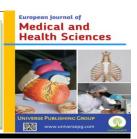


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Assessment of Healthcare Practitioners' Insight into the Handover of Patients and its Implications for the Safety of Patients

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ABSTRACT

Inadequate and Indiscernible interpersonal communication between healthcare professionals or groups of professionals is a main causal factor in errors and procedural mistakes in medical practice, and this undermines the safety of patients. The study assessed healthcare providers' insight into the handover of patients and how this impacts on patient safety. A cross-sectional survey was utilized with a sample size of 400, equally divided between nurses and doctors. A well-structured questionnaire was used to elicit the required information. The data collected were analyzed using SPSS 20.0 statistical package. The study revealed that the majority of the respondents had no formal training on patient handover (56.3% vs. 43.7%). Respondents were aware that ineffective communication at handover impacts negatively patient safety. The traditional method of handover is practiced and the most employed type (77%) and method (54%) of communication is the combined written verbal method. The obstacles to effective communication at handover were time constraints, excess workload, fatigue, and distraction. It was concluded that the insight of healthcare providers about handover and its impact on patient handover is passable and it can be improved upon by including handover in the training curriculum of nursing/medical students, regular refresher courses for practicing nurses/doctors to equip them with the skills that will advance both the content and communication at handover.

Keywords: Handover, Safety, Healthcare practitioners, Patients, Patient care, Patient safety, and Communication.

INTRODUCTION:

Discontinuity of care given by medical personnel is an unavoidable reality of hospital care. This is because no care provider can work round-the-clock in a hospital setting as burn-out, stress, and somnolences will be-cloud the sense of perception, reasoning, and judgment. These eventually will compromise the safety of patients. Consequently, patients on admission will predictably be catered for by different care providers in the course of a day. Nurses' change shifts every 8 to 12

hours, and, multiple physicians may be responsible for a patient's care at different times in the day. These breaks, breeds prospects for error when clinical information is not properly and accurately generated, processed and shared between healthcare providers. Handover is a critical aspect of "patient care that is neither well taught nor well practiced" (AMA, 2006). Though it has been recommended it is not included the academic curriculum of health professions (AMA, 2006).

There is "1 in a million chance of a person being harmed while travelling by plane. In comparison, there is 1 in 300 chance of a patient being harmed during healthcare" (WHO, 2018). "Estimates in developed countries revealed that as many as 1 in 10 patients is harmed while receiving hospital care" (WHO, 2018). Proficient and effective communication between healthcare providers at handover is pivotal to ensuring patient safety, and ultimately, averts medical errors that may result in mortality or maiming of a patient. Growing evidence has steered the World Health Organization to acknowledge communication in a handover in its top five patient safety solutions (WHO, 2007).

An estimated over 300 million handovers takes place each year in the United States of America (American Hospitals Association, 2014; CDCP, 2010) more than 40 million in Australia (Organization for Economic Co-Operation and Development, 2011) and over 100 million in England (Eggins and Slade, 2015), making handover perhaps the most regular and significant communicative course undertaken by medical personnel in the delivery of patient care (Health & Social Care Information, 2012-2013), yet it is one of the least considered and taught rudiments of daily patient care. Miscommunication is a leading cause of preventable error in studies of closed malpractice claims (Kachalla *et al.*, 2007; Singh *et al.*, 2007; Shah *et al.*, 2020).

Zinn, (1995) reported that of the 25 000 to 30 000 preventable adverse events that led to permanent disability in Australia, 11% were due to communication issues, in contrast to 6% due to inadequate skill levels of practitioners. Holly *et al.* (2004) and Reader *et al.* (2007) reported that ineffective intra-shift and inter-shift verbal and written communications were responsible for 57% and 37% of all the errors in healthcare respectively. Considering the crucial role played by patient handover in the continuum of care, the study aims to assess healthcare provider understanding of the process of patient handover and its implications for patient safety.

METHODOLOGY:

Research design - This prospective cross-sectional study was conducted at the Federal Medical Centre,

Yenagoa. The hospital has 425 bed capacities and is located at the Yenagoa metropolis, the capital city of Bayelsa State in the Southern Nigeria. It is a tertiary institution that provides all levels of health care services to patients, as well as training and research.

