


Effects of Wisdom on Mental Health in Old Age: Exploring the Pathways Through Developmental Tasks Attainment and Self-Rated Health

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Purpose: A number of studies indicate a relationship between wisdom and mental health in older adults, which can be explained by different pathways. However, the role of developmental task accomplishment, and of self-rated health in the relationships between wisdom and mental health in later life remain unclear. The aim of the current study is to explore the structure of the relationships between wisdom, developmental task attainment, self-rated health, and positive and negative mental health outcomes (viz. wellbeing and depressive symptoms) in older adults.

Methods: The study included 381 Polish older adults aged 60–86 ($M = 67.33$; $SD = 5.08$). The respondents completed the Personal Wellbeing Index, Geriatric Depression Scale, Three-Dimensional Wisdom Scale, Developmental Tasks Attainment Questionnaire for Seniors, self-rated health scale and sociodemographic survey.

Results: Three-dimensional wisdom, developmental task attainment and self-rated health scores were positive predictors of personal wellbeing and negative predictors of depressive symptoms in older adults. Structural equation modelling revealed that developmental tasks attainment and self-rated health partially mediated the relations between wisdom and mental health in older adults.

Conclusion: It can be assumed that wise older adults implement developmental tasks more efficiently and assess their subjective health more favorably, which may strengthen their personal wellbeing and prevent depression. The findings suggest that wisdom plays an important role in healthy aging.

Keywords: mental health, wisdom, developmental tasks, depression, wellbeing, older adults, healthy aging

Introduction

Due to the growing number of older adults in all societies, caused by aging populations and the rise of longevity, promoting healthy aging is now a significant task. The World Health Organization (WHO), in its World Report on Aging and Health, proposes a person-centered concept of “healthy aging”, defined as more than just the absence of disease, but one that encourages the development and maintenance of functional ability that supports well-being in late-life period.¹ Each individual has their own “intrinsic capacity”, resulting from the complex interaction between their genetic, personal, and health characteristics, which affects “healthy aging”. Certain elements, such as persistent physical ailments, may be difficult to alter, whereas other factors, particularly psychological ones, may be more susceptible to modification. Psychosocial models exploring the factors determining healthy aging pay special attention to self-rated general health, health behavior, personal and social resources and mental health.^{2–10}

Wisdom and Mental Health

The field of mental health has recently experienced a growth in interest concerning wisdom, which stems from the longstanding association between wisdom and healthy and successful aging.^{11–13} One of the most popular models of wisdom is the Three-Dimensional Wisdom Model, comprised of a fusion of cognitive, reflective and compassionate personality traits which are indicative of subjective well-being.¹⁴ Cognitive wisdom involves understanding oneself,

others, and life's meaning. Reflective wisdom promotes self-examination and multiple perspectives. Compassionate wisdom entails empathy and care for others. Together, these dimensions can be evaluated using a three-dimensional wisdom scale by Ardelt¹⁴, which was employed in the current study. Many studies suggest that wisdom is linked to positive mental health outcomes, such as subjective well-being, happiness, psychological resilience, general positive affect and satisfaction with life in old age.^{14–19} Wisdom also may prevent negative mental health outcomes like depressive symptoms,^{14,20,21} but also death avoidance, and fear of death in late life,¹⁴ social alienation, loneliness,²⁰ negative affect¹⁸ and psychopathological symptoms.²² Wisdom possesses a unique capacity to aid decision-making, interpersonal interactions, and daily tasks among older individuals. Consequently, wisdom may exhibit an inverse association with psychopathological symptoms, serving as a preventive and therapeutic factor for mental well-being.²²

According to Weststrate and Glück (2017b), the relationship between wisdom and well-being can be attributed to the coping skills and expertise of wise individuals, their ability to benefit themselves and others, and their capacity to appreciate and savor what they have. However, to date, limited studies have attempted to empirically explain why it is that wise individuals report enhanced well-being and fewer depressive symptoms. A few studies have used a structural modeling approach and mediational analyses to explore e.g. mastery and purpose in life,²³ resilience and perceived stress,¹⁹ and the sense of meaning and perceived control.¹⁸ Wisdom appears to bolster other personal resources in the later stages of life, enabling older adults to maintain a sense of well-being despite the challenges and losses associated with aging.

