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## Article

# Innovations in human resource management : willingness and ability of long-term care insurance

Marketing i menedžment inovacij

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## INNOVATIONS IN HUMAN RESOURCE MANAGEMENT: WILLINGNESS AND ABILITY OF LONG-TERM CARE INSURANCE

**Abstract.** This paper summarizes the arguments within the scientific discussion on the investigation of human resource management of willingness and ability of long-term care insurance. The main purpose of the research is to investigate human resource management of willingness and ability of long-term care insurance considering the innovative international experience and the case of Henan province in China. Systematization literary sources and approaches for solving how the person could be motivated to use long-term care insurance indicate that this goal could be reached by issuing questionnaires. The relevance of the decision of this scientific problem is that the demand for long-term care insurance, domestic and foreign scholars mainly use questionnaire survey to conduct quantitative and qualitative research. Investigation of the proposed topic in the paper is carried out in the following logical sequence: the method of expert analysis allowed forming the survey of long-term care insurance. The research's theoretical and methodological basics are general scientific and special methods of certain economic phenomena and processes' cognition. The dialectical method was used to synthesize theoretical and methodological foundations of human resource management of willingness and ability of long-term care insurance foreign countries and China and formulate conclusions. Methodological tools of the research methods were respondents from January 20, 2020, until the end of March 31, 2020. The paper presents the results of the empirical analysis that the proportion of those willing to participate in the long-term care insurance system with an income of «less than 2,000 yuan» is 65.4%; the proportion of those willing to participate in the long-term care insurance system with an income of «2000-4000 yuan» is 69.0%, and the proportion of those willing to participate in the long-term care insurance system with an income of «4000-6000 yuan» is 74.1%. The regression analysis as the statistical method was used to determine whether and to what extent dependent and independent variables are significant. The research empirically confirms and theoretically proves that the factors of the insurance awareness model and the regression of Q24 «are you willing to participate in the long-term care insurance system» are not significant, indicating that the insurance awareness factor is not an influential

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*factor for the old-age care insurance demand. Therefore, the original hypothesis was denied, and the insurance consciousness model factors became not significantly related to the willingness of demand for long-term care insurance. The research results could be useful for those who have a deal with responsible staff, but for this reason, some indicators could influence his behavior. Summing up the results of the held scientific research it could be done the following recommendations. First of all, strengthening publicity and standardize management of long-term care insurance system. Secondly, that should be accelerated the development of the nursing industry with aging, chronic diseases, and other increasingly serious, China's medical resources are very scarce, especially in the nursing industry. Thirdly, it would be progressive if China absorbed the foreign long-term care insurance experience. Fourthly, it should be improved the design of long-term care insurance and increased the types of insurance products.*

**Keywords:** care insurance, China, expert evaluation, human resource management, innovation, international experience, long-term insurance.

**Introduction.** The aging of the population is a common phenomenon in all countries or regions in the world. According to the data from the seventh census in 2020, people aged 60 and over accounted for 18.70 percent of China's total population, up to 5.44 percent from the figure from the sixth census in 2010. In 2010, the population aged 65 and above accounted for 8.87% of the national population in the sixth census, which increased by 1.91% compared with the data of the fifth census in 2000 (Yang et al., 2017). However, according to the seventh census in 2020, the number of people aged 65 and above in China is 19064 million, accounting for 13.50%. When the proportion exceeds 14%, it marks the arrival of a «deeply aging society». Therefore, China is likely to enter a «deeply aging society» in the next 5-10 years. At present, the elderly population in China is characterized by a large number, rapid growth, and a gradual aging trend. In the 1970s, China implemented the family planning policy, which led to a shrinking family structure. In addition, the emergence of empty-nest families makes it difficult for family members to provide timely and adequate care when people have long-term care needs, and the elderly cannot meet the care needs. Long-term care insurance could provide professional medical care and basic daily care, ensuring that family members' daily work is not affected.

As the elderly population grows, so does the number of disabled and semi-disabled elderly people. Coupled with the inability of family members to provide timely and adequate care, the demand for long-term care insurance is also increasing. It is found that the long-term care insurance system is beneficial to protect the rights and interests of the disabled or mentally ill elderly. Besides, it promotes the development of social insurance in China. Therefore, every country in the world has to carry out a long-term care insurance pilot in some areas. However, for this reason, the HR management that motivates people to have insurance should be an inseparable part of this process. That's why the topic of this article is actual. This paper aims to investigate human resource management of willingness and ability of long-term care insurance, taking into account the innovative international experience and the case of Henan province in China. That could be reached by issuing questionnaires and then uses SPSS to summarize and analyze people's specific needs and ability to participate in long-term care insurance. Finally, it puts forward some suggestions to promote the development of the long-term care insurance system from different perspectives.

