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Cultural Perceptions of Patient Safety among Dentists, Young Dentists and Medical Staff in Dental and Oral Hospital

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Keywords:

Cultural Perceptions; Patient Safety; Dentist; Dental and Oral Hospital

ABSTRACT

The application of patient safety culture is a major aspect of good quality Dental and Oral Hospital services. There are various professions, types services, equipment, and provide services for 24 hours without stopping. The aim of this study is to determine culture perceptions of patient safety among dentists, young dentists and medical staff in dental and oral hospitals. This type of quantitative descriptive research with cross-sectional approach. Research site in the dental and oral hospital of the University of Muhammadiyah Semarang. A sample of 65 respondents consisting of dentists, young dentists, and medical staff used simple random sampling techniques. Patient safety instruments from the Agency Health Research and Quality Care. Data analysis using univariate is presented in the frequency distribution table. The results of this study are Perception of Dentists, Young Dentists and Medical staff on the assessment of internal cooperation is poor(50.8%), Perception of the assessment of managers or supervisors is good(64.4%). Perception of communication appraisal in the work unit is good(50.8%), Perception of the frequency of reports of wrong actions or events is not expected to be good(53.8%). The perception of the assessment of the patient safety level is good (55.4%). The perception of hospital management overall assessment is poor(58.5%). The conclusion of this study is the culture of patient safety in the Dental and Oral Hospital from the perception of Dentists and Medical Staff are good, but from the perception of Young Dentists are still poor.

Kata kunci:

Persepsi budaya; Keselamatan Pasien; Rumah Sakit Gigi dan Mulut;

Penerapan budaya keselamatan pasien merupakan aspek utama dalam kualitas pelayanan Rumah Sakit Gigi dan Mulut secara baik. Ada bermacam-macam profesi, jenis jasa, perlengkapan dan pelayanan selama 24 jam tanpa henti. Tujuan dari penelitian ini adalah untuk mengetahui budaya persepsi keselamatan pasien pada dokter gigi, dokter gigi muda, staf medis di rumah sakit gigi dan mulut. Jenis penelitian ini deskriptif kuantitatif dengan pendekatan cross-sectional. Lokasi penelitian dilakukan di Rumah Sakit Gigi dan Mulut Universitas Muhammadiyah Semarang. Sampel penelitian sebanyak 65 responden yang terdiri dari dokter gigi, dokter gigi muda, dan staf medis, dengan menggunakan teknik simple random sampling. Instrument budaya keselamatan pasien diambil dari AHRQ. Dimana analisis data menggunakan univariat disajikan dalam table distribusi frekuensi. Hasil penelitian ini adalah persepsi dokter gigi, persepsi dokter gigi muda, dan staf medis terhadap penilaian. Kerjasama internal kurang baik(50,8%), persepsi manajer atau supervisor terhadap penilaian baik(64,4%), persepsi penilaian komunikasi di unit kerja baik(50,8%), persepsi frekuensi pelaporan Tindakan atau kejadian yang tidak diharapkan baik(53,8%), persepsi penilaian tingkat keselamatan pasien baik(55,4%), persepsi keseluruhan manajemen rumah sakit kurang baik(58,5%). Kesimpulan dari penelitian ini adalah budaya keselamatan pasien di Rumah Sakit Gigi dan Mulut dari persepsi dokter gigi, dokter gigi muda, dan staf medis sudah baik, namun dari sudut pandang dokter gigi muda masih kurang baik.

INTRODUCTION

Patient safety is a problem that exists in all countries, both developed and developing countries. The application of a patient safety culture can minimize the dangers that occur from the non-treatment process or other treatments which will become unexpected events in the hospital (WHO, 2020).

Hospital patients experienced an unexpected incidence of approximately 10%, with half of them manageable but 14% of patients uncontrolled and developing disability or death (de Vries, E. N., 2008). The number of incidents reported by The National Reporting and Learning System (NRLS) for the UK continues to increase, with 488,242 incidents reported from July to September 2018 representing a 4.1% increase from the number reported from July to September 2017 (485,156) (National Health Service, 2019). The number of hospitalized patients in China reaches 230 million annually (National Health and Family, 2011). Even assuming an incidence rate of at least 2% (Kalra J, 2013), 4.6 million hospitalized patients each year will experience adverse events (Xiaoli J, 2014). In Indonesia, there were only 132 incidents reported in 2013 (Dhamanti I, 2015) although it increased to 688 in 2016 (Gusman Y, 2017). Incidence data is difficult to find annually because incident reporting or patient safety that is shared with the public is not available to the public (Iskandar H, 2014; Dhamanti I, 2019).

