

Factors Affecting the Development of Community Sports in Wuzhou City, China

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Abstract

With the increasing emphasis on the health of the Chinese people, community sports in China have developed rapidly. In order to implement national policies, community sports in Wuzhou City have also developed rapidly. However, there are also many problems and defects. Therefore, it is very important to study the influencing factors of the development of community sports in Wuzhou City and ensure its further development. The purpose of this study is to: (1) To study the current situation the development of community sports in Wuzhou City, China (2) To analyze factors positive affecting the development of community sports in Wuzhou City, China (3) To examine and confirm the developing direction of community sports in Wuzhou City, China). This study adopted a mixed research method that combines qualitative and quantitative methods. step1: In the qualitative research section, expert was used to investigate the current situation the development of community sports in Wuzhou City, China . total of 10 participants. The tool used in this study is a structured interview. Step 2: In the quantitative research section, analyze factors positive affecting the development of community sports in Wuzhou City, China .the sample consists of 340 respondents and is obtained through sampling. Use the method used to determine that the sample size is 20 times the inventory variable to calculate the sample size. Collect data using questionnaire survey method and analyze using structural equation modeling(SEM).Step 3: Through a qualitative analysis research, 10 experts conducted focus group discussions.experts have examined and discussed the feasibility, suitability, practicality, and accuracy of the development direction of community sports in Wuzhou City, China. The direction of community sports development in Wuzhou, China was ultimately confirmed.

The research results indicate that: (1) Through investigation, the development of community sports in Wuzhou City has shown a positive trend, with significant improvements in community sports facilities; The participation in community sports in Wuzhou City has steadily increased, with more and more residents regularly participating in sports activities. Although community sports in Wuzhou City have made positive progress, they still face challenges such as a lack of professional coaches, inadequate facility maintenance, and limited awareness of the importance of sports activities among some populations. (2) The research results show that government support has a significant positive impact on the development of community sports in Wuzhou City, China ($P=0.000<0.05$). Community sports facilities have a significant positive impact on the development of community sports in Wuzhou City, China ($P=0.000<0.05$).Community organization and management have a significant positive impact on the development of community sports in Wuzhou City, China ($P=0.000<0.05$).Resident community participation has a significant positive impact on the development of community sports in Wuzhou City, China ($P=0.000<0.05$). (3)Experts unanimousil agree that the developing direction of community sports in Wuzhou City, China is feasibility, useful,

appropriate and accuracy. The finding of the research can be used in developing community sports in other cities in China and around the world. The strategies and policies implemented in Wuzhou City can serve as a model for other regions to follow, especially in terms of government support, infrastructure development, organizational management, and community engagement.

Keywords: Factors affecting the development, Community sports; Government support; Community sports facilities; Community organization and management; Resident Participation in the community

Introduction

Firstly, many community sports activities lack professional guidance, which not only affects residents' enthusiasm for participating in sports activities, but also limits the quality and effectiveness of sports activities. Secondly, despite investing a certain amount of funds, the aging and damage of facilities still exist, affecting the user experience of residents. Finally, raising awareness among some groups of people about the importance of sports activities is also a current issue that needs attention. There are still some residents who have insufficient awareness of this and are unwilling to participate. (Wuzhou Municipal Government, 2018).

In response to the above issues, this study proposes the following needs: firstly, it is necessary to increase the training and introduction of professional sports talents, and improve the professional level of community sports activities. Secondly, a more comprehensive plan for maintaining and updating sports facilities should be developed to ensure that the facilities can meet the needs of residents. In addition, it is necessary to strengthen the promotion and education of sports activities through various channels, raise residents' awareness of the importance of sports activities, and encourage more people to participate in sports activities.

By addressing these issues and meeting these needs, the development of community sports in Wuzhou City will be more balanced and sustainable, providing valuable experiences and models for other cities to learn from.

Research Objectives

1. To study the current situation the development of community sports in Wuzhou City, China
2. To analyze factors positive affecting the development of community sports in Wuzhou City, China
3. To examine and confirm the developing direction of community sports in Wuzhou City, China).