**Literature Review.** Analyzing current circumstances even in the conditions of COVID-19, such scientists as Klymchuk and Mikhailov made the accent that the essential precondition for the development of society should be the research that «paying special attention to personnel, that creates conditions for economic growth and competitiveness in conditions of maximum use of innovations» (Klymchuk and Mikhailov, 2018; Huo et al., 2019). This study considers these aspects to be the anvil upon which the management process of human resources is created. That's why before holding research concerning the willingness and ability of long-term care insurance in China, the innovative international experience «determining what concepts such as motivation and stimulation of personnel may be used» was

researched for this case study. It was done in different fields, such as staff management in banking activity (Kurylo et al., 2021), in the sphere of staff recruitment for vacant positions with the application of social networks (Klietsova and Mykhailova, 2021), when the process of digitalization is extending very quickly and the question how to involve the human beings for the long-term care insurance was raised. It was done the preliminary investigation (Klietsova and Zhang, 2020; Szostek, 2021; Kuznichenko et al., 2021) as to the optimization of the labor rights' violation during the pandemic «2019-nCoV», and it was also concluded that the willingness and ability of long-term care insurance could be one of the tools that help to overcome the unpredictable circumstance; as well as was researched the impact of demographic characteristics on counterproductive work behaviors.

At the same time, it was done deep research concerning long-term care insurance in China and other foreign countries. Thus, it was determined that such scientists and scientists-practitioners as (Xiangyou and Xueping, 2006; Shi, 2008; Zhang, 2009; Li and Wang, 2010) and others have mentioned, due to China's aging population boom is coming, aged care costs rising, family size structure increasingly narrowed, and inadequate social, medical security, makes it necessary to establish the elderly care insurance. For these reasons, other foreign scientists propose some approaches for the Ukrainians to do this service to be available for everyone and cheap. Thus, it was revealed that for the insurance company, the main pluses in the running of virtual business could be: lower costs concerning the organization of the company's website; fewer costs concerning the transactions for customer service operations; «expansion of geographical diversification of company insurance products; an opportunity to increase the sale of insurance products at the expense of open access to customers from around the world; customer service on a qualitatively new level – seven days a week, 365 days a year» (Yanyshyn et al., 2019). There was also paid great attention for the research that showed the presence of healthcare in special households' groups, the way of accelerating the transformation of the management process with human resources, as well as the adequate assessment of the countries' investment potential in the content of health insurance was also deeply investigated (Antosova et al., 2019; Kasaeva, 2019). Zhang (2011) underlines that the favorable factors for the development of old-age care insurance include the aging population trend, the rising nursing costs, the high burden of the elderly, the high medical costs, and the lack of medical security. Moreover, He and Li (2014) assessed the payment capacity of farmers; Sheng et al. (2020) studied the pilot system and current situation of long-term care insurance and put forward corresponding suggestions in Suzhou. Analysis of these authors' publications showed revealed that that old-age care insurance is very necessary. When insured persons need nursing services due to illness or the ability, that could pay part of his or her expenses, thus easing the economic burden of individuals and families. In their scientific works, Brown and Finkelstein (2007) used HRS data to make an empirical analysis on the pricing and returns of the long-term care insurance market and studied the reasons why the market was too small from the supply side of long-term care insurance. Brown et al. (2012) designed questionnaires to study more specific reasons why people have less demand for long-term care insurance. So, it was determined, first of all, it's because of the personal preference and self-assessment disability probability. Secondly, there always exist the alternatives to insurance, such as savings deposits that cover the cost of long-term care. Thirdly, the existing alternatives to long-term care. And finally, long-term care costs are high. Szczepanski (2018) paid great attention to research regarding the usage of special economic schemes under the reformation of the professional pension schemes in Great Britain (it means automatic enrollment but with the opportunity to refuse them in a definite period). Yashkina (2016) identified the risks in health insurance pricing using a regression model of demand on price dependence. Volosovych et al. (2021) defined that the pandemic COVID-19 has influenced different economic sectors, and insurance was not the exception, which has become a vivid problem that accelerated the innovations. This pandemic has shown the ineffectiveness of the usual interactive models between the insurers and their clients. These times were concentrated only on insurance companies' attempts to provide new investments and

innovations in the digital future. That's why even now, it's actual to have long-term care insurance. But Melnyk et al. (2021) made the accent on the method of unprofitable enterprises analysis that the Ministry for Development of Economy, Trade and Agriculture of Ukraine uses to reveal the stage of the shadow economy, taking into account the kind of economic activity, the level of «shadowing of the insurance services sector in Ukraine and its regions in 2013 and 2018».

We have to admit that claim costs' variability demonstrates the key risk component, which should be calculated beforehand while implementing the internal schemes assessing the insurance company's solvency. It was researched by D'Ortona and Melisi (2017). It was defined that this component could make the base for the difference between future claims' payments and the provisions set for these claims.

