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REVIEW

Factors Influencing Nurses' Willingness to Speak Up Regarding Patient Safety in East Asia: A Systematic Review

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Abstract: Speaking up for patient safety among health care professionals is important because it can contribute to the prevention of adverse patient events, such as medication errors, infections, wrong-site surgical procedures, and other sentinel events. This systematic review identified factors that facilitate or inhibit nurses' willingness to speak up regarding patient safety in East Asian hospitals. Following the steps of the Preferred Reporting Items for Systematic Reviews and Meta-Analyses guidelines, four databases, including PubMed, CINAHL, PsycInfo, and Web of Science, were searched. Nine studies were analyzed in this review, including five qualitative and four quantitative studies published between 2014 and 2019. Quality of included studies were evaluated using the Mixed-Method Appraisal Tool. Data synthesis was based upon qualitative-led synthesis adopting two existing multilevel frameworks on safety voice and employee voice signals. Four studies were conducted in Japan, three in South Korea, one in Hong Kong, and one in Taiwan. We organized factors influencing East Asian nurses' willingness to speak up regarding patient safety according to the following four contexts: individual (motivation toward patient safety, organizational commitment, perceived effectiveness and importance of speaking up, and assertive personality), team (positive relationship and team trust, team culture, and mentoring), organizational (hospital administrative support and organizational culture) and sociocultural (hierarchy and power differential and collectivistic culture). However, due to the limited number of studies conducted in East Asian hospitals, further studies with larger cohort samples of nurses in various East Asian countries should be conducted to deepen our understanding of nurses' willingness to voice their concerns for patient safety.

Keywords: assertive communication, voice, silence, having a voice

Introduction

In recent years, health care professionals' willingness to speak up in clinical settings has received significant attention, as it is essential to enhancing patient safety and quality of care.¹ Various terms, including assertive communication, speaking up, voice, and employee voice, have been used interchangeably to describe the concept of speaking up.^{2,3} In health care, speaking up for patient safety can be defined as discretionary, change-oriented, and assertive communication in clinical situations using questions or statements with information, concerns, or opinions about safety-related issues.^{4,5} Previous research has shown that health care professionals' choices to speak up can contribute to the prevention of adverse patient events, such as medication errors, infections, wrong-site surgical

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Among health care professionals in hospital settings, nurses' close contact with patients grants them a privileged position to observe and address patient safety issues. Further, frontline nurses play an important role in improving patients' safety, as they are well positioned to detect early signs of health hazards, and can bring them to the attention of other medical personnel.^{2,9,10} Therefore, it is vital for clinical nurses to voice their concerns regarding patient safety to prevent harm to patients. However, prior research has shown that nurses voice their concerns less often when they perceive patient safety issues in hospital settings, compared with other health care professionals.^{1,11}

Overall, little is known about factors influencing health care professionals' willingness to voice their concerns about patient safety.⁵ However, based on prior organizational literature and a recent review on this subject.^{4,12} nurses' willingness to speak up is influenced by several personal, team, organizational, and sociocultural factors. For example, nurses' fear of being blamed or dismissed if they voice their concerns can affect their willingness to speak up regarding patient safety.² Further, organizational factors such as hospital policies,² organizational culture,⁴ and hierarchies and power dynamics in health care organizations can hinder nurses' willingness to express their concerns or ideas.¹³ In addition, organizational research has demonstrated that sociocultural factors can affect individuals' willingness to speak up, as specific cultures can shape the organizational norms, which in turn can influence an employee's willingness to voice an opinion.¹² While various factors and contexts can influence nurses' willingness to speak up regarding patient safety, to the best of our knowledge, these elements have not been thoroughly examined in field-relevant literature. Furthermore, the effect of sociocultural context on speaking up should be examined to understand this phenomenon more fully. In a recent literature review, Noort, Reader, and Gillespie⁴ examined the ecological nature of safety voice by reviewing 45 studies conducted in various fields, including health care, most of which were derived from Western countries. However, there are well-documented cultural differences between Western and Eastern countries, so conducting a review of studies from East Asian countries is a necessary next step.