Literature Review

1. The policy of the factors affecting the development of community sports

On September 8, 2022, the General Administration of Sport of China issued the "2022 Key Points for Mass Sports Work", which stipulated that strengthening community sports work is an important measure to promote the widespread development of national fitness activities and comprehensively improve the public's health level and quality of life (General Administration of Sport of China, 2022).

Guangxi Zhuang Autonomous Region has released the 14th Five Year Plan for Sports Development in Guangxi Zhuang Autonomous Prefecture, with the goal of establishing a comprehensive national fitness service system and achieving full coverage of fitness facilities networks at the city, county, township, and administrative village (community) levels (Guangxi Sports Bureau, 2021).

According to the 14th Five Year Plan for Sports Development in Guangxi Zhuang Autonomous Region, Wuzhou City will strive to strengthen the construction of sports facilities, meet the public's sports needs, stimulate citizens' active participation in sports exercise, and make positive contributions to building a modern sports strong city (Wuzhou Municipal Government, 2018).

2. The concept of the development of community sports

Zhuang & Chen (2023: p.73) In the "Research on Countermeasures for High-Quality Development of Community Sports Services in China under the Background of Population Aging," posits that community sports refer to sports activities organized within a specific community to meet the health, entertainment, and social needs of residents. These activities not only promote residents' physical health but also strengthen community cohesion and residents' sense of belonging.

Wu (2024: p.28) pointed out in "The Development of Community Sports from the Perspective of 'Lifelong Sports': Value Connotation, Practical Difficulties, and Breakthrough Paths" that the development of community sports not only helps improve residents' physical fitness, but also promotes the construction of community culture and enhances communication and cooperation among residents. The concept of lifelong sports emphasizes that sports activities should run through a person's entire life. Community sports, as an important way to achieve lifelong sports, can provide suitable physical exercise opportunities for residents of different age groups, thereby achieving the sustainability and development of sports activities.

3. Community Development Theory

The theory of community development emphasizes the integration and utilization of internal and external resources in the community to promote comprehensive development in various aspects such as economy, society, and culture. From the perspective of community sports, this theory provides us with important guiding ideas. Specifically, as an important component of community development, community sports not only directly improve residents' physical fitness, but also promote interaction and communication within the community through the organization and content of sports activities, enhance community cohesion, and further promote the prosperity of community culture and the harmony of social relations (Zhu & Guan, 2024: P.40).

4. Factors Affecting the Development of Community Sports in Wuzhou

The development of community sports in Wuzhou is influenced by various factors, each of which plays a crucial role in the success and sustainability of these initiatives. After text analysis, it was found that the development of community sports in Wuzhou City needs to address factors such as government support, community sports facilities, community organization and management, and resident participation, in order to create a vibrant and inclusive community sports environment for Wuzhou City, promote residents' physical health, social cohesion, and strong sense of belonging.

5. Related research

Li (2023) studies the development of community sports in "urban villages" in Beijing, analyzes the role and effects of government policies, and provides insights for policy makers. The research subjects are 100 community sports organizations and 500 participants. The results show that government policies play a key role in promoting development, with financial support, infrastructure construction, and training projects having a positive impact. However, there are issues with insufficient policy implementation, ineffective interdepartmental coordination, and unequal resource allocation.

Zhong's (2021) research focuses on innovation in the governance of sports services for the elderly in urban communities in Shanghai, surveying 80 community sports centers and 300 participants, including organizers, coaches, and residents. Research has found that the implementation of community sports policies in Shanghai is generally satisfactory, but faces challenges such as limited funding, insufficient employee training, and a lack of communication channels between policy makers and communities. It is recommended to improve policy transparency, strengthen employee training, and promote residents' participation in policy formulation and evaluation.

Research Methodology

The first step is for researchers to search for literature, books, theories, and related research in relevant professional disciplines both domestically and internationally. Collect data through interviews and use purposive random sampling to select the target sample group, in order to understand and summarize the current situation of community sports development in Wuzhou, China.

