and analyzing data on a number of elderly respondents aged 60 years and over who are still actively working in the agricultural sector.

Table 1. Results of Analysis of Elderly Motivation to Continue Working

No.	Information	Percentage
1	No one manages the farmland	64.0
2	To meet daily needs	34.0
3	Supporting children/grandchildren	1.0
4	Continuing the Family Business	1.0
Amoı	ınt	100.0

Based on Table. 1, the main motivation for the elderly to continue working in the agricultural sector is because there are no other parties to manage the land with a percentage of 64 percent. This shows that the sustainability of agricultural land management still depends heavily on the role of the elderly. In addition, daily economic needs are also a significant factor with a percentage of 34 percent. Other reasons such as financing children/grandchildren and

continuing the family business were only recorded at 1 percent each, indicating that the motivation of the elderly is more practical than sentimental or inheriting the business.

This answer is in line with the results of research conducted by Nurfitriani et al. (2021) which states that some elderly farm laborers still have small plots of land that they use to grow food crops such as vegetables, tubers and even horticultural crops such as chilies. This land utilization is one way for elderly farm laborers to overcome their food needs when they are in difficult conditions, such as having no work. Nurfitriani et. al (2021) in their research stated that the elderly work to remain independent. Their intrinsic motivation includes a reluctance to depend on others (children/grandchildren). This is in line with the finding that they will continue to manage their own land if no one takes care of it.

Results of Data Analysis Using Simultaneous Regression Coefficient Significance Test (F Test)

TT 11 00' 1	n .	C CC	C C	T	
Table. 2 Simultaneous	Regression	Coefficient	Significance	Lest	H Lest)
Tubic: 2 difficulture out	regression	Cocinciciii	digililicance	1000	1 1000

ANOVA							
Model		Sum of	df	Mean	F	Sig.	
		Squares		Square			
1	Regressio	17292.911	5	3458.582	66,239	.000b	
	n						
	Residual	4908.079	94	52,214			
	Total	22200.990	99				

Based on Table. 2 above shows the Sig. value of 0.000 < 0.05. Therefore, it can be concluded that the variables (Elderly Health), (Work Experience), (Age), M (Income Outside Agriculture) simultaneously affect Y (Work Hours). $X_1X_2X_3$

This simultaneous influence is very important in understanding the factors that influence respondents' work behavior, because although one variable may have a relatively small influence individually, when combined, the four variables form a significant pattern in influencing the dependent variable. This finding is in line with the results of research conducted by Putri and Santoso (2018) which stated that the health of the elderly plays an important role in determining work productivity because healthy physical conditions allow them to work longer and more optimally. In addition, research by Haruyama et. al (2020) revealed that having work experience in agriculture requires a shorter duration of dependency than those who do not, while also showing benefits for active lifestyles and mental health.

Widiyanto and Hartono's (2019) research also supports these results by finding that age contributes to a person's ability to manage working hours, where older workers tend to adjust working hours based on their physical condition and experience. In addition, non-agricultural income as a supporting variable also affects the allocation of working time, as explained by Kusuma (2020) who stated that additional income can motivate the elderly to manage working hours in order to meet economic needs.

Results of Data Analysis Using Partial Regression Coefficient Significance Test (t-Test) and Moderated Regression Test

Table. 3 Significance Test of Partial Regression Coefficient (t-Test) and Moderation Regression Test

Coefficientsa							
Model		Unstandardized		Standardiz	t	Sig.	
		Coefficients		ed			
				Coefficien			
				ts			
		В	Std.	Beta			
			Error				
1	(Constant)	67,457	9,516		7,088	.000	
	X1 (Elderly	-1,792	.180	574	-9.943	.000	
	Health/Three						
	Months)						

	X2 (Work	176	.052	181	-3.416	.001
	Experience/Year					
)					
	X3 (Age/Years)	064	.144	023	446	.656
	M (Off-Farm	-6.584E-	.000	767	-6.106	.000
	Income/Month)	6				
	X1*M	1.475E-7	.000	.906	7,322	.000
a. Dependent Variable: Y (Elderly Working Hours/Week)						

Regression equation:

```
Y = \alpha + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 M + \beta_5 X_1 M + e
\widehat{Y} = 67,457 - 1,792 X_1 - 0,176 X_2 - 0,064 X_3 - 6,584 M + 1,475 X_1 M
Std.err = (1,513) (0,027) (0,297) (0,128) (0,002) (0,022)
t = (20,405) (-4,329) (-0,763) (-3,396) (2,806) (0,332)
Sig = (0,000) (0,000) (0,447) (0,001) (0,006) (0,741)
```

Based on Table 3 above, variable X₁ (Elderly Health) has a significance value of 0.000 < 0.05. This indicates that variable X₁ (Elderly Health) has a negative and significant effect on Y (Working Hours). In other words, the worse the health condition of the elderly, the fewer hours they can dedicate to work per week. This finding is consistent with the study by Putri and Santoso (2018), which found that elderly physical health plays a crucial role in determining productivity and working hours, where good health supports increased work capability.