It is reasonable to assume that East Asian countries share similar norms, values, and beliefs.¹⁴ Deeply rooted in Confucian culture, natural hierarchies are common in various groups and settings in most East Asian cultures.¹⁵ Because of these hierarchies, speaking up is more challenging in East Asian societies than Western societies, where individual values and voices are more encouraged and accepted. Speaking up and patient safety are concepts that originated in Western culture, so factors contributing to nurses' willingness to speak up might differ in East Asian countries. In addition, previous reviews on speaking up^{2,4,13} have targeted various healthcare professionals, but nurses' experiences about speaking up in healthcare settings could be different from other healthcare professionals, especially from physicians, due to power differentials.¹⁶ Investigating factors affecting nurses' willingness to speak up in East Asia would expand our understanding of the role of cultural context in this phenomenon. Moreover, findings on this subject will promote the incorporation of cultural contexts into the development of interventions designed to help nurses speak up for patient safety. Therefore, the purpose of this review was to identify factors that influence nurses' willingness to speak up regarding patient safety in East Asian hospital settings.

Methods

Prior to conducting this review, we searched the International Prospective Register of Systematic Reviews and the Cochrane Library to ensure there has are no prior or ongoing systematic reviews on the topic of speaking up experiences of nurses working in East Asian hospital settings. Our review question identified the following variables of interests: target population (nurses), concept (speaking up), and context (hospitals in East Asian countries). Based on previous literature, in this review, speaking up regarding patient safety referred to informal, discretionary, assertive communication by a nurse about concerns, opinions, suggestions, questions, or information about safety-related issues for their patients to persons who might be able to take appropriate action for changes or improvement.^{3–5} The Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) framework¹⁷ directed the review. We searched the PubMed, CINAHL, PsycInfo, and Web of Science databases using the following keywords and combinations (including indexed terms such as MeSH, CINAHL heading, and text words): employee voice, voice, voice

behavior, speaking up, silence, withholding voice, assertive communication, and patient safety. An ancestry search was also conducted to identify other eligible articles. The searches were conducted by two reviewers (HJL and HL) who were assisted by an expert in library science in health care. <u>Appendix A</u> shows examples of search strategies used in this review.

Articles were included if they (a) were primary, peerreviewed, scholarly articles concerning nurses speaking up regarding patient safety; (b) included a sample comprising only nurses working in hospital settings; (c) were conducted in East Asian countries; (d) were written in the English language; and (e) were published between 1990 and 2020 to get as wide of a range of studies as possible because, to the best of our knowledge, this is the first review to examine the topic in this context. Studies were excluded if they were (a) conducted outside of a hospital setting; (b) theoretical, discussion, or review articles; (c) focused on incident/error reporting or whistle-blowing to the public rather than speaking up² or (d) focused on communication between health care professionals and patients or their families.²

Following database and ancestry searches, 1833 articles were identified. We screened the title and abstract of a total of 1162 non-duplicate articles, after which we excluded 1090 articles. Subsequently, the remaining 72 articles were independently read in full by the two reviewers to assess their eligibility. Following full-text reviews, 63 were excluded, as they did not meet the inclusion criteria. During the literature search process, disagreements between the two reviewers were discussed until a consensus was reached. Finally, nine studies were included in this review. Figure 1 illustrates the PRISMA flow diagram.

We included both quantitative and qualitative articles, all of which were appraised for quality using the Mixed-Method Appraisal Tool (MMAT), a critical appraisal tool for systematic mixed studies reviews.¹⁸ We chose this tool because it is a reliable and efficient tool¹⁹ that can be used to assess various study designs including quantitative, qualitative, and mixed methods.¹⁸ This tool has been used in previous systematic reviews that included articles with multiple study designs.^{20–23} The MMAT includes five questions with three possible responses (yes, no, or cannot tell) for quantitative, qualitative, and mixed methods studies. Using the appropriate category in the MMAT based on each article's study design, two reviewers (HJL and HL) independently conducted quality assessments that

were then reviewed by another reviewer (SS). If any disagreements surfaced, the reviewers discussed their assessments until they reached a consensus. The overall score for each criterion was not calculated, as recommended by the MMAT guidelines (See <u>Appendix B</u> for MMAT ratings).¹⁸

Three reviewers (HJL, HL, and SS) independently extracted data from all included articles, and disagreements among them were discussed until a consensus was reached. During the final review, the results of each study were organized using a matrix with the following information: author, year, country, study aims, methods, sampling and setting, speaking up or silence definition, main results, and limitations. For quantitative studies, information regarding independent/dependent variables and their measurements was also extracted. Additionally, the research team extracted themes and findings from qualitative studies. The extracted data were then validated by another reviewer (SL).

Data synthesis was based upon qualitative-led synthesis adopting two existing multilevel frameworks on safety voice⁴ and employee voice signals.¹² Extracted data were synthesized by identification, coding, and thematic grouping of factors influencing nurses' willingness to speak up and its consequences, and these were integrated into multilevel contexts as individual, team, organization, or societal contexts.