The second step is to use a Chinese online questionnaire platform for data collection. Then use SmartPLS4 to analyze the collected questionnaire data, establish a structural equation model, and verify four hypotheses.

The third step is focus group discussion. The interview data related to the factors influencing the development of community sports in Wuzhou, China, collected through group discussions and expert discussions on opinions and information, will be encoded for qualitative research. Using the evaluation table of factors influencing the development of community sports in Wuzhou, China, analyze the information in the focus group discussion through content analysis. Check and confirm the feasibility, applicability, effectiveness, and accuracy of the development direction of community sports in China.

Research Conceptual Framework

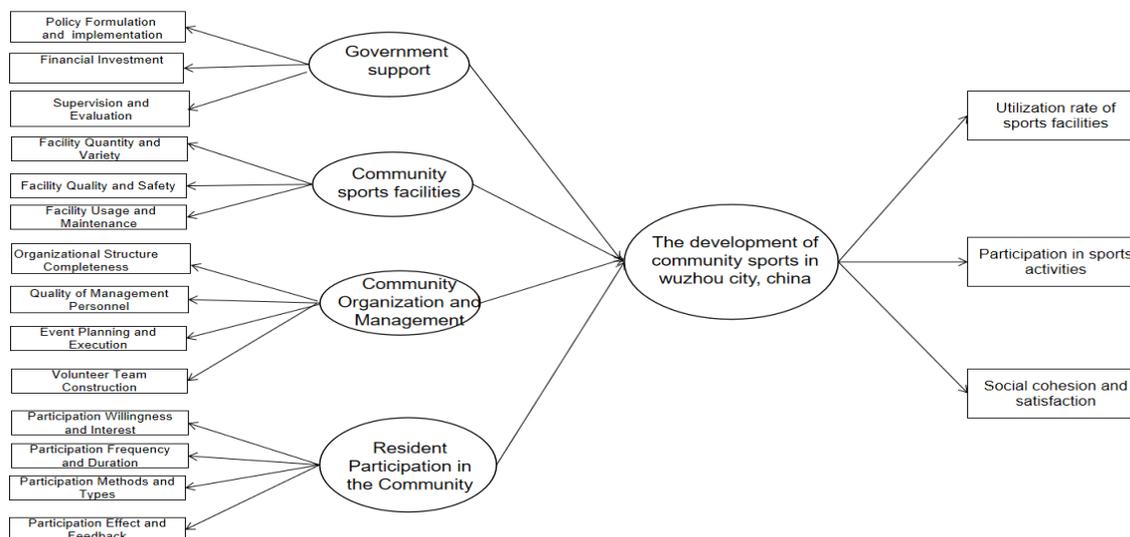


Figure 1 Conceptual model
 Source: Constructed by the researcher

This conceptual model provides four factors: government support, community sports facilities, community organization and management, and resident participation in the community, which are related to the development of community sports in Wuzhou City, China. The basic assumption relationship between them. Assuming the following:

H1: Government support affect the development of community sports in Wuzhou.

H2: Community sports facilities affect the development of community sports in Wuzhou.

H3: Community organization and management affect the development of community sports in Wuzhou.

H4: Resident Participation in the community affect tthe development of community in Wuzhou

Research Results

1. Current Status of Community Sports Development in Wuzhou City, China

The research results indicate that the development of community sports in Wuzhou City has been steadily advancing, but it also faces some challenges. The current situation can be summarized as follows: (1) Government support: The local government has shown a positive attitude towards the development of community sports, providing necessary financial assistance and policy support. However, the efficiency of resource allocation and the implementation of policies need to be further improved (2) Community sports facilities: There has been significant improvement in the construction of community sports facilities in Wuzhou City. The new facilities have been built and the existing facilities have been renovated. However, the distribution of these facilities is uneven, and some areas are easier to access than others. In addition, there are still maintenance issues, and some facilities lack regular maintenance and upkeep, which affects the user experience of residents. (3) Community

organization management: The management system of community sports organizations is gradually improving. Volunteer organizations and community sports associations are playing an increasingly important role in promoting sports activities. However, more professional managers and standardized operating procedures are still needed to improve the quality and efficiency of community sports management. (4) Resident participation: The high enthusiasm of residents to participate in community sports activities is a positive sign of the development of community sports. However, it is necessary to increase the diversity and frequency of activities to meet the interests and needs of different groups, especially the elderly and youth.