Sampling and data collection - The sample size was 400, made up of 200 doctors and 200 nurses. Cluster sampling was employed to equally administer close-ended questionnaires to the respondents at the different wards/clinics. The objectives of the study were fully explained to the participants and their informed consent was obtained.

All recruited subjects were administered an anonymous well structured, close-ended questionnaire. They were requested to respond genuinely to the questions in the study instrument and they were guaranteed the confidentiality of the information provided. All grey areas were clarified without giving away the answer(s) or biasing any response(s).

All questionnaires were checked for completeness of response(s) on return. Participants were encouraged to provide answers to any question that was skipped and if they are uncompliant, their right to decline were respected.

Analysis - All data extracted and entered directly into SPSS version 20 which was used for the analysis of the data

Ethical approval - This was duly given by the ethical committee of the hospital

RESULTS:

56.3% of medical personnel has had no formal training on handover of patients while 175(43.8%) had formal training (**Table 1**).

Table 2 Examined which patients should be included in handovers, revealed that 369 (92.3%) of the respondents agreed that all patients are to be handed over, 28 (7.0%) indicated that only new and critically ill patients should be handed over, while 3 (0.7%) respondents stated that only that only critically ill patients, should to be handed over

Table 1: Sex distribution of respondents/if they have had any training on handover

Variables	Males	Females	Total (%)	Have you had any formal training o handover of patient			ing on the
					Yes (%)	No (%)	Total
Doctors (%)	125 (62.5%)	75 (37.5%)	200 (100%)		175 (43.8%)	225(56.3%)	400(100%)
Nurses (%)	22 (11%)	178 (89%)	200 (100%)				
Total	147 (36.8%)	253 (63.2%)	400				

Table 2: Handover and its implications for patient safety

VARIABLE	FREQ	%
Which patients should be included in handovers		
All patients	369	92.3
New patients and those diagnosed as critically sick	28	7.0
Only patients that are critically sick	3	0.7
the only patient in whom an action is required	0	0.0
TOTAL	400	100%

Table 3: Process and content of handover of patient

Declaration	Responses							
Declaration	SA	A	D	SD	Decline	Total		
	Freq (%)	Freq (%)	Freq (%)	Freq (%)	Freq (%)	Freq (%)		
Ineffective communication at handover is a	224	161	10	5		400		
foremost cause of avoidable medical blunders.	(56.0)	(40.3)	(2.5)	(1.2)		(100)		
Transfer of information from an outgoing shift/call to an incoming one is a fundamental facet of handover.	272 (68.0)	101 (25.2)	13 (3.3)	2 (0.5)	_	400 (100)		
At handover report writing/taking notes is essential, as it gives details of the health status of each patients.	198 (49.5)	166 (41.5)	32 (8.0)	4 (1.0)		400 (100)		
Verbal handover method is best apt for the sharing of pertinent facts about patients care/general ward issues	131 (32.8)	176 (44.0)	81 (20.2)	12 (3.0)		400 (100)		
Report writing gives details about the health condition of patients and when combined with written verbal method is the best form of handover	234 (58.5)	130 (32.5)	33 (8.3)	3 (0.7)	_	400 (100)		

Strongly agree (SA), Agree (A), strongly disagree (SD), Disagree (D)

As shown in **Table 3**, the process and content of handing over of patient revealed that 224 (56.0%) respondents strongly agreed that ineffective communication at handover is a leading cause of preventable medical errors; 161 (40.3%) respondents agree; 10 (2.5%) other respondents disagree while the remaining 5 (1.2%) respondents strongly disagreed. 272

(68.0%) of respondents strongly agreed that the transfer of information from an outgoing shift/call to an incoming one is a critical aspect of handover; 101 (25.2%) other respondents agree; 13 (3.3%) respondents disagree while the remaining 2 (0.5%) respondents strongly disagree. 198 (49.5%) of the respondents strongly agree that report writing gives details of the health status of each patient in the handover process; another 166 (41.5%) respondents agree; 32

