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Organizational Commitment Can Improve Compliance of Blood Transfusion Procedure

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ABSTRACT

The purpose of this research was to improve compliance of nurses and midwives on blood transfusion procedures through increased organizational commitment. The study used observational analytic with cross sectional approach. There were 156 nurses and midwives who meet the inclusion and exclusion criteria agreed to be participated as respondents and 46 observers agreed involved in the collection of data through informed consent. The sampling technique was simple random sampling. Data instrument collectors in the form of checklists and questionnaires. Analysis of the data used in the form of descriptive analysis, correlation, and Structural Equation Modeling (SEM). Based on the findings of a new model, a model compliance nurses and midwives on blood transfusion procedures, organizational commitment can improve compliance procedure of blood transfusion if affective commitment and normative commitment improved.

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INTRODUCTION

Organizational commitment is (1) a strong desire to remain as members of any particular organization; (2) the desire to strive suit the organization; and (3) certain confidence and acceptance of the values and goals of the organization [1]. Compliance of nursing personnel in blood transfusion procedure was rudimentary. It was caused near-miss and adverse events in blood transfusions with the impact of morbidity and mortality [2].

Death caused by transfusion reactions occur 1 (one) per 600.000 cases. Like an iceberg phenomenon, near-miss and adverse events happen greater. Incorrect Blood Component Transfused (IBCT) caused adverse events. Adverse events was reported that 1in 15.000 transfusions [3]-[4] up to 1 in 14.000 transfusions [5]; while the near-miss occurred in about 1 in 1.000 transfusions [3], as well as Linden et al in Adibi et al (2012), reported that near-miss events greater incidence, compared with deaths caused by reaction transfusion, that occurred 1/600.000 cases, although the near-miss events were not known how the frequency [4]. Thus, compliance of nursing personnel in blood transfusion procedure completely (100%) was necessary to support patient safety.

The problem is low compliance of nursing personnel in the blood transfusion procedure at the hospital has an average value of 81.02% or in the medium category, has not been 100% or rudimentary [6]. In an effort to increase compliance of nursing personnel in blood transfusion procedures found a new model, a model compliance of nursing personnel in blood transfusion procedures. Based on the model, it revealed that one of the factors that influences to compliance of nursing personnel in blood transfusion procedure is organizational commitment [7]. The problem of organizational commitment has negative effect significantly on compliance of nursing personnel in the blood transfusion procedure [7]. It means that the higher 184 🗖 ISSN: 2252-8806

organizational commitment decreasing compliance of nurses and midwives in the blood transfusion procedures. So that the formulation of the problem of this research is as follows. Can organizational commitment improve compliance of nurses and midwives' blood transfusion procedure to support patient safety?

2. RESEARCH METHOD

The design of this study was an analytic correlation with cross sectional approach. The study populations were nurses and midwives in the Inpatient I (Medicine and Stroke Unit), Inpatient II (Medicine Surgery), Inpatient III (Obstetrics & Gynecology) and Anesthesi & Reanimation Installation, in one of type A Education Hospital in Indonesia in April to July 2013. The populations were 410 people [8]. Target populations were 364 people, and not target populations were 46 people.

Samples of this dissertation were nurses and midwives who met the inclusion criteria: (1) implementing nursing/midwifery; (2) carry out a blood transfusion in adult patients. (3) the implementation of the observations: (a) beginning of the program a doctor, (b) blood sampling, (c) sending blood samples to the Blood Bank/UTD or others hospital, (d) acceptance of the blood of Blood Bank/UTD or others hospital, (e) preparation to enter into the patient's blood, (f) the implementation of blood entering into the patient until the first pumpkin finished; (4) one respondent observed one time. Exclusion criteria: (1) the head of the infirmary, the deputy head of the treatment room and head room in case of hospitalization; (2) blood transfusion pumpkin into two and so on. A large sample of 156 people, sampling techniques was simple random sampling.

Instruments data were questionnaire and checklist. Based on the theory that supports structured grating instruments then consulted to experts (promoters and co-promoter) to fulfill content validity and construct validity. Furthermore, the questionnaire of organizational commitment made edits to the Indonesian Department of the Faculty of Letters, State University of Malang to conform to the rules of grammar and easily understood by the layman. Statistical validity test used SPSS 11.5, with Pearson Product Moment correlation technique, the item-total correlation by measuring the correlation score of each of the questions/statements with a score of questions/statements as a whole. The significance level of 0.001 with a mark ** and the significance level of 0.05 with a * [9].