2. Analyze factors positive affecting the development of community sports in Wuzhou City, China

2.1 Descriptive statistical analysis

The demographic characteristics of the respondents were analyzed in this study. The organization analyzed the basic information of the respondents and described the overall distribution of the sample from seven aspects: gender, age, education background, nature of work, Working period, is your occupation related to Sports, and If yes, your occupation is.

2.2 Reliability and validity analysis

Table 1 First-order construct reliability test results table

Dimension	Number of measurement items	Cronbach's Alpha
Policy Formulation and implementation	4	0.886
Financial Investment	4	0.901
Supervision and Evaluation	4	0.812
Facility Quantity and Variety	4	0.886
Facility Quality and Safety	4	0.890
Facility Usage and Maintenance	4	0.834
Organizational Structure Completeness	4	0.883
Quality of Management Personnel	4	0.867
Event Planning and Execution	4	0.823
Volunteer Team Construction	4	0.836
Participation Willingness and Interest	4	0.872
Participation Frequency and Duration	4	0.864
Participation Methods and Types	4	0.823
Participation Effect and Feedback	4	0.834
Utilization rate of sports facilities	4	0.887
Participation in sports activities	4	0.876
Social cohesion and satisfaction	4	0.836

This study conducted a reliability analysis on all first-order structures in the questionnaire. The corresponding internal consistency reliability is shown in the table above. The Cronbach alpha coefficients of each section are all greater than 0.7, indicating that the questionnaire used in this study has good reliability.

2.3 Validity analysis

Table 2 Validation Factor AVE and CR Index Values

Factor dimension	AVE	CR	Factor dimension	AVE	CR
Policy formulation and implementation	0.748	0.893	Volunteer Team Construction	0.679	0.843
Financial Investment	0.714	0.866	Participation Willingness and Interest	0.738	0.888
Supervision and Evaluation	0.709	0.864	Participation Methods and Types	0.792	0.918
Facility Quantity and Variety	0.773	0.903	Participation Frequency and Duration	0.688	0.851
Facility Quality and Safety	0.716	0.873	Participation Effect and Feedback	0.632	0.811
Facility Usage and Maintenance	0.788	0.916	Utilization rate of sports facilities	0.693	0.854
Organizational Structure	0.710	0.865	Participation in sports activities	0.668	0.836
Completeness					
Quality of Management	0.658	0.827	Social cohesion and satisfaction	0.672	0.837
Personnel					
Event Planning and Execution	0.666	0.835			

This confirmatory factor analysis (CFA) was conducted on a total of 17 factors and 68 analysis items. As shown in the Table, it can be seen that the AVE values corresponding to a total of 17 factors are all greater than 0.5, and the CR values are all higher than 0.7, indicating that the data analyzed in this study has good convergent validity.

2.4 Structural Equation Model

This study used SmartPLS4.0 to establish a path model and imported the collected 340 sample data into it. The path model estimation diagram is shown in Figure 2.

