Article

Analysis of Crisis Management of a Korean Fitness Center during the COVID-19 Pandemic

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Abstract: The purpose of this research was to verify the importance and performance of crisis management in Korean fitness center using Importance-Performance Analysis (IPA). For this study, 304 fitness center executives and managers in Seoul and Gyeonggi region were selected as from March 21 to May 17, 2020. Frequency analysis was performed using SPSS 24.0 and exploratory factor analysis was conducted to verify the validity and reliability. Priority analysis and IPA analysis were performed to compare the mean values, and the following results were obtained. First, in the first quadrant, there were 6 attributes besides keep social distancing between employees and customers. Second, in the second quadrant, there were four attributes in addition to regular disinfection of the gymnasium. Third, in the third quadrant, there were 6 attributes besides maintain furniture clean. Fourth, in the fourth quadrant, there are three attributes in addition to the restriction of face-to-face meetings. The conclusion is as follows. First, equip supplies for prevention of covid19, keep social distance, and check government support policies. Second, analyze of economic support policies, and research on their application methods. Third, Prepare various non-face-to-face communication methods and Untact(non-contact) marketing strategies. Fourth, make a checklist for factors with relatively little importance.

Keywords: COVID-19, crisis management, Korean fitness center, Importance–Performance Analysis

1. Introduction

At present, the entire world is facing major changes in the social, educational, and economic sectors due to coronavirus disease 2019 (COVID-19). Schools have been conducting classes online, companies have been allowing employees to work from home, and people have been unable to access indoor gyms due to lockdowns and stringent social distancing policies to minimize the spread of the virus. Moreover, due to the enforcement of strict quarantine policies in many countries [1], religious, entertainment, and indoor and outdoor public sports facilities have been forcibly closed. Sporting and sports activities have been restricted in most indoor and outdoor spaces, excluding residential spaces[2]. The 2020 Tokyo Olympics were postponed due to the outbreak of this infectious disease [3]; this was the first time in the history of the Olympics in the 124 years that the games were postponed. In addition, worldwide, live sporting events were being played with empty stadiums, i.e., without any spectators [4]. Fans have been confused by the relevant regulations and resumption conditions, which are different for each league; this is not only due to the operational aspects of professional sports clubs but also due to the
regulations and conditions, which differ on the basis of leagues [5,6]. Moreover, as per the data on the COVID-19 emergency drawn from a survey on Korea’s sports industry conducted by the Korean government, the closure rate for renting facilities and construction (37.0%) of stadiums and gyms and sports service business (52.8%), including sports marketing and sports racing, was higher than for the sporting goods industry (7.8%). The fitness industry has been facing a significant crisis since March 2020, where sales have been limited, and the number of employees who were laid off exceeded for the entire sports industry (35.9%) (Taekwondo = 73.7%, yoga and Pilates = 65.2%, and fitness centers = 80.3%) [2]. The spread of COVID-19 is causing enormous damage to various industries related to sports, and the fitness industry has been the hardest hit of all.

The fitness industry in Korea is experiencing unprecedented difficulties due to the imposition of various regulations to control the spread of COVID-19. It is essential to improve the risk management ability of managers and executives in this field to effectively handle the COVID-19 pandemic [7]. Research should be conducted to establish a deeper understanding of perceptions on overcoming the crisis of fitness centers where the scale of damage is relatively high.

Importance–performance analysis (IPA) can thus be used to compare and analyze the importance and achievement of the crisis management measures adopted by fitness center executives and managers to present solutions and strategies on the abovementioned concerns. The analytical process of IPA is simple, the outcomes are easy to interpret, and the results clearly focus on the presentation of the problem. These aspects enable a multidimensional comparative analysis of the crisis management plan of the fitness center [8,9].

IPA is employed while studying varied subjects, such as marketing, banking, education, sports, and health, to improve these areas by evaluating consumer products and services [10]. This factor can therefore provide an important basis for deriving an effective strategy to improve crisis management strategies for fitness centers during COVID-19.

However, studies related to sports and fitness during the pandemic have largely focused on means of exercising at home in these novel circumstances [11], on the relationship between exercise and the immune [12], or novel regulations for fitness centers in relation to research and development [13].