Results

Characteristics of Studies Reviewed

As shown in Table 1, nine studies were analyzed in this review, including five qualitative studies and four quantitative studies, published between 2014 and 2019. Four studies were conducted in Japan,²⁴⁻²⁷ three in South Korea,²⁸⁻³⁰ one in Hong Kong,³¹ and one in Taiwan.³² The number of nurses in the qualitative studies ranged from 3 to 23 and the number of nurses in the quantitative studies ranged from 247 to 988. Although some studies included samples of nurses and nurse managers, the majority of the samples (78% or higher) were staff nurses. Other sample characteristics, such as age and years of nursing experience, were reported in different forms in the studies reviewed (see Table 1). The number of hospitals varied from one to five; however, four studies^{25-27,29} did not mention the number of hospitals involved in data collection. According to the MMAT ratings, eight studies satisfied 100% of the criteria and one study³⁰ met 60% (Appendix B).

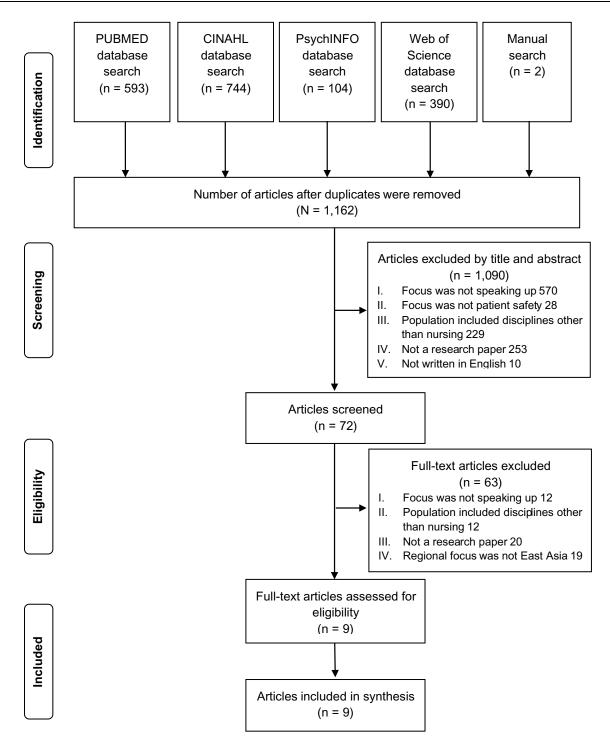


Figure I PRISMA flow diagram illustrating selection of studies for review.

Notes: PRISMA figure adapted from Liberati A, Altman D, Tetzlaff J, et al. The PRISMA statement for reporting systematic reviews and meta-analyses of studies that evaluate health care interventions: explanation and elaboration. Journal of clinical epidemiology. 2009;62(10). Creative Commons.¹⁸

Factors Influencing Nurses' Willingness to Speak Up Regarding Patient Safety

As shown in Table 2, adopting two multilevel frameworks for employee voice,^{4,12} we summarized factors promoting or inhibiting nurses' decision to speak up regarding patient safety in four contexts: sociocultural, organizational, team, and individual. In this review, we used the term context rather than level because the unit of analysis in the studies reviewed was the individual level. The sociocultural context included hierarchy,

