

The Magnitude of Perceived Professionalism and Its Associated Factors Among Nurses in Public Referral Hospitals of West Amhara, Ethiopia

Hailemichael Kindie Abate¹
Addisu Taye Abate¹
Zewdu Baye Tezera¹
Debrewok Tesgera Beshah²
Chilot Desta Agegnehu³
Mohammed Adem Getnet¹
Birhaneselassie Gebeyehu Yazew¹
Mahlet Temesgen Alemu²
Chilot Kassa Mekonnen¹
Chanyalew Worku Kassahun¹

¹Department of Medical Nursing, College of Medicine and Health Sciences, University of Gondar, Gondar, Ethiopia;

²Department of Surgical Nursing, College of Medicine and Health Sciences, University of Gondar, Gondar, Ethiopia;

³Community Nursing Unit, College of Medicine and Health Sciences, University of Gondar, Gondar, Ethiopia

Introduction: Nursing professionalism is how nurses view their work and is a guide for the behavior of nurses in practice to ensure patient safety and quality care. Poorly perceived nursing professionalism can lead to poor patient outcomes, which decrease the promotion and career options of nurses.

Objective: The aim of this study is to assess the perceived prevalence of nursing professionalism among nurses in Public Referral Hospitals of West Amhara Regional State, Ethiopia.

Methods: An institution-based cross-sectional study was conducted among 423 nurses from January to February 2021. A simple random sampling method was used to reach the study subject. A self-administered questionnaire was used for data collection. To explain the study variables, frequency tables and percentages were used. A binary and multiple logistic regressions were conducted to see the relation between the dependent variable and independent variables.

Results: A total of 407 nurses participated in the study with a response rate of 99.3%. The overall prevalence of good perceived nursing professionalism was found to be 24.8%. Variables such as having >10 years experience (adjusted odds ratio (AOR)=1.2, 95%CI: 2.9–5.57) a day working shift (AOR=2.36, 95%CI: 0.78–6.67), having professional identification (AOR=5.44, 95%CI: 4.38–8.45), and getting medical service (AOR=1.23, 95%CI: 1.11–2.28) were significantly associated with perceived good nursing professionalism.

Conclusion: The findings of this study showed that only one-fifth of nurses had perceived good nursing professionalism. In this study, variables such as nursing experience >10 years, working shift, having professional identification, and getting medical services were significantly associated with good perceived nursing professionalism. The policymakers ought to incorporate free medical services to enhance the attitude of nurses toward nursing professionalism.

Keywords: nursing, professionalism, hospital, Ethiopia

Introduction

Nursing professionalism reflects how nurses view their work (conceptualization of obligations, attributes, interactions, attitudes, and role behaviors required) and is a guide for the behaviors of nurses in practice to ensure patient safety and quality care.^{1,2} A systematic review study conducted among 61 reviews around the globe showed that poorly perceived nursing professionalism can lead to poor patient outcomes in nursing care.³ A cross-sectional study conducted among 23,159 nurses across European countries stated that poorly perceived nursing professionalism

Correspondence: Hailemichael Kindie Abate
Tel +251965321790
Email haile206k@gmail.com

leads to a 5–17% increase of intention to leave their career.⁴ Another cross-sectional study conducted in Saudi Arabian among 350 nurses showed that poorly perceived nursing professionalism leads to 76% of intention to leave their career.⁵ An explanatory descriptive cross-sectional study conducted in East Africa from 551 participants showed that one-third of the nurses had a negative image of the nursing profession and leads to a decrease in the promotion and career options.⁶

Nurses who value professionalism exhibited adherence to practice standards and technical competence.² It is also important to have professional and value-based foundations around it.⁷ These values are important to health-care facilities because they are an important way of living out ethical commitment and affect patient safety and outcomes.⁸

Professionalism prominence in nursing is often influenced by both internal and external arguments. Historians, sociologists, and nurses themselves struggle to determine whether professionalism is present or absent in nursing care.⁹ In the past three decades, there was a lack of expansion in roles and autonomy in a variety of nurses working inpatient and outpatient settings. Nurse professionalism has become more significant than ever and has a great demand in health care settings.^{10,11}