Li and Prince (2016) studied the reasons for residents' different reactions to the long-term care insurance system from three aspects: inheritance incentive, financial literacy, and insurance understanding level. Such Chinese scientists as Yin et al. (2019) underline that the United States was one of the early countries to establish a long-term care insurance system. The American Health Insurance Institute gave a clear definition of long-term care. In a longer period, for the continuous suffering from chronic diseases, such as Alzheimer's disease and other cognitive impairment or disability, that is, the care provided by the person with functional impairment. It includes medical services, social services, home services, delivery services, or other supportive services. Moreover, analyzing their research from the point of HR-Management substantially, the elderly long-term care guarantee should include the elderly inhabitants and create a long-term care system for this layer of the population. Based on the review of domestic research results, these scientists draw on the experience of the USA, Japan, Germany as to the long-term care commercial insurance the implementations of the definite proposals concerning the choice of long-term care insurance in China. At the same time, special provisions of the economic theory of «path dependence» were put into the methodological basis of the research concerning the transformation of the socio-economic system's state, which is conditioned by the introduction of a new rule in implementing the reforms (Mykhailova et al., 2018; Zaks, 2013). It could become the analogical base for human understanding the necessity of long-term insurance starting from the person's birth. But there could be another way of developing the human capital's management. Thus, under these conditions, the effect of hysteresis may arise. It means that the new rules could fall into the institutional trap and stay in it even when perturbations often disappeared.

The literature review found that the research on long-term care insurance, the introduction of foreign systems, and the macro construction of domestic systems were rich. However, the domestic system construction only stays at the macroscopic level. The concrete countermeasure and the standard implementation research are insufficient. Domestic scholars mainly use questionnaire surveys to conduct quantitative and qualitative research regarding the demand for long-term care insurance. The questionnaire is mainly set on individual characteristics and economic conditions, while several studies on physical condition and subjective cognition. China's old-age care insurance demand market has great potential and has attracted increasing attention from domestic scholars. The author underlined that the analysis of old-age care insurance demand in China should not be limited to a certain place or several surveys. The representative is not strong. Moreover, domestic scholars are still unscientific in calculating the demand cost of old-age care insurance, which is mainly estimated through the charging standards of several nursing homes. Therefore, the experience of the elderly care insurance system in developed countries was explored. In most developed countries long – term care insurance has been more mature insurance. Most studies on long-term care insurance by foreign scholars adopt quantitative analysis to study the relationship between long-term care insurance and other related factors from different perspectives to put forward relevant countermeasures. It enriches the quantitative analysis methods of long-term care insurance and provides some references for the research of long-term care insurance in China.

**Methodology and research methods.** The research's theoretical and methodological basics are general scientific and special methods of certain economic phenomena and processes' cognition. The dialectical method was used to synthesize theoretical and methodological foundations of human resource management of willingness and ability of long-term care insurance foreign countries and China and formulate conclusions. This study involved the abstract and logical investigation methods of the economic process in long-term care insurance. Moreover, the method of expert analysis allowed forming the survey of long-term care insurance. The study was based on such blocks.

The survey of long-term care insurance. The title of the questionnaire is the survey of demand willingness and ability to participate in long-term care insurance, which mainly includes the following six aspects: the first is the personal characteristics of the respondents, the second is their family status, economic status, and health status, third, the cognitive status and insurance awareness of the respondents.

Issue and collect questionnaires.

1) The issuance of questionnaires. The survey would start on January 20, 2020, and end on March 31, 2020. Questionnaires were distributed in the field and on the Internet. A total of 218 questionnaires were distributed.

2) Collection of questionnaires. Table 1 shows the results of this survey.

**Table 1. City frequency analysis**

City	Frequency	The percentage (%)
Zhengzhou	46	21.1
Kaifeng	28	12.8
Xinxiang	33	15.1
Shangqiu	28	12.8
Xinyang	20	9.2
Zhumadian	18	8.3
Xuchang	25	11.5
Nanyang	20	9.2
Total	218	100

Sources: developed by the authors.

As it could be seen, a total of 218 questionnaires were collected, of which one was incomplete and one was wrong. Therefore, 216 valid questionnaires were collected, with an effective rate of 99.1%.

3) Sample characteristics. It was analyzed registered residence.

**Table 2. Sample characteristics of registered permanent residence**

Registered residence	Frequency	The percentage (%)
Urban	97	44.9
Rural	119	55.1
Total	216	100.0

Sources: developed by the authors.

Table 2 indicated that among 216 valid questionnaires, 97 respondents came from urban accounting for 44.9% of the total number of respondents; 119 respondents came from rural, accounting for 55.1% of the total number of respondents.

Gender distribution.

**Table 3. Gender sample characteristics**

Gender	Frequency	The percentage (%)
Male	77	35.6
Female	139	64.4
Total	216	100.0

Sources: developed by the authors.

Through the frequency analysis of gender, it is found that among 216 respondents, there are 77 male respondents, accounting for 35.6% of the total number; there are 139 female respondents, accounting for 64.4% of the total number.

Age distribution.

**Table 4. Age sample characteristics**

Age	Frequency	The percentage (%)
18-30	179	82.9
31-40	11	5.1
41-50	14	6.5
51-60	9	4.2
Above 61	3	1.4
Total	216	100.0

Sources: developed by the authors.

Through the frequency analysis of age, it could be found that the frequency of respondents aged 18-30 is the highest, accounting for 82.9%. Although other age groups also appear, the frequency is relatively low.