These works indicate that active research has been conducted on how fitness approaches should respond to the COVID-19 pandemic, such as policy suggestions and methods to continue exercising at home; however, little work is being done to respond to the crisis occurring in fitness centers. As COVID-19 continues to spread, IPA study of crisis management in fitness centers, focusing on the managers who operate fitness centers, should be differentiated from other works intended to overcome the fitness industry crisis during the pandemic.

This study investigates the important factors in current crisis management according to fitness center executives and managers and the extent to which they are being properly implemented, as assessed through IPA analysis. In addition, we examined what the ideal points were for further pursuit regarding fitness centers, and we analyzed the following four areas: maintenance of the current state, intensive improvement, inferior rankings, and the avoidance of excessive effort through matrix analysis. Hence, we seek to provide strategies for practical application to fitness centers and establish a crisis management system for practical use.

2. Literature Review

2.1. Crisis Management in Korean Fitness Centers

Crisis management refers to the way that an organization deals with a disruptive and unexpected event that threatens to harm the organization [14]. It is important to respond appropriately during all the stages of crisis management, namely, the precrisis, crisis response, and postcrisis stages [15]. Crisis management is a crucial element of a company’s
conduct of its operations, as it can either be perceived as a risk or an opportunity, depending on how the company handles it, particularly during crises such as the COVID-19 pandemic [16]. During the pandemic, companies need to implement secure procedures and operate under an effective crisis management system to allow them to detect and prepare for crises in advance and respond effectively when crises occur, alongside proceeding to the normalization and crisis learning stages [17]. There were about 99,000 fitness operators in Korea in 2020, suggesting a 54% increase over the past decade. It can be observed that expansion of the fitness market has led to growth throughout the fitness industry, although it has led to an overheating of market competition in reality. The three-year closure rate following opening is 24.3% [2], and this percentage is expected to have worsened since the onset of the pandemic.

A crisis management strategy is thus essential to ensure competitiveness in the fitness market. We analyze the crisis management plan of Korean fitness centers in operation during the COVID pandemic, dividing the approaches into management, finance, prevention, distance, disinfection, and cleanliness.

2.2. Importance–Performance Analysis

IPA was proposed by Martilla and James [18] to analyze customer satisfaction with an organization’s products or services. Although this approach was originally developed for marketing, it has been extended to various fields, including education [8,9], services [19,20], fitness [21,22], and public administration [23,24]. As shown in Figure 1, the y-axis indicates the perceived importance of each attribute, and the x-axis shows the perceived product or system performance of each attribute. The explanation of the original IPA is presented in a scatter plot that divides the chart into four quadrants [25], using the following identifying phrases: “keep up the good work” (QI), “concentrate here” (QII), “possible overkill” (QIII), and “low priority” (QIV) [10]. This study is expected to provide valuable information for evaluating crisis management and its use in fitness centers under COVID-19; it is also believed that the matrix can provide useful information for prioritizing items for improvement.

![Figure 1. Importance-Performance Analysis (IPA) matrix](image)

3. Materials and Methods

3.1. Participants and Procedure

The subjects were executives and managers who are currently operating fitness centers in Seoul and Gyeonggi. Samples were extracted from March 21, 2020, to May 17, 2020, using the judgment method, which is a non-probability sampling technique wherein the members of the sample are selected using the researcher’s knowledge and judgment.
total of 320 questionnaires were distributed online, as face-to-face contact and group activities were not allowed. All subjects were able to respond to the survey, composed on and distributed via Google, on a computer or a mobile phone, and the data were collected through a linked URL or through a messenger. The questionnaire was self-administered to address individual thoughts and feelings. Among the questionnaires collected, 304 copies were selected as valid samples, excluding the 16 questionnaires that were incomplete.

Of the respondents, 78.3% (n = 238) were males and 21.7% (n = 66) were females. The age range was 3.6% in their 20s (n = 11), 27.3% in their 30s (n = 83), 35.9% in their 40s (n = 109), and 33.2% in their 50s and older (n = 101). The business structures were sole proprietorship, 26.3% (n = 80), and joint proprietorship, 73.7% (n = 224). Operations had been underway for less than 1 year in 10.8% (n = 33), 1–5 years in 23.4% (n = 71), 5–10 years in 40.5% (n = 123), and more than 10 years in 25.3% (n = 29). After the onset of the COVID-19 pandemic, 81.9% (n = 249) entered into significant crisis, 8.6% (n = 26) in moderate crisis, and 9.5% (n = 29) in minimal crisis. After the recommendation that business be suspended, the level of reduction in sales for 12.5% was at the 30% level (n = 38); for 23.4%, it was at the 60% level (n = 71); and for 64.1%, it was at the 90% level (n = 195). The most serious current problems are the difficulty of attracting the return of existing members for 20.4% (n = 62), paying taxes and rent for 21.5% (n = 65), frequent closures for 3.9% (n = 12), management and economic downturn for 10.9% (n = 33), lack of government support for 11.8% (n = 36), financial problems for 29.9% (n = 91), and others for 1.6% (n = 5).