Wisdom and Developmental Task Attainment

A person with greater wisdom would be able to effectively manage and adapt to stressful life circumstances, typical of the last phase of life; furthermore, wise people learn from negative life experiences, providing greater insight, and are better prepared to future obstacles, accepting the unpredictability of life.²⁴ Therefore, wisdom is suggested to be linked to a positive result of personal development in late life and encompasses a range of psychosocial strengths that enable older adults to effectively adjust to the challenges of later life. Those challenges can be considered as developmental tasks, which individuals of a specific age must face. In late life, confronting those challenges may have significant impacts on healthy aging and the progression of typical development and its consequences.^{25–27} Havinghurst^{28,29} identifies common developmental tasks encountered by individuals over 60. These include adjusting to declining physical strength, retirement, reduced financial resources, coping with the loss of friends and a partner, sustaining interpersonal bonds within the same age cohort, accepting and adapting to evolving social roles, and making appropriate housing arrangements to promote physical well-being. In Erikson's theory of psychosocial development across the lifespan, he underscores the developmental crisis of integrity versus despair that occurs in late adulthood.³⁰ During this stage, individuals are expected to reflect on their lives and find a sense of meaning and purpose. They should be capable of justifying the significance of their life and reconciling with the choices they have made, while also accepting the possibilities and paths they did not pursue. Wisdom, as considered by Erikson³¹ as “detached concern with life itself in the face of death itself” is connected to the resolution of that last crisis, integrity versus despair.

The key developmental tasks aside from the sociocultural context seem to be universal challenges in old age, such as reflecting on one's life and accepting it as it is, adapting to aging-related changes, and ultimately coming to terms with the reality of losing friends, relatives, and the inevitability of one's own mortality.²⁵

Wisdom may strengthen the capacity to manage and adjust to losses associated with the aging process and might also facilitate selection, optimization, and compensation (SOC), which enables older adults to take control of their surroundings.^{32,33} Wisdom also seems to offer individuals the necessary resources to effectively deal with difficult situations, minimize distress, buffer the negative impact of adversity on well-being in old age and uphold a state of well-being during times of crisis and hardship.^{32,34,35} Wisdom becomes especially significant for well-being in the later stages of life when confronting the abovementioned tasks.³⁶ Critical life events connected with loss and stress in late life, are a threat to well-being, but also constrain the person to adapt to new circumstances, and develop new roles and lifestyles, which can positively contribute to their mental health.^{37–41} The accomplishment of positive developmental tasks in late life is related to higher life satisfaction⁴² and lower depressive symptoms.⁴³ Personal resources may also strengthen wellbeing through developmental tasks attainment.⁴² Therefore, it may be assumed that wiser older adults may attain developmental tasks more effectively, to enhance wellbeing; however, no research has focused strictly on this issue until now.

Wisdom and Self-Rated Health

Moreover, wiser individuals, owing to their deep understanding of life, tend to embrace its unpredictability and uncertainties with equanimity.²³ This mindset is likely to decrease stress, leading not only to improved subjective well-being but also to the promotion of physical health. Additionally, wiser older adults may demonstrate better self-care by being mindful of the impact of their behaviors on their self-assessed health. Consequently, they are more likely to avoid detrimental habits like smoking and excessive drinking, while engaging in health-promoting activities such as regular exercise, practicing mental relaxation techniques, and maintaining a balanced diet.

Self-rated health (SRH) appears to be a simple and appropriate method to measure a comprehensive and overall objective health status. When individuals are asked to assess their SRH, they have the autonomy to determine which factors they consider relevant,⁴⁴ making it an inclusive and personalized method for assessing healthy aging. Numerous empirical studies conducted on diverse older adult populations have consistently shown that among older adults, self-assessment of health is a robust predictor of future morbidity and mortality, as it correlates with various objective health outcomes.^{45–49} The predictive significance of self-rated health remains remarkably strong across various samples, and single-item measures of SRH offer clinically relevant information about health status, surpassing traditional objective health indicators.⁵⁰ Moreover, the outcomes derived from different measurement approaches yield comparable evaluations of subjective health.⁵¹

Previous research has indeed identified a positive relationships between wisdom and self-rated health.^{13,14,52} Low self-rated health is also negatively related to life satisfaction^{53–57} and higher numbers of depressive symptoms in old age.^{58–61} It must be also noted, though, that the relation between variables may also be bidirectional: people who are more satisfied with their lives and less depressed report better self-rated health.^{9,62–64} The mediational role of subjective health in the relation between wisdom and mental health outcomes has not yet been investigated.