4) Basic information of demand willingness. It was necessary to research the willingness of people to participate in long-term care insurance. It was necessary to predict how to motivate the person.

**Table 5. Willingness to participate in long-term care insurance**

Are you willing to participate in long-term care insurance	Frequency	The percentage (%)
No	74	34.3
Yes	142	65.7
Total	216	100.0

Sources: developed by the authors.

Thus, 65.7 percent of respondents are willing to participate in long-term care insurance, while 34.3 percent are unwilling to participate in long-term care insurance. In general, the demand willingness for long-term care insurance is relatively large.

Content.

**Table 6. The form of long term care service you would most like to choose**

The form	Frequency	The percentage (%)
Community home care	133	61.6
Institutional care	45	20.8
Inpatient medical care	23	10.6
Others	15	6.9
Total	216	100.0

Sources: developed by the authors.

Table 6 demonstrates that 61.6% of the respondents hope to choose the service form of community home care, and 20.83% want to choose nursing home care. Fewer respondents chose the form of inpatient medical care and other forms. The next step was to choose the type of long-term care insurance benefits (Table 7).

**Table 7. The type of long-term care insurance benefits**

The type	Frequency	The percentage (%)
Kind	21	9.7
Cash	103	47.7
Service	85	39.4
Others	7	3.3
Total	216	100.0

Sources: developed by the authors on their own research (2020).

Table 7 shows that 47.7% of respondents tend to choose the way of cash payment. 39.4% of the respondents tend to choose professional service payment. There are fewer choices of payment in kind and other ways.

#### 5) Analysis of factors affecting willingness.

The theoretical basis of the analysis of factors affecting demand willingness is the optimal insurance theory. The selected variables also refer to the six variables affecting the insurance demand mentioned in the optimal insurance theory to some extent. In the process of analysis, cross contingency table and regression analysis are mainly used.

Cross analysis. Registered permanent residence.

**Table 8. Crosstable between account location and willingness to participate in long term care insurance**

Variable	Statistical indicators	Are you willing to sign up for long-term care insurance	
		No	Yes
Registered permanent residence	Urban	30.9%	69.1%
	Rural	37.0%	63.0%

Sources: developed by the authors.

Besides Table 8 shows that 69.1 percent of urban household registration respondents are willing to participate in the long-term care insurance system. In comparison, 63 percent of rural household registration respondents are willing to participate in the long-term care insurance system. It suggests that people with urban residence have a slightly greater need for long-term care insurance than rural residents. Age.

**Table 9. Cross-table between age and willingness to take long-term care insurance**

Variable	Statistical indicators	Are you willing to sign up for long-term care insurance	
		No	Yes
Age	18-30	35.2%	64.8%
	31-40	27.3%	72.7%
	41-50	28.6%	71.4%
	51-60	11.1%	88.9%
	61 and above	100.0%	.0%

Sources: developed by the authors.



Table 9 shows that 64.8% of people aged 18 to 30 are willing to take out long-term care insurance. Among the «30-40» age group, 72.7% of respondents were willing to take out long-term care insurance; 71.4% of «41-50» age groups are willing to sign up for long-term care insurance; 88.9% of people in the «51-60» age group are willing to take out long-term care insurance; 40 percent of those «61 and above» are willing to sign up for long-term care insurance. The statistical results showed that the age with a strong desire to participate is mainly concentrated in the «31-60 years old». People aged between 18 and 30 are younger and healthier, and they may not think about the long term. However, the younger generation has a stronger sense of insurance development, so the demand intention between 18 and 30 is not as strong as that between 31 and 60, but it is also quite strong. However, the demand willingness of «61 and above» is particularly low, which may be related to the conservative thinking of this group of people and the short term of enjoyment, and also partly due to the small number of data and deviation of data.

Whether the elderly have lost their abilities or lost their wits? This question was also raised during this investigation.

**Table 10. Crosstable of disability or dementia in the family and willingness to participate in long-term care insurance**

Variable	Statistical indicators	Are you willing to sign up for long-term care insurance	
		No	Yes
Disable or silly older	No	35.1%	64.9%
	Yes	27.3%	72.7%

Sources: developed by the authors.

Table 10 demonstrates that 64.9% of the elderly without disability or dementia are willing to participate in the long-term care insurance system. The percentage of disabled or mentally disabled seniors in the family willing to participate in long-term care insurance is 72.7%. From this, the willingness to participate in long-term care insurance is relatively high on the whole, and families with disabled or mentally disabled elderly people have a greater demand for a long-term care insurance system than families with no disabled or mentally disabled elderly people.

Income.

**Table 11. Crosstable between income and willingness to participate in long term care insurance**

Variable	Statistical indicators	Are you willing to sign up for long-term care insurance	
		No	Yes
Income	Less than 2000yuan	34.6%	65.4%
	2000-4000yuan	31.0%	69.0%
	4000-6000yuan	25.9%	74.1%
	6000-8000yuan	33.3%	66.7%
	Above 8000yuan	63.6%	36.4%

Sources: developed by the authors.

