

Awareness of initiative practice for health in the Chinese population: A questionnaire survey based on a network platform

By Yi-Qiang Zhang

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 73968

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Awareness of initiative practice for health in the Chinese population: A questionnaire survey based on a network platform

Zhang YQ *et al.* The current understanding of the IPFH in Chinese population

Yi-Qiang Zhang, Ming-Yue Zhou, Meng-Yang Jiang, Xiao-Yu Zhang, Xin Wang, Bao-Guo Wang

Abstract

BACKGROUND

²¹ In 2016, the Chinese Government issued the Healthy China 2030 plan, which also produced the Initiative Practice for Health (IPFH) concept. However, people's knowledge and awareness of the IPFH are unclear.

AIM

To investigate awareness of IPFH in the Chinese population and explore the relevant influential factors.

METHODS

¹ An internet-based self-designed questionnaire survey was used to collect respondents' demographic characteristics, awareness of health and the IPFH from March 26 to April 18, 2020. IPFH consciousness was assessed by the scores for different related questions. ² The *t* test, χ^2 test, and multiple logistic regression analysis were performed to analyze the differences and influencing factors.

RESULTS

A total of 2678 valid questionnaires were collected. Of the respondents, 973 (36.3%) had heard of the IPFH concept. In addition, 89.5% of participants agreed with the view that the IPFH is beneficial to improving quality of life, and over half thought that a regular schedule, a reasonable diet, tobacco and alcohol control, a cheerful mood, specific life goals and plans, taking the initiative to accept health-related education and implement health knowledge, good interpersonal relationships, and regular physical examinations were closely related to the IPFH. The majority of respondents paid attention to their health and usually obtained health-related knowledge *via* social media and were also willing to promote the IPFH. Most of the participants underestimated the role of hospitals, family doctors and health managers in promoting the IPFH. Age, monthly

income and medical-related work experience were the influencing factors for IPFH awareness.

CONCLUSION

The Chinese population has limited knowledge of the IPFH. People with strong IPFH awareness are older, earn more and have medical-related work experience.

Key Words: Population health; Health knowledge, attitudes, practice; Awareness; Chinese population; Initiative Practice For Health

Zhang YQ, Zhou MY, Jiang MY, Zhang XY, Wang X, Wang BG. Awareness of Initiative Practice For Health in the Chinese population: A questionnaire survey based on a network platform. *World J Clin Cases* 2022; In press

Core Tip: This is a survey by self-designed questionnaire to investigate the awareness of IPFH and related knowledge in Chinese population. IPFH is a process that people take the initiative to improve health. Chinese population has limited knowledge of the IPFH, although most citizens are concerned about health in their daily lives. Age, medical-related work experience, monthly income are the influencing factors of the IPFH awareness.

INTRODUCTION

Population health is a common theme worldwide. ¹⁷ In 2015, the United Nations (UN) published the Sustainable Development Goals (SDGs) to ensure sustainable development globally and to solve predictable challenges by 2030. The SDGs have over 100 targets in different fields, including medicine and health^{1, 2}. ¹⁴ As the largest developing country with a population of over 1.4 billion, China has achieved most of the targets, and has made great achievements in promoting health, such as ensuring nutrition for children, decreasing neonatal and under-5 mortality rates as well as the

maternal mortality rate, reducing physical maldevelopment of children, and extending people's lifespan^[3]. However, there are still challenges, such as industrialization and environmental problems, that threaten the health of the Chinese population, especially the aging society and the increasing burden of various age-related chronic diseases^[4, 5]. It is predicted that the number of people aged ≥ 65 years will be 400 million by 2050, accounting for approximately 26.9% of the total population, and the number of people aged ≥ 80 years will increase to 150 million by 2050^[6].

