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Study on Nurse Image perceived by High School Students and Intention to Consider Nursing when Selecting a Career

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Abstract

To lay the foundation of strategy development for improving the nurse image of the future by grasping the nurse image and to provide the basic data for promoting the application of excellent students to nursing by grasping the awareness which can affect their careers, this study was conducted for the high school students who were in the stage of a career choice. This study was conducted from June 20, 2014 to July 31, 2014 and the data from the 320 male and female students of 4 high schools in M and S regions was used for analysis. The collected data was analyzed by frequency, percentage, t-test, ANOVA, and Pearson's correlation coefficients according to the study purpose with SPSS Window 21.0 Program. The results of the study are as follows: First, in a correlation between nurse image perceived by high school students and the characteristics of a career choice, it was indicated that the nurse image perceived by high school students had a correlation with the subjects to consult with for a career choice (r = -.124, p = .027), whether they have intention to consider nursing (r = -.133, p = .017), why they consider nursing (r = -.122, p = .029), and why they don't consider nursing (r = 114, p = .041). Second, in the correlation of image and the characteristics of a career, the occupational image had a correlation with business image (r = .642, p = .000), the social image did with business image (r = .530, p = .000) and the occupational image (r = .671, p = .000)p = .000), and the individual image did with business image (r = .831, p = .000), the occupational image (r = .609, p = .000), and the social image (r = .581, p = .000). The subjects to consult with for a career choice did with business image (r = -.132, p = .018) and individual image (r = -.137, p = .014), whether they have intention to consider nursing did with the occupational image (r = -.205, p = .000) and the social image (r = -.237, p = .000), why they consider nursing did with the occupational image (r = -.195, p = .000), the social image (r = -.221, p = .000) and whether they have intention to consider nursing (r = .969, p = .000), and why they don't consider nursing did with the occupational image (r = .143, p = .010), the social image (r = .144, p = .010) and whether they have intention to consider nursing (r = -.666, p = .000).

Keywords: Career Choice, High School Students, Perceived Nurse Image, Subjects of Consultation

1. Introduction

1.1 Need for the Study

Examining the perception of the public on a nurse, in the past, he or she was perceived as a person who works as an assistant to a doctor and who has a negative predisposition¹, and the classical image of a nurse is that he or she is like a white-robed angel who is feminine and passive and who requires sacrifice and spirit of service². However, today, there is perception that he or she is a professional

who does a worthwhile and rewarding job and it is true that he or she has been recognized a person who is dependent and lacks a positive motivation so far³. It wasn't until recently that the role of a nurse has come to take charge of the mental, psychological and spiritual nursing as well as a direct, physical nursing, and the subjects of the nursing have become expanded to the individuals, families and communities. Also, as the demand of medical consumers gets higher with the improvement in a medical level, the role of a nurse is getting subdivided. At this time, it is

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ineffective to classify the role of males and females, and it is hard to perform a high level of nursing which is getting specialized and to meet the improved demand of the subjects only with the characteristics of feminity.