As could be seen from Table 11, the proportion of those willing to participate in the long-term care insurance system with an income of «less than 2,000 yuan» is 65.4%; the proportion of those willing to participate in the long-term care insurance system with an income of «2000-4000 yuan» is 69%; the proportion of those willing to participate in the long-term care insurance system with an income of «4000-6000 yuan» is 74.1%. The proportion of those with income of «6000-8000» willing to participate in the long-term care insurance system was 66.7 percent. The proportion of those with income of «over 8000 yuan» willing to participate in the long-term care insurance system was 36.4%. It could be seen that income

in the «0-6000 yuan» on the long-term care insurance system increases demand. The demand for a long-term care insurance system with more than 6,000 yuan income shows a decreasing trend. This may be because this part of higher-income groups would consider commercial insurance more or because there are small data and biased results.

Regression analysis is a statistical method to determine whether and to what extent dependent and independent variables are significant (Yuan, 2017). Since demand willingness is a dichotomous variable (divided into willing and unwilling), this paper would use the binary Logistic model for regression analysis. The formula of the model:  $\text{Logit}(P) = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \dots + \beta_i X_i$ . Among them, the probability of P for residents in Henan province to purchase long-term care insurance,  $\beta_0$  is constant,  $\beta_i$  said the I variable  $X_i$  partial regression coefficient.

Selection and assignment of variables. The results could be seen in Table 12.

**Table 12. Selection and assignment of variables**

Dimension	Variable	Assignment
Individual characteristics	Age	1=18-30 2=31-40 3=41-50 4=51-60 5=61 and above
	Gender	0=Male 1=Female
	Level of education	1=Primary schools and below 2=Middle school 3=High school (including technical secondary school and vocational High School) 4=Junior college e 5=Bachelor degree or above
	Marital status	1= unmarried 2= married 3= divorced 4= widowed
Family situation	Registered residence	0= rural 1= urban
	Residential type	1= living alone or with spouse 2= living with parents/children 3= living with three or more generations 4= nursing home 5= others
	disability or dementia in the family	0 = no 1 = yes
	Number of children	1=0 people 2=1 people 3=2 people 4=3 people 5=4 and above
State of the economy	Income	1= less than 2000 yuan 2=2000-4000 yuan 3=4000-6000 yuan 4=6000-8000 yuan 5=8000 yuan and above
	Income forecast	1= very bad 2= relatively bad 3= average 4= good 5= very good
Health	Physical condition	1= very bad 2= relatively bad 3= average 4= good 5= very good
	Do you worry about your health	1= very worried 2= relatively worried too worried 3= average 4= not worried at all 5= not worried at all
Cognitive status	Do you agree with the concept of «raising children for old age»	0=No 1=Yes
	How much you know about long-term care insurance	1= very unfamiliar 2= not very familiar 3= general 4= relatively familiar 5= very understood

Continued Table 12

Insurance consciousness	You believe the government could create a comprehensive long-term care insurance system	1= totally distrustful 2= not very trusting 3= average 4= relatively trusting 5= very trusting 0=No 1=Yes
	Do you have any commercial insurance Are you willing to sign up for long-term care insurance	0=Yes 1=No

Sources: developed by the authors.

Data analysis.

Table 13. Model fitting information

Model	R	R square	Adjust the R square	The error of the standard estimate	Change statistics					Durbin-Watson
					Chang R square	Chang F	df1	df2	Chang Sig. F	
1	.456 <sup>a</sup>	.208	.144	.439	.208	3.244	6	198	.000	2.152

Sources: developed by the authors.

It could be seen from the table that  $R = 0.456$  ( $> 0.4$ ), and the model has a good fitting degree. Durbin-Watson's test value is 2.152 (Durbin-Watson's value is around 2), indicating that the model has no autocorrelation and is well constructed.

Table 14. Regression model for voluntary participation in long-term care insurance

Model	Nonstandardized coefficient		Standard coefficient		t	Sig.	Collinear statistics	
	B	Standard error	A trial version				Allowance	VIF
1. (Constant)	1.515	.367			4.134	.000		
2.Registered residence	.003	.066	.003	.041	.968	.968	.821	1.217
3.Gender	-.059	.069	-.059	-.849	.397	.397	.820	1.219
4. Age	-.104	.064	-.194	1.632	.104	.104	.283	3.538
5.Education background	-.075	.049	-.147	1.536	.126	.126	.438	2.285
7.Marital status	-.081	.140	-.077	-.579	.563	.563	.228	4.380
8.Number of children	.062	.072	.117	.861	.390	.390	.217	4.617
9. Residence status	-.115	.047	-.165	-2.451	.015	.015	.879	1.138
11.Physical condition	-.017	.046	-.027	-.383	.702	.702	.799	1.251
12.Whether have disabled or silly older	-.043	.105	-.027	-.406	.685	.685	.881	1.135
17. Do you worry about your health	.107	.033	.228	3.246	.001	.001	.815	1.227
18. Do you agree with the concept of «raising children for old age»	.004	.065	.004	.060	.952	.952	.877	1.140
20. Do you have any commercial insurance	-.007	.069	-.007	-.097	.923	.923	.850	1.177

Continued Table 12

Continued Table 14

21. Do you know long-term care insurance and related policies before?	-.082	.038	-.159	-2.180	.030	.754	1.327
22. You believe the government could create a comprehensive long-term care insurance system	-.159	.044	-.251	-3.585	.000	.814	1.228
28. Income	.037	.032	.090	1.182	.238	.697	1.436
29. Income forecast	-.006	.040	-.011	-.154	.877	.757	1.321

Sources: developed by the authors.