Reliability test were statistically analyzed by Cronbach Alpha [10]. The questionnaire said to be reliable, if the value of Cronbach Alpha \geq 0, 60 [9]. To determine the feasibility of the research instruments that can be analyzed further conducted exploratory factor analysis. According to Santoso Singgih (2004) standard used is the value of the Kaiser-Meyer-Olkin Measure of Sampling Adequacy (KMO) > 0.5 with a significance far below 0.05 (0.000 < 0.05) [11].

Organizational commitment questionnaire prepared by modification of the concept of organizational commitment Meyer & Allen [12]. Hospital nursing staff express of concern for hospitals and success and sustainable progress. Organizational commitment measured from: (1) affective commitment, (2) normative commitment and (3) continuance commitment. Questionnaires affective commitment is an emotional attachment to an assessment of the nursing staff in hospitals, identification, and involvement in the activities of the hospital. Questionnaires normative commitment is an emotional attachment to an assessment of the nursing staff at the hospital by feeling obliged to keep working at the hospital had to be so; and such action is the right thing. Questionnaires of continuance commitment is an emotional attachment to an assessment of the hospital nursing staff based on considerations loss if out of the hospital, such as loss of seniority on promotion or benefit. Measurement by performing the above-mentioned questionnaire that uses semantic scale deferensial 10 points to assess the statements ranging from strongly disagree points 1 sd 10 points strongly agree [13].

Checklist compliance nursing staff on the procedure of blood transfusion consists of checklist procedures: (1) blood sampling, (2) blood samples delivery to the Blood Bank Hospital, (3) acceptance of the blood from Blood Bank Hospital, (4) preparation to insert the blood to the patients, (5) the implementation of the insert blood to the patients. Compliance measured by direct observation. Evaluation of questionnaires and checklists using rates which compare the acquisition of scores compared with the total score [14], with the expected outcomes in the form of a percentage (%). Then categorized into a perfect (100%), high (> 90% - < 100%), moderate (80-90%), low (< 80%), based on modifications to the compliance of financial management [15].

In the first stage observer who had signed informed consent, in every room observing the process of blood transfusion to the respondents (who had chosen randomly). The timing of observation was also determined randomly by the presence of observers, the respondent, and the patients who underwent blood transfusions. The next stage after all respondents completed observed, after respondents signed informed consent, the respondents filled out questionnaires.

The data were analyzed using descriptive, Pearson Product Moment, and SEM. Descriptive was used to analyse description of organizational commitment and compliance of nurses and midwives in blood transfusion procedure. Pearson Product Moment Correlation analysed the relationship between organizational commitment indicator and compliance indicator. SEM with Lisrel 8.30 program analysed the relationship between variables in order to find a model compliance of nurses and midwives in the blood transfusion procedure.

2.1. Research Ethics

This study had been complied research ethics, based on (a) Certificate of escaped examine ethics of Health Research Ethics Committee of the Faculty of Public Health, Airlangga University. The dated February 5, 2013 with number: 20 KEPK; (b) Then had been permitted the study of the Director dr. Saiful Anwar Malang Hospital with numbers: 070/2529/302/2013 dated March 22, 2013; (c) approved of the 46 observers through informed consent, and (d) approved of 156 respondents through the informed consent.

3. RESULTS AND ANALYSIS

3.1. Organizational Commitment Nurses and Midwives

Organizational commitment was a latent variable that measured by the level of subvariable affective commitment, normative commitment, continuance commitment nurses and midwives. It was presented in Table 1.