Mental Health in Older Adults

Mental health in older adults is often assessed according to both positive (wellbeing and life satisfaction) and negative outcomes (depression and dementia),⁶⁵ which may be affected by different pathways.^{66,67} Subjective well-being can be characterized as the extent to which individuals assess or perceive the quality of their own lives. Life satisfaction represents the cognitive aspect of subjective well-being and arises from an evaluative process where individuals compare their current life circumstances with a perceived standard or expectation.⁶⁸ Therefore, it refers to some standards of evaluation, which could be related to diverse spheres of life. The Personal Wellbeing Index, used in the present study as the outcome variable, reflects the decomposition of life satisfaction in satisfactions with various areas.⁶⁹ Moreover, it is not necessary for depression, as a category within the realm of mental health, to be positioned as the direct opposite of well-being. Instead, it could potentially represent a distinct spectrum of depressive experiences, separate from the spectrum of well-being.⁷⁰ In fact, similar to findings indicating that positive affect and negative affect are two distinct dimensions,⁷¹ depressive symptoms are typically inversely correlated with well-being but could also exist as a distinct phenomenon. However, depressive symptoms can significantly affect the well-being and functional abilities of older individuals.^{53,72} To identify potential ways of helping older individuals lead happier and healthier lives, it is crucial to not only explore the influence of wisdom on mental health challenges, like depressive symptoms, but also on promoting positive mental health.

Notably, both life satisfaction and depressive symptoms can independently serve as predictors of mortality over time in older adults.⁷³ This highlights the importance of identifying individual resources that can serve as protective factors when facing diminished abilities and multiple losses in old age. Such resources have the potential to mitigate depressive symptoms and positively contribute to life satisfaction.⁷⁴

These factors underscore the essential components of healthy and successful aging. These principles comprise a web of psychological and health factors that serve as a multifaceted backdrop for a personal life. Nevertheless, the specific structural relations between them, as well as the underlying mechanisms influencing these associations and their impact on mental health in late life, remain incompletely understood.

Therefore, the objective of the present study is to evaluate the predictive role of wisdom, self-rated health, and developmental task accomplishment for mental health outcomes (wellbeing and depressive symptoms) among retirees in

Poland. Additionally, the study explores the structure of relationships between the variables, after controlling for sociodemographic factors.

Wisdom, developmental task attainment and self-rated health were expected to be related to mental health in late life – positively to personal wellbeing and negatively to depressive symptoms, after controlling for sociodemographic variables (Hypothesis 1). Developmental task attainment and self-rated health were predicted to mediate the association between wisdom and mental health outcomes (Hypothesis 2).

Materials and Methods

Procedure and Data Collection

The study employed a cross-sectional design with a purposeful sample selection. Data were collected through computer-assisted-web-interview (CAWI) between June 2022 and July 2022. Participants were recruited from the Polish National Panel, one of the commercial research panels operating in Poland that comprises voluntary respondents from across the country. They were previously registered in the research panel system, accepted the regulations and consented to participate in social surveys. All respondents received an email invitation from the panel operators, inviting them to participate in the study. Before the survey started, the respondents were given an information letter about the purpose of the study and instructions on test completion, and were assured that their participation was anonymous and voluntary. Participants confirmed their informed consent before starting the survey, but they could also withdraw at any stage. The initial instructions included an e-mail address to the researcher with whom they could contact if they had any questions. Only retired individuals aged 60 and above who gave their informed consent were included in the final sample.

The study adhered to the Helsinki Declaration of Human Rights.⁷⁵ The research protocol received approval from the Research Ethics Board at the University of Lodz.

Participants

The study was conducted with a sample of 381 participants, comprising 220 women (57.78%) and 161 men (42.3%), aged between 60 and 86 years ($M = 67.33$; $SD = 5.08$). The majority of participants lived in small towns with populations up to 100,000 (41.5%) or in larger cities with populations over 100,000 (40.2%), completed high school education (50.7%) and reported being married (63.8%). All participants were retired and not currently employed. Table 1 presents more detailed data.

Table 1 Sociodemographic Characteristics in the Study Sample (N = 381)

Variable	n	%
Sex		
Male	161	42.3
Female	220	57.7
Age (range)		
60–66	178	46.7
67–86	203	53.3
Education		
Primary and secondary vocational education	40	10.5
High school education	193	50.7
Higher education	148	38.8
Marital status		
Single	138	36.2
Married	243	63.8
Place of residence		
Village	70	18.4
Small town	158	41.5
Large city	153	40.2

Abbreviation: n, number of participants.