To address health challenges effectively, countries around the world, including China, have adopted different policies^[7-9]. In October 2016, the Central Committee of the Communist Party of China and the State Council released the Healthy China 2030 plan, which aims to address the challenges posed by the UN SDGs, as well as the accompanying economic burden, and to improve people's health by promoting healthy lifestyles, optimizing health services, improving health security, building a healthy environment, and developing health industries by 2030^[10]. The Healthy China 2030 plan will improve the health system of China and make China a modern and healthy country^[11]. First, the focus of health services will shift from the treatment of diseases to health management and disease intervention to decrease health-related costs to some extent^[12]. The Chinese Government's investment in health have continuously increased in recent decades, with nearly 70% of the investment being for treatment^[4]. Additionally, the Healthy China 2030 plan is beneficial for establishing a system in which all citizens participate on a government-led basis and for improving health awareness and enhancing the concept of taking responsibility for one's own health. Furthermore, the plan may be conducive to promoting the rapid development of health-related industries such as health monitoring and management consulting services and thus promote economic development. In addition, by taking the opportunity that the plan represents, traditional Chinese medicine will develop rapidly.

Health is an inevitable requirement for promoting all-round human development, and it is a basic condition for economic and social development. Different people have different understandings of health. The World Health Organization definition of health

- “a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity” – mainly includes four different dimensions – the physical, the psychological, the socially adaptable, and the moral – and it has been accepted worldwide^[13]. The Initiative Practice for Health (IPFH) concept derives from the Healthy China 2030 blueprint. IPFH is a process in which people take the initiative to gain health-related knowledge, improve their lifestyle and ensure their health status. It is based on health management and emphasizes the long-term continuous and dynamic tracking of the individuals’ entire life cycle behavioral system as well as comprehensive detection, assessment, effective intervention and continuous follow-up services for individual or group health conditions and their risk factors affecting health. It highlights the active participation of individuals in personal health management and citizen participation in the healthy development of China. It encourages individuals to find personal ways and to acquire effective knowledge to promote modifiable health-related behaviors in terms of the diet, exercise, society, and mentality to enable healthier lives.

The Chinese Government has made great efforts to promote the Healthy China 2030 plan and IPFH; however, few surveys have explored people’s awareness, knowledge and understanding of IPFH. Therefore, we investigated the relevant knowledge and behaviors related to IPFH as well as the attitudes of people using a self-designed questionnaire to improve the promotion of IPFH and indirectly improve the health of all people.

MATERIALS AND METHODS

Questionnaire

Based on the literature and suggestions of experts in health management, epidemiology and clinical medicine, a self-designed questionnaire including 49 questions was compiled based on the purpose of this research after the group discussion and the preliminary investigation of 55 samples. The survey items mainly covered four parts: (1) demographic characteristics and socioeconomic status, including respondents’

gender, place of residence, age, educational level, work experience, personal income per month, height, weight, body mass index (BMI), *etc.*; (2) knowledge related to health and IPFH; (3) health-related behaviors; and (4) the will to promote IPFH.

IPFH awareness was assessed in terms of five aspects: the view on the aging population in China, knowing about IPFH, the frequency with which the respondent receives health-related science information, the frequency of health consultations and the will to promote IPFH. IPFH awareness was evaluated based on the sum of the scores on these five aspects. According to the results of the preliminary investigation, respondents were considered to have strong IPFH awareness if the score was ≥ 8 points (75% of the median). Otherwise, they were considered to have weak IPFH awareness.

Data collection

The self-designed electronic questionnaire was administered on an online crowdsourcing platform from March 26 to April 18, 2020, and it was sent to Moments and WeChat groups in the form of network links by researchers who voluntarily transmitted the links. The aims of the questionnaire were shown before filling in, informed consent was obtained, and people could refuse to participate. All information was guaranteed to be confidential. The contents could not be changed after completion.

Statistical analysis

The contents were exported from the network platform. Demographic characteristics were represented as the mean \pm standard deviation for continuous variables based on a normal distribution; otherwise, the median (P₂₅–P₇₅) was used. The differences in continuous variables between two groups were tested by a *t* test or Mann–Whitney *U* test. Categorical variables were represented as *n* (%), and the differences between the two groups were tested by χ^2 test or Fisher's exact test. Multiple logistic regression analysis was performed, and the odds ratios (ORs) and 95% confidence intervals (CIs) of the variables are reported. Data analysis and analysis of the credibility of the questionnaire were performed using SPSS for Windows version 25.0 (IBM Corp.,

Armonk, NY, USA). All reported P values were two-tailed, and $P < 0.05$ was considered statistically significant.