Therefore, when the advantages of masculinity and feminity get mixed harmoniously, a significant synergy effect will be displayed in the development of nursing where professionalism is emphasized. Nursing science has achieved a steady internal, external growth as a result of concentrating on the status as a profession along with an academic development. And it is recognized that a nurse is a professional who plays a pivotal role in curing patients in the health care system recently4. Nurses in a realm of a profession help the health and recovery of patients and improve the self care ability of the subjects by providing an independent nursing with a deep affection, respect and love to patients. Also, they are performing a role as a professional who plays a central role in curing a patient, and the supporter, adjustor and educator of the subjects. Further, through the health consultation in a community, industrial sites, and a school, they have an important place in helping health problems⁵. On these days, the urgency of career education is keenly being felt in a family, a school and all levels of society. The reason is that the high school students who want to go to a college don't decide to apply to which department of a college with confidence as they lose sense of direction during every exam season⁶. Also, whether getting a job is guaranteed or not in the future works as the most important factor in selecting a career. Today, it is indicated that many colleges have difficulty in recruiting fresh men due to the reduction of college school age population. The number of the graduates of a high school (including academic, vocational high schools) in 2008 was 581,916, while the entrance quota of a college (except for Korean National Open University (KNOU), technology colleges, corporate universities) was 642,526 ones (Ministry of Education and Science Technology (MEST), which showed a lack of 60,610 students. It seems that this insufficient recruit rate of a college will be intensified year on year due to the reduction of population, and the reduction of college school age population may lead to the problem of keeping or discarding a college itself. Therefore, every college is applying various marketing strategies for attracting excellent students. Although a department of nursing science is showing a high rate of application compared with other departments in this intense competition, however, it is desperate to do a various, positive promotion to induce excellent students to apply to a department of nursing science. Also, this strategy seems to contribute greatly to the development of a nursing profession ultimately⁷. Therefore, by grasping the recognition and image of nurses from the high school students who are in the stage of a career choice in a rapidly changing medical, societal environment, this study is aimed to lay the foundation of strategy development for improving the image of nurses, and by grasping the high school students who will select nursing and the awareness which can affect their career, it is aimed to provide a basic data for promoting the application of excellent high school students to nursing.

1.2 Objectives of the Study

Specific objectives of the study are as follows:

- 1. Grasp the general characteristics of high school students.
- 2. Grasp the degree of the nurse image perceived by high school students.
- 3. Grasp the relationship between the nurse image perceived by high school students and the characteristics of a career choice.
- 4. Grasp the characteristics of a career choice of high school students.
- 5. Grasp the relationship between the image of nurses by the sub-regions perceived by high school students and the characteristics of a career choice.

2. Research Methods

2.1 Research Design

This study is a descriptive survey research which was conducted to grasp the image and recognition of a nurse perceived by high school students in M, and S regions and whether they consider nursing or not when selecting a career.

2.2 Subjects and Ethical Consideration

As the subjects of the study, the 400 male, female students of 4 high schools in M, S regions were conveniently sampled and data was collected anonymously. Explaining that what replied to the survey would not be used for any other use besides the objects of this study, that they could refuse to participate in the study and stop halfway through at any time as they voluntarily participated in it, and that they would not be disadvantaged in any way, the signature was collected from participants on a consent form.

2.3 Instruments

The tools used in this study consisted of the general characteristics of the subjects (5 questions), the characteristics related with nursing recognition (5 questions), nurse image (50 questions), and a career choice (5 questions).

2.3.1 General Characteristics of Subjects

The general characteristics consisted of 5 questions in total, that is, gender, course, religion, and school record. The characteristics related with nursing consisted of 5 questions, that is, whether they have nursing practitioners among their family or relatives or not, whether they have ever been introduced or explained about nursing or not, details of how their recognition on nursing have been largely affected, and whether they or their family have an experience of hospitalization or not.

2.3.2 Tools for Nurse Image

Based on Lee's⁸ study, each region on the nurse image was classified into business image (8 questions), social image (7 ones), occupational image (13 ones), and individual image (21 ones), which consisted of 50 questions in total. The reliability of the nurse image in this study was Chronbach's $\alpha = .93$. By sub-regions, they were as follows, business image (Chronbach's $\alpha = .83$), social image (Chronbach's $\alpha = .64$), occupational image (Chronbach's $\alpha = .70$), and individual image (Chronbach's $\alpha = .87$).

2.3.3 Tools for a Career Choice

Based on the study of Moon⁷, this tool consisted of 5 questions in total, that is, the major subjects of career consultation, whether they consider nursing or not, why they consider nursing, why they don't consider nursing, and whether they have intention to participate in when the information for nursing is provided.