Professionalism in nursing can be changed by modifying the working environment of nurses, increasing the social and professional expectations of nurses for the next generation, changing faculty institutional responsiveness, and strengthening in-service education.¹² The low level of nursing professionalism leads to negative outcomes such as increased turnover and decreased productivity of nurses in the work setting. Furthermore, poor nursing professionalism can decrease the trustful relationship between the profession and the public, which influences the professional status as a reputable profession.¹³

A cross-sectional descriptive study conducted in the US among 221 nurses showed that nursing professionalism was associated with the current position in nursing, current employment status, place of education, years of experience, and duration of nursing association.¹⁴ To our knowledge, there has been limited research done in Ethiopia as well as no study conducted in the current study area. Therefore, this study aimed to assess the perceived professionalism of nurses and its associated factors. The result of this finding would be used as supporting information to the Ethiopia Nursing Association (ENA)

and the Federal Ministry of Health (FMOH) to set policies and guidelines for nursing professionalism.

Methods

Study Settings and Period

This study was conducted at five public referral hospitals in the Northwest Amhara Regional State, Ethiopia from January to February 2021. The regional state has a population of 28 million (mid-2018), 14 zones, three city administrations, and 180 sub-city administrations (139 rural and 41 urban).¹⁵ It also has 80 hospitals (8 referrals, 2 general, and 73 primary hospitals), 847 health centers, and 3342 health posts.¹⁶ Despite the increased number of health facilities, shortages of skilled health personnel, medical equipment, drugs, and medical supplies, inefficient and inequitable use of health resources are the challenges of the region.¹⁷

Study Design and Population

An institutional-based cross-sectional study was conducted among nurses working in the public referral of the West Amhara region. All nurses who worked at the five referral hospitals' were the source population, whereas all nurses who were in the selected health institutions and available during the study period were the study population.

Inclusion and Exclusion Criteria

All nurses who were working in the five referral hospitals and available during the data collection period were included in this study, whereas those nurses who were seriously ill during the data collection period were excluded from this study.

Sample Size, Sampling Technique, and Procedures

The sample size of this study was estimated by using the single population proportion formula $n = (Z_{\frac{\alpha}{2}})^2 \cdot p(1-p) / (d)^2$. In the formula "n" denotes the sample size, " $\frac{\alpha}{2}$ " is the reliability coefficient of standard error at the 5% level of significance with $z = 1.96$, "p" is the proportion and "d" is the level of standard error. Then 423 sample sizes were estimated after adding 10% of the nonresponse rate for the study participants. Currently, there are five referral hospitals in West Amhara regional state from which samples were selected. For each hospital, the total sample size was allocated proportionally based on

the number of nurses they have. Then, systematic random sampling was used to select patients from each hospital.

Study Variables

Independent Variables

Perceived nursing professionalism:

Good: participants who scored between 80 and 100% (92–115 points) of the total sum of the perceived nursing professionalism scores.¹⁸

Moderate: participants who scored 60–79% (69–91 points) of the total sum of perceived nursing professionalism scores.¹⁸

Poor: participants who scored less than 60% (<69 points) of the total sum of perceived nursing professionalism scores.¹⁸

Dependent Variables

Sociodemographic variables (age, work experience, work unit, nurse–patient ratio, lack of vision, lack of focus from the Ministry of Health).

Nurse–patient ratio: the standard by which how many patients each nurse is responsible for during the shift.¹⁹

Focus of Ministry of Health: focus the individual nurse on the ministry of health rules and regulations.²⁰

Organizational variables (availability of life insurance, community view of nursing professionals, membership in a professional organization, and salary).

Life insurance: the medical services given by the nurse within the working health institution.²¹

Prospective views of the nursing profession: the better future view of the nurses toward the nursing profession.²

Membership to the community: any members of health associations in the community such as the Ethiopian Nursing Association, to ease any collaborative work.²²