Ethical considerations

This survey was approved by the Academic Ethics Committee of the Sanbo Brain Hospital, Capital Medical University. This survey was voluntary, and residents could refuse to participate. All were assured of the confidentiality of their information.

RESULTS

Questionnaire

The Cronbach's α coefficient for the questionnaire was 0.823 and > 0.7 for all dimensions, indicating that the self-designed questionnaire had high credibility. Through expert discussion and evaluation, it was considered that the questionnaire had a certain validity. In total, 2699 questionnaires were collected, with 21 incomplete questionnaires, thus, 2678 questionnaires were included in our analyses.

Sociodemographic characteristics of the participants

The sociodemographic characteristics of the participants are listed in Table 1. In terms of gender, 1566 (58.5%) were female, and 1112 (41.5) were male, for a gender ratio of 1:1.4. The mean age and BMI were 43.3 ± 11.7 years and 23.54 ± 3.15 , respectively. The respondents were from 31 provinces, autonomous regions and municipalities directly under the central government, with 1291 (48.2%) from Northern China, followed by 463 (17.3%) and 328 (12.2%) from Central and Eastern China, respectively. Most of the participants (93.6%) were living in urban areas. With regard to educational level, 1770 (66.1%) of the respondents had a college education, and 652 (24.3%) had a master's degree or above. Nearly three quarters of the participants (74.2%) had medicine-related work experience. For personal income, 1738 (64.9%) of the participants earned > 5000 yuan/month.

Knowledge of health and IPFH

Regarding the statement that “China’s aging population exerts or will exert great pressure on society, families and individuals”, 2286 (85.4%) of the respondents expressed agreement, 121 (4.5%) disagreed, and 271 (10.1%) felt unsure. Only 973 (36.3%) of the participants had heard of IPFH.

Over 95% of the respondents thought that health status included physical and mental health, and 85.3% and 81.8% of respondents thought that good social adaptability and moral health were part of health status (Figure 1A). A total of 89.5% and 88.9% of the respondents agreed that IPFH is beneficial for improving quality of life and preventing diseases; however, only 62.2% of the respondents thought that it would help to reduce the chance of visiting doctors (Figure 1B). Over 50% of the participants selected the following items: a regular schedule, a reasonable diet, tobacco and alcohol control, a cheerful mood, specific life goals and plans, taking the initiative to accept health-related education and implement health knowledge, good interpersonal relationships, and regular physical examinations, which have close relationships with IPFH (Figure 1C). In terms of promoting IPFH, > 70% of the participants thought it would mainly depend on individuals and family members, and less than 50% of those selected hospitals and family doctors (Figure 1D).

Health-related behaviors

As shown in Figure 2A, the majority of the respondents usually paid close attention to health-related knowledge in their daily lives. In addition, 89.5% of the subjects usually acquired health-related popular science knowledge *via* WeChat official accounts or microblogs, and 57.4% and 49.2% of the respondents received such knowledge *via* television and print publications such as magazines and newspapers, respectively (Figure 2B). Over 70% of the respondents were more concerned about aspects such as weight, emotion, appetite and sleep (Figure 2C). Only 33.5% of the participants discussed their own health promotion plans with professionals such as dietitians, fitness instructors and health managers (Figure 2D). With regard to common wearable

devices, such as smart watches, bracelets, sphygmomanometers and insulin pumps, only 71 (2.7%) participants had no thoughts about them (Figure 2E).

Will to promote IPFH

A total of 85.9% of the participants had a desire to become promoters and pioneers of IPFH (Figure 3).

Factors influencing IPFH awareness

Based on the methods mentioned above, IPFH awareness was divided into the strong group and weak group. As illustrated in Table 2, 1065 participants had strong IPFH awareness, and 1613 had weak awareness. Age, place of work or residence, medical-related work experience, monthly income, and BMI were significant factors ($P < 0.05$).