Table 1. Organizational Commitment of Nurses and Midwives in Hospital (n = 156)

Indicator & Sub Indicator	Average Value	Category
Affective Commitment		
The desire to stay in the hospital because of the love	86.00%	Medium
The significance hospital	87.00%	Medium
AverageValue	87.00%	Medium
Normative Commitment		
Heavy feeling to leaving the hospital	84.00%	Medium
Keep working in hospitals as a place to learn and get a job first	86.00%	Medium
Complying with rules and regulations were a moral responsibility	90.00%	High
Average Value	86.50%	Medium
Continuance Commitment		
The idea that it would be better if someone was still working in the organization throughout	74.00%	Low
his/her career		
The desire to keep working at the hospital to participate in developing a career and hospitals	86.00%	Medium
Average Value	80.00%	Medium
The average value of organizational commitment of nurses and midwives	84.50%	Medium

Based on table 1, it can be concluded that the organizational commitment of nurses and midwives was not perfect (100.00%), still in the medium category (84.50%). This was due to a mean value of affective commitment supported in the medium category (87.00%), normative commitment in the medium category (86.50%), and the continuance commitment in the medium category (80.00%). In detail were presented in Figure 1.

Average Value

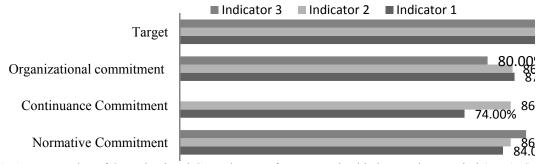


Figure 1. Average Value of Organizational Commitment of Nurses and Midwives at the Hospital (n = 156)

3.2. Compliance of Nurses and Midwives on the Blood Transfusion Procedure

Compliance of nurses and midwives on the blood transfusion procedure measured from the compliance of (1) blood sampling procedure, (2) blood samples delivery to the Blood Bank Hospital, (3) blood admission from Blood Bank Hospital, (4) blood insert preparation, (5) blood insert implementation. It was not perfect or in the medium category (78.72%). It was contributed from the value of the compliance of sampling procedure in the low category (76.19%), compliance of blood admission from Blood Bank Hospital in the low category (79.82%), compliance of blood insert implementation into the patient in the low category (72.16%), although compliance of blood sample delivery to Blood Bank Hospital in the medium category (85.08%) and compliance blood insert preparation in the medium category (80.30%). The average values were presented in Figure 2.

Target
C. Blood Transfusion Procedure
C. Blood Insert Implementation Procedure
C. Blood Insert Preparation Procedure
C. Blood Admission Procedure
C. Blood Sample Delivery Procedure
C. Blood Sampling Procedure

Figure 2. The Average Value of Compliance of Nurses and Midwives in the Blood Transfusion Procedure (n = 156)

3.3. Influence of organizational commitment indicators with indicators of compliance nurses and midwives in the blood transfusion procedure

Table 2 showed each organizational commitment and compliance indicator has significant influences either. Indicator of organizational commitment that affected compliance indicator was only continuance commitment. It had negative effect significantly on the blood insert preparation procedure.

Table 2. Influence of Organizational Commitment Indicator to Compliance of Nurses and Midwives in the Blood Transfusion Procedure Indicator (n = 156)

Influence	Correlation Coefisien	Conclusion
Affective commitment	0.796**	Significant
Affective commitment Commitment	0.616**	Significant
Normative commitment	0.689**	Significant
Affective commitment ← ★ compliance of blood sampling	-0.101	Not significant
Affective commitment ← ★ compliance of blood samples delivery	-0.108	Not significant
Affective commitment ← ★ compliance of blood acceptance	0.026	Not significant
Affective commitment ← → Sompliance of blood insert preparation	-0.052	Not significant
Affectivecommitment	0.008	Not significant
Normative commitment ← ★ Compliance of blood sampling	-0.140	Not significant
Normative commitment ← ► compliance of blood samples delivery	-0.099	Not significant
Normative commitment ← → Sompliance of blood acceptance procedure	-0.014	Not significant
Normative commitment	-0.094	Not significant
Normative commitment	-0.031	Not significant
Continuance commitment Compliance of blood sampling	-0.150	Not significant
Continuance commitment Compliance of blood samples delivery	-0.126	Not significant
Continuance commitment Compliance of blood acceptance	-0.070	Not significant
Continuance commitment Compliance of blood insert preparation	-0.160*	Significant
Continuance commitment Compliance of blood insert implementation	-0.141	Not significant
Compliance Procedure of		
Blood sampling ◆ → Blood sample delivery	0.631**	Significant
Blood sampling → Blood acceptance	0.545**	Significant
Blood sampling Blood insert preparation	0.777**	Significant
Blood sampling Blood insert implementation	0.715**	Significant
Blood samples delivery → Blood acceptance	0.543**	Significant
Blood samples delivery Blood insert preparation	0.651**	Significant
Blood samples delivery \longleftrightarrow Blood insert implementation	0.538**	Significant
Blood acceptance → Blood insert preparation	0.548**	Significant
Blood acceptance Blood insert implementation	0.538**	Significant
Blood insert preparation ← → Blood insert implementation	0.695**	Significant