3.2. Measurement

A questionnaire was employed to gather data, and all questions and variables were constructed based on previous studies and theories considered suitable for the purpose of the present study. The questionnaire items were created from the Delphi survey items, reflecting top–down opinions obtained through repeated feedback from five panelists, consisting of field experts and professors of sports industry management for items that could not be derived from previous studies or be newly derived. Thereafter, a survey was conducted by securing the content validity of the completed questionnaire.

The questionnaire was divided into three parts: 7 questions on personal characteristics, 24 questions on the importance of crisis management in fitness centers, and 24 questions on execution for crisis management in fitness centers (Total = 55 questions). These questions were revised from a study on the development of risk management consulting [26], survival strategies of the sports industry following the emergence of the COVID-19 pandemic [27], and measures for improvement that relate to crisis factors not related to financial management [28]. The importance and performance of variables for crisis management in Korean fitness center variables are composed from values related to business, financial, preventive, distance, disinfection, and cleanliness. The questionnaires were measured on a 5-point Likert scale, ranging from “strongly disagree” (1) to “strongly agree” (5). Table 1 shows the IPA factor analysis results of crisis management.

3.3. Data Analysis

Ultimately, 304 questionnaires were used in the statistical analysis, which was conducted using SPSS version 24.0. The method of analysis included the following aspects. First, for the demographic characteristics and general consensus of the study, a frequency analysis was conducted. Second, to verify the importance and performance priority of crisis management in Korean fitness center and to analyze the coordinates of each quadrant, the final verification was performed using the IPA matrix.

Table 1. Results of the validity test: Importance and performance factors of crisis management.
| Factor                  | Variable                                                                 | Factor loading | Eigen-value (% of Variance) | α   |
|------------------------|---------------------------------------------------------------------------|----------------|----------------------------|-----|
| Business management    | Notice of business hours                                                  | .932           | 3.561                      | .915|
|                        | Handling customer inquiries over the phone                                 | .918           |                            |     |
|                        | Communication with customers regarding quarantine                          | .876           |                            |     |
|                        | Deliver information about refund and automatic deferral guidance           | .862           |                            |     |
| Financial management   | Apply for government stimulus check                                        | .904           | 3.317                      | .902|
|                        | Find ways to reduce the rent                                              | .892           |                            |     |
|                        | Apply for deferred payment                                                | .871           |                            |     |
|                        | Apply for sports industry subsidy                                          | .845           |                            |     |
| Preventive management  | Provide hand sanitizers                                                   | .881           | 3.218                      | .896|
|                        | Equipped with a thermometer                                               | .815           |                            |     |
|                        | Provide spare masks                                                       | .798           |                            |     |
|                        | Equipped with a non-contact thermometer                                   | .778           |                            |     |
| Distance management    | Social distancing between employees and customers                         | .846           | 2.735                      | .847|
|                        | Install transparent partitions                                            | .836           |                            |     |
|                        | Limit the time and length of face-to-face meetings                         | .816           |                            |     |
|                        | Guidance on quarantine regulations                                         | .752           |                            |     |
| Disinfection management| Plan and establishment of quarantine                                      | .813           | 2.699                      | .828|
|                        | Disinfect equipment                                                       | .782           |                            |     |
|                        | Regular disinfection of the gym                                           | .771           |                            |     |
|                        | Request government disinfection control                                    | .755           |                            |     |
Cleanliness management
Ensure employees practice good hand hygiene  .774  2.451  .798
Keep entrances and hallways clean  .765
Improve toilet ventilation  .730
Maintain furniture clean  .711

