Nurses' Hand Off-It's Role in Clinical Care Continuum

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Abstract- Nurses' Handoff is an essential part of nurses' day-to-day activity where a patient's identity, situation, assessment, and recommendations are being handed over from Nurse background, Nurse, NursetoDoctor, Nursetootherhealthcareworkers, who are involved in any vertical of patient's care. Nurses' Handoff gives support towards effective communication, it emphasizes the transfer of criticalinformation and uninterrupted care of patients. Nurses Hand off –Its Role in Critical Care Continuumhelps towards identifying ineffective communication, medication error, and other nursing processbreeches. So the researcher has conducted a study based on the knowledge and awareness of nurses towhat extent they are convinced about the clinical handoff- its benefits and its drawbacks in the clinical care continuum. A Quasi-experimental design was used to determine the effectiveness of clinicalhandoff among 300 nurses across the hospital. This study reveals that before delivering the knowledgeand giving training to registered nurses 'the below-average awareness percentage is 29. an average percentage of 69.30, and 1% of RN's have scored above average. Hence, the implementation of training on the state of the statthe clinical handover process have made a difference in percentage as below average is 0%, the average is 32%, and 67% are above average. Therefore, it is proved that there is an increase in awareness percentage of the second secon66amongRegisterednurses aftersharingknowledgeandgivingtrainingtothem.

Keywords: Nurses 'HandOff, Clinical Hand Over, Clinical Care Continuum.

Date of Submission: 22-07-2022	Date of Acceptance: 05-08-2022

I. Introduction

Nurses Hand Off – Its Role in Clinical Care Continuum, the term itself tells us the importance of determining an effective hand off that supports the change over of critical information and continuum of care and treatment of the support of the suppontbetweenhealthcareteammembers,thiscriticaltransitionpointisknownashandoff.Seada AM, Bayoumy SA. (2017)¹ provides the states that evidence handoff study it on educationalprogramenhancesnurses'interns'handoffcommunicationcompetence¹. Every process has its highlights and challenges so the clinical Handoff otherwise plays a crucial vital element in the healthcare setup still, the highlights are the ISBAR toolkit which supports in exchange of information fromone caregiver to another $(2021)^2$ caregiver in а concise and documented manner. Lee DH, Lim EJ. intheirstudystatethatpatienthandoverisatypeofindirect nursingcarethatrequires high-levelnursingcompetencies to make a comprehensive clinical decision The ISBAR toolkit is the real-time effective communication process of passing specific patient information from one health caregiver to another orfrom one team of caregivers to another ensure the continuity and safety of the patient's to care. $GhoshS,RamamurthyL,PottakatB(2021)^{3}study supports the impact of structured clinical handover protocolon communation of the structure of t$ icationandpatientsatisfaction, and that the standardization of clinical handover may reduce sentinel events due to inaccurate and ineffective communication³ and this is also stated in the study of Blondon K, Ehrler F, Le Godais S, Wojtasikiewicz JY, Couderc C (2017) to standardize both theprocessandcontent of handoff⁴.

Handoff has its challenges too – Standardization of Process, Human Factor, Communication, Clinicalfactor, and system factor other obstacles like medication error, miscommunication, and adverse eventsfaced during the nursing process to overcome all their barrier including time constraints, poor staffing,cultureandlanguage differencesandlackofinformation.

Hence, the researcher has conducted a study based on the knowledge and awareness of nurses to whatextent they are convinced about the clinical handoff- its benefits and drawbacks in the clinical carecontinuum. However, it was assumed that the registered nurse of critical care will be more qualifiedthan the non-critical area nurse. Therefore, in the study of Suganandam DK. Handoff communication:Hallmarkofnurses.IndianJournalofContinuingNursingEducation.2018Jan1;19(1):12⁵.statesthat" The transfer of professional responsibility and accountability for some or all aspects of carefor a patient or group of patient, to another person or professional group on a temporary or atemporaryorpermanentbasisis knownas

clinicalhandoff.

TypesofHandoff

Handoff can occur in any setting of the health care organization. It can be a change of shifts, betweendifferentservices,ortoadifferent discipline.

AccordingtoFriesen,White,andByers(2008),thetypesofhandoff canbe

- shifttoshift
- nursingunit tonursingunit
- nursingunit todiagnosticarea
- nursingunittospecialareas
- dischargeandinter-facilitytransfer

II. Assumptions

- It is assumed that registered nurses will have some knowledge about hand off.
- It is assumed that registered nurses will honestly respond to the question naire prepared by the investigator.
- An instructional module that will help the registered nurses to improve their knowledge of thetopic

III. Objectives of the study-

Toassessthepre-testknowledgeregardinghandoffduringshiftchangeamongregisterednurses.

 $\bigstar To a dminister a structural teaching program regarding hand offskills of nurses during shift change among register red nurses.$

✤ Toassessthepost-test

knowledge regarding hand off skills of nurses during shift change among registered nurses.

Tofindouttheassociationbetweenpre-testandpost-

test knowledge regarding hand off skills of nurses during shift change among registered nurses

IV. Methodology

The study was conducted at Apollomedics Super Speciality Hospitals, Lucknow, Uttar Pradesh. Thisstudywasdonefor3months i.e.fromOctober2021toDecember2021.Priortothecommencement of this study a pilot study was conducted and it was found that the ISBAR Tool as feasible, appropriate, and practicable. The population for the study was the registered nurses who were available at the timeofdatacollectionatApollomedics SuperSpecialityHospitals,Lucknow,UttarPradesh.