Table 2 concluded that (1) the affective commitment and normative commitment did not directly affect compliance of (a) blood sample taking, (b) sending of blood samples, (c) blood acceptance, (d) blood insert preparation, and (e) blood insert implementation. (2) compliance of nurses and midwives in blood insert preparation was not only influenced by the commitment continuance, but it was influenced by compliance of nurses and midwives in the procedure of blood sampling, blood sample delivery into Blood Bank Hospital, and blood acceptance from the Blood Bank Hospital also. It had the significant positive effect. (3) compliance of blood insert preparation influenced compliance of blood insert implementation; although compliance of blood insert implementation was influenced by compliance of (a) blood sampling, (b) sending blood samples to the Blood Bank Hospital and blood acceptance from Blood Bank Hospital. It was presented in Figure 3.

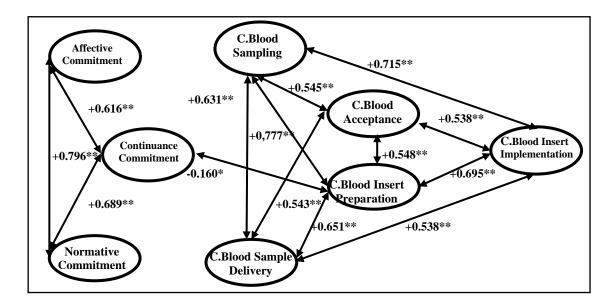


Figure 3. Influence of Organizational Commitment Indicator to Compliance of Nurses and Midwives on the Blood Transfusion Procedure Indicator (n=156)

3.4. The results of the analysis of Structural Equation Modeling (SEM)

3.4.1. Confirmatory Factor Analysis (CFA) of Organizational Commitment of Nurses and Midwives

Organizational commitment (Comorg) was a two level of latent variable. It was measured from affective commitment (Affetive) which had 2 indicators, normative commitment (Nrmative) which had three indicators, and continuance commitment (Cntinuanc) which had two indicators. Indicator of affective commitment was (1) the desire to stay in the hospital because of the love (LOVE), (2) the significance hospital (MEAN). Indicator of normative commitment was (1) heavy feeling to leaving the hospital (FEEL), (2) keep working in hospitals as a place to learn and get a job first (FRSTJOB), (3) complying with rules and regulations are moral responsibility (MORAL). Indicator of continuance commitment was (1) the idea that it would be better if some one is still working in the organization throughout his career (ONEORG), (2) the desire to keep working in hospital to participate in developing a career and hospitals (CAREER). Results of confirmatory factor analysis were presented in Figure 4.

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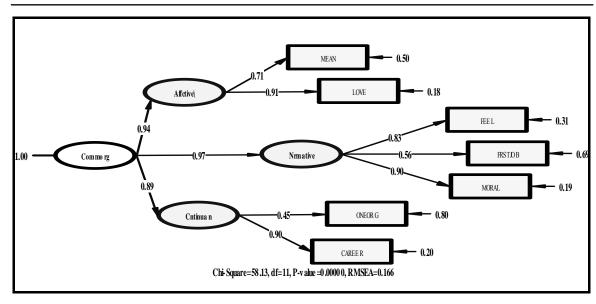


Figure 4. Confirmatory Factor Analysis Organizational Commitment of Nurses and Midwives at the Hospital (n = 156)

Based on Figure 3, value of standardize loading factor ≥ 0.50 meant that all indicators and sub-indicators were valid and reliable. Thereby, the components of organizational commitment were affective commitment, normative commitment, and continuance commitment.