The multivariate logistic regression model used the strength of IPFH awareness as the dependent variable and the factors significantly associated with IPFH awareness (age, place of work or residence, medical-related work experience, monthly income and BMI) as independent variables. Age (OR = 1.752, 95%CI: 1.485–2.067, $P < 0.001$), medical-related work experience (OR = 1.577, 95%CI: 1.308–1.902, $P < 0.001$) and monthly income (OR = 1.123, 95%CI: 1.035–1.217, $P = 0.002$) significantly affected the strength of IPFH awareness (Table 3).

DISCUSSION

This study is one of the first to examine IPFH awareness and related knowledge among Chinese people by using a network platform. It is of importance for understanding and promoting China's development of IPFH and awareness of it. Based on the multivariable binary logistic regression, age, monthly income and medical-related work experience were the factors influencing IPFH awareness. Specifically, participants who were older, had a higher monthly income and had medical-related work experience had strong IPFH awareness. It is not difficult to think that people who are older and who have worked in the medical industry are more inclined to pay more attention to their

health and acquire more health knowledge, which makes their IPFH awareness higher. Participants who have a higher monthly income usually experience less life pressure and, at the same time, usually pay attention to all kinds of information in their daily lives. Thus, they may have more chances and energy to pay attention to their body and to access health knowledge as well as related policies, resulting in a relatively high IPFH awareness. This is similar to the findings of Liu *et al* which showed that less income was associated with low health awareness and health status^[14]. However, it is different from the survey about the awareness of health knowledge among rural residents in Western China conducted by Yuan, *et al.* from July 2011 to April 2012^[15]. It indicated that the health knowledge level of lower income families was higher than that of rich families, and it declined with increasing age. This may because the rural population has particular characteristics and the respondents we surveyed lived in urban areas. We think that more attention should be paid to the people with poor IPFH awareness. Finding the reasons for their poor health awareness and improving the reasons individually will contribute to the development and improvement of the health of the whole population.

Although older people are healthier than in the past, aging of the population is still a huge burden at the societal and individual levels because the number of older people is increasing and they are characterized as being more fragile and susceptible to disease^[16]. According to the Healthy China Action Promotion Committee, older people have been suffering from different diseases for approximately 8.3 years, and approximately 75% of the population had various chronic diseases in 2018^[17]. The annual economic burden of age-related diseases will account for > 40% of the whole population. Our research showed that 85.4% of the participants agreed with the view “China’s aging population exerts or will exert great pressure on society, families and individuals”, although some of participants (4.5%) held the opposite view, which may mean that most citizens in China and worldwide could realize this serious situation. Therefore, they may be more likely to handle this challenge by taking the initiative through related policies led by the government.

Health management is a medical practice and process of comprehensive detection, assessment, effective intervention and follow-up services for health status and the risk factors for individuals and groups^[18]. IPFH is a process based on health management in which people take the initiative to learn health-related knowledge, improve their lifestyle and ensure their own health status. It emphasizes the active participation of individuals in personal health management and citizen participation²⁵ in the development of a healthy China. With the coordinated development of the internet and IPFH, a population information platform for internet and health care and health-related big data systems are expected to be established, thereby executing the plan for internet-based Chinese health services. According to our research, only 36.3% of the respondents had heard of IPFH, which is unsatisfactory for promoting IPFH and, moreover, the Healthy China 2030 plan. The reason for this may be that, on the one hand, the plan is at the early stage in this long-term project, and thus far, the main task has been to build infrastructure and content. Additionally, IPFH appeared based on the implementation of the plan; thus, only a small number of people had heard of it. On the other hand, it is possible that many people may have acquired related knowledge and put it in practice in their daily lives without knowing that the knowledge was related to IPFH. This reminds us that it is better to be specific and comprehensive during the promotion of IPFH.