Data Collection Tools, Measurements, and Procedures

The tool incorporates two parts, the sociodemographic related factors and the question that assesses the perceived professionalism. Perceived nursing professionalism was assessed by a questionnaire of the nurse professionalism scale.²³ The scale included six subscales and multiple items: improving quality of care (four items), maintaining professional competence (three items), fulfilling professional responsibilities (four items), interprofessional collaboration (seven items), professional behaviors (three items), and value for the patient (two items). The questions are answered

on a 5-point Likert scale (1=strongly disagree, 2=disagree, 3=neutral, 4=agree, and 5=strongly agree). Each Likert scale was assigned with points (strongly disagree=1 point, disagree=2 points, neutral=3 points, agree=4 points, and strongly agree=5 points). The overall level of perceived nursing professionalism was assessed based on Bloom's cutoff point. This cut-point is widely accepted and applied to operationalize the outcome variables of studies conducted on the knowledge, practice, and perception/attitude aspects of the study participants. Based on this cutoff point, the score between 80 and 100% (92–115 points) from the total 23 items questions with a 5-point Likert scale was good perceived nursing professionalism, 60–79% (69–91 points) moderate perceived nursing professionalism and less than 60% (<69 points) was scored as poor perceived nursing professionalism.¹⁸ The reliability of the tool for nursing professionalism was assured with the Cronbach's alpha of 0.76. The content validity of the data collection tool was assured and checked by inviting experts in the field and their recommended modification has been done. Data were collected using a structured self-administered questionnaire from each participant at selected referral hospitals in the Northwest Amhara region of Ethiopia. The data collection was facilitated by five trained professional nurses assigned to each selected hospital. Upon data collection, the data collectors instructed the participants to complete the questionnaire independently to maintain transmitting of information between the participants.

Data Quality Assurance

Before collecting the data, the face and content validity of the data collection tool was assured and checked by inviting experts in the field. The data collectors and supervisors were trained about the study purpose and protocol. The research data collection tool was pretested to check the fitness of the tool for the study settings and necessary correction was made. The investigators exchanged all necessary information regarding the data collection procedures with the supervisors daily. Furthermore, the respondents had been given a brief orientation before the interview. In addition, detailed feedback was provided to the data collectors. The collected data were coded per the operational definition of the study variables. The data were checked and rechecked by the principal investigators for its completeness.

Data Management and Analysis

EPI- DATA version 3.1 was used for data entry and STATA version 14 statistical software was used for data analysis. The collected data were checked for completeness and accuracy before analysis. Descriptive statistics was made using statistical measurements. Frequencies, percentages, means, and standard deviations were used as a statistical measurement. Finally, tables and graphs were used to report findings. The binary and multivariable logistic regression analysis was conducted to identify associated factors. Model fitness was checked by using the Hosmer–Lemeshow goodness of fit test ($p=0.65$) and interpreted as a model fitted. All variables fulfilled the chi-squared assumption and checked its odds ratio. Multicollinearity of the continuous variable was checked using variance inflation factor (VIF) and its values lie between 1 and 10, which is interpreted as no multicollinearity. Bivariable and multivariate logistic regression analyses were used to identify associated factors. Those variables with a p -value less than 0.2 in the bivariable analysis were entered into the multivariable analysis. The backward selection process was used to see the final associated variables. Those variables with a p -value less than 0.05 with a 95% confidence interval were considered as significantly associated with outcome variables.

Ethical Considerations

The study was performed based on the ethical standards put down under the declaration of Helsinki. Ethical clearance was obtained from the institutional ethical review committee of the School of Nursing and College of Health Science of University Gondar with an ethical clearance letter reference number of December 15, 2020 RNo: V/P/RCS/05/SAS/2020. Supportive letters were obtained from Amhara Regional state health bureau and then their copies were delivered to each hospital. After understanding the purpose of the study, written informed consent was obtained from the study participants. Confidentiality of participants' information was kept.

Results

Sociodemographic Characteristics of Patients

A total of 407 nurses participated in this study with a response rate of 96.2%. The mean age of the participants was 31.28 with a standard deviation (SD) of 5.29 years. The higher proportion of the study participants, 196

(48.2%) were from the University of Gondar Comprehensive Referral Hospital. More than half, 212 (52.1%) were male participants and 265 (65.1%) were married. The majority of the participants, 360 (88.5%), were degree holders and 373 (91.6%) were staff nurses in their working unit. More than half of the participants, 58.7%, and 63.6% had 3501–8000 ETB (Ethiopian birr) (US \$76.5–171.9) monthly salary and gave service for more than six patients per day respectively. Almost half of the participants, 202 (49.6%) had nursing experience ≤ 5 years. About 295 (72.5%) participants were working in the day shift, and 232 (57%) were working eight hours or less per day. Among the total participants, 218 (53.6%) had no membership in the professional organization, and 274 (67.3%) responded that the Ministry of Health had no focus on the nursing profession. About 77.6% and 55% had no satisfaction with salary and no availability of life insurance for nurses, respectively (Table 1).