Variable X_2 (Work Experience) has a significance value of 0.001 < 0.05. Based on this result, it can be concluded that variable X_2 (Work Experience) has a negative and significant effect on Y (Working Hours). This aligns with the findings of Haruyama et al. (2020), who stated that having work experience in agriculture requires a shorter adaptation period than for those without experience, while also demonstrating benefits for maintaining an active lifestyle and mental well-being.

Variable X₃ (Age) has a significance value of 0.656 > 0.05. Therefore, it can be concluded that variable X₃ (Age) has a negative but insignificant effect on Y (Working Hours). This is consistent with the findings of Widiyanto and Hartono (2019), who argued that age is not always the primary factor in determining the number of working hours. Instead, health condition and work experience play more dominant roles.

Variable M (Income Outside the Agricultural Sector) has a significance value of 0.000 < 0.05. This indicates that M (Income Outside Agriculture) has a negative and significant effect on Y (Working Hours). The findings of Kusuma (2020) support this result, stating that alternative income enables elderly individuals to reduce their working hours in accordance with their needs and physical condition.

Overall, the variables of elderly health, work experience, and income outside agriculture have a negative and significant influence on weekly working hours, while age does not have a significant effect.

The interaction variable X_1*M has a significance value of 0.000 < 0.05 and a coefficient of 1.475E-7 or 0.00000014575. Based on this result, it can be concluded that income outside the agricultural sector acts as a quasi-moderating variable, meaning it moderates the relationship between the independent and dependent variables while also serving as an independent variable (Suyana, 2016). If β_1 is negative (significant or not) and β_3 is positive and significant, then M functions as a moderating variable that weakens the effect of X_1 on Y (Suyana, 2016).

The positive coefficient of the interaction variable X1*M, amounting to 1.475E-7, can be interpreted as follows: as income outside the agricultural sector increases, the influence of health on the elderly's working hours diminishes. This means that the effect of elderly health on working hours is weakened. These results are supported by Che Mata et al. (2020), who stated that income from outside the agricultural sector affects the welfare of farming households. Their findings indicate that non-farm income reduces dependence on agricultural work; as non-agricultural income increases, dependence on agricultural working hours decreases.

4. Conclusion

- a. The motivation of elderly individuals to continue working in agriculture is driven by both internal and external factors. In-depth interviews revealed that the most dominant motivation, expressed by 64 percent of respondents, was the absence of other individuals to manage their agricultural land. This indicates a strong sense of responsibility among the elderly toward land ownership and the sustainability of inherited resources. Additionally, 34 percent of respondents reported that they work to meet daily needs, suggesting that agriculture remains a primary source of livelihood for many elderly individuals. A smaller portion, 2 percent, stated that they continue working to carry on family businesses such as rice milling or agricultural produce collection—ventures that have long existed and become part of their family identity.
- b. The results of multiple linear regression analysis indicate that the four independent variables—elderly health (X1), work experience (X2), age (X3), and income outside the agricultural sector (M)—simultaneously have a significant effect on the dependent variable, namely the weekly working hours of the elderly (Y). The obtained significance value of 0.000 < 0.05 suggests that these variables collectively explain the variation in elderly working hours per week. This finding confirms that elderly working hours are influenced not only by physical condition but also by experience, age, and additional income.
- c. Partially, the analysis reveals that three out of the four independent variables have a significant effect on elderly working hours:
 - o Elderly health has a negative and significant effect (sig. 0.000 < 0.05), indicating that poorer health conditions lead to fewer working hours. This demonstrates that elderly productivity is highly dependent on physical condition.
 - Work experience also shows a negative and significant effect (sig. 0.001 < 0.05), implying that more experienced elderly workers are better at managing their time and workload, often reducing working hours due to improved efficiency.
 - o Income outside agriculture has a negative and significant effect (sig. 0.000 < 0.05), meaning that higher additional income from non-agricultural sources leads to reduced working hours in agriculture. Elderly individuals tend to spend less time farming because they already have alternative income sources.
 - Meanwhile, the age variable has a negative but insignificant effect (sig. 0.656 > 0.05), suggesting that age alone is not a primary determinant of working hours.
 Instead, factors such as health and personal motivation play more crucial roles.
- d. Income outside the agricultural sector is proven to moderate the relationship between health and elderly working hours. The interaction variable between health and income outside agriculture has a significance value of 0.000, with a very small positive coefficient (1.475E-7), indicating that income serves as a quasi-moderator. In other words, when elderly individuals have additional income from outside agriculture, the negative impact of declining health on working hours is reduced. They are still able to meet their living needs despite working fewer hours due to physical limitations. This strengthens the argument that diversifying income sources is a vital strategy for elderly individuals to maintain a dignified and sustainable livelihood.