As shown in Table 14, the collinear diagnostic VIF value of regression analysis was 4.617 at the maximum and 1.135 at the minimum. Both of them were less than 10. Therefore, there is no collinearity problem in this model, so regression analysis could be carried out. Each factor of the individual characteristics model and the Q24 «Do you want to participate in the long-term care insurance system» regression is not significant, indicating that the individual characteristics factor is not an influential factor in the demand for long-term care insurance. Therefore, the original hypothesis was accepted that there is no significant relationship between individual characteristics model factors and long-term care insurance demand intention. The regression of Q9 «your current residence type» factor in the family status model and Q24 «are you willing to participate in the long-term care insurance system» is significant, indicating that the Q9 «your current residence type» factor in the family status model is an influential factor in the old-age care insurance demand. Therefore, the original hypothesis was rejected. The Q9 «your current living type» factor in the family status model has a significant relationship with the long-term care insurance demand intention, and the significance level is 0.05. Each factor of the economic status model and the Q24 «Are you willing to participate in the long-term care insurance system» regression are not significant, indicating that the economic status model factor is not affecting the elderly care insurance demand. Therefore, the original hypothesis was accepted that the factors of the economic status model have no significant relationship with long-term care insurance demand intention. In the health status model, there was a significant regression between Q17, «how concerned you are about being incapacitated or lost in old age» and Q24, «are you willing to participate in the long-term care insurance system», indicating that Q17, «How worried you are about being incapacitated or lost in old age» is a factor influencing the demand for long-term care insurance. Therefore, the original hypothesis was rejected. Q17 «you worry about disability or dementia in your old age» factor has a significant relationship with long-term care insurance demand intention, and the significance level is 0.01. Cognitive models of Q21 «before this, do you know long-term care insurance», Q22 «your trust in the government's ability to establish a sound long-term care insurance system» and Q24 «are you willing to participate in the long-term care insurance system» return significantly, explain Q22 «for the government to set up perfect long-term care insurance system of trust» is the factors affecting demand for long-term care insurance.

Therefore, the original hypothesis is rejected, and Q21 «have you known about long-term care insurance and related policies before,» and Q22 «How much trust do you have in the government's ability to establish a sound long-term care insurance system» are significantly correlated with the demand willingness of long-term care insurance, with the significance level of 0.05 and 0.01, respectively.

The factors of the insurance awareness model and the regression of Q24 «are you willing to participate in the long-term care insurance system» are not significant, indicating that the insurance awareness factor is not an influential factor for the old-age care insurance demand. Therefore, the original hypothesis is

denied, and the insurance consciousness model factors are not significantly related to the willingness of demand for long-term care insurance.

**Results.** To deal with the responsible staff, some indicators that could influence their behavior should be understood. And first of all, it's «Ability analysis of long-term care insurance participation».

Basic information of insured capacity: Annual payment.

**Table 15. Frequency analysis of annual payment**

Annual payment	Frequency	The percentage (%)
Up to 10 yuan	37	17.1
10-30 yuan	30	13.9
30-50 yuan	41	19.0
50-70 yuan	22	10.2
70-90 yuan	7	3.2
90-110 yuan	45	20.8
110 yuan and above	34	15.7
Total	216	100.0

Sources: developed by the authors.

It could be seen from the above table that the frequency of annual payment «90-110 yuan» is the highest, followed by «30-50 yuan», accounting for 19%, and the frequency of annual payment «Up to 10 yuan» and «110 yuan and above» is also higher. It could be learned from the different attitudes of different long-term insurance payers. It suggests that a certain degree of flexibility is necessary for designing a long-term care insurance system, and the annual payment could be divided into different levels.

Payment period.

**Table 16. Frequency analysis of payment years**

Payment period	Frequency	The percentage (%)
Within 5 years	101	46.8
6-10 years	77	35.6
11-15years	22	10.2
16-20years	8	3.7
More than 20 years	8	3.7
Total	216	100.0

Sources: developed by the authors.

Table 16 shows that most people tend to have a shorter payment period related to the current society. After all, it is a rapidly developing society now, and people are under great pressure from various mortgage and car loans. When other conditions do not change much, people tend to have shorter contributory years.

The second step is an analysis of the influencing factors of insurance ability. Cross contingency table and chi-square test were used to analyze the influencing factors of long-term care insurance ability.

Cross analysis. Crosstable of the number of children and annual contribution.