Table I Summary of Studies Reviewed

Study	Aim/Methodology	Sample/Setting	Definition of Speaking up/Silence	Speaking up/ Silence Measure	Main results
[24]	A quantitative study examining nurses' speaking-up attitudes and behaviors using cluster analysis	N nurses (staff nurses and nurse managers) = 788 Age = NR Nursing experience (year) = 10.7 (mean) N hospitals = 3 Japan	Raising of concerns by health care professionals for the benefit of patient safety and care quality upon recognizing or becoming aware of the risky or deficient actions of others within health care teams ^{2,49,50}	Two items used to measure the frequency of being aware of risky behavior and experience of speaking-up in the previous month	Team relationship, seniors' attitudes, assertiveness, organizational commitment, and perceived importance and effectiveness of speaking up were positively related to nurses' speaking-up behavior. Negative attitudes toward voicing opinions within the health care team and perceived personal negative consequences of speaking-up were negatively associated with nurses' speaking-up behavior. No significant relationship was found between hospital administrative support and nurses' speaking-up behavior.
[25]	A qualitative study exploring how culture and values impact assertive communication of Japanese nurses	N nurses (staff nurses and nurse managers) = 23 Age (year) = 21-30 Nursing experience (year) = 1-21 N hospitals = NR Japan	Being able to respectfully express their opinions and concerns regarding patient care to other healthcare professionals, including those in authority ^{46, 51}	NA	Themes identified: 'Wa (harmony), Uchi to soto (inside and outside), implicit communication/ambiguity, Nemawash (groundwork)
[26]	A qualitative study exploring how cultural values influence Japanese nurses' assertive communication behaviors and attitudes	N nurses (staff nurses and nurse managers) = 23 Age (year) = 21-30 Nursing experience (year) = 1-21 N hospitals = NR Japan	Being able to respectfully express their opinions and concerns regarding patient care to other health-care professionals, including those in authority ^{46, 51}	NA	Themes identified: collectivism, hierarchy/power
[27]	A qualitative study to explore perceptions of the relevance and use of assertive communication and to identify factors influencing assertive communication of Japanese nurses	N nurses (staff nurses and nurse managers) = 23 Age (year) = 21-30 Nursing experience (year) = 1-21 N hospitals = NR Japan	Being able to respectfully express their opinions and concerns regarding patient care to other healthcare professionals, including those in authority ^{46, 51}	NA	Facilitators of assertive communications were supportive environment, positive relationships, effective role models, experience/knowledge about speaking up, and motivation to provide person- centered care. Inhibitors of assertive communication were strict hierarchies, age-based seniority, concerns regarding offending colleagues, and disrupting team harmony. Consequences of not being assertive: internal discontent, situational discord between staff, and patient deterioration
[28]	A quantitative study developing a hypothetical model that explains nurses' silence regarding patient safety	N nurses = 309 Age (year) = 29.94 (mean) Nursing experience (month) = 72.69 (mean) N hospitals = 5 South Korea	Setting of actions with which organizational members maintain silence in situations related to patient safety	Defensive silence scale ⁵² modified to capture employee silence in the context of patient safety in the hospital by Tangirala and Ramanujam ⁵³	Nurse-physician collaboration, supervisory trust, and patient safety motivation had a negative association with silence regarding patient safety. Organizational culture and patient safety attitude did not have significant associations with silence regarding patient safety.
[29]	A qualitative study generating a model that explains the communication processes of nurses in clinical settings in South Korea	N nurses = 15 Age (year) = 31.6 (mean) Nursing experience (month) = 90.6 (mean) N hospitals = NR South Korea	NR	NA	Themes identified: getting to know unspoken rules, persevering within the culture, acting as a senior nurse

(Continued)

Table I (Continued).

Study	Aim/Methodology	Sample/Setting	Definition of Speaking up/Silence	Speaking up/ Silence Measure	Main results
[30]	A quantitative study examining the factors influencing nurses' willingness to report near misses	N nurses = 498 Age (year) = 28.8 (mean) Nursing experience (year) = 5.8 (mean) N hospitals = 1 South Korea	Conscious and progressive attitude adopted to protect oneself from possible disadvantages	Defensive silence scale ⁵²	Defensive silence was negatively associated with nurses' willingness to report near misses. Knowledge-sharing climate moderated the association between defensive silence and willingness to report near misses.
[31]	A qualitative study exploring the process of learning to speak up among newly-graduated nurses	N nurses = 3 Age = NR Nursing experience = NR N hospitals = 1 Hong Kong	Using voice to convey specific information that might make a difference to patient safety to someone with higher authority ⁵⁴	NA	Themes identified: learning to speak up requires more than one-off training and safety tools, mentoring speaking up in the midst of educative and miseducative experiences, making public spaces safe for telling secret stories
[32]	A quantitative study to examine associations between team trust, team- based self-esteem, and voice behavior of nurses and to explore the moderating effect of power distance orientation in the relationships	N nurses = 247 Age (year) = 35.57 (mean) Nursing experience (year) = over 6 (mean) N hospitals = 1 Taiwan	Behavior that challenges the status quo with constructive suggestions or opinions for one's own benefits, even in a dissenting situation ^{55,56}	Six items from the Helping and voice extra-role behaviors ⁵⁷	Team trust was positively associated with nurses' voice behavior. Team-based self-esteem partially mediates the association between team trust and voice behavior. Power orientation distance moderated the indirect effect of team trust on voice behavior through team-based self-esteem.

Abbreviations: N, number; NR, not reported; NA, not applicable.

power differentials, and collectivistic culture. The organizational context consisted of hospital administrative support for patient safety and organizational culture. The team context included positive relationships and team trust, team culture, and mentoring. Finally, the individual context included motivation toward patient safety, organizational commitment, perceived effectiveness and importance of speaking up, and assertiveness.