3.4.2. CFA of Compliance of Nurses and Midwives on Blood Transfusion Procedure

Compliance of nurses and midwives on the blood transfusion procedures measured the compliance of p: blood sampling (SAMPLING), sending blood samples to the Blood Bank Hospital (SEND), blood acceptance from Blood Bank Hospital (ACCEPT), blood insert preparation (PREPARE), blood insert implementation (INSERT). Result of confirmatory factor analysis was presented in Figure 5

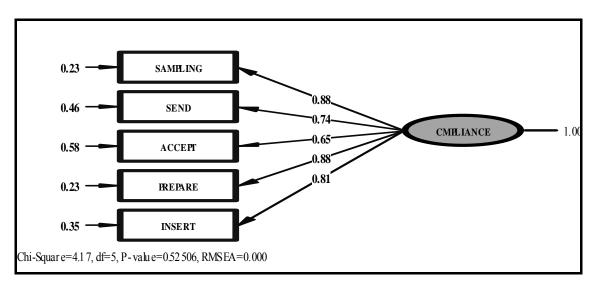


Figure 5. Confirmatory Factor Analysis Compliance of Nurses and Midwives on the Blood Transfusion Procedur at the Hospital (n = 156)

Figure 5 showes that the value of standardize loading factor of each indicator was > 0.50. The meaning was valid and reliable; Thus, the variable component compliance procedure of blood transfusion was compliance procedure: (1) blood sampling (SAMPLING), (2) sending blood samples to the Blood Bank

Hospital (SEND), (3) blood acceptance from the Blood Bank Hospital (ACCEPT), (4) blood insert preparation (PREPARE) and (5) blood insert implementation (INSERT).

3.4.3. Analysis of Structural Model (Full SEM)

Based on analysis structural equation modeling a new model was found. The model was a compliance model of nurses and midwives in the blood transfusion procedure. It was presented in Figure 6.

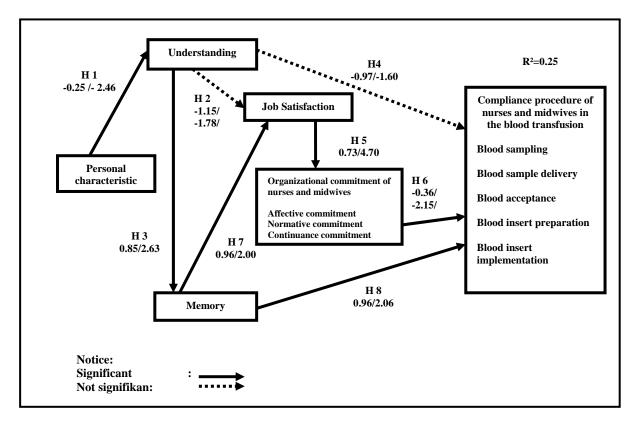


Figure 6. Compliance Model of Nurses and Midwives in the Blood Transfusion Procedure

Figure 5 showed that (1) Compliance of nurses and midwives in the blood transfusion procedure was affected by: (a) Understanding of nurses and midwives in the instruction of the leader to carry out of blood transfusion procedure. (b) Memory of nurses and midwives about blood transfusion procedure; (c) Job satisfaction of nurses and midwives; (d) Organizational commitment of nurses and midwives, with regard (e) Personal characteristics of nurses and midwives paths to compliance of nurses and midwives in the blood transfusion procedure through the understanding and memory were stronger than job satisfaction and organizational commitment paths. (3) Contributions effect of variables simultaneously to compliance by 25%.

Based on the analysis of the structural model of organizational commitment, nurses and midwives had significant negative effect on the compliance in the blood transfusion procedure. Based on table 2, continuance commitment had significant negative effect on compliance nursing personnel in preparation to enter into the patient's blood. In this dissertation, continuance commitments of nurses and midwives were been influenced by the personal characteristics of nurses and midwives, continuance commitments had an average value in the medium category (80.00%). This was due to supported by an average value of the opinion of nurses and midwives of the statement was follows. (1) It would be better if some one was still working in the organization throughout his/her career (in the low category); (2) The desire to remain working at the hospital to participate in developing a career (in the medium category). Results of this study supported A Three-Component Model of Organizational Commitment, which stated that the commitment continuance had no effect or a significant negative effect on work behaviors (attendance, OCB and performance), if it was affected by the personal characteristics, alternatives, and investments. In contrast, affective commitment of nurses and midwives had not been affected to the compliance of nurses and midwives in the blood transfusion procedure [16]. It did not supported Meyer John P., et al. (2002), which stated that affective