Perceived Prevalence of Professionalism

The mean score of the participants was 83.23 ± 16.37 and the areas with low mean scores were in the areas of value for the patient (7.32 ± 1.71), maintaining professional competence (10.8 ± 2.11), and professional behavior (11.04 ± 2.19). The highest mean score was in the area of inter-professional collaboration (26.11 ± 4.49) (Table 2).

The overall prevalence of good perceived professionalism was 24.8% with 95%CI: 20.6–29.0, whereas poor perceived professionalism was 9.3% with 95% CI: 6.6–12.3 (Table 3).

Factors Associated with Perceived Professionalism

In the multivariable regression analysis, four variables such as experience in years, working shift, having professional identification, and getting medical service were significantly associated with good perceived nursing professionalism. In this regard, having higher nursing experience (>10 years) was 1.2 times (AOR=1.2, 95%CI: 2.9–5.57), the odds of good perceived professionalism than compared with the experience of ≤ 5 years. The odds of good perceived professionalism was 2.36 times (AOR=2.36, 95%CI: 0.78–6.67) more in day shift working nurses than night shift working nurses. Having professional identification was 5.44 times (AOR=5.44, 95%CI: 4.38–8.45) good perceived professionalism than which had no professional identification. The odds of good perceived

Table I The Sociodemographic Characteristics Nurses Working Public Referral Hospitals of West Amhara Regional State, Ethiopia 2021 (N=407)

Variable	Category	Frequency (n)	Percent (%)
Working hospital	University of Gondar	196	48.2
	Tibebe Ghion	60	14.7
	Felege Hiwot RH	50	12.3
	Debre Tabor RH	53	13.0
	Debre Markos RH	48	11.8
Sex	Female	195	47.9
	Male	212	52.1
Age group	20–29	174	42.8
	30–39	205	50.4
	≥40	28	6.9
	Mean/SD of age	31.28 Mean	SD ±5.29
Marital status	Single	142	34.9
	Married	265	65.1
Education status	Diploma	17	4.2
	Degree	360	88.5
	MSc and above	30	7.4
Position at work	Head	32	7.9
	Staff	375	92.1
Experience in years	≤5	202	49.6
	6–10	168	41.3
	>10	37	9.1
Salary/month ETB (US \$)	3000–3500 (\$65.51–\$76.4)	60	14.7
	3501–8000 (\$76.5–\$171.9)	239	58.7
	8001–10,500 (\$170–\$229.3)	97	23.8
	>10,500 (>\$229.3)	11	2.7
Patient–nurse ratio	≤6	148	36.4
	>6	259	63.6
Working shift	Day	232	57.0
	Night	175	43.0
Hours worked/day	≤8	209	51.4
	>8	198	48.6
Membership of the professional organization	Yes	189	46.4
	No	218	53.6
Flexibility schedule	Yes	284	69.8
	No	123	30.2
Having professional identification	Yes	290	71.3
	No	117	28.7
Satisfaction with salary	Yes	91	22.4
	No	316	77.6
Prospective vision to the profession	Yes	258	63.4
	No	149	36.6

(Continued)

Table 1 (Continued).

Variable	Category	Frequency (n)	Percent (%)
Focus of Ministry of Health to the nursing profession	Yes	133	32.7
	No	274	67.3
Availability of life insurance for nurses	Yes	183	45.0
	No	224	55.0

Abbreviations: ETB, Ethiopian birr; RH, referral hospital; SD, standard deviation.

professionalism was 1.23 times (AOR=1.23, 95%CI: 1.11–2.28) more in getting medical service compared to those who did not get the medical services (Table 4).