**Table 17. Crosstable of number of children and annual contribution**

Variable	Variable	Annual payment						
	statistical index	Up to10 yuan	11-30 yuan	31-50 yuan	51-70 yuan	71-90 yuan	91-110 yuan	Above 110 yuan
Number of children	0	16.0%	13.0%	19.5%	13.0%	3.0%	18.9%	16.6%
	1	16.7%	16.7%	16.7%	0%	.0%	27.8%	22.2%

Continued Table 17

2	25.0%	10.0%	15.0%	.0%	10.0%	35.0%	5.0%
3	0.0%	40.0%	20.0%	.0%	.0%	20.0%	20.0%
4and above	50.0%	25.0%	25.0%	.0%	.0%	0%	.0%

Sources: developed by the authors.

It could be seen from the above table that the annual payment amount of «30-50 yuan» is the most when the number of children is 0; «90-110 yuan» is the most when the number of children is 1; «90-110 yuan» is the most when the number of children is 1; «10-30 yuan» is the most when the number of children is 3; «10-30 yuan» is the most when the number of children is 3 The amount of «less than 10 yuan» is the most. It was defined that with the increase of the number of children, the amount of annual payment decreases to a certain extent.

Crosstable of age and payment years.

Table 18. Crosstable of age and payment period

Variable	Variable statistical index	Payment period				
		Less than 5 years	6-10 years	11-15 years	16-20 years	Above 21 years
Age	18-30 years old	46.4%	35.8%	10.1%	3.9%	3.9%
	31-40 years old	54.5%	27.3%	9.1%	0.0%	9.1%
	41-50 years old	50.0%	28.6%	21.4%	0.0%	0.0%
	51-60 years old	33.3%	55.6%	0.0%	11.1%	0.0%
	Above 61 years old	66.7%	33.3%	0.0%	0.0%	0.0%

Sources: developed by the authors.

Table 18 shows that people of all ages are more inclined to pay for a shorter period. The proportion of people of different ages who choose to pay within five years is 46.4%, 54.5%, 50%, 33.3%, 66.7%.

Chi-square test.

Table 19. Chi-square analysis of monthly income \* annual payment

	Rang	df	Progressive Sig. (bilateral)
Pearson Chi-square	37.950 <sup>a</sup>	28	.099
likelihood ratio(LR)	44.757	28	.023
N in effective cases	216		

Sources: developed by the authors.

As could be seen from the table above, the p-value of chi-square is 0.099. Because P-value is greater than a, the original assumption could be accepted that monthly income and annual fee are independent and unrelated.

Table 20. Chi-square test of the number of children \* annual payment

	Rang	df	Progressive Sig. (bilateral)
Pearson Chi-square	53.516 <sup>a</sup>	28	.003
likelihood ratio(LR)	40.039	28	.066
N in effective cases	216		

Sources: developed by the authors.

It could be seen from the above table that the p-value of chi-square is 0.003. Suppose the significance level  $\alpha$  is 0.05, and the P-value is less than  $\alpha$ . In that case, the original hypothesis that there is a correlation between the number of children and the annual payment could be rejected.

**Table 21. Chi-square test of age \* payment years**

	Rang	df	Progressive Sig. (bilateral)
Pearson Chi-square	9.412 <sup>a</sup>	16	.895
likelihood ratio(LR)	11.378	16	.786
N in effective cases	216		

Sources: developed by the authors.

Table 21 shows the probability P-value of chi-square is 0.895. If the significance level  $\alpha$  is set at 0.05, then the P-value is greater than  $\alpha$ . Therefore, the original hypothesis should be accepted, and it is believed that the age and the years of payment are independent and unrelated. Through investigation and analysis, it was found that more than 65% of the respondents are willing to participate in long-term care insurance. Generally speaking, the respondents prefer to choose the form of home-based care and professional care. Through the cross contingency table analysis, it was found that the demand willingness of long-term care insurance is affected by the location of household registration, age, whether there are disabled or mentally retarded elderly in house, income, and other factors. For example, people with urban registered permanent residence are more willing to demand long-term care insurance than people with rural registered permanent residence; to a certain extent, the older the age, the greater the demand for long-term care insurance; the disabled or mentally retarded elderly at home are more willing to demand long-term care insurance; within a certain range, the higher people's income, the greater the demand for long-term care insurance. The higher people's income, the less they need long-term care insurance. Through regression analysis, it was found that worries about one's own health and trust in the government's ability to establish a sound long-term care insurance system would increase the demand for long-term care insurance to a certain extent. This paper also finds that people tend to have a shorter period and have a greater difference in payment amount, so it should be designed differently and flexibly. The ability to participate in insurance is also affected by income, the number of children, and other factors.