300 registered nurses were taken as a convenient sample. Data collection was done from the 11th ofOctober to the 27th of December 2021. Analysis and interpretation of the data were made with the helpof descriptive and inferential statistics. Nurses who are included in this study were working in directpatientcare forexampleInpatientDepartments(ICUandWards)andexcludingthe

criteriaofEmergency,ChemotherapyDepartment,OutpatientDepartment,OperationTheatre,DayCare,Dialysis, and other roles nurses like Infection Control Nurse, Charge Nurse, Quality Nurse, NurseEducator.

This study was a Quasi-experimental design, where the study was done using pre-post evaluation through a structure dquestion naire prepared to assess the competency regarding hand offskills of nurses during the structure dquestion of the structure dquest oshift change The tool was given for content validity to experts in the fields of nursing andmedicine. The reliability of the tool was tested by the test and retest method. The Tool used for datacollection was divided into three sections in which Section A contains 15 questions of 30 marks and each question scores 2 marks. Section B contains 20 questions of 40 marks Section C contains 15questions of 30 marks which counts as a total of 50 questions amounting marks. Thefactto total of 100 а finder has made the category to how can the knowledge beassed, so scores are like Above Average

- 66<. Average-31-65, Below Average- 0-30. Before initiation of the study ethical clearance wasobtained from the Institutional Ethics Committee and Guidance was given by the Departmental HeadofNursingServices.

V. Result and Discussion

This study deals with the analysis and interpretation of data collected from the registered nurses AQuasi-experimental design was adopted to determine the effectiveness of the structural questionnaireprogram. The research design had only one group. The test re-test method was used for testing thereliabilityofthetool.Datawereanalyzedusingdescriptiveandinferential statistics. The analysis and interpretation weredone intwo parts.

Part1:Dealswiththefrequency and percentage distribution of critical and non-critical careregistered nurses 'knowledge regarding hand off skills of nurses during shift change.



Part-I





Figure 3: Frequency Distribution according to Department

Age	Frequency	Percentage
20-25yrs	138	46
26-30yrs	120	40
31-35yrs	25	8.33
36-40yrs	13	4.33
41-45yrs	3	1
46-50yrs	1	0.33
Total	300	100
Qualification	Frequency	Percentage
BSc. Nursing	39	13%
PostBScNursing	6	2%
GNM	255	85%
Total	300	100%
Departments Frequency	Percentage	
CriticalCareUnits.	164	54.66%
Non-CriticalCareUnits.	136	45.33%
Total	300	100%

Table-1-Frequencyofregisterednursesaccordingtotheagegroup

The above table shows that 46% of nurses were in the age group of 20yrs to 25yrs, 40% were from 26yrs to 30yrs, 8.33% were from 31yrs to 35yrs, 4.33% were in 36yrs to 40yrs, 1% were from 41yrs to 45yrs and 0.33% were in 46yrs to 50yrs.

The above table also depicts that 13% are qualified for BSc. nursing, 2% are qualified with Post BScNursingand85% arehavingadiplomainnursing(GNM).

The above table shows that 54.66 % belongs to critical care unit and 45.33% belongs to non-critical careunits.

Part-II Dealswithitem-wisedistributionofpercentage, meanandstandarddeviationofknowledgesources onhandoffskillsofnursesduringshiftchangeamongregisterednurses.

Figure:4-Distributionofpercentage,themean,andstandarddeviationofknowledgesourcesonhandoffskillsofnursesduringshiftc hangeamongregisterednurses.



MEANPRE-TEST	42.44
STANDARDDEVIATIONPRE-TEST	14.06
MEANPOST-TEST	73.42
STANDARDDEVIATION POST-TEST	12.57

Table2: Meanandstandarddeviation of knowledgesources on hand offskills of nursesduringshift change among registered nurses'

Knowledge Level	Below Average(<33)	Average(34-66)	Above Average(>67)
Percentage Pre Test	29.30%	69.30%	1.30%
Frequency Pre Test	88	208	4
Percentage Post Test	0%	32.3%	67.7%
Frequency Post Test	0	97	203

Table 3: Percentage and frequency according to knowledge level on pre-test and post-test



Figure 5: Percentage difference according to knowledge level on pre-test and post-test.

The above table 3 shows pre-test 29.30% were below average, 69.30% were average, and 1.30% wereabove average, and in the post-test, 0% were below average, 32.3% were average, and 67.7% wereaboveaverage.

Discussion: The results of the study proved that, after introducing appropriate training, there is anincrease of 66% of registered nurses who have gained excellent knowledge in the clinical handoffprocesswhereasinthepretesttheawarenesspercentageofthesamegroupwas130.Itwasalsoevidencethattherewasadecreaseinerrorduetoproperh andoffprocess.Hence,

implementing effective training and instilling the knowledge in reference to patients at is faction and nurse's acceptance in improving the nursing hand of f practices

Conclusion

Thisstudyisrelatedtostructuredclinicalhandoverprotocoloncommunicationandpatientsatisfactionthatsupports the need forstandardization of the nursing handoverprocess. Thisisachieved byincorporating the ISBAR tool which is effective in terms of sharing the knowledge and training inreference to patient satisfaction. It also adds value to nurses' acceptance of improving the nursinghandover practices. In conclusion, this study can be used as a future reference as it emphasizes qualityimprovementofthehandoverprocessbystandardizingitthroughISBARTool.

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