Study Tools

The Polish version of the Three-Dimensional Wisdom Scale (3D-WS) by Ardel¹⁴ was used,⁷⁶ consisting 39 items forming three main dimensions: cognitive, compassionate and reflective. The cognitive dimension (14 items) measures an individual's ability to comprehensively understand life, including deeper meaning in intrapersonal and interpersonal phenomena and events. The compassionate dimension (13 items) corresponds to the individual's capacity for positive emotions toward others, improving one's well-being and overcoming egocentric tendencies. The reflective dimension (12 items) measures an individual's ability to perceive reality objectively, practice self-distance, and view events from multiple perspectives. Answers are given on a 5-point scale. A composite three-dimensional wisdom score is generated by calculating the average of the three factors. In the current sample, the respective Cronbach's alpha values were 0.77, 0.69, 0.80, and 0.88 for the overall result.

The Developmental Tasks Questionnaire for Seniors²⁵ measures the general level of developmental task attainment in older people, as defined by Havighurst^{28,29} and Erikson's³⁰ general developmental theories. The instrument comprises 15 items, each rated on a 5-point Likert scale. It yields an overall score as well as three distinct categories: (1) acceptance of one's life – demonstrating an accepting attitude toward one's past and present experiences, and achieving positive life outcomes, (2) adaptation – adapting to typical age-related changes like physical decline, retirement, reduced income, and accepting help when needed, (3) acceptance of passing – reconciling with the reality of aging and death, for oneself and loved ones. The development and psychometric characteristics of the instrument have been previously detailed.²⁵ The tool is a brief and reliable instrument designed to evaluate fundamental aspects of adjustment to old age. In the current study, the internal consistency was strong (Cronbach's alpha = 0.87 for the total score, and for factors 0.85, 0.60 and 0.82, respectively).

Self-rated health was evaluated using the numeric version of the scale. This scale, created by the author, ranges from 1 to 10 and is commonly used in medical research due to its strong discriminatory ability and minimal language skill requirements.^{49,77,78} The measurement of self-rated health involved asking respondents the question, "In my opinion, my general health status is", and providing response options ranging from 1 (very bad) to 10 (very good). Participants were instructed to select the point on the scale that best corresponded to their current state of health.

Geriatric Depression Scale (GDS) was used, in the Polish language 15-item form.^{79,80} In the measure, the respondent indicates the presence of depressive symptoms within the previous two weeks (Yes/No). The number of points obtained shows a lack of depressive symptoms (0–5 points) or a risk of depression (6–15 points). The tool demonstrated good internal consistency in the current study (Cronbach's alpha was 0.88).

The eight-item Personal Wellbeing Index⁶⁹ was used to measure satisfaction with various life spheres, including standard of living, health, life achievements, personal relationships, personal safety, community connectedness, future security, and religion and spirituality. Participants rate their level of satisfaction on an 11-point scale, ranging from 0 (indicating no satisfaction at all) to 10 (representing complete satisfaction). The total score is derived by computing the average from individual domains. The tool was examined across 26 countries, indicating good psychometric properties in the simple and short measurement of general life satisfaction. The Polish language version of the tool was employed in the study.⁸¹ The reliability of the tool was excellent in the current study (Cronbach's alpha 0.89).

Sociodemographic status was evaluated using a questionnaire specifically designed for this study, which gathered data on sex (1=men, 2=woman), age (number of years), education level (1=primary, 2=basic vocational, 3=secondary, 4=higher), marital status (1=single, 2=married), place of living (1=village, 2=town with less than 100000 residents, 3=city with more than 100000 residents).

Statistical Analysis

A descriptive analysis was conducted by computing the means and standard deviations. The normality assumption was examined by assessing Shapiro–Wilk test, plots, histograms and the kurtosis and skewness. Scores of kurtosis and skewness close to zero indicate the normal distribution;^{82,83} however, the scores between –2 and +2 are considered acceptable in terms of the normality assumption.⁸⁴ After calculating bivariate Pearson's correlations, a linear multiple

regression analysis was performed to examine the relationship between wisdom, developmental task attainment and self-rated health (independent variables), and depressive symptoms and wellbeing (outcome variables); the calculation was performed after controlling for sociodemographic factors. Statistical diagnostic analyses checked an absence of collinearity and heteroscedasticity, and distributions of residuals. The presence of outliers was detected using the Mahalanobis and Cook's distance. The results were analyzed with SPSS Version 28.0. Additionally, the complex structure of relationships between variables was calculated using structural equation modeling (path analysis) in AMOS 28, using the maximum likelihood method. The path analyses aimed to assess both the direct and indirect effects of independent variables on the outcome variables.⁸³ To determine the goodness of fit between data and model, a combination of different fit indices was used.^{83,85,86}

After conducting a priori power analysis with G*Power 3.1 software,⁸⁷ considering a medium effect size (alpha of 0.05, a standard power level of 0.95), the minimum sample size required was found to be 161. Additionally, the minimum sample size of 200 respondents for SEM, as suggested by Kenny⁸⁶ and Kline,⁸³ was also met.