Over 30% of the participants in our study thought that participating in IPFH was unable to decrease the chance of hospitalization or extend lifespan. Over 20% of the respondents denied that IPFH would have an impact on the progression of diseases. Most participants thought that the use of healthcare products and participation in relevant activities were related to IPFH, which was similar to the results shown by Yang and Meng^[17]. This may be because, on the one hand, some people lack knowledge and awareness of IPFH as well as the occurrence and development of some diseases and lifespan. On the other hand, some people neglect the role of health-related factors such as lifestyle and the environment in the development of diseases, and overlook the role of social adaptation in maintaining health status. Fewer than half of the respondents in

our survey agreed with the role of health professionals including hospitals, family doctors and health managers in promoting IPFH, and only 33.5% wanted to discuss their own health plan with professionals. The reasons may be as follows. First, the traditional opinion held that hospitals and doctors are merely related to treating diseases, but ignored the role of health professionals in health improvement. In fact, the role of hospitals as well as the doctors has already changed^[19] from only treating diseases to addressing the whole process of health and lifespan. Second, health managers are unpopular because IPFH has not spread widely; thus, many people do not accept this occupation. Finally, this result shows that although family doctors have already been advocated by the government, people have less knowledge about the role of family doctors. Despite the importance of family doctors in improving disease management and health awareness^[20], the rate of enjoying contractual services from family doctors is still low^[21-23]. It is reassuring that most participants wanted to be promoters and practitioners of IPFH and health projects. We have every reason to look forward to the development and optimistic results of the Healthy China 2030 plan and IPFH because individuals are willing to take responsibility as members of the health industry. It is not difficult to imagine that with the wide publicity and smooth implementation of the plan and IPFH, people will accept and know this concept better and take the initiative to put their knowledge into practice.

Our survey showed that most participants paid close attention to health-related information and almost every health-related indicator, and there were hardly any participants who did not know about health-related wearable devices. This means that with the development of society and improved living standards, as well as the promotion of health awareness,²² people are increasingly paying more attention to their health, and there are more chances to know things about high-tech health-related equipment. This is a good condition for promoting the Healthy China 2030 plan and IPFH.

² As one of the most important components of IPFH, health knowledge and health behaviors are important to improve health status^[19,24,25]. We found that the main

approach to obtaining health information was *via* a network platform. This is related to the fact that people are inclined to spend more time and obtain various information from mobile devices rather than from magazines and newspapers^[26, 27]. With the development of 5G and various applications in mobile devices, there should be more ways to promote IPFH and health monitoring, except for the traditional approaches such as Health Days, Media Publicity, *etc.* Mobile phone technology can be a possible solution to improve healthcare outcome and it has already been used in management of some diseases and health monitoring^[28, 29]. This reminds us that it is better to promote the Healthy China 2030 plan and IPFH by using network platforms in mobile devices such as WeChat and microblogs, which are one of the most common applications for all ages. A comprehensive, effective and low-cost health management network-platform maybe a good way. As an essential component of health projects, numerous types of high-tech wearable equipment can be applied, and individuals can acquire health information and indicators quickly so that they know their own body status in a timely manner and result in a healthy life conditions^[30-33]. This has the potential for development and for promotion of the Healthy China 2030 plan and IPFH to rapidly popularize and develop the health industry in the future.

This survey-based study had several limitations. First, although the self-designed questionnaire that we used to collect data in a network platform was proven to be reliable based on statistical testing, there were still some disadvantages. For example, we cannot guarantee the authenticity of the data and the distribution of the participants. The distribution of the participants was biased. Most were from urban areas, had a college degree or above and had medical-related work experience. The reason for this may be that we administered the questionnaire over the internet and its network link spread mainly *via* WeChat and Moments, leading to limitation of the survey population. This reminds us that we have ignored the population who are disconnected from the internet and missed some people who really need to raise IPFH awareness, such as those in rural areas. There should be further surveys with comprehensive methods to assess the situation of the entire population. In addition, we have ignored the possibility

that many individuals have knowledge related to IPFH and put it in practice in their daily lives but have never heard of the concept. This requires us to expand the methods and the content of the survey in the form of questionnaires in further studies. Despite these limitations, this survey provides key insights to promote IPFH and develop health programs in China, and the results may affect future interventions to promote the health status of the Chinese population as a whole, as well as the development of the global health industry.