Discussion

The current study was focused on the perceived prevalence of professionalism and its contributing factors of nurses in the public referral hospitals of northwest Ethiopia. The overall prevalence of good perceived nursing professionalism was 24.8% with 95%CI: 20.6–29.0. This finding was supported by the cross-sectional studies conducted among 210 and 518 nurses in Ethiopia,^{2,12} respectively. The possible justification might be due to the positive perception of study participants towards nursing professionalism as a result of the presence of good role models in the profession. This idea was supported by the cross-sectional studies conducted among 350 nurses in Saudi Arabia and 352 nurses in Turkey.^{5,24} This finding was lower than a cross-sectional multilevel study conducted among 5920 nurses and physicians across European countries, which ranges from 71–95%,²⁵ a survey conducted among 1501 nurses in Japan (58.8%),¹⁰ and a cross-sectional descriptive study conducted among 221 in the USA (89.9 mean score).¹⁴ The possible reason might be that the study participants in this study were only nursing professionals, whereas the

participants in the study done across European countries were among physicians and nurses. This composite effect might make a difference in the magnitude of the perceived nursing professionalism. Furthermore, the low development of professional behavior and excessive workload, long working hours, and inadequate services provided in the nursing profession might be the reason to have low perceived professionalism in developed countries such as Ethiopia.^{26,27}

In the multivariable regression analysis, four variables such as nursing experience in years, working in a day shift, having professional identification, and getting medical service were significantly associated with good perceived nursing professionalism. In this regard, having (>10 years) nursing experience was 1.2 times the odds of good perceived nursing professionalism compared to the experience of ≤5 years. This finding was in line with a cross-sectional descriptive study conducted among 221 nurses in the USA.¹⁴ The possible justification might be the higher experience can lead to expertise in nursing staff and become a role model for other nurses which increases the nursing perceived professionalism. This explanation was supported by a descriptive cross-sectional study conducted among 380 nurses in Saudi Arabia.²⁸ The odds of good perceived nursing professionalism was 2.36 times more in day shift working nurses than night working shift. This finding was supported by a cross-sectional study conducted among 72 nurses in Iran.²⁹ The possible

Table 2 The Subscale of Nursing Professionalism Among Nurses Working Public Referral Hospitals of West Amhara Regional State, Ethiopia 2021 (N=407)

Subscale of Perceived Professionalism	Mean ±SD
Improving quality of care	13.22±3.26
Maintaining professional competence	10.8±2.11
Fulfilling professional responsibilities	14.74±2.61
Interprofessional collaboration	26.11±4.49
Professional behaviors	11.04±2.19
Value for the patient	7.32±1.71
Total score	83.23±16.37

Abbreviation: SD, standard deviation.

Table 3 The Level of Perceived Nursing Professionalism Among Nurses Working Public Referral Hospitals of West Amhara Regional State, Ethiopia 2021 (N=407)

Level Perceived Nursing Professionalism	N	Percentage	95%CI
Good	101	24.8	20.6–29.0
Moderate	268	65.8	60.9–70.5
Poor	38	9.3	6.6–12.3

Abbreviation: CI, confidence interval.

Table 4 Factors Associated with Perceived Nursing Professionalism Among Nurses Working Public Referral Hospitals of West Amhara Regional State, Ethiopia 2021 (N=407)

Variable	Category	Good Perceived Nursing Professionalism		COR 95%CI	AOR
		Yes (N=101)	No (N=306)		
Sex	Female	70	142	I	
	Male	31	164	2.61 (0.56–3.243)	
Age group	20–29	40	134	I	
	30–39	51	154	0.91 (0.99–1.49)	
	≥40	10	18	0.54 (0.384–1.93)	
Marital status	Single	36	106	I	
	Married	65	200	1.04 (0.54–1.63)	
Education	Diploma	6	16	I	
	Degree	90	265	1.1 (0.51–3.60)	
	MSc and above	5	25	1.85 (0.445–4.861)	
Position at work	Head	9	23	I	
	Staff	92	283	1.2 (0.13–4.81)	
Experience in years	≤5	41	125	I	
	6–10	43	161	1.23 (3.15–6.71)**	1.2 (2.9–5.57)**
	>10	17	20	2.47 (2.233–6.64)**	2.34 (3.19 –5.11)**
Salary in ETB/US \$	3000–3500 (\$65.51–\$76.4)	8	52	I	I
	3501–8000 (\$76.5–\$171.9)	70	169	0.37 (1.01–3.16)*	0.26 (0.58–2.73)
	8001–10,500 (\$170–\$229.3)	22	80	0.56 (0.34–2.31)	0.42 (0.28–1.60)
	>10,500 (>\$229.3)	6	5	0.13 (0.10–3.59)	0.11 (0.01–1.36)
Patient–nurse ratio	≤6	47	101	0.57 (0.31–2.6)	0.48 (0.23–1.02)
	>6	54	205	I	I
Working shift	Day	24	155	3.26 (4.39–7.56)**	2.36 (0.78–6.67)**
	Night	77	151	I	I
Hours worked/day	≤8	59	150	I	I
	>8	42	156	1.46 (0.51–1.62)	1.32 (0.930–2.71)
Membership of the professional association	Yes	60	129	0.49 (0.82–1.80)	0.28 (0.37–1.04)
	No	41	177	I	I
Flexibility schedule	Yes	74	210	0.79 (0.557–1.53)	
	No	27	96	I	