(8.0%) of the respondents disagree while the remaining 4(1.0%) other respondents strongly disagree. 131 (32.8%) of respondents strongly agree that verbal handover is best suited for the exchange of relevant information about patients care/general ward issues; 176(44.0%) of respondents agree; 81(20.2%) other respondents disagree while the remaining 12 (3.0%) respondents strongly disagree. Report writing gives

specifics about the health condition of patients in the handover process and when combined with written verbal method is the best form of handover was strongly agreed to by 234 (58.5%) respondents; 130 (32.5%) of respondents agree; 33 (8.3%)respondents disagree while the remaining 3(0.7%) respondents strongly disagree.

Table 4: Implications of handover on patient care and safety

	Responses								
Declaration	SA	A	D	SD	Declined	Total			
	Freq (%)	Freq (%)	Freq (%)	Freq (%)	Freq (%)	Freq (%)			
An essential element of patient handover is	160 (40.0)	190	23 (5.8)	9 (2.2)		400 (100)			
prioritizing giving of care.	100 (40.0)	(48.0)	23 (3.6)	9 (2.2)	23 (5.8)	400 (100)			
Lateness to work causes hurrying over the		158				400			
handover process and this will lead to	211 (52.8)	(39.5)	22 (5.5)	9 (2.2)		(100)			
ineffective communication.		(37.3)				(100)			
There should be a well-defined delineation of									
who is responsible for ensuring important tasks	122 (30.5)	206 (51.5)	54 (13.5)	2 (0.5)		400			
are coordinated and accomplished for each	122 (30.3)	200 (31.3)	J T (13.3)	2 (0.3)	16 (4.0)	(100)			
patient or group of patients.									
An improvement in patient safety and staff	113					400			
familiarity with a patient will ensue with a	(28.2)	164 (41.0)	23 (5.8)	4 (1.0)	96 (24.0)	(100)			
written handover document.	(28.2)					(100)			

Solutions in **Table 4** represent the implications of handover on patient care and refuge. It revealed that 160 (40.0%) of the respondents strongly agreed that the crucial factor in patient handover is the prioritization of care; 190(48.0%) other respondents agree; 23(5.8%) another respondent disagree while the remaining 9(2.2%) respondents strong disagreed. On whether lateness to work causes hurrying over the handover process and which may lead to ineffective communication, 211(52.8%) of respondents strongly agree; 158(39.5%) other respondents agree; 22(5.5%) respondents disagree while the remaining 9(2.2%) respondents strongly disagree. 122(30.5%) of respondents strongly agree that there should be a distinct

delineation of who is responsible for ensuring important tasks are coordinated and accomplished for each patient or group of patients; another 206(51.5%) respondents agree; 54(13.5%) of the respondents disagree while the remaining 2(0.5%) respondents strongly disagree. 16(4.0%) declined answering. Correspondingly, 113(28.2%) and 164(41.0%) of respondents strongly agree and agree respectively that an improvement in patient safety and staff familiarity with patients will occur if a written handover document were to be produced; 23(5.8%) other respondents disagree while another 4 (1%) of the respondents strongly disagree. 96(24.0%) declined answering.

Table 5: Implications of handover on patient care and safety

	Responses								
Declaration	Never (%)	Rarely (%)	Most of the time (%)	Always (%)	Declined	Total (%)			
Handover information is routinely perused and updated regularly by you during the shift or call.	16(4.0)	95(23.8)	148(37.0)	141(35.3)		400 (100)			

A frequent mode of handover is verbal communication. How often can you recollect information relayed on to you?	2 (0.5)	61(15.3)	261 (65.3)	76(19.0)		400 (100)
Handovers kick starts work schedules, are there specific gadgets (electronic or otherwise) in place that hints at accomplishment of certain task.	18(45.8)	111(27.7)	67 (16.7)	28(7.0)	11(2.8)	400 (100)