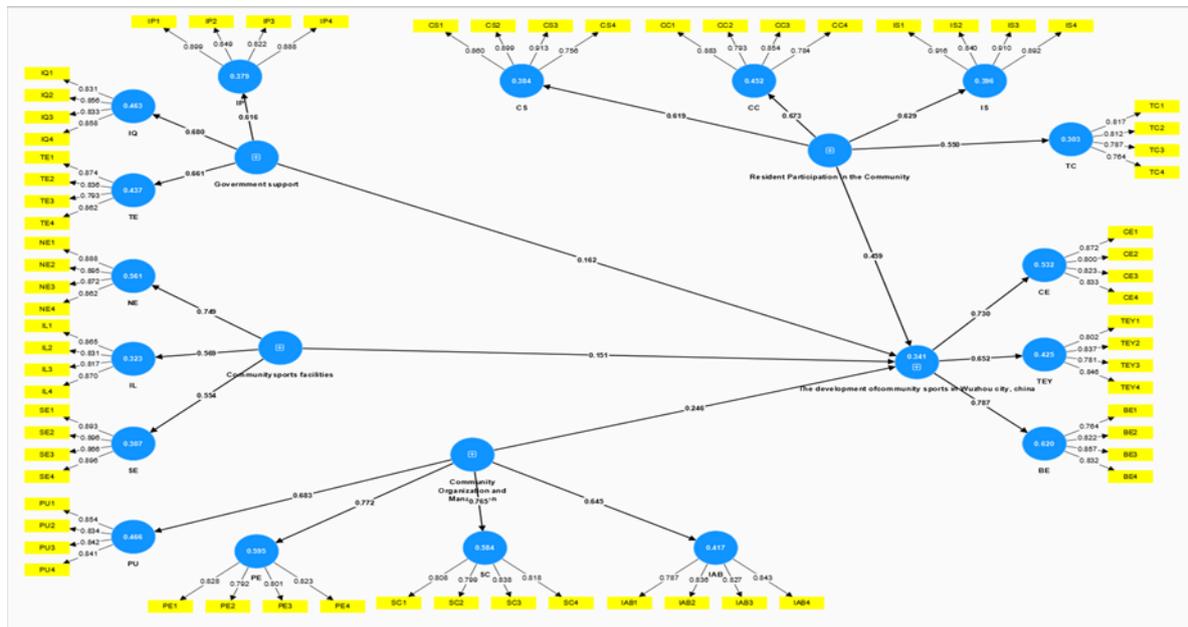


Figure 2 research path model diagram
Source: Constructed by the researcher

2.5 Correlation analysis

Table 3 Correlation analysis between variables

Variable	Community Organization and Management	Community sports facilities	Government support	Resident Participation in the community Community	The development of community sports in Wuzhou city, china
Community Organization and Management	1				
Community sports facilities	0.121	1			
Government support	0.008	0.101	1		
Resident Participation in the community Community	0.017	0.064	0.053	1	
The development of community sports in Wuzhou city, china	0.268	0.225	0.205	0.487	1

Note: **Correlation is significant at the 0.01 level (2-tailed)

From the data in the table, we can see that the Pearson correlation coefficient between most variables is greater than 0, and there is a significant positive correlation. It can be concluded that there is a significant correlation between the variables. Therefore, the correlation of the variables is in line with the expected assumptions, and the next stratification can be carried out regression analysis and structural equation analysis

2.6 Coefficient of determination- R²

Table 4 Variable Interpretation Rate

item	R ²	Result
IP	0.379	medium
IQ	0.463	medium
TE	0.437	medium
NE	0.561	medium
IL	0.323	medium
SE	0.307	medium
PU	0.466	medium
PE	0.595	medium
SC	0.584	medium
IAB	0.417	medium
CC	0.452	medium
CS	0.384	medium
IS	0.396	medium
TC	0.303	medium
CE	0.532	medium
TEY	0.425	medium
BE	0.620	medium
The development of community sports in Wuzhou city, china	0.341	medium

The calculation results show that the predictive explanatory rate of the 4 independent variables in the model: Community Organization and Management, Community sports facilities, Government support, Resident Participation in the community for The development of community sports in Wuzhou city, china is 0.341, higher than 0.330, belonging to a moderate or above explanatory level.

2.7 Effect size f²

Table 5 Variable prediction determination coefficient

item	the development of community sports in Wuzhou City, China
Community Organization and Management	0.090
Community sports facilities	0.034
Government support	0.039
Resident Participation in the community	0.319
Community	

The calculation results show that the predictive coefficients of dependent variables such as community organization and management, community sports facilities, and resident Participation in the community Community government support are all higher than 0.02, indicating that the predictive performance of the model is relatively good.