References

- [1]. A I. N. Marhaeni and N. N. Yuliarmi, Metode Riset, Jilid 1. Denpasar: CV. Sastra Utama, 2019.
- [2]. B Bakker and D. Xanthopoulou, "Job resources boost work engagement, particularly when job demands are high," Journal of Educational Psychology, vol. 105, no. 2, pp. 369-380, 2013.
- [3]. H. Maslow, Motivasi dan Kepribadian. Jakarta: PT. Pustaka Binaman Pressindo, 2007.
- [4]. Mason and S. H. Lee, Economic Progress in Asia, 2011.
- [5]. Putri and D. Santoso, "Kesehatan Fisik dan Produktivitas Kerja Lansia di Wilayah Perkotaan," Jurnal Kesehatan Masyarakat, vol. 12, no. 1, pp. 45-58, 2018.
- [6]. R. Naftali, Y. Y. Ranimpi, and M. A. Anwar, "Kesehatan Spiritual dan Kesiapan Lansia Menghadapi Kematian," E-Jurnal Studi Ilmu Keperawatan, Universitas Kristen Satya Wacana, 2017.
- [7]. R. Nurmanaf, Peranan Sektor Luar Pertanian Terhadap Kesempatan Kerja dan Pendapatan di Pedesaan. Pusat Analisis Sosial Ekonomi dan Kebijakan Pertanian, Badan Litbang, Departemen Pertanian, 2004.
- [8]. Ropponen, "Health behaviours and psychosocial working conditions as predictors of disability pension due to different diagnoses: A population-based study," 2020.
- [9]. Samorodov, Ageing and Labour Market for Older Workers, Employment and Training Paper. ILO, 1999.