4. Results
4.1. Priority Analysis of Importance and Performance of Fitness Center Crisis Management

Table 2 presents the importance and achievement of fitness center crisis management. Among fitness center risk management factors, preventive management was the most important, at 4.08, followed by finance at 4.06, disinfection management at 3.91, social distancing at 3.88, cleanliness at 3.66, and business management at 3.56. In particular, obtaining a non-contact thermometer, finding a way to lower monthly rent, regular disinfection of the gym, social distancing between employees and customers, educating employees on handwashing, and giving advance notification regarding closed days were considered the most important values. Next, among risk management factors, preventive management was considered to be the best implemented, at 4.12, followed by cleanliness management at 3.90, distance management at 3.77, business management at 3.56, financial management at 3.51, and disinfection management at 3.44. Specifically, for this reason, spare masks were provided for preventive management, toilet ventilation was improved for cleanliness management, limitations to the length of time of face-to-face meetings with customers were imposed for distance management, customer inquiries were handled over the phone for business management, application for government stimulus checks was performed for financial management, and planning and establishment of quarantine was performed for disinfection management.

Table 2. Importance-Performance and priority analysis fitness center crisis management.

| Factor                        | Questionnaires                  | Importance | Performance |
|-------------------------------|---------------------------------|------------|-------------|
|                               |                                 | Rank       | M ± SD      | Rank       | M ± SD      |
| Business management           | Notice of business hours        | 10         | 4.04 .765   | 12         | 3.78 .721   |
|                               | Handling customer inquiries over the phone | 17         | 3.77 .914   | 8          | 3.98 .789   |
|                               | Communication with customers regarding quarantine | 24         | 3.12 .864   | 23         | 3.14 .851   |
|                               | Deliver information about refund and automatic deferral guidance | 21         | 3.32 .828   | 21         | 3.35 .901   |
| Financial management          | Apply for government stimulus check | 8          | 4.07 .794   | 10         | 3.87 .863   |
|                               | Find ways to reduce the rent    | 7          | 4.09 .719   | 24         | 3.07 .911   |
|                               | Apply for deferred payment      | 9          | 4.05 .806   | 19         | 3.45 .915   |
| Attribute                          | Importance | Achievement | Mean | SD
|-----------------------------------|------------|-------------|------|----
| Apply for sports industry subsidy | 12         | .905        | 3.64 | .905
| Preventive management             |            |             |      |    
| Provide hand sanitizers           | 4          | .889        | 3.99 | .947
| Equipped with a thermometer       | 3          | .892        | 4.10 | .963
| Provide spare masks               | 19         | .994        | 4.22 | .916
| Equipped with a non-contact thermometer | 2 | .882 | 4.16 | .905
| Social distancing management      |            |             |      |    
| Social distancing between employees and customers | 1 | 4.40 | .962 | 3.85 | .908
| Install transparent partitions    | 15         | .989        | 3.56 | .954
| Limit the time and length of face-to-face meetings with customers | 14 | 3.94 | 1.029 | 4 | 4.13 | .856
| Guidance on quarantine regulations | 22 | 3.28 | 1.038 | 3.55 | 1.117
| Disinfection management           |            |             |      |    
| Plan and establishment of quarantine | 18 | 3.56 | 1.074 | 3.69 | 1.089
| Disinfect equipment               | 6          | .982        | 3.15 | .989
| Regular disinfection of the gym   | 5          | .883        | 3.36 | .878
| Request government disinfection control | 16 | 3.85 | .876 | 3.57 | .994
| Cleanliness management            |            |             |      |    
| Ensure employees practice good hand hygiene | 11 | 4.02 | .887 | 3.92 | .918
| Keep entrances and hall ways clean | 23 | 3.25 | .888 | 4.01 | .925
| Improve toilet ventilation        | 20         | .932        | 4.21 | .865
| Maintain furniture clean          | 13         | .765        | 3.45 | .944
| Total                             | 4.01       | 3.72        |      |    