Results

Descriptive statistics and correlation matrix for the variables in the study were computed (see Table 2).

Results concerning the distribution of variables showed that the Shapiro–Wilk test yielded significant results, indicating non-normality. However, considering the sample size, plots and histograms of the factors, and the values of skewness and kurtosis ($< |2|$), it was assumed that all followed a normal distribution. The results indicate that general wisdom and all its dimensions, general level of developmental tasks achievement and all its dimensions as well as self-rated health level correlated negatively with depressive symptoms. Positive significant correlations were observed for those variables and personal wellbeing level.

The results of the multiple regression analysis with well-being and depressive symptoms as the outcome variables are presented in Table 3.

No evidence of multicollinearity was found based on the variance inflation factor (VIF ranged from 1.04 to 1.21), and tolerance (ranged from 0.81 to 0.96). The Durbin-Watson scores, ranging from 1.90 to 2.01, suggest the absence of autocorrelation in the residuals. The Mahalanobis and Cook's distance excluded the presence of significant outliers.⁸⁸

Regarding confounders, the results showed that the demographic variables included in the regression analyses, both for wellbeing and depressive symptoms, did not predict outcome variables in a significant way. For depressive symptoms, only a weakly significant relationship was observed for marital status. Self-rated health, overall level of wisdom and developmental task attainment were significant positive predictors for personal wellbeing and negative – for depressive symptoms. The model accounted for 53% of the variance in personal well-being and 53% of depressive symptoms.

Table 2 Descriptive Statistics and Correlation Matrix for the Variables in the Study

Variables	M	SD	1	2	3	4	5	6	7	8	9	10	11
1. Personal Wellbeing	6.39	1.84	–										
2. Depressive symptoms	4.16	3.98	–0.67**	–									
3. Wisdom – total score	3.17	0.43	0.35**	–0.48**	–								
4. Cognitive wisdom	2.93	0.52	0.11*	–0.26**	0.82**	–							
5. Compassionate wisdom	3.22	0.47	0.30**	–0.37**	0.83**	0.53**	–						
6. Reflective wisdom	3.37	0.55	0.47**	–0.57**	0.86**	0.52**	0.60**	–					
7. Developmental tasks attainment – total score	55.59	8.79	0.62**	–0.52**	0.31**	0.07	0.24**	0.47**	–				
8. Acceptance of ones' life	18.41	3.87	0.70**	–0.70**	0.41**	0.16**	0.29**	0.57**	0.85**	–			
9. Adaptation	19.25	2.76	0.46**	–0.35**	0.26**	0.04	0.25**	0.34**	0.79**	0.59**	–		
10. Acceptance of passing	17.93	4.06	0.36**	–0.23**	0.11*	–0.04	0.07	0.24**	0.82**	0.48**	0.47**	–	
11. Self-rated health	5.94	2.08	0.46**	–0.47**	0.18**	0.06	0.16**	0.23**	0.16**	0.35**	0.03	–0.02	–

Notes: **p < 0.01; *p < 0.05.

Abbreviations: M, mean; SD, standard deviation.

Table 3 Summary of the Multiple Regression Analysis for Variables Predicting Personal Wellbeing and Depressive Symptoms

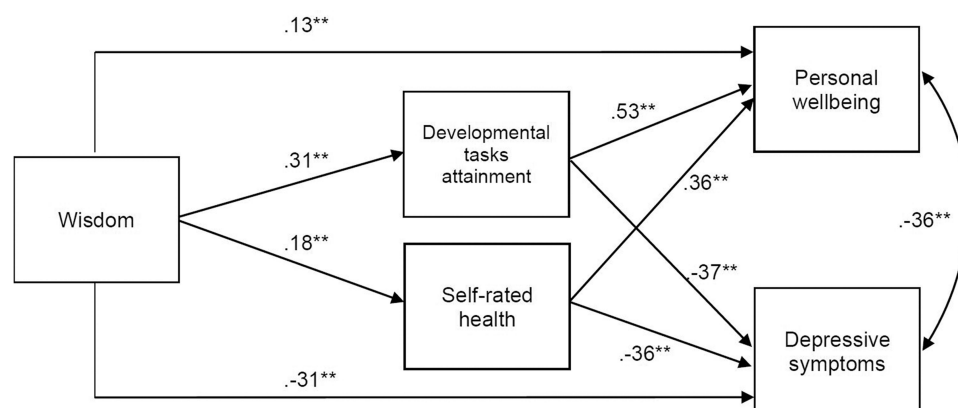
Variable	Personal Wellbeing			Depressive Symptoms		
	B	SE B	β	B	SE B	β
Demographics						
Sex	0.12	0.15	0.03	0.18	0.32	0.02
Age	0.00	0.01	-0.01	-0.04	0.03	-0.05
Education	-0.13	0.11	-0.05	-0.19	0.23	-0.03
Marital status	0.22	0.15	0.06	-0.77	0.32	-0.09*
Place of living	0.04	0.09	0.01	-0.38	0.20	-0.07
Self-rated health	0.31	0.03	0.35**	-0.68	0.07	-0.35**
Wisdom - overall	0.57	0.17	0.13**	-2.81	0.36	-0.30**
Developmental tasks attainment - overall	0.11	0.01	0.53**	-0.16	0.02	-0.36**
R^2	0.53			0.53		
F	53.53**			51.92**		