The World Health Organization (WHO) and The Agency for Healthcare Research and Quality (AHRQ) have made Patient Safety Culture (PSC) as one of the indicators for evaluating the performance of health services such as hospitals (Kingston M. J, 2004; Mardon R.E, 2010; Clancy C. M, 2011; Famolaro T, 2016). Patient safety culture is built by various factors (dimensions), according to the NHS (2010) dimensions of patient safety culture include: leadership, teamwork, communication, workload and security systems. Research studies that good leadership has a significant relationship with work safety behavior and patient safety in hospital. Good leadership can improve compliance in safety and reduce the number of accidents. Teamwork is fundamental in improving the quality of care and patient safety culture. The hospital leadership needs to ensure the effectiveness and conductivity of teamwork in the hospital to create good interactions. Excessive workload can cause stress, without realizing it, the stress that occurs in medical personnel at work has an effect on hospital services, stress can cause a decrease in patient safety rates, less optimal nursing care, and frequent errors. Supervision and security systems in hospital are basic things that must be carried out well, this is very important to do to prevent unexpected happening in the hospital. This instrument is designed to measure patient safety culture in the health care sector from a management and staff perspective. This instrument has been used effectively to evaluate safety culture among physicians, administrative staff, inpatient and outpatient services, hospitals, and clinics (Famolaro T, 2016; Armellino D, 2010; Boan D. M, 2012).

The existence of a leadership policy that has been socialized, the quality of the leadership, the professionalism of skilled medical and non-medical personnel and the communication of patients and their families in care are needed to ensure a continuous improvement in the application of patient safety culture in hospitals (Vincent C, 2010; Davis R. E, 2012; Papanicolas I, 2019; Shojanika K. G, 2013; Burlison J, 2020; Ginsburg L, 2005; Timmel J, 2010; Weaver S. J, 2013). Evaluation of patient safety culture among young dentists, staff, and management at 7 United States dental school clinics found that 7 dental schools outperformed 20 hospitals in overall perceptions of safety, management support for patient safety, and teamwork across units (Pérez B. P, 2011; Ramoni R. B, 2012; Thusu S, 2012; Ramoni R. B, 2014; Leong P, 2008). The idea that medical staff can provide information about

patient safety is important. Perceptions of patient safety culture can be used to provide information about unexpected events in hospitals related to patient safety where it must be immediately realized and evaluated, patient safety incidents based on PMK RI No.1691 of 2011 are any accidental events and conditions that are resulting in or has the potential to result in preventable injury to the patient, including adverse events, near misses, non injury event, and potential injury event (Budi, Setya R, 2017). Patient safety in Indonesia itself is described in SNARS Edition 1 of 2018 (national Standards for Hospital Accreditation), including explaining: Identifying patients correctly, improving effective communication, increasing the safety of medicines that must be watched out for ensuring the correct location for surgery, correct procedure, surgery on the right patient, reduce the risk of infection related to health services, reduce the risk of injury to patients due to falls (Sutoto, dkk, 2018).

This is because so far, to determine the application of patient safety, it is more assessed from the perspective of medical personnel, both young dentists and dentists. The aim of this study is to determine culture perceptions of patient safety among dentists, young dentists and medical staff in dental and oral hospitals.

RESEARCH METHOD

This research was conducted in June-July 2020 with a descriptive quantitative research type and a cross-sectional approach. The research site is the Dental and Oral Hospital of the Muhammadiyah University of Semarang, Indonesia. The research subjects were 65 respondents with 10 dentists, 48 young dentists, and 7 medical staff using a simple random sampling technique. According to the Law on Medical Practice Medical Staff are doctors, dentists, specialist doctors, specialist dentist, and sub-specialist doctors according to the needs of the hospital. According to the Decree of the Minister of Health Number 631/MENKES/SK/IV/2005, medical staff are independent personnel, because every doctor has the professional freedom to make any clinical decisions on patients. The purpose of medical staff in this study is a group of staff who work together to help a chairman (doctor/dentists) in managing something.