- [10]. Suryanto, "Variabel-Variabel yang Memengaruhi Lansia Bekerja Penuh Waktu di Indonesia Tahun 2020," Politeknik Statistika STIS, 2020.
- [11]. D. Meyer and J. X. Sullivan, "Measuring the Well-Being of Poor Using Income and Consumption," The Journal of Human Resources, vol. 38, pp. 1180-1220, 2003.
- [12]. Teater and J. Chonody, "Actively Aging and Social Work Practice," in Social Work Practice with Adults, pp. 55-77, 2017.
- [13]. Badan Pusat Statistik Kabupaten Badung, Mengwi Dalam Angka 2024. Badung: BPS, 2024.
- [14]. Badan Pusat Statistik Provinsi Bali, Usia Harapan Hidup Provinsi Bali Menurut Kabupaten/Kota dan Jenis Kelamin (Tahun), 2021-2023. Denpasar: BPS, 2023.
- [15]. Biro Hukum dan Humas BPKP, Peraturan Pemerintah Republik Indonesia Nomor 43 Tahun 2004 tentang Pelaksanaan Upaya Peningkatan Kesejahteraan Sosial Lanjut Usia, 2004.
- [16]. Göbel and T. Zwick, "Which Personnel Measures are Effective in Increasing Productivity of Old Workers?," 2022.
- [17]. P. Sarafino, Health Psychology: Biopsychosocial Interactions, 4th ed. New Jersey: HN Wiley, 2002.
- [18]. Sugiharto, "Tingkat Kesejahteraan Masyarakat Nelayan Desa Benua Baru Ilir," Jurnal Sosial Ekonomi Perikanan EPP, vol. 4, no. 2, pp. 32-36, 2007.
- [19]. E. Widiastuti, "Faktor-Faktor yang Mempengaruhi Keputusan Lansia untuk Bekerja di DIY," Jurnal Ilmu Sosial dan Humaniora, vol. 9, no. 3, pp. 205-214, 2020.
- [20]. Yusup, "Uji Validitas dan Reliabilitas Instrumen Penelitian Kuantitatif," Jurnal Tarbiyah: Jurnal Ilmiah Kependidikan, vol. 7, no. 1, pp. 17-23, 2018.
- [21]. E. Wenas, H. Opod, and P. Cicilia, "Hubungan Kebahagiaan dan Status Sosial Ekonomi Keluarga di Kelurahan Artembaga II Kota Bitung," Jurnal E-Biomedik (EBm), vol. 3, no. 1, pp. 532-538, 2015.
- [22]. Global Age Watch Index: Insight Report, 2015.
- [23]. Zhang, J. Li, and T. Quan, "Strengthening or Weakening: The Impact of an Aging Rural Workforce on Agricultural Economic Resilience in China," Agriculture, vol. 13, no. 7, p. 1436, 2023.
 A. N. Alista and M. S. Utama, "Pengaruh Modal, Jam Kerja, dan Penggunaan Ojek Online terhadap Pendapatan Usaha Bidang Kuliner di Kota Denpasar," E-Jurnal Ekonomi dan Bisnis Universitas Udayana, 2022.
 Mantra, Demografi Umum. Yogyakarta: Pustaka Pelajar, 2000.
- [24]. G. L. Bahari and I. K. Sudibia, "Analisis Faktor-Faktor yang Mempengaruhi Tingkat Kesejahteraan Lansia di Kecamatan Karangasem," E-Jurnal Ekonomi dan Bisnis Universitas Udayana, vol. 10, no. 2, pp. 627-657, 2021.
- [25]. G. N. N. K. Wijaya and S. Arka, "Analisis Efisiensi Penggunaan Input Produksi Usaha Tani Padi di Kecamatan Mengwi," E-Jurnal Ekonomi dan Bisnis Universitas Udayana, 2023.
- [26]. Ghozali, Aplikasi Analisis Multivariate dengan Program IBM SPSS 25. Semarang: Badan Penerbit Universitas Diponegoro, 2018.
- [27]. Ghozali, Aplikasi Analisis Multivariate dengan Program SPSS. Semarang: Badan Penerbit Universitas Diponegoro, 2011.
- [28]. T. Lindblad, "Survey of Recent Developments," Bulletin of Indonesian Economic Studies, vol. 33, no. 3, pp. 13-34, 1997.
- [29]. Christensen, G. Doblhammer, R. Rau, and J. W. Vaupel, "Ageing Populations: The challenges ahead," The Lancet, vol. 374, no. 9696, pp. 1196-1208, 2009.
- [30]. K. Haruyama, H. Yokomichi, and Z. Yamagata, "Farm working experience could reduce late-life dependency duration among Japanese older adults: The Yamanashi Healthy-Active Life Expectancy cohort study," 2020.
- [31]. K. Nurhidayah, "Pengaruh Senam Rematik terhadap Aktivitas Fungsional Lansia," Jurnal Publikasi, FIK UMS, Surakarta, 2012.
- [32]. Kementerian Kesehatan RI, Profil Kesehatan Indonesia Tahun 2014. Jakarta: Kemenkes, 2014.
- [33]. Kuntjoro, Manajemen Sumber Daya Manusia. Jakarta: Rajawali, 2002. Lestari, "Pengaruh Penerimaan Diri pada Kondisi Pensiun dan Dukungan Sosial terhadap Kecemasan Menghadapi Masa Pensiun," Jurnal Psikologi Udayana, vol. 5, no. 2, 2016.
- [34]. P. Todaro and S. C. Smith, Pembangunan Ekonomi, 9th ed. Jakarta: Erlangga, 2006.
- [35]. M. Suyana Utama, Aplikasi Analisis Kuantitatif. Denpasar: FEB Universitas Udayana, CV. Sastra Utama, 2016.
- [36]. M. V. Leonesio, B. Bridges, R. Gesumaria, and L. Del Bene, "The Increasing Labor Force Participation of Older Workers and Its Effect on The Income of The Aged," Social Security Bulletin, vol. 72, no. 1, 2012.
- [37]. P. P. Oktarina and P. A. P. Purwanti, "Analisis Faktor-Faktor yang Mempengaruhi Curahan Jam Kerja dan Pendapatan Pedagang Perempuan Hindu di Pasar Badung," E-Jurnal Ekonomi dan Bisnis Universitas Udayana, 2021.
- [38]. McDonald, "The Demography of Indonesia in Comparative Perspective," Bulletin of Indonesian Economic Studies, vol. 50, no. 1, pp. 29-52, 2014.
- [39]. Santoso, A. T. Naukoko, A. T. Londa, et al., "Analisis Faktor yang Mempengaruhi Pendapatan Penduduk Miskin di Kecamatan Gemeh," Jurnal Efisiensi, vol. 18, no. 6, pp. 34-44, 2018.
- [40]. P. Yuniarti, "Analisis Faktor-Faktor yang Mempengaruhi Pendapatan Pedagang di Pasar Tradisional Cinere Depok," Jurnal Sekretari dan Manajemen, vol. 3, no. 1, pp. 165-170, 2019.
- [41]. Pemerintah Indonesia, Undang-Undang Republik Indonesia Nomor 13 Tahun 1998 tentang Kesejahteraan Lanjut Usia. Jakarta: Pemerintah RI, 1998.