Notes: **p < 0.01; *p < 0.05.

Abbreviations: B, non-standardized regression coefficients; SE B, non-standardized regression coefficients error; β , standardized regression coefficient; R^2 , determination coefficient; F, value of F-statistic.

Basing on the regression analysis results, the path analysis was performed to examine the structural relations between variables. The final model (see Figure 1) indicated good data-model fit statistics ($\chi^2 = 0.29$; $df = 1$; $p = 0.59$; RMSEA = 0.095 [90% CI for RMSEA: 0.021–0.193]; NFI=0.993; CFI=0.995; GFI =0.995; AGFI=0.930; SRMR = 0.031). All standardized path coefficients of the model were statistically significant ($p < 0.01$). Wisdom ($\beta = 0.13$, $p < 0.01$), developmental tasks attainment ($\beta = 0.53$, $p < 0.01$) and subjectively perceived health ($\beta = 0.36$, $p < 0.01$) were found to directly positively influence personal wellbeing ($R^2 = 0.51$, $p < 0.01$). Moreover, wisdom ($\beta = -0.31$, $p < 0.01$), developmental tasks attainment ($\beta = -0.37$, $p < 0.01$) and self-rated health ($\beta = -0.36$, $p < 0.01$) were found to have a direct negative influence on depressive symptoms ($R^2 = 0.49$, $p < 0.01$). A negative significant correlation between personal wellbeing and depressive symptoms was also established ($r = -0.36$, $p < 0.01$). Wisdom was also positively related to developmental tasks attainment ($\beta = 0.31$, $p < 0.01$) and self-rated health ($\beta = 0.18$, $p < 0.01$).

In addition, mediation analyses found wisdom to have a significant indirect effect on personal wellbeing and depression through developmental task attainment and self-rated health. The initial path from wisdom to depressive

**Figure 1** Results of Structural Equation Modelling.

Note: **p < 0.01.

symptoms was reduced from $\beta = -.49$ to $\beta = -.31$ and from wisdom to personal wellbeing from $\beta = 0.36$ to 0.13 ($p < 0.01$). All total and direct effects of wisdom on personal wellbeing and on depression were significant ($p < 0.05$). Therefore, it may be supported that there is a significant partial mediation in the effect of wisdom on mental health outcomes.

Discussion

The aim of the current study was to assess whether developmental task attainment and self-rated health might be another possible pathway between wisdom and mental health among retired older individuals in Poland. Both positive (personal wellbeing) and negative aspects (depressive symptoms) of mental health were assessed, as different pathways may affect distinct negative and positive mental health outcomes.^{66,67,70}

As expected, wisdom, developmental task attainment and self-rated health were positively related to personal wellbeing and negatively to depressive symptoms, after controlling for sociodemographic variables (Hypothesis 1). Those results are consistent with prior studies indicating positive relationships between wisdom and subjective wellbeing and negative associations between wisdom and depressive symptoms.^{14,19–21,89} Chen and Wang²⁰ suggest that a significant level of wisdom can play a crucial role in mitigating social alienation and loneliness among older adults, thereby serving as a protective factor against depression. In a study conducted by Etezadi and Pushkar¹⁸ on retirees, it was discovered that perceived control and life engagement played a mediating role in the relation between wisdom and negative and positive affect. The authors put forward the hypothesis that wisdom could facilitate engagement in meaningful activities. By actively selecting personally significant and enjoyable activities, individuals with higher levels of wisdom may be able to avoid circumstances that lead to unfavorable experiences. In the longitudinal study, Ardel⁵² tried to answer the question whether personal wisdom, might be more likely to positively predict wellbeing, than the other way around. The study's results supported this hypothesis, suggesting that developing three-dimensional wisdom may help to maintain or even improve subjective well-being.