Results in **Table 5** which represent the implications of handover on patient care and safety shows that 141(35.3%) respondents always routinely crossed checked and updated regularly handover information in the course of the shift or call; 148(35.3%) of the respondents does so most of the time; 95(23.8) respondents do so rarely while 16(4.0%) of respondents never cross check nor update handover information. On "a frequent mode of handover is verbal communication, how often can you recall information passed-on, to you"? 261(65.3%) respondents stated most of the time, 76(19.0%) respondents stated it is always, for 61 (15.3%) of respondents it was rarely while the remaining 2(0.5%) of respondent stated that they never recall information passed. On handovers kick starts work

schedules, are there specific gadgets (electronic or otherwise) in place that hints at accomplishment of certain task? 183(45.8%) respondents stated never; 111(27.7%) of respondents stated it was occasional; 67(16.7%) of the respondents stated it was most of the time while the remaining 28(7.0%) respondents stated it was always. 11(2.8%) declined.

On communication type employed at handover, majority of the respondents 319(79.8%) used the combine written and verbal method; 64(16.0%) of respondents used the verbal method; 5(1.2%) respondents used taped while 2(0.5%) respondent each for written only and written verbal methods (**Table 6**).

Table 6: Communication type employed at handover

Variable	Verbal (%)	Written only (%)	Written verbal (%)	Non- Verbal (%)	Combine written & verbal (%)	Taped (%)	Total (%)
Type of communication practiced	64	2	2	8	319	5	400
during handover	(16.0)	(0.5)	(0.5)	(2.0)	(79.8)	(1.2)	(100)
What communication type is most	167	9	0	5	216	3	400
often employed in patient handover	(41.7)	(2.3)	(0.0)	(1.2)	(54.0)	(0.7)	(100)

Table 7: Type of handover and barriers to communication at handover

Variable	Yes (%)	No (%)	Declined (%)	Total (%)
Do you have a written well laid-out, handover document/patient list' in some/all of the wards	96 (24.0)	304 (76.0)		400 (100)
Lack of time	255 (63.7)	51 (12.8)	94 (23.5)	400 (100)
Fatigue	285 (71.3)	37 (9.3)	78 (19.5)	400 (100)
Distraction	235 (58.8)	40 (13.5)	111 (27.8)	400 (100)
Excess workload	335 (83.8)	17 (4.3)	48 (12)	400 (100)

Table 7 shows that 304 (76.0%) respondents stated that there is no written well laid-out, handover document/'patient list' in some/all of the wards, while 96 (24%) respondents stated yes. On the barriers to com-

munication at handover; Lack of time 255(63.7%) of respondents said yes while 51(12.8%) respondents said no and the other 94(23.5%) respondents declined. On fatigue 285(71.3%) of respondents said yes while

37(9.2%) respondents said no and the other 78(19.5%) respondents declined. On distraction 235(58.8%) of respondents said yes while 40(13.4%) said no and 111(27.8%) declined answering. On excess workload 335(83.8%) of respondents said yes while 17(4.3%) respondents said no and the remaining 48(12.0%) respondents did not answer.

DISCUSSION:

The study revealed that 56.3% of respondents had not had any formal training on patient handover; this infers that majority of the nurses and doctors that routinely handover patients had no formal coaching. This mirrors the finding by other authors (AMA, 2006; Eggins and Slade, 2015; Bomba and Prakash, 2005; Arora *et al.*, 2009). This is not surprising because it is not part of the academic curriculum in the training institutions and health institutions do not routinely undertake training of medical personnel on handover prior to assumption of duty (Saha *et al.*, 2020).

Majority of the respondents rightly stated that, all patients on admission is to be handed over. However, 7% of respondents erroneously stated that new admissions and those diagnosed as critically ill are the patients to be handed over while 0.7% of the respondents opined that only the critically ill patients are to be handed over. This mirrors the fact that majority of respondents, had no formal training on handover of patients however, irrespective of how small these percentages are, the lack of the knowledge that all patients should be handed over, invariably put the patients in harm's way. The predominant type of handover is the traditional method of handover, 76.0% of the respondents rightly stated that they do not you have a written well laid-out, handover document/ 'patient list' in some/all of the wards as it obtains in the standardized method of handover. This invariably impacts on the communication method employed during handover of patients. The study revealed that the predominant communication type and method used at handover is the combine written and verbal method. This method has been reported as the most effective means of communication at handover as it combines the advantages of both methods and recall is best achieved (Bomba and Prakash, 2005; Arora et al., 2009). The barriers to communication at handover were lack of time, fatigue,

distraction and excess workload. This corroborates the findings by other authors (Bhabra *et al.*, 2007; Kessler *et al.*, 2014).