2.4 Data Collection

In this study, data was collected with a questionnaire method, one of the self-reported methods, and data was collected from June 20, 2014 to July 31, 2014. A surveyor visited the high schools in M, S regions in person, explained the purpose of the study, distributed questionnaires and collected data from the subjects who agreed to the survey. The 400 questionnaires in total were distributed, 350 questionnaires were collected, and 320 ones (91.4%) except for 30 ones which responded to the questions indistinctly were used for the data of this study.

2.5 Data Analysis

The data collected in this study was statistically processed using SPSS Window 21.0 program. The general characteristics of subjects, the degree of the nurse image perceived, the characteristics of the career choice of high school students were analyzed by frequency and percentage, and average and standard deviation, the comparison of difference in the degree of nurse image perceived according to the general characteristics of high school students was done with t-test and ANOVA, post-hoc was done with Scheffe's test, the relationship between the nurse image perceived by high school students and the characteristics of a career choice was done with Pearson's correlation Coefficients.

3. Research Results

3.1 General Characteristics of High School Students

As for the general characteristics of subjects, 'by grades', there were 243 students (75.9%) in 3rd grade and 77 ones (24.1%) in 2nd grade, 'by gender', there were 184male ones (57.5%) and 136 female ones (42.5%), 'by course', there were 161 ones (50.3%) in liberal arts and 159ones (49.7%) in natural sciences, 'by religion', 184 students (57.5%) answered 'no religion', followed by 'Christianity' 57(17.8%), 'Buddhism' 42(13.1%), and 'Catholic' 21(6.6%). As for school record, the results were as follows, 'average' 193(60.3%), 'good' 89(27.8%), and 'bad' 38(11.9%), and as for 'nursing practitioners around', the results were in order of 'no' 236(73.8%), and 'yes' 84(26.3%). In 'the experience of information provision for nursing, 225(70.3%) answered 'no' and 95(29.7%) answered 'yes'. In 'tendency of recognition of nursing, it was in order of 'books or mass media' 167(52.2%), 'experience of hospitalization' 64(20.0%), and 'teachers or acquaintances' 49(15.3%). In 'hospitalization period', it was revealed that 84 ones (26.3%) were hospitalized 'within 7 days', and 68(21.3%) were 'over 7 days', and in 'experience of family hospitalization', 247(77.2%) answered 'yes', and 73(22.8%) answered 'no' (Table 1).

3.2 Degree of Nurse Image Perceived by High School Students

In the degree of nurse image perceived by high school students, the mean of the whole image was 3.39 points,

Table 1. General characteristics of subjects

Characteristics	General Characteristics of subjects (N = 320)				
	Division	Number (%)	Mean		
Grade	2nd	77(24.1%)			
	3rd	243(75.9%)			
Candan	Male	184(57.5%)			
Gender	Female	136(42.5%)			
Course	Liberal Arts	161(50.3%)			
Course	Natural Sciences	159(49.7%)			
	Christianity	57(17.8%)			
	Catholic	21(6.6%)			
Religion	Buddhism	42(13.1%)			
	No Religion	184(57.5%)			
	Others	16(5.0%)			
	Good	89(27.8%)			
School Record	Average	193(60.3%)			
	Bad	38(11.9%)			
Nursing	Yes	84(26.3%)			
Practitioner Around	No	236(73.8%)			
Experience of	Yes	95(29.7%)			
Information Provision of Nursing	No	225(70.3%)			
	Books or Mass Media	167(52.2%)			
Effect on Recognition of Nursing	Teachers or Acquaintances Around	49(15.3%)			
	Experience of Hospitalization	64(20.0%)			
	Others	40(12.5%)			
Experience of	Yes	150(46.9%)			
Hospitalization	No	170(53.1%)			
Hospitalization	Within 7 days	84(26.3%)			
Period	Over 7 days	68(21.3%)			
Experience	Yes	247(77.2%)			
of Family Hospitalization	No	73(22.8%)			

individual image 3.53 points, business image 3.49 points, social image 3.26 points and occupational image 3.17 points (Table 2).