Also, developmental task attainment in the late-life period and higher subjectively-perceived health are typical indicators of healthy and successful aging.^{3,9,28,42} Effectively adapting to deteriorating health, retirement phase with lower financial resources and evolving social roles, as well as reconciling with the loss of relatives and friends while also reflecting on one's life, may strengthen wellbeing and prevent depressive symptoms. Havinghurst²⁸ postulates that while maintaining a behavioral style consistent with earlier stages of life and pursuing personal plans and needs are crucial objectives in staying active, it is equally important to effectively cope with losses in retirement. Successfully navigating these challenges, along with subjective factors, lifestyle, health and social support, can form the foundation for aging well and adapting to old age.^{90,91}

Self-rated health was also associated with mental health in the current study – positively with wellbeing, and negatively with depressive symptoms. Self-assessed health frequently aligns with objective health status,⁹² being strongly related to life satisfaction.^{53,54,56} Low self-rated health is also associated with higher numbers of depressive symptoms in old age.^{58–61} Experiencing physical health issues increases the likelihood of experiencing depression in older people and can contribute to its persistence over time.⁹³ The old age is commonly marked by a deterioration in health, and other critical events such as retirement, the loss of a partner and a decline in independence can have an adverse impact on life satisfaction, potentially leading to depressed mood.^{94,95}

Finally, the findings reveal that developmental task attainment and self-rated health partially mediated the relationship between wisdom and mental health outcomes (Hypothesis 2). While this relationship has not been explored to date, some studies have focused on similar areas of interest. Previous studies using structural equation modeling have shown that attainment of developmental tasks in old age plays a mediating role between personal resources, such as resiliency, and satisfaction with life.⁴² Dezutter et al⁹⁰ indicate that Erikson's developmental task of integrity versus despair mediates the relationship between a sense of coherence, depression, and life satisfaction. According to Brudek,⁹⁶ life balance, measured as late-life developmental tasks from the perspective of Erikson's theory, acts as the mediator between personality traits and the overall quality of life in older individuals. These results are supported by the present structural modeling equation data. The achievement of developmental tasks, including the establishment of life balance, acts as a partial mediator between wisdom and mental health.

Wiser older adults would more easily accept their past and present life and the inevitability of passing. In this process, a special role may be played by reflective wisdom, which refers to the ability to observe and perceive things, events, and oneself from different perspectives, engaging in introspection, mindful awareness and contemplation. This dimension of wisdom allows individuals to develop a profound understanding of themselves, others, and life as a whole. It also involves a gradual reduction of subjectivity, projections, and self-centeredness, while fostering the growth of tolerance and empathy towards others.

A positive association was observed between greater wisdom and subjective well-being (SWB), along with the finding that wisdom acted as a protective factor against the detrimental effect of unfavorable life events on present well-being.³² This indicates that wisdom is crucial in enhancing the ability to cope with the losses associated with aging. This results seem to correspond with predictive role of wisdom for developmental tasks attainment, such as adaptation to age-related losses, retirement and declining health, acceptance of passing and positive life outcome.

Wise older individuals have the capability and composure to handle adversity without compromising their overall sense of well-being. This is especially true for individuals who have acquired wisdom by successfully navigating past adversities.⁹⁷ In a study conducted with terminally ill older patients, a considerably stronger correlation between wisdom and well-being was observed among nursing home and hospice residents compared to the community sample.³⁵ Nursing home residency or the diagnosis of a terminal illness did not seem to have a significant impact on the well-being of wiser older patients. Wisdom appeared to compensate for the end-of-life losses.³³ It may be assumed that wisdom stimulates wellbeing and prevents geriatric depression by enhancing developmental task accomplishment in later life. This is also corroborated by other results indicating negative relationships between wisdom and fear of death.¹⁴

Also, self-rated health acted as a partial mediator in the relationship between wisdom and mental health. According to previous research, wisdom also affects self-rated health in older adult samples.^{13,15,21} Wisdom can have a positive effect on physical health in older individuals, which can be caused by their greater likelihood of following a healthy lifestyle.⁵² Wisdom provides a deep understanding of life, which can lead to stress reduction and foster physical and mental health. Wise older adults may undertake health-promoting behavior by being aware of how their lifestyle influences health.²³ A prior study found that both wisdom and subjective assessed physical health may have an impact on satisfaction with life; however, wisdom had the strongest influence on well-being and reduced the positive impact of physical health.¹⁵ One longitudinal study found the association between wisdom and self-rated health to be one-directional (i.e. the role of physical health on wisdom was not significant): older adults with greater wisdom not only experienced higher life satisfaction but also better overall health.¹³ It can also be postulated that wiser individuals demonstrate higher accuracy in assessing their health, which can affect the relationship between self-rated health and well-being.⁵⁷