The variables of this study were the perception of occupational safety culture and types of work, namely dentists, young dentists, and medical staff. Patient safety culture data was collected using the AHRQ questionnaire (AHRQ, 2015; AHRQ, 2016) The AHRQ questionnaire is reliable and valid because the development of the survey was used carefully and thoroughly, is comprehensive and specific and provides detailed information that can help identify patient safety, and is easy to use (Diena, S, 2014) with 6 dimensions, namely assessment of internal cooperation (within work units), assessment of managers / supervisors, assessment of communication in work units, frequency of reports of unexpected actions/events, assessment of the level of patient safety, and assessment of the overall hospital management. Meanwhile, the data on the types of workers used secondary data from hospital management.

This study has received permission from the management of the Dental and Oral Hospital, Universitas Muhammadiyah Semarang, Indonesia. Data analysis used univariate analysis which is presented in the frequency distribution table.

RESULT AND DISCUSSION

Dental health services, be it clinics, hospitals, or dental and oral hospitals, have begun to realize the importance of prioritizing patient safety, this is due to injury problems to patients,

medical personnel and resulting in decreased quality of service to patients (Obadan-Udoh E, 2015; Maramaldi P, 2016; Ulrich B, 2014; Dicuccio M. H, 2015). The technical services provided for dental care have a susceptible impact on the patient's injury. Improving the quality of service is needed to avoid these incidents by one of which is the implementation of a good patient safety culture (Thusu S, 2012; Ramoni R. B, 2014). In this study, it was suggested that dentists already had a good perception of patient safety culture so that the application in dental and oral hospitals was good.

Table.1 The Dimension Pasien Safety

No	Dimensions AHRQ	Type of Work						17 Total	
		Dentist		Young Dentist		Medical Staff		Good	Poor
		Good	Poor	Good	Poor	Good	Poor		
1	Patient safety culture	6	4	20	28	5	2	31	34
		60.0%	40.0%	41.7%	58.3%	71.4%	28.6%	47.7%	52.3%
2	Internal cooperation assessment (Dimension 1)	7	3	21	27	4	3	32	33
		70.0%	30.0%	43.8%	56.2%	57.1%	42.9%	49.2%	50.8%
3	Assessment of managers/ supervisor (Dimensions 2)	7	3	28	20	7	0	42	23
		70.0%	30.0%	58.3%	41.7%	100.0%		64.6%	35.4%
4	Assessment of communication in the work unit (Dimension 3)	5	5	23	25	5	2	33	32
		50.0%	50.0%	57.9%	52.1%	71.4%	28.6%	50.8%	49.2%
5	Frequency of action error report/ unexpected events (Dimensions 4)	4	6	26	22	5	2	35	30
		40.0%	60.0%	54.2%	45.8%	71.4%	28.6%	53.8%	46.2%
6	Assessment of patient safety (Dimensions 5)	2	8	32	16	2	5	36	29
		20.0%	80.0%	66.7%	33.3%	28.6%	71.4%	55.4%	44.6%
7	Assessment of hospital management overall (Dimensions 6)	5	5	17	31	5	2	27	38
		50.0%	50.0%	35.4%	64.6%	71.4%	28.6%	41.5%	58.5%

Source: processed from dental and oral hospital data

Based on the patient safety table at RSGM Unimus according to AHRQ, it can be said to be good and support patient safety. The perception of dentist and medical staff on safety culture, must be improved according to young dentists, the perception of patient safety culture has a smaller value than that's poor, therefore this dimension still needs to be improved. The assessment of internal corporation within work unit also decreased in young dentists where the score is not higher than good, overall internal corporation is good but still needs to be improved. The assessment of the manager/supervisor as a whole is good. According to the medical staff, there is no bad response from the medical staff, namely the manager /supervisor has supported a patient safety culture. Communication regarding communication within the work unit as a whole is good, which must be improved on communication to better support patient safety. According to young dentists, increasing good communication greatly affects patient safety so it must be improved. The overall assessment of the reporting of unexpected incidents, but dentists perceptions are still lacking in this regard so that it still needs to be improved to support patient safety. Patient safety RSGM Unimus must increase the perception of dentists and medical staff that it is still high on bad, that is, it has to improve patient safety culture, especially for dentists and medical staff. The perceptions of overall patient safety management in the dimensions of dentists and medical staff which have high scores is different from that of young dentists who are still in good grades so that it still needs to be improved in young dentists.