Table 2. Degree of image perceived by high school students

	Degree of Nurse Image Perceived By High School Students $N = 320$			
Variables	Division	Mean(SD)	Range	Observed rage
Image		3.39	1-5	2.10-4.60
	Business Image	3.49	1-5	2.13-4.93
	Occupational Image	3.17	1-5	1.69-4.38
	Social Image	3.26	1-5	1.86-4.71
	Individual Image	3.53	1–5	2.07-4.93

3.3 Characteristics of Career Choice of High School Students

In the characteristics of the career choice of high school students, the subjects to consult with for a career were parents 151(47.2%), friends or seniors 81(25.3%), and teachers 46(14.4%). For 'whether they have intention to consider nursing or not, 265 students (82.8%) answered 'no' and 55(17.2%) did 'yes' (17.2%). Among those who answered 'yes' on 'why they consider nursing', 12 students answered 'service to mankind' (3.8%), 11 did 'stable job' (3.4%). For 'whether they will participate in information provision for nursing or not, there were 48 students (15.1%) in 'yes' (15.1%) and 7 ones (2.2%) in 'no'. However, for 'why they don't consider nursing', there were 111(34.7%) in 'not right for them' and 48 in 'grade' (15.0%), and for 'whether they will participate in information provision for nursing or not, there were 187(58.4%) in 'no' and 77(24.1%) in 'yes' (Table 3).

3.4 Relationship between Nurse Image Perceived by High School Students and Characteristics of a Career Choice

Review of a correlation between the nurse image perceived by high school students and the characteristics of career choice revealed that the nurse image perceived by high school students had a correlation with the subjects to consult with for a career choice (r = -.124, p = .027), whether they have intention to consider nursing or not (r = -.133, p = .017), why they consider nursing (r = -.122, p = .029), and why they do not (r = 114, p = .041).

 Table 3.
 Characteristics of choice of high school students

	Characteristics of Career Choice of High					
Characteristics	School Students N = 320					
	Division	Number (%)	Mean			
	Parents	151(47.2%)				
Subjects	Teacher	46(14.4%)				
of Career	Brothers & Sisters	26(8.1%)				
Consultation	Friends or Seniors	81(25.3%)				
	Others	16(5.0%)				
Whether they	Yes	55(17.2%)				
have intention to consider nursing or not	No 265(82.8					
	Right for It	3(0.9%)				
	Stable Job	11(3.4%)				
	Easy to Be Employed	6(1.9%)				
	Family Recommendation	8(2.5%)				
Reason to	Service to Mankind	12(3.8%)				
Consider	Use for Daily Life	6(1.9%)				
Nursing	Fit for School Report	1(0.3%)				
	Promising Job	4(1.3%)				
	Opportunity for Overseas Employment	3(0.9%)				
	Others	1(0.3%)				
	None	265(82.8%)				
Participation	Yes	48(15.0%)				
in Information	No	7(2.2%)				
Provision	N/A	265(82.8%)				
	Social Recognition	1(0.3%)				
	Not Right for Them	111(34.7%)				
	Female Job	6(1.9%)				
Reason Not	Stressful Job	31(9.7%)				
To Consider Nursing	Low Pay	13(4.1%)				
	School Record	48(15.0)				
	Lack of Information	37(11.6%)				
	Others	18(5.6%)				
	N/A	55(17.2%)				
Whether they	Yes	77(24.1%)				
will participate in information provision or not	No	187(58.4%)				

That is, in the nurse image perceived by high school students, the more the subjects to consult with for a nurse job when selecting a career and the more whether they have intention to consider nursing or not, the more nurse image is affected. Whether they have intention to consider nursing or not had a correlation with why they consider nursing and why they do not (Table 4).