- [42]. G. Sudarmanto, Analisis Regresi Linier Ganda dengan SPSS. Yogyakarta: Ghalia Ilmu, 2005.
- [43]. Junaidi, A. Kurniawan, and D. Susanti, "Pengaruh Faktor Sosial Ekonomi terhadap Partisipasi Kerja Lansia di Pedesaan Provinsi Jambi," Jurnal Ekonomi dan Pembangunan, vol. 20, no. 1, pp. 45-56, 2022.
- [44]. R. Kusuma, "Peran Pendapatan Alternatif dalam Menentukan Jam Kerja Lansia: Studi pada Sektor Informal di Jawa Tengah," Jurnal Ekonomi Kerakyatan, vol. 15, no. 2, pp. 101-115, 2020.
- [45]. Eshkoor, T. A. Hamid, C. Y. Mun, and Z. Shahar, "An Investigation on Predictors of Life Satisfaction Among the Elderly," International E-Journal of Advances in Social Sciences, vol. 1, no. 2, pp. 2017-2212, 2015.
- [46]. S. H. Che Mata, A. Z. Abdul Jalil, and M. Harun, "Does Non-Farm Income Improve Poverty and Income Inequality Among Agricultural Households in Rural Kedah?," 2020.
- [47]. S. M. Adioetomo and O. B. Samosir, Dasar-dasar Demografi, 2nd ed. Jakarta: Penerbit Salemba Empat, 2010.
- [48]. S. N. Kholifah and W. Widagdo, Keperawatan Keluarga dan Komunitas. Jakarta Selatan: Kementerian Kesehatan RI, 2016.
- [49]. S. Nurhidayah and R. Agustini, "Kebahagiaan Lansia Ditinjau dari Dukungan Sosial dan Spiritualitas," Jurnal Soul, vol. 5, no. 2, pp. 16-32, 2012.
- [50]. S. Takii and E. D. Ramstetter, "Survey of Recent Developments," Bulletin of Indonesian Economic Studies, vol. 43, no. 3, pp. 295-322, 2007.
- [51]. S. Tamher and Noorkasiani, Kesehatan Usia Lanjut dengan Pendekatan Asuhan Keperawatan. Jakarta: Salemba Medika, 2009.
- [52]. Sugiyono, Memahami Penelitian Kualitatif. Bandung: Alfabeta, 2012.
- [53]. Sugiyono, Metode Penelitian Kuantitatif, Kualitatif, dan R&D. Bandung: Alfabeta, 2017.
- [54]. Ndlovu, M. Funa, W. Zikhali, and C. Mabhena, "Farmer participation: A drive towards sustainable agricultural production in Makwe irrigation scheme, Zimbabwe," Global Agricultural Education and Extension, vol. 3, pp. 308-320, 2019.
- [55]. T. Utari and N. P. M. Dewi, "Pengaruh Modal, Pendidikan, dan Teknologi terhadap Pendapatan UMKM di Kawasan Imam Bonjol Denpasar Barat," E-Jurnal Ekonomi dan Bisnis Universitas Udayana, vol. 3, no. 12, pp. 576-585, 2014.
- [56]. Ascroft and D. Cavanough, "Survey of Recent Developments," Bulletin of Indonesian Economic Studies, vol. 44, no. 3, pp. 335-363, 2008.
- [57]. Yuniarti and N. E. N. Wianti, "Analisis Faktor-Faktor yang Mempengaruhi Tingkat Pertumbuhan Ekonomi di Indonesia," Jurnal LPMP Imperium, vol. 2, no. 3, pp. 169-176, 2020.
- [58]. WHO, Global Health and Ageing. National Institute on Ageing and National Institutes of Health, WHO, 2011.
- [59]. Widiastuti, "Evaluasi Efektivitas Kelambu Berinsektisida pada Daerah Endemis Malaria di Desa Kaligono," Tesis S2, Universitas Gadjah Mada, 2018.