CONCLUSION

The Chinese population has limited knowledge about IPFH, although most people in the population are concerned about health in their daily lives. People with strong IPFH awareness are older, earn more and have medical-related work experience. To ensure the rapid popularization of IPFH and smooth development of the Healthy China 2030 plan, more focus should be given to young people, low-income populations, rural populations and people with a low level of education by the government, medical-related personnel, and health managers.

ARTICLE HIGHLIGHTS

Research background

To address health challenges effectively, the Chinese Government issued the Healthy China 2030 as well as the concept of the Initiative Practice For Health (IPFH) to improve health among Chinese population. However, there is no related survey investigating the IPFH awareness, and the knowledge and understanding of IPFH are still unclear.

Research motivation

The awareness of IPFH is related directly to the health status. At the same time, finding the factors influencing IPFH awareness is of great importance ²³ to improve the health status of the Chinese population as a whole and the development of the global health industry in the future.

Research objectives

To investigate awareness of IPFH in the Chinese population and explore the relevant influential factors. Besides, finding the risk population and effective interventions to improve health.

Research methods

Based on the statistical testing, a network-platform electronic survey conducted by a self-design questionnaire is used to investigate, which is a comprehensive and objective method involving different people.

Research results

Fewer than half of participants had heard about the IPFH. There was a lack of knowledge about IPFH among participants. Age, monthly income and medical-related work experience were the factors influencing IPFH awareness.

Research conclusions

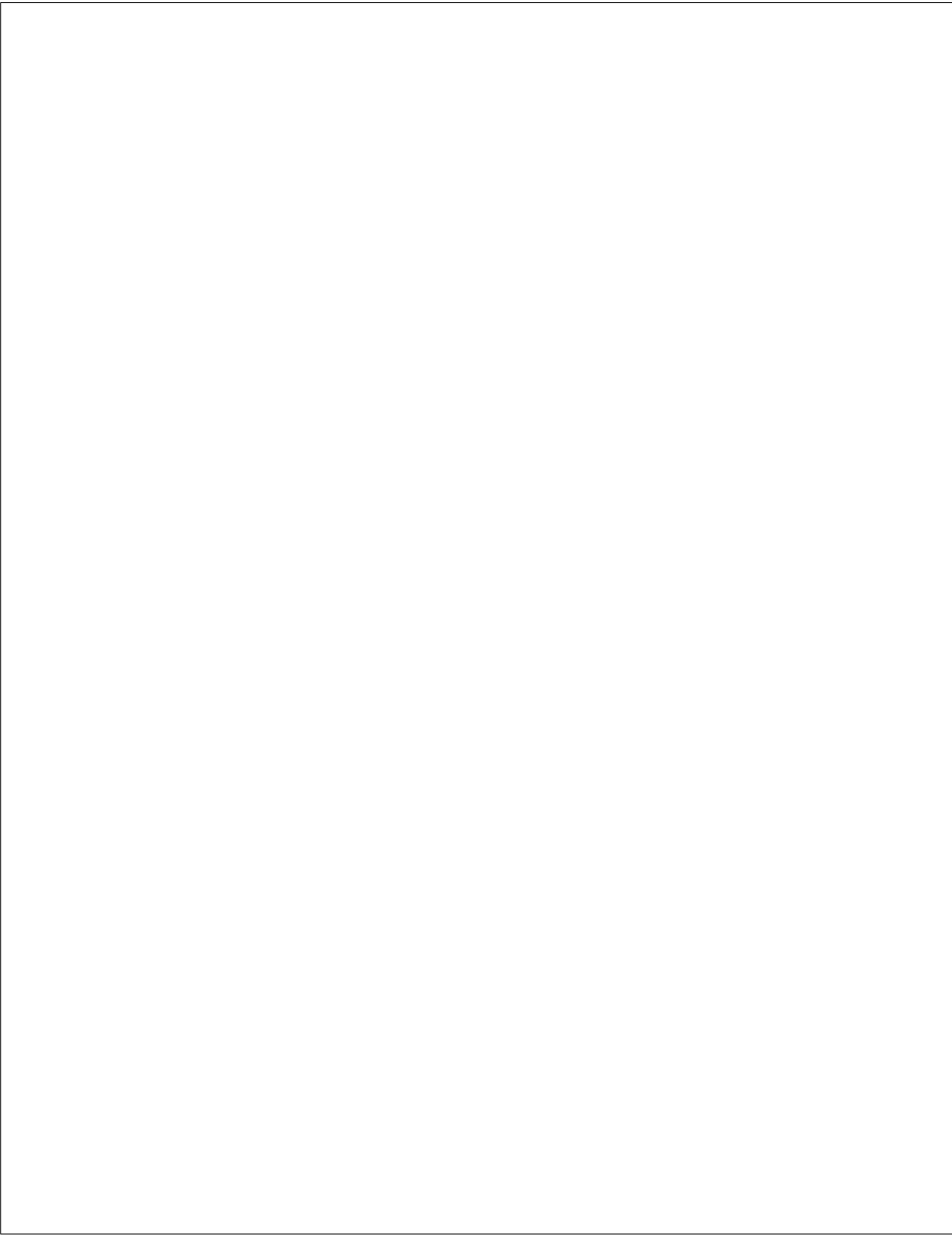
The Chinese population has limited knowledge of the IPFH. People with strong IPFH awareness are older, earn more and have medical-related work experience.