(Continued)

Table 4 (Continued).

Variable	Category	Good Perceived Nursing Professionalism		COR 95%CI	AOR
		Yes (N=101)	No (N=306)		
Having professional identification	Yes	27	196	4.88 (3.72–9.81)**	5.44 (4.38–8.45)**
	No	74	110		
Satisfaction with salary	Yes	24	67	0.21 (0.05–1.94)	
	No	77	239		
Prospective vision to the profession	Yes	74	184	0.55 (0.14–2.13)	0.12 (0.44–1.44)
	No	27	122		
Focus of Ministry of Health to the nursing profession	Yes	36	97	0.84 (0.52–2.14)	0.65 (0.33–1.75)
	No	65	209		
Availability medical service	Yes	31	123	1.51 (1.21–3.72)*	1.23 (1.11–2.28)*
	No	70	183		

Note: Highly significant = **p-value <0.01, *p-value ≤0.05.

Abbreviations: AOR, adjusted odds ratio; COR, crude odds ratio; ETB, Ethiopian birr.

reason might be because of the negative effect of the night-shift working on health, such as sleeplessness and other welfare issues, which lead to poorly perceived nursing professionalism. This explanation was supported by a systematic review conducted among 26 reviews across the globe.³⁰ Having professional identification was 5.44 times the odds of good perceived nursing professionalism compared to those who did not have such professional identification. This finding was supported by a quasi-experimental study conducted among 63 nurses in the USA.³¹ The possible reason might be because having professional identification can increase the value given by the profession and increase the perceived nursing professionalism of the nurses.³² The odds of good perceived nursing professionalism was nearly 1.23 times more in getting medical services compared to those who did not get the medical services. This finding was supported by a qualitative explanatory study conducted among 18 professional nurses in South Africa.³³ The possible justification might be because of getting free medical services in a health-care setting can enhance the attitude of nurses in their profession. This reason was supported by a cross-sectional study conducted among 462 nurses in India.³⁴

Strength and Limitations of the Study

The invitation of experts to assess the validity of the questionnaire is the strength of this study. The cross-sectional nature of the study cannot rule out the cause-effect relationship. Furthermore, longitudinal research might be needed to explore how to continue increasing the level of nursing professionalism.

Conclusion

The findings of this study showed that only one-fifth of nurses had good perceived nursing professionalism. In this study, variables such as nursing experience >10 years, working in a day shift, having professional identification, and getting medical services were significantly associated with greater perceived nursing professionalism. The policymakers ought to incorporate free medical services to enhance the attitude of nurses towards nursing professionalism. Providing professional identification and maintaining professional competence and professional behavior will increase perceived nursing professionalism.

Abbreviations

AOR, adjusted odds ratio; COR, crude odds ratio; ENA, Ethiopian Nursing Association; ETB, Ethiopia birr; SD, standard deviation; STATA, statistics and data; VIF, variance inflation factor.

Data and Material Availability

The raw data is available from the corresponding authors on rational request and the summary data is available in the main document.

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Author Contributions

All authors made a significant contribution to the work reported, whether that is in the conception, study design, execution, acquisition of data, analysis, and interpretation, or in all these areas; took part in drafting, revising, or critically reviewing the article; gave final approval of the version to be published; have agreed on the journal to which the article has been submitted; and agree to be accountable for all aspects of the work.

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Disclosure

The authors report no conflicts of interest in this work.

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