4.2. IPA Matrix of Fitness Center Crisis Management

An IPA analysis was employed to simultaneously analyze the relative importance and achievement of each attribute for crisis management in fitness centers. In general, IPA analysis performed using a matrix includes methods of calculating intersection points based on the standard deviation and a method of automatically converting a statistical program at random. In this study, the average value (mean) for importance and achievement was derived by setting the center point for each axis as the IP intersection point. The x-axis was divided into importance attributes, and the y-axis was divided into four quadrants, with the analytical results shown in Figure 2 and Table 3.
Here, QI, indicating high importance and high performance for crisis management in fitness centers, includes social distancing between employees and customers, equipped with a thermometer, providing hand sanitizer, applying for government stimulus, providing notification of new operating hours, and ensuring that employees practice good hand hygiene. QII, indicating relatively low achievement but high importance, comprised regular disinfection of the gym, disinfection of equipment, finding ways to reduce rent, applying for deferred payment, and applying for a sports industry subsidy. QIII, indicating low importance and low achievement, include maintaining clean furniture, installing transparent partitions, applying for the disinfection of regional quarantine, planning and establishing quarantine, guidance and information on refunds and deferral, guidance on quarantine regulations and communication with customers about quarantine. QIV, indicating low importance and high achievement, composed of limiting the time and length of face-to-face meetings with customers, handling customer inquiries over the phone, providing spare masks, improving toilet ventilation, and keeping the entrances and hallways clean.

![Figure 2. Importance-Performance Analysis (IPA) matrix of fitness center crisis management.](image)

Table 3. IPA matrix results of Fitness Center Crisis Management

| Quadrant  | Items |
|----------|-------|
| Quadrant 1 | Social distancing between employees and customers, Equipped with a non-contact thermometer, Equipped with a thermometer, Provide hand sanitizers, Apply for government stimulus check, Notice of business hours, Ensure employees practice good hygiene |
| Quadrant 2 | Regular disinfection of the gym, disinfect the equipment, Find ways to reduce the rent, Apply for deferred payment, Apply for sports industry subsidy |
This study performed a comprehensive analysis of the most important factors in executive and managerial thinking and the ways in which these appear in their course of business. The study results indicated the following. First, QI, with high importance and high performance for crisis management in fitness centers, included social distancing between employees and customers, equipping the fitness center with a thermometer, providing hand sanitizer, applying for government stimulus funds, notifying customers of new hours of operation, and ensuring employees practice good hand hygiene. This strong response was in part due to the threat of strong sanctions from the government if the measures were not implemented. Additionally, customers have been lost when they were not presented with the new operational guidance at the beginning of the COVID-19 outbreak. In addition, the items mentioned in the study on the center selection attribute of fitness center participants before COVID-19 are located in the QI, supporting the results of this study academically.

Most fitness centers in Korea are equipped with essential items for infection prevention, such as non-contact thermometers, hand sanitizers, and soap. In addition, thorough notifications and guidance on open hours of fitness centers are being provided in accordance with the updates from government guidelines. Next, in relation to emergency stimulus, 13 facilities that were closed due to COVID-19 were notified on the basis of an announcement letter from the Korean government. In other words, the items located in QI are rated as having high importance and high achievement due to the appropriate response of the fitness centers to changes in the Korean government’s COVID-19 quarantine regulations.

Therefore, if the government’s current quarantine guidelines and continuous interest and efforts in the items located in QI are maintained, this can enable improvements in the crisis management capabilities of the fitness center and overcoming management difficulties. Second, the items in QII require intensive investment and improvement, as they have high importance for crisis management but show relatively low achievement. As a result of this study, the main improvement items of fitness centers before COVID-19 were equipment, atmosphere, accessibility, and membership fees, but after the onset of the pandemic, these aspects was replaced by regular disinfection, seeking ways to cut rent, and applying for sports industry subsidies. Notably, while disinfection management was considered important, it was not implemented. Conversely, Planet Fitness, unlike its competitors, was actively coping with COVID-19. The details indicate that indoor fitness facilities started providing paper towels, hand sanitizers, and disinfecting sprays that are effective for preventing the spread COVID-19 and also began to offer a variety of online fitness programs that allowed customers to continue to make use of their membership. By providing support for the operation of the fitness center and implementing a fitness program that can provide effective regular disinfection and infection prevention, it is possible to gain high customer trust and increase the efficiency of customer management.

In addition, regarding economic support for particularly hard-hit industries, plans for rent reduction and sports industry subsidies, as well as additional support policies, should be supported by the government, and benefits such as the application for sports industry subsidies, plans for rent reduction, and the deferment of principal and interest payments should be facilitated.
Moreover, the government should formulate measures such as employment maintenance subsidies, training support for business owners, extension of payment of employment charges, and health insurance premiums.

Third, it can be observed that the items in QIII have low importance and achievement for crisis management, and these should be gradually improved. In other words, cleaning of (interior) props, installation of transparent partitions, application for disinfection of local quarantine, the planning and establishment of quarantine, guidance on refunds and automatic delays, instructions for quarantine regulations, and customer quarantine communication with the department are not being satisfactorily implemented.