Research perspectives

More further surveys with comprehensive methods to assess the situation of the entire population are needed. And effective interventions should be conducted for the people who have weak IPFH awareness.

ACKNOWLEDGEMENTS

Thanks to all who contributed to the investigation, and Ms. Xiao-Ran Yang and Mr. Guang-Yuan Jiao for their careful revision and guidance for the manuscript.



Awareness of initiative practice for health in the Chinese population: A questionnaire survey based on a network platform

ORIGINALITY REPORT

10%

SIMILARITY INDEX

PRIMARY SOURCES

1	www.ncbi.nlm.nih.gov Internet	99 words — 2%
2	www.science.gov Internet	37 words — 1%
3	infostore.saiglobal.com Internet	28 words — 1%
4	H. Gu, G. Xuan, Y. Zhou, M. Li, M. Chen, Y. Wang. "Functional outcomes after submandibular gland-sparing neck dissection in patients with oral squamous cell carcinoma", International Journal of Oral and Maxillofacial Surgery, 2021 Crossref	27 words — 1%
5	journals.sagepub.com Internet	22 words — < 1%
6	link.springer.com Internet	22 words — < 1%
7	Xinming Zhang, Lihua He, Xuezhen Wang, Qing Gu, Peng Shi, Yundong Sun. "Anti-Aging and Photovoltaic Property of Monocrystalline Silicon in Outdoor	21 words — < 1%