2.8 Predictive relevance Q^2

Table 6 Predicted correlation scores

Item	SSO	SSE	$Q^2 (=1-SSE/SSO)$
Government support	4080	4080	0.000
IP	1360	1001.803	0.263
IQ	1360	932.783	0.314
TE	1360	959.691	0.294
Community sports facilities	4080	4080	0.000
NE	1360	799.462	0.412
IL	1360	1073.644	0.211
SE	1360	1065.011	0.217
Community Organization and Management	5440	5440	0.000
PU	1360	917.678	0.325
PE	1360	835.239	0.386
SC	1360	841.023	0.382
IAB	1360	985.449	0.275
Resident Participation in the community Community	5440	5440	0.000
CS	1360	988.649	0.273
CC	1360	947.671	0.303
IS	1360	948.982	0.302
TC	1360	1111.925	0.182
The development of community sports in Wuzhou city, china	4080	3606.895	0.116
CE	1360	873.83	0.357
TEY	1360	987.238	0.274
BE	1360	805.509	0.408

Note: **Correlation is significant at the 0.01 level (2-tailed)

In the structural model, Q^2 represents the predictive correlation of variables, and the larger the value, the stronger the predictive correlation. The calculation results show that the Q^2 statistical correlation between variables and the development of community sports in Wuzhou City, China is 0.116, indicating that the selected community organizations and management, community sports facilities, government support, and community resident participation have relatively good predictive effects on the dependent variables of community sports development in Wuzhou City, China

2.9 Structural model path coefficients/relationships

Table 7 Hypothesis Testing

Item	Path relationship	path coefficient	T	P value	Decide
Assumption	Government support -> The development of community sports in Wuzhou city, china	0.162	3.307	0.001	Supported
Assumption	Community sports facilities -> The development of community sports in Wuzhou city, china	0.151	3.238	0.001	Supported
Assumption	Community Organization and Management -> The development of community sports in Wuzhou city, china	0.246	5.394	0.000	Supported
Assumption	Resident Participation in the community -> The development of community sports in Wuzhou city, china	0.459	9.718	0.000	Supported

Note: CR=Composite Reliability, AVE=Average Variance Extracted, *p-value<0.05

It will test and validate the research hypotheses proposed in this article, including direct effects and moderating effects. In this study, the path coefficients of the PLS algorithm in Smartpls 4.0 were used to measure the impact. If the path coefficient is greater than 0, it indicates a positive impact. A path coefficient less than 0 indicates a negative impact. The size of the path coefficient represents the magnitude of the impact. Meanwhile, the t-value must be greater than the critical value, and the P-value must be less than the critical value to confirm significance. The direct effect test is shown in the table: Assuming H1 is validated, Government support significantly positively affects The development of community sports in Wuzhou city, china ($\beta = 0.162$, $T=3.307 > 1.960$, $P=0.000 < 0.05$). Community sports facilities have a significant positive impact on The development of community sports in Wuzhou city, china ($\beta = 0.151$, $T=3.238 > 1.960$, $P=0.000 < 0.05$), assuming H2 is validated. Community Organization and Management have a significant positive impact on The development of community sports in Wuzhou city, china ($\beta = 0.246$, $t=5.394 > 1.960$, $P=0.000 < 0.05$), assuming H3 is validated. Assuming H4 is validated, The Resident Participation in the community has a significant positive impact on The development of community sports in Wuzhou city, china ($\beta = 0.459$, $T=9.718 > 1.960$, $P=0.000 < 0.05$), assuming H4 was validated.

3. Examine and confirm the developing derection of community sports in Wuzhou City, China

Experts examine and confirm the developing derection of community sports in Wuzhou City, China is feasibility, useful, appropriate.ultimately creating a vibrant community sports culture that not only promotes sports activities but also cultivates social cohesion and community spirit.

Discussion

1. Government support has had a positive impact on community sports in Wuzhou City, China. The sustained growth and success of community sports rely on sustained, strategic, and innovative government support. The government plays a crucial role in enhancing citizen well-being and building healthier communities by creating an environment that encourages participation, improves infrastructure, and promotes inclusivity. Corresponding research literature: Cheng(2024)Research on the High-Quality Construction of Community Sports Public Service System in China in the New Era.