However, factors located in QIII are not excluded from the quarantine system or are not being prioritized. Fitness center managers recognize that the cleanliness of props at the center and their own quarantine plans, which are not listed in the government guidelines, are not working properly because they are perceived as low-intensity quarantine systems.

In particular, fitness center managers may not be aware of the importance of communicating with customers, as information on quarantine and general information are not quickly delivered to customers by the government. Mackert, Table, Yang, Bouchacourt, Woods, Bernhardt, and Wagner [33] indicate the importance of non-face-to-face communication with customers, as a non-face-to-face culture is more commonly used in communication at present. The new normal is a method of communicating with customers through social networking services (SNS) and different kind of online platforms, and the study suggests using such services and platforms to communicate with customers.

Oh, Jang and Kim [34] indicate that the rate of acquiring fitness-related information through the internet and SNS is about 60% or more, and communication strategies with customers using online platforms such as SNS are essential at present.

Therefore, it is necessary for fitness center managers to manage factors such as the cleanliness of props located in QIII and to prepare a non-face-to-face content platform, such as Instagram, Facebook, YouTube, single-person online broadcasting, and live commerce. By providing information on quarantine and refunds and general information through such platforms, it is possible to determine the right direction for the customer management of fitness centers during the COVID-19 outbreak [33].

Fourth, QIV is an area of low importance but high achievement, and it is not necessary to put in effort to improve the situation. Factors located in this area, such as controlling the meeting time between fitness center employees and customers, providing spare masks, ventilating toilet areas, and fielding inquiries about fitness center operating hours and membership systems over the telephone, are well maintained. These results indicate that government guidelines are being met by most fitness center managers. These factors cannot be considered as intensive improvement factors, but fitness center managers must maintain QIV to improve the completeness of the quarantine system for crisis management.

Moreover, if the government’s social distancing policy is continued, the importance of factors located in the current quadrant may increase, and hence, it is necessary to prepare for a situation that requires further supplementation. Fitness center managers can receive high trust from customers and differentiate themselves from other centers if they create checklists based on factors located in the four abovementioned quadrants and continuously manage them.

5. Conclusions

Following conclusions were deduced on the basis of the risk management plan using IPA for fitness center managers during the COVID-19 pandemic. First, the provision of preventive measures and social distancing are being well implemented, and hence, it is necessary to maintain these at the present level. Government stimulus payments should be closely examined. Second, a need for a plan prevails to maintain fitness centers by
closely analyzing various economic types of support from the national and local governments. Moreover, regarding disinfection management, a systematic plan should be established, along with preventive management and regular disinfection. Third, as non-face-to-face interaction culture has become the new normal due to the pandemic, it is necessary to provide services with SNS and other distance-oriented means, alongside establishing new marketing plans. Fourth, it is necessary to obtain trust of the prospective customers by continuously managing and maintaining checklists for areas of relatively low importance and high achievement.

Finally, the following suggestions for future research are drawn. First, through the IPA analysis used in this study, it was possible to analyze the aspects that are considered important for dealing with crisis management, according to fitness center executives and managers who are suffering from management difficulties, and whether those aspects are being properly implemented. Various opinions can be collected on the establishment of management strategies in crisis situations, and results can be derived for application in the given field. Second, this study was limited to fitness centers; thus, in the future, the results obtained from conducting research on diverse subjects such as indoor golf practice studios and Taekwondo gyms, which fall under the sports services sector, may be helpful for those working in these fields. Third, the global fitness industry is facing crisis due to the spread of COVID-19; therefore, specific financial and administrative support from the government will be crucial; however, additional studies should be conducted to find ways that can be practically helpful for all working in the fitness industry.

**Author Contributions:** Conceptualization, J.K., T-S.P.; formal analysis, J.Y.K., J-S.K., T-S.P.; validation, J-S.K., T-S.P.; original draft preparation, J-Y.K.; writing—review and editing, J-S.K., T-S.P.; visualization, J-Y.K., J-S.K., T-S.P.; supervision, J-S.K., T-S.P. All authors have read and agreed to the published version of the manuscript.

**Funding:** This research received no external funding.

**Data Availability Statement:** Not applicable.

**Acknowledgments:** Not applicable.

**Conflicts of Interest:** The authors declare no conflict of interest.

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