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commitment had positive effect significantly on work behaviors (attendance, OCB and performance). Affective commitment had influenced to the compliance of nurses and midwives if it had influenced by personal characteristic and working experience, there were supported by job satisfaction, job involvement, and occupational commitment; because of affective commitment in this study was only influenced by job satisfaction. Job involvement and occupational commitment were not investigation yet. Similarly, the results of this study stated that the normative commitment did not affect the compliance of nurses and midwives in the blood transfusion procedure. It did not support Meyer John P., et al. (2002), which stated that normative commitment had significant positive effect on work behaviors (attendance, OCB and performance) if it was influenced by personal characteristics, socialization experiences, and organizational investment [16]. In this study normative commitment was influenced by personal characteristics of nurses and midwives through the understanding of nurses and midwives in the leaders' instruction to carry out the blood transfusion procedure and memory of nurses and midwives about blood transfusion procedure, as well as job satisfaction, while socialization experiences, and organizational investment had not been studied.

4. CONCLUSION

Compliance of nurses and midwives on the blood transfusion procedure had not been perfect in the moderate category. It was measured from compliance of nurses and midwives in the procedure of (1) blood sampling, (2) blood sample delivery to the Blood Bank Hospital, (3) acceptance of the blood from Blood Bank Hospital, (4) blood insert preparation, (5) blood insert implementation. Perfect compliance prevented near-miss and adverse events, so as to supported patient safety program. Therefore, compliance of nurses and midwives on blood transfusion procedures needed to be improved.

The organizational commitment of nurses and midwives (measured from affective commitment, normative commitment, and continuance commitment), had a mean value in the medium category; organizational commitment of nurses and midwives had significant negative effect on the compliance of nurses and midwives in the blood transfusion procedure. But the organizational commitment of nurses and midwives can improve compliance nurses and midwives in the blood transfusion procedure if affective commitment and normative commitment of nurses and midwives improved.

Affective commitment and normative commitment of nurses and midwives needed to be upgraded to support increased compliance of nurses and midwives on blood transfusion procedures in order to support patient safety.

Efforts to increase affective commitment of nurses and midwives are as follows: (1) increasing the personal characteristics of nurses and midwives (increase understanding of nurses and midwives in the leaders' instruction to carry out blood transfusion procedure and memory of nurses and midwives about blood transfusion procedure) by way of the implementation of knowledge management. Knowledge management consists of: (a) the establishment of committees blood transfusion hospitals, (b) preparation of training modules blood transfusion, (c) carrying out the training of blood transfusion on officers who carry out the procedure of blood transfusion, (d) an increase in work culture committee blood transfusion; (2) monitoring and evaluation of patient safety blood transfusion through the recording of reporting that is accompanied by a program of repairs & follow-up; (3) an increase in job satisfaction (increase motivator factors and maintenance factors) by: (a) the evaluation of performance and providing feedback, (b) a program of recognition and promotion, (c) an increase in the working relationship among employees, (d) training supervision of the head of the chamber, (e) improvement of working conditions, (f) evaluation of hospital policy, (g) the evaluation of salary, and (h) an increase in job security; (4) socialization experiences (insert socialization program policies and procedures for blood transfusions in orientation program new nursing personnel (nurses and midwives) and (5) organizational investment (insert compliance nurses and midwives on blood transfusion procedures into program remuneration).

Efforts to improve the normative commitment of nurses and midwives are as follows: (1) The increase in job satisfaction involved the increase of motivator factors and maintenance factors. It is increased by ways of (a) evaluation of performance and providing feedback; (b) a program of recognition and promotion; (c) an increase in the working relationship among employees; (d) supervisory training for head of ward; (e) improvement of working conditions; (f) evaluation of hospital policy; (g) the evaluation of salary; and (h) an increase in job security. (2) The increase in job involvement is had been done by ways of implementing the program involvement of employees. It is in improvement programs relating to the safety of the patients that undergoes blood transfusions through the activities of the Quality Control Circle (QCC), and (3) an increase in occupational commitment or work commitments or professional commitment. It is recognized as a profession (salary based on education nursing staff/nurses and midwives) and the profession is used for life.

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