-
- | | | |
|---|--|---------------------------|
| <div style="background-color: #4a4a8a; color: white; padding: 5px; display: inline-block; width: 30px; text-align: center; line-height: 1;">8</div> | <p>Lin Chen, Xiao-Hong Li, Xiao Pan, Qi-Ni Pan, Hui-Qiao Huang, Pin-Yue Tao, Gao-Ye Li, Jin-Hui Ma, Jing-Can Huang. "Nurses' knowledge, attitudes, and willingness to practice hospice care: An analysis of influencing factors", PLoS ONE</p> <p>Internet</p> | <p>20 words — < 1%</p> |
|---|--|---------------------------|
-
- | | | |
|---|--|---------------------------|
| <div style="background-color: #800080; color: white; padding: 5px; display: inline-block; width: 30px; text-align: center; line-height: 1;">9</div> | <p>f6publishing.blob.core.windows.net</p> <p>Internet</p> | <p>17 words — < 1%</p> |
|---|--|---------------------------|
-
- | | | |
|--|--|---------------------------|
| <div style="background-color: #4b6116; color: white; padding: 5px; display: inline-block; width: 30px; text-align: center; line-height: 1;">10</div> | <p>bio-protocol.org</p> <p>Internet</p> | <p>15 words — < 1%</p> |
|--|--|---------------------------|
-
- | | | |
|--|--|---------------------------|
| <div style="background-color: #333399; color: white; padding: 5px; display: inline-block; width: 30px; text-align: center; line-height: 1;">11</div> | <p>Aniefiok John Udoakang, Alexandra Lindsey Djomkam Zune, Kesego Tapela, Owoicho Oloche et al. "Knowledge, Attitude and Perception of West Africans Towards COVID-19: A Survey to Inform Public Health Intervention", Research Square Platform LLC, 2021</p> <p>Crossref Posted Content</p> | <p>14 words — < 1%</p> |
|--|--|---------------------------|
-
- | | | |
|--|---|---------------------------|
| <div style="background-color: #005596; color: white; padding: 5px; display: inline-block; width: 30px; text-align: center; line-height: 1;">12</div> | <p>Yinan Yang, Yingying Meng. "Is China Moving Towards Healthy Aging? —A tracking study based on 5 phases of CLHLS data", Research Square, 2020</p> <p>Crossref</p> | <p>14 words — < 1%</p> |
|--|---|---------------------------|
-
- | | | |
|--|--|---------------------------|
| <div style="background-color: #cc0000; color: white; padding: 5px; display: inline-block; width: 30px; text-align: center; line-height: 1;">13</div> | <p>assets.researchsquare.com</p> <p>Internet</p> | <p>14 words — < 1%</p> |
|--|--|---------------------------|
-
- | | | |
|--|--|---------------------------|
| <div style="background-color: #cc00cc; color: white; padding: 5px; display: inline-block; width: 30px; text-align: center; line-height: 1;">14</div> | <p>newsghana.com.gh</p> <p>Internet</p> | <p>14 words — < 1%</p> |
|--|--|---------------------------|
-
- | | | |
|--|--|---------------------------|
| <div style="background-color: #800080; color: white; padding: 5px; display: inline-block; width: 30px; text-align: center; line-height: 1;">15</div> | <p>www.2288.co.uk</p> <p>Internet</p> | <p>12 words — < 1%</p> |
|--|--|---------------------------|
-

16 Xiaopeng Shang, Yangmei Huang, Bi'e Li, Qing Yang, Yanrong Zhao, Wei Wang, Yang Liu, Junfen Lin, Chonggao Hu, Yinwei Qiu. "Residents' Awareness of Family Doctor Contract Services, Status of Contract with a Family Doctor, and Contract Service Needs in Zhejiang Province, China: A Cross-Sectional Study", International Journal of Environmental Research and Public Health, 2019
Crossref 11 words — < 1%

17 sainsburys.production.investis.com
Internet 11 words — < 1%

18 edepot.wur.nl
Internet 10 words — < 1%

19 Ben Wang, Jie Jin, Zhen - xuan Shao, Guang - yong Yang et al. "Wright's Technique with the Addition of Visualized Axial Cortical Windows in Odontoid Fractures", Orthopaedic Surgery, 2021
Crossref 9 words — < 1%

20 Bing-Yen Wang, Chao-Yu Liu, Ching-Hsiung Lin, Po-Kuei Hsu, Wen-Hu Hsu, Yu-Chung Wu, Ching-Yuan Cheng. "Endoscopic Tumor Length Is an Independent Prognostic Factor in Esophageal Squamous Cell Carcinoma", Annals of Surgical Oncology, 2012
Crossref 9 words — < 1%

21 www.amchamchina.org
Internet 9 words — < 1%

22 Yao Yao. "An Analysis of the Trend of Yunnan Education Development under the Background of Healthy China", 2021 2nd International Conference on Computers, Information Processing and Advanced Education, 2021
Crossref 8 words — < 1%

23

careersdocbox.com
Internet

8 words — < 1%

24

ebin.pub
Internet

8 words — < 1%

25

www.engineering.org.cn
Internet

8 words — < 1%

EXCLUDE QUOTES OFF
EXCLUDE BIBLIOGRAPHY OFF

EXCLUDE MATCHES OFF