Internal cooperation between units in the hospital regarding coordination and mutual support between staff or medical personnel in providing services to patients. If there is an error that is done either on purpose or accidentally it is better to report it because it will bring positive changes for medical personnel or staff not to repeat it (Aprilia L, 2015). The workload with tight time causes the low quality of supervision, an unhealthy work climate so it is very important and requires good cooperation between medical personnel and health staff (Rahayu S. B, 2017). Cooperation within units shows the extent to which a division is cohesive in working together to achieve the goal of improving patient safety (Rosyada S. D, 2015).

Patient safety culture must be agreed upon by all parties in health services so that it focuses on a series of phenomena that have occurred so far so that they do not occur again (such as incident reporting systems, communication between employees, and improvement of human resources) (Mearns K, 2013). Management commitment, the degree to which employees believe it is safe to report patient safety incidents, whether the staff is informed about patient safety-related issues, the availability of resources and information for patient safety management is very important in improving patient safety (Mearns K, 2013; Reader T. W, 2020). The implementation of a patient safety culture cannot be separated from the active role of superiors, in this case, the management and superiors at the same level in promoting policies on patient safety. Giving rewards to employees who follow patient safety procedures at work, and the attitude of not neglecting patient safety can increase employee motivation in implementing a patient safety culture in the hospital (Pujilestari A, 2013).

Communication and information regarding patient progress in the hospital are a fundamental part of patient care. Transfer or sharing of information when changing the shift in care is called a handover. Which includes information about the patient's clinical condition, patient needs, patient personal circumstances, and patient social factors. the purpose of the handover is to convey information from each shift change and ensure safety in the care and actions to be given to patients (Faisal F, 2019). Good interaction between seniors and juniors

and superiors and subordinates can affect the perception of patient safety culture. Mistakes made by superiors or seniors can be communicated so that subordinates or juniors can learn to do work professionally (Reason J, 2016; Reader T. , 2015). Patient safety incidents can occur due to medical or non medical personnel who are unable to meet the workload due to a lack of human resources. This statement is supported by the opinion of medical staff in dimension 1 (cooperation in work units) that there is still a lack of human resources.

Patient safety incidents occur due to the number of medical and non-medical staff who cannot meet the workload, lack of human resources, experience stress, and fatigue that can trigger patient safety incidents in the hospital. The application of a patient safety culture is said to be successful if all medical members in the hospital apply a patient safety culture in doing their daily work. Mistakes made at work cannot be avoided, an incident can occur anytime and anywhere. A patient safety system should be built within a culture that does not blame reporting, but rather solves problems for correction and introspection to avoid the occurrence of the same error (Rochmah T. N, 2019).

Patient safety and leadership culture show the priority of the organization's management in predicting employee safety performance (ie, safety compliance and participation to avoid employee injury, and error-free and high-quality care to avoid patient injury) and occupational or medical accidents (Agnew C, 2013; Clarke, S, 2013; Griffin M. A, 2013). The knowledge, skills, and motivation of staff to behave safely determine the relationship between safety culture and unsafe behavior, with contextual factors such as policy also playing a major role (Leroy H, 2012; Wakefield J. G, 2010).

Their expertise, institutional roles, and proximity to safety management, members of this organization can provide insight into unsafe behavior, the reasons why such behavior occurs, and its consequences (Xia N, 2018). Safe patient care is also determined by the knowledge, skills, and motivation of employees, these factors are likely to be associated with clinical practice (Singer S. J, 2009; Vincent C, 2010), with behaviors important for avoiding patient harm that differ from safety adherence and safety participation behavior important to avoid accidents at work (Griffin M. A, 2000). Patient safety is an integral part of health care in the hospital which is very important to be applied and also carried out by all parties in the hospital so that the risk of negligence or death due to errors in patient safety can be minimized (Reader T. W, 2013).

CONCLUSION

According to the perception of dentists and medical personnel, the patient safety culture in the Dental and Oral Hospital is good, but from the point of view of young dentists, it is still not good. So that the hospital management needs to disseminate information about patient safety culture to young dentists.

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