Other longitudinal studies¹³ indicated a positive association between wisdom and successful aging. Older individuals who scored higher on wisdom measures experienced greater satisfaction in their later years of life. Additionally, they exhibited better overall subjective health and stronger familial relationships than individuals with lower wisdom scores.¹⁹

The impact of self-assessed health on depressive symptoms can be understood through psychological mechanisms. Specifically, when individuals perceive a risk to their self-integrity due to health-related concerns, it can result in emotional stress. This includes an increased likelihood of experiencing negative affective outcomes.⁹⁸ SRH may be related to mental health outcomes in bidirectional ways.^{9,62–64} However, a study conducted by Peleg and Nudelman⁵⁹ found that self-assessed health had a greater longitudinal influence on depressive symptoms compared to the effect of depressive symptoms on SRH, especially among younger-older adults. The authors conclude that particular emphasis should be given to the impact of SRH on depressive symptoms in the years after retirement. This observation aligns with the idea that as individuals age, their health becomes increasingly significant in shaping their overall well-being.⁹⁹ Consequently, lower SRH has a more pronounced effect on depressive symptoms during later stages of life.

Among the young-old age group, health-related changes tend to be more noticeable and impactful. This stage of life becomes a critical period for functional abilities and engagement in various activities.¹⁰⁰ Individuals may place greater emphasis on their health due to the significant life challenges and losses they experience.¹⁰¹ The transition from the pre-retirement phase, where people typically enjoy relative health and are occupied with work, family, and social connections, to this new and more challenging stage can intensify health-related concerns. Additionally, the increased available

time in this phase allows for more focus on these issues. Consequently, these factors can contribute to heightened negative emotions, including depressive symptoms.

It must also be noted that, in the current study, path analyses found positive and negative mental health outcomes found to be negatively associated with each other ($r=-0.36$, $p<0.01$). This result is consistent with previous findings examining similar variables in older adults.⁹⁰ Taking action to address various aspects of life satisfaction can result in better mental well-being and reduced psychological distress in older individuals in the future.¹⁰²

The structural model appears to show the complexity of the relationships between the determinants of mental health in old age. The novelty of the study is its main strength, insofar that it employs health and developmental variables to understand the wisdom-related aspects of healthy aging. The study results have valuable implications for enhancing health promotion policies targeting older adults. In Poland, where it is widely recognized the necessity to raise awareness of social and healthcare issues pertaining to the aging population, this is especially relevant.¹⁰³ The research provides novel avenues for creating prevention-oriented initiatives by incorporating psychological and developmental factors as crucial goals for mental health promotion. While wisdom can be developed through training in human development and interventions,^{104,105} also developmental task attainment and healthy aging processes can also be effectively supported in late life.^{3,9,42,106} In order to successfully complete developmental tasks during retirement, it may be helpful to encourage people to reflect on challenging life experiences in a way that promotes a “wise” perspective on both the present and past experiences.¹⁰⁷

However, it is important to acknowledge the limitations of this study. The research design is susceptible to selection bias, and the study itself is cross-sectional in nature. It relied on the use of computer-assisted-web-interview (CAWI) in a group of relatively healthy and well-educated retired volunteers from the community in Poland. In the study, quantitative self-reported measures were utilized, and self-rated health was assessed using a single item created by the author. Consequently, any causal relationships inferred from the findings should be interpreted cautiously, as well as any attempts to generalize the results to different populations or cultural settings. To gain a more comprehensive understanding, future research should explore additional factors related to mental health among older adults in diverse populations. Additionally, longitudinal studies would provide valuable insights into the changes and developments over time in this field.

Conclusion

This study contributes to our understanding of why wiser individuals tend to age well and has implications for social interventions aimed at promoting mental health among older adults. By identifying potential psychological mechanisms, this study broadens the scope of wisdom research and sheds light on the factors that may underlie the positive association between wisdom and mental health in later life.

Data Sharing Statement

The data that support the findings of this study are available from the corresponding author upon reasonable request.

Ethics Statement

The study protocol was approved by the Research Ethics Board at the University of Lodz.

Participants Consent Statement

All participants provided informed consent statement.

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Disclosure

The author reports no conflicts of interest in this work.

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