3.5 Relationship between Nurse Image by Sub-realms Perceived by High School Students and a Career Choice

The occupational image had a correlation with business image (r = .642, p = .000), the social image did with business image (r = .530, p = .000) and the occupational image (r = .671, p = .000), and individual image did with business image (r = .831, p = .000), the occupational image (r = .609, p = .000), and the social image (r = .581, p = .000). The subjects to consult with for a career choice had a correlation with business image (r = -.132, p = .018) and individual image (r = -.137, p = .014), whether they have intention to consider nursing or not did with the occupational image (r = -.205, p = .000) and the social image (r = -.237, p = .000), why they consider nursing

Table 4. Relationship between nurse perceived by high school students and characteristics of career choice

	Relationship Between Nurse Image Perceived By High School Students and Characteristics of Career Choice						
variables	Perceived Nurse Image	Subjects of Consultation	Whether they have intention to consider nursing or not	Reason To Consider Nursing	Reason Not To Consider Nursing		
Perceived Nurse Image	1						
Subjects of Consultation	124* (.027)						
Whether they have intention to consider nursing or not	133* (.017)	.035 (.530)					
Reason to consider nursing	122* (.029)	.047 (.400)	.969** (.000)				
Reason Not To Consider Nursing	.114* (.041)	.013 (.823)	666** (.000)	668** (.000)	1		

 $^{^{\}ast}$ Significant Level <.05 ** Significant Level <.01

did with the occupational image (r = -.195, p = .000), the social image (r = -.221, p = .000), and whether they have intention to consider nursing or not (r = .969, p = .000), and why they do not consider it did with the occupational image (r = .143, p = .010), the social image (r = .144, p = .010), whether they have intention to consider nursing or not (r = -.666, p = .000), and why they consider it (r = -.668, p = .000) (Table 5).

4. Discussion

In this study, when the students had nursing practitioners around, the nurse image was good, which was similar to the studies of Park and Yang⁹, and Yang¹⁰, however, which was different from the results of studies of Lee & Kim¹¹ that there was no difference in the nurse image according to whether there were nurses among relatives or not. When they have a nurse around including relatives and if he or she becomes a good role model, it is thought that the positive nurse image is formed and he or she is likely

to advise the students to decide for the department of nursing science. As it was indicated that the nurse image was formed a lot through a hospital visit and the experience of hospitalization, it could be known that a direct contact with a nurse is important. This is similar to the results of the study of Seo¹, therefore, it is necessary that the nurses who work at a hospital need to be a good role model for caring a patient so that high school students may have a positive nurse image. Also, in keeping in mind that the actual role of a nurse is important in forming the nurse image¹², he or she needs to engage in nursing with a consistent, kind attitude even when he or she suffers from a heavy workload. Mass media like a TV may distort the image of professional nurses13, recently the supply of a computer has been spread and a young generation is receiving a lot of information through Internet, so it is considered that it is necessary to grasp the effect of mass media or internet use on the formation of the nurse image. There was no statistically significant difference in whether they have

Table 5. Relationship between nurse image by sub-regions perceived by high school students and characteristics of career choice

	Relationship Between Nurse Image by Sub-regions Perceived by High School Students and Characteristics of a Career Choice							
variables	Business Image	Occupational Image	Social Image	Individual Image	Subject sof Career Consultation	Whether they have intention to consider nursing	Reasonto consider Nursing	Reason Not To Consider Nursing
Business Image	1							
Occupational Image	.642** (.000)	1						
Social Image	.530** (.000)	.671** (.000)	1					
Individual l Image	.831** (.000)	.609** (.000)	.581** (.000)	1				
Subjects ofCareer Consultation	132* (.018)	065 (.246)	082 (.145)	137* (.014)	1			
Whether they have intention to consider nursingor not	070 (.212)	205** (.000)	.237** (.000)	086 (.124)	.035 (.530)	1		
Reason To ConsiderNursing	061 (.274)	195** (.000)	221** (.000)	079 (.157)	.047 (.400)	.969** (.000)	1	
Reason Not To Consider Nursing	.075 (.178)	.143* (.010)	.144* (.010)	.100 (.075)	.013 (.823)	666** (.000)	668** (.000)	1