The study revealed that handover has great implycation on patient care and safety. As highlighted rightly by majority of respondents, crucial factors in patient handover are; the prioritization of care, lateness to work causes rushing of the handover process and this will lead to ineffective communication, establishing a distinct delineation of which staff is responsible for ensuring important tasks are coordinated and accomplished for each patient or groups of patient and an improvement in patient safety will ensue and staff familiarity with patients will occur if a written handover document were to be produced. However, it is worrisome when the percentage disagreeing with the above is considered. For example 14% of respondents disagree that there should be a distinct delineation of who is responsible for ensuring important tasks are coordinated and accomplished for each patient or group of patients. As reported by Greenberg et al. (2007) failure to institute this at the start of shift/call duty, evidently puts the patient at risk as there will be no-appropriate delineation and assignment of duties and responsibilities at the commencement of the shift/call to ensure that all tasks and care are conscientiously undertaken. Similarly 7.7 % of respondents disagrees that lateness to work causes hurrying over the handover process and this will lead to ineffective communication. The scenario is such that one staff is late and needs to take over to start his/her duties while the other is exhausted and amongst other considerations, need to get home as soon as possible. This is a ready atmosphere for ineffective communication as some of the necessary information needed to be passed on, may be skipped or glossed over. This invariably compromises the safety of the patients under this team. These underscore the importance of a formal training and retraining on handover.

Thepredominant communication type and method used at handover is the combine written and verbal method respectively. Bhabra *et al.* (2007) reported that regularly updating the written or printed sheets in the course of handover ensure that the information passed at handover is retained. Majority of the respondents stated that handover information is routinely cross

checked and updated regularly by them in the course of the shift or call as judge by the respondents that do so "most of the time or always" (Table 5). The percentage of respondents that update the written document "occasionally" and "never" account for 23.8% and 4.0% respectively. This is unacceptably high considering that patient care and safety will be compromised by these sets of respondents as they are likely to lose tract of updated critical aspects of management of the patients. After the combine written and verbal method of communication, the next frequent mode of communication is the verbal method and respondents stated that most of the time they can recall the information passed while 15.3% of respondents stated they do so occasionally. Verbal handovers contained more information than written handovers however, Bhabra et al., (2007) reported that when patient information is handed over by the verbal only method, very few facts are retained, accordingly the authors advised that this method should be avoided whenever possible.

Review of the process and content of handover of patient revealed that respondents were well aware that ineffective communication at handover is a leading cause of preventable medical errors. They were also aware that the transfer of information from an outgoing shift/call to an incoming one is a critical aspect of handover and that writing of report gives specific details of the health condition of each patient in the handover process. These are keys elements of patient safety that the handover process is supposed to be diligently and painstaking undertaken at the conduct of each handover of patient. It is established that when compared to the verbal method it remarkably reduces the time spent at handover as there is no interruption, however it is not recommended. It is the least mode of handover communication employed in the institution.

Limitation of the study

Considering the sampling technique employed, if the health care practitioners sampled, are bias in their responses, then this will infer that the other practitioners have the same erroneous opinion.

CONCLUSION:

The assessment of healthcare providers' comprehension of handover and its relation to patient safety is reasonably good, when it is related to the fact that majority of the respondents have not been formally trained. We therefore recommend the incorporation of handover in the training curriculum of nursing/medical students, those already employed should at least twice yearly undergo regular updates on the knowledge and practice of handover to improve handover content and communication. All newly employed nurses/doctors should undergo compulsory training on patient handover before assumption of duty.

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CONFLICTS OF INTEREST:

The authors declare no conflict of interest.

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