**Conclusions.** It was defined that the human resource management of willingness and ability of long-term care insurance should be present in any country. Summing up the results of the held scientific research it could be done the following recommendations. First of all, strengthening publicity and standardize management of long-term care insurance system. The survey shows that although some people have changed their views on the traditional concept of child care, many people still agree with the traditional concept of child care and simultaneous interpreting. In addition, the survey results also show that most people did not know about the long-term care insurance system before, but after knowing about the long-term care insurance system, more than 65% of the respondents are willing to participate in the insurance. It could be seen that people's old-age care is greatly influenced by the traditional concept and lack of understanding of long-term care insurance, but there is a great demand for long-term care insurance. It requires the government to actively play a guiding role, change the idea that some people only rely on their children to solve the pension problem when conditions permit and let people accept long-term care insurance to avoid risks. In addition, the government and insurance companies should actively promote the long-term care insurance system so that people could learn more about the long-term care insurance system. Some respondents hold a distrusting attitude on the two issues of «the government could establish a perfect long-term care insurance system» and «the regulatory department could ensure the long-term care insurance system». Therefore, the government and insurance companies should standardize the management and operation of the long-term care system to trust the system more.

Secondly should be accelerated the development of the nursing industry. With aging, chronic diseases, and other increasingly serious, China's medical resources are very scarce, especially in the nursing industry. At present, two very important problems of long-term care insurance are «who would provide nursing service» and «what is the specific content of long-term care service». China's nursing service system presents the characteristics of youth and specialization, but the number of people engaged in the nursing industry is too small. The current situation of the medical care industry is that more and more people are needed, but less and less professionals could be provided. At present, many elderly care institutions recruit inexperienced personnel to serve as long-term professional managers. The quality of such care is very poor. In recent years, although the number of nursing institutions in China is increasing, the number of beds for the elderly is still short. Although there are no specific requirements for the content of long-term care services in many areas, it is necessary to standardize the content of long-term care services.

Thirdly, it would be progressive if China absorbed the foreign long-term care insurance experience. The second part of the article shows that foreign countries explored long-term care insurance earlier than China. The management mode and some related systems of foreign long-term care insurance are more mature. Different foreign countries have different systems and practices of long-term care insurance. It could be learned from the foreign long-term care insurance system to formulate a suitable long-term care insurance system and mode in China based on China's national conditions. It could be learned from the lessons of long-term care insurance in Western Europe. The operation of long-term care insurance should not include too much government responsibility. Otherwise, it would bring great financial pressure to the government. Therefore, the government, market, and family should play a role in developing long-term care insurance. For example, China could learn from the experience of Germany to a certain extent, and the government could let all residents participate in the insurance to a certain extent, which is conducive to social fairness and justice. At the same time, both the government and the individual bear part of the payment, which reduces the burden of the government and reduces the burden of the individual.

Fourthly, it should be improved the design of long-term care insurance and increased the types of insurance products. The investigation found great differences in people's choices about «the service form of long-term care insurance you want» and «the payment mode of long-term care insurance you prefer». It could be seen that different people have different requirements for long-term care insurance. It requires us to improve the design of long-term care insurance and increase the types of insurance products in formulating long-term care insurance. This way, it could effectively increase the residents' demand for long-term care insurance products and people's satisfaction with long-term care insurance.

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**Інновації в управлінні людськими ресурсами: готовність та можливість здійснювати страхування на довготривалий період**

Ця стаття присвячена аналізу системи управління людськими ресурсами щодо просування довготривалого страхування у провінції Хенань (Китай) на прикладі міжнародного інноваційного досвіду. Систематизація наукових напрацювань з означеної проблематики засвідчила, що науковці переважно застосовують метод опитування для визначення мотивів працівників страхуватись на довготривалий період. Таким чином, у рамках дослідження застосовано метод експертної оцінки для формування опитувальника. Теоретичною та методологічною основою дослідження стали загальні та спеціальні методи наукового пізнання економічних явищ та процесів. У ході дослідження застосовано діалектичний метод для синтезу теоретичних та методологічних основ управління людськими ресурсами щодо готовності та спроможності здійснювати страхування на довгостроковий період. Опитування проводилось із 20 січня по 31 березня 2020 року. За результатами емпіричного дослідження, встановлено, що частка працівників, які мають наміри страхуватись на довготривалий період та рівнем доходу менше ніж 2000 юань становить 65.4%, із рівнем доходу від 2000 до 4000 юань – 69%, та з рівнем доходу від 4000 до 6000 юань – 74.1%. У роботі застосовано регресійний аналіз для визначення статистичної значущості між залежними та незалежними змінними. Дослідження емпірично підтверджує та теоретично доводить, що рівень проінформованості про страхування не впливає на попит на страхові послуги. Результати дослідження мають практичну цінність та можуть бути корисними менеджерам з управління персоналом при формуванні тактики впливу на поведінку працівників. Таким чином, на основі отриманих результатів дослідження автори сформулювали низку рекомендацій, зокрема: 1) підвищити публічність та стандартизувати систему управління довготривалим страхуванням; 2) сприяти розвитку сестринської справи в Китаї; 3) впроваджувати кращі іноземні практики у сфері довгострокового страхування; 4) удосконалити систему страхування та диверсифікувати страхові послуги.

**Ключові слова:** страхування, Китай, експертна оцінка, управління людськими ресурсами, інновації, міжнародний досвід, страхування на довготривалий період.