 $^{^{\}ast}$ Significant Level <.05 ** Significant Level <.01

the experience of information provision on nursing or not, which corresponds to the study results of Lee¹⁴ that there was no significant difference between the group which had the experience of information provision on nursing and that which had no experience of it in male high school students. In order to improve that, it is suggested that there should be a systematic support so that the wide opportunity of nursing is provided and developmental experience is done. A review of the subjects to consult with for a career revealed that 151 students (47.2%) consulted with their parents, 81(25.3%) did with their friends or seniors, and 46(14.4%) did with teachers. Contrary to the thought of the general public that a teacher may play a big role in the career choice of students as they spend mostly in a school, it was revealed that the subjects of career consultation were mainly parents, friends or seniors. This corresponds to the results of the studies of Lee¹⁴, Lm⁷, Jang¹⁶ that high school students mainly consult with their parents or friends for their careers. However, though a teacher is not mainly the subject to consult with, he or she may affect the career choice through classes, and considering the state that there is meeting between parents and a teacher when students select a department, it is considered that the role of a teacher affects both students and parents indirectly.

5. Conclusion and Recommendations

To lay the foundation of strategy development for improving the nurse image of the future by grasping the recognition and image of a nurse of high school students and to provide the basic data for promoting the application of excellent students to nursing by grasping the high school students who will select nursing and the awareness which can affect their careers, this study was conducted for the high school students who were in the stage of career choice in a medical, social environment which undergoes a sudden change. The study was conducted from June 20, 2014 to July 31, 2014 for the male and female students of 4 high schools in M and S regions. The tool used in this study was the tool of nurse image developed and used by Lee8. As a result of measuring reliability, it was Chronbach's α = .93. Besides that, the tool of career choice used by Moon⁷ was used. The collected data was analyzed by frequency, percentage, t-test, ANOVA,

and Pearson's correlation coefficients according to the study purpose with SPSS Window 21.0 Program. 1) Review of the correlation between nurse image perceived by high school students and the characteristics of career choice revealed that the nurse image perceived by high school students had a correlation with the subjects to consult with for a career choice (r = -.124, p = .027), whether they have intention to consider nursing or not (r = -.133, p = .017), why they consider nursing (r = -.122, p = .029), and why they don't (r = 114, p = .041). That is, in the nurse image perceived by high school students, the more there are the subjects to consult with for a nurse job when choosing a career and the more that they have intention to consider nursing, the more the nurse image was affected. Whether they have intention to consider nursing or not had a correlation with why they consider nursing and why they do not. 2) As a result of examining the correlation between nurse image by the sub-regions perceived by high school students and the characteristics of a career, the occupational image had a correlation with business image (r = .642, p = .000), the social image did with business image (r = .530, p = .000) and the occupational image (r = .671, p = .000), individual image did with business image (r = .831, p = .000), the occupational image (r = .609, p = .000), and the social image (r = .581, p = .000). The subjects to consult with for a career choice had a correlation with business image (r = -.132, p = .018) and individual image (r = -.137, p = .014), whether they have intention to consider nursing or not did with the occupational image (r = -.205, p = .000), and the social image (r = -.237, p = .000), why they consider nursing did with the occupational image (r = -.195, p = .000), the social image (r = -.221, p = .000), and whether they have intention to consider nursing (r = .969, p = .000), and why they do not consider nursing did with the occupational image (r = .143, p = .010), the social image (r = .144, p = .010) .010), and whether they have intention to consider nursing (r = -.666, p = .000). The results above indicated that the nurse image perceived by high school students was affected by whether in the nurse image perceived by high school students, the more there are the subjects to consult with for a nurse job when choosing a career and the more that they have intention to consider nursing, the more the nurse image was affected. Therefore, it is necessary to give an opportunity to provide information consistently. Also, it is hard to say that this study represents the population because it was conducted only for the high school students of a few regions and sampling method was convenience

sampling. Therefore, it is suggested that the results of this study will be expanded to the whole high school students in Korea and be studied repeatedly.

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