2. Community sports facilities has a significant positive impact on the development of community sports in Wuzhou City, China, The popularization and diversification of community sports facilities provide residents with more sports choices, thereby stimulating their enthusiasm for participating in sports activities, improving their physical fitness, enhancing their social skills and sense of community belonging. Corresponding research literature: Mao,Duan & Liu(2021). Analysis on the current use and transformation and upgrading paths of urban community sports facilities.

3. Community organization and management has a significant positive impact on the development of community sports in Wuzhou city,china, Effective community organization not only allocates resources rationally and enhances the accessibility of sports facilities but also significantly increases residents' participation. Corresponding research literature: Bai(2023)The Dilemma and Path Selection of Community Sports Social Organizations in China.

4. Resident Participation in the community has a significant positive impact on the development of community sports in Wuzhou city,china, This active engagement not only boosts physical activity levels but also contributes to the social fabric of the community by promoting interaction, cooperation, and a sense of belonging among residents. Corresponding research literature: Yan (2024). Research on the current situation and strategies of urban community sports development in China under the background of national fitness.

Conclusion

1. The development of community sports in Wuzhou, China has achieved significant results: (1) Wuzhou City has implemented policies and allocated funds to support the development of community sports, promoting the growth of community sports projects and activities. (2) The development of community sports in Wuzhou City has achieved significant improvements in infrastructure and facilities (3) The organizational structure supporting community sports in Wuzhou City has become more sound. (4) The participation in community sports in Wuzhou City has steadily increased, with more and more residents participating in regular sports activities. Despite the positive development of community sports, Wuzhou City faces challenges such as a lack of professional coaches, inadequate facility maintenance, and limited awareness of the importance of sports activities among some populations.

2. Through quantitative data analysis, it was found that four influencing factors, namely government support, community sports facilities, community organization and management, and resident participation in the community, have played a significant positive role in the development of community sports in Wuzhou, China.

3. Experts examine and confirm the developing derection of community sports in Wuzhou City, China is feasibility, useful, appropriate.

Recommendations.

1. Theoretical recommendations

To further enhance the theoretical framework guiding the development of community sports in China, it is recommended that scholars and practitioners collaborate to integrate the latest international theories with China's unique social and cultural context. This could involve developing a localized model that takes into account the specific needs and characteristics of Chinese communities.

2. Policy recommendations

(1) Increase government support: The government should continue to increase financial investment in community sports to ensure the stability and sustainability of funds. At the same time, more encouraging policies should be introduced, such as tax reductions and preferential use of venues, to attract more social forces to participate in community sports.

(2) Improve sports facilities: In response to the problems of insufficient and poorly maintained existing facilities, the government should develop detailed plans and maintenance standards for sports facility construction to ensure the improvement and long-term availability of community sports facilities.

(3) Cultivate professional talents: Strengthen cooperation with sports colleges and cultivate more professional community sports coaches and managers. At the same time, encourage in-service coaches and managers to participate in various training programs to enhance their professional skills and service levels.

(4) Enhance residents' awareness of sports: Through various forms such as media promotion and community activities, popularize the importance of physical exercise, and increase residents' awareness and participation in sports activities. Especially targeting specific groups such as the elderly and children, carry out targeted sports promotion activities.

3. Further Research recommendations

(1) In depth investigation and research: It is recommended that relevant scholars and researchers go deep into the community to collect more detailed data and information about residents' participation in community sports activities. This will help to have a more accurate understanding of residents' needs and preferences, providing a basis for formulating more effective policies.

(2) Interdisciplinary research: The development of community sports not only involves sports science, but is also closely related to multiple disciplines such as sociology, psychology, and economics. Suggest conducting interdisciplinary research to analyze the constraining factors and promoting mechanisms of community sports development from multiple perspectives, in order to obtain more comprehensive research results.

(3) Long term follow-up research: The development of community sports is a long-term process. It is recommended to establish long-term follow-up research projects to continuously monitor the dynamic changes in community sports development, evaluate the long-term effects of policy implementation, and provide scientific basis for policy adjustments.

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