Sociocultural Context

Hierarchy and Power Differential

Age-based seniority, seniority-based hierarchy, and genderand profession-based power differentials inhibited nurses'

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lable 2 Fa	ctors Influencing	Nurses	Speaking U	p and Ke	maining Silent

Context	Factor	Association with Outc	Association with Outcome		
		Speaking Up	Remaining Silent		
Sociocultural	Hierarchy and power differential Collectivistic culture	Inhibiting ^{26,27,29,31} Inhibiting ^{25,29,31}	Promoting ²⁹ Promoting ²⁹		
Organizational	Hospital administrative support Organizational culture	Not significant ²⁴	Not significant ²⁸		
Team	Positive relationship and team trust Team culture Mentoring	Promoting ^{25,27,29,32} Promoting ^{24,27,29,31} Promoting ^{27,31}	Inhibiting ²⁸		
Individual	Motivation towards patient safety Organizational commitment Perceived effectiveness and importance Assertiveness	Promoting ²⁴ Promoting ²⁴ Promoting ²⁴	Inhibiting ²⁸		

willingness to speak up and promoted silence.^{26,27,29,31} A hierarchical relationship, which is determined by age rather than competence, impaired junior nurses' willingness to speak up,²⁹ even when they were aware of threats to patients' safety, because the act of speaking up was considered imprudent, especially to senior health care personnel.26,27 Moreover, hierarchical relationships, when coupled with indirect communication styles, made junior nurses hesitant to voice their concerns or ideas. Implicit communication is typical in Korean and Japanese culture; thus, junior nurses are expected to anticipate implicit intentions and messages from their seniors even if the communication is not clear or straightforward.^{25,27,29} Further, nurses reported that speaking up was difficult due to the power differential. In general, physicians are considered to have more power than nurses in work settings; therefore, nurses' willingness to speak up is often restricted by the power of physicians.^{26,27,29} Furthermore, gender norms frequently discourage female nurses from being assertive. They often have difficulty speaking up when in the presence of male health care providers due to a culture that expects women to be non-confrontational.²⁶ Such inherent cultural and social norms often discourage nurses from speaking up.

Collectivistic Culture

Collectivistic cultures put more value on group identities and group benefits over personal achievements.¹² In a collectivistic culture, the maintenance of harmonious working relationships is more valued than expressing ones' ideas, which makes it difficult for nurses to speak up.^{25,29,31}

Organizational Context

Hospital Administrative Support and Organizational Culture One Japanese study examined the relationship between hospital administrative support for patient safety and nurses' speaking up behaviors, and found no statistically significant relationships between them.²⁴ One Korean study found that nurse-perceived organizational culture had no influence on nurses' silence regarding patient safety.²⁸

Team Context

Positive Relationships and Team Trust

Several studies showed that positive relationships among nursing staff and between nurses and physicians, as well as nurses' trust in their team, influence nurses' willingness to speak up. For example, nurses' perceived sense of belonging to their teams and their relationship with their peers both positively affect their willingness to speak up.^{25,27,29} Nurses who reported having better working relationships with physicians were more likely to speak up regarding patient safety.²⁸ In addition, as nurses trusted their team more and felt more confident that they were valuable to the team, they were more apt to express their concerns, ideas, and opinions.³² Nurses were more likely to speak up regarding patient safety when they had higher levels of trust in their relationship with supervisors.²⁸

Team Culture

Team culture supports an environment where being assertive is acceptable, which promoted nurses' willingness to speak up. An environment where senior nurses and managers attentively take junior nurses' opinions into consideration is conducive to nurses' willingness to voice their thoughts and concerns.^{24,29} Previous studies reported that nurses spoke up more when their managers and senior colleagues showed a supportive attitude toward their voice and contributions, which created an environment where their voice was perceived as safe and effective.^{27,31} Conversely, a team culture that does not support assertive communication causes nurses to perceive speaking up as unsafe and ineffective. When nurses felt that their voices were ignored or rejected by peers and/or senior health care professionals, they avoided speaking up, as they felt doing so was unsafe and even futile.^{29,31} Specifically, being ignored by team members without any explanation prevented nurses from voicing their opinions or concerns regarding patient safety.³¹

Mentoring

Mentors can be a variety of individuals, including senior health care professionals, managers, colleagues, and physicians in a team.³¹ As an educational experience, mentoring influenced nurses' willingness to speak up even when they felt that voicing their concerns was unsafe or ineffective.³¹ In addition, nurses felt more at ease toward speaking up when they had effective role models who were assertive and showed that voicing one's thoughts or concerns was an important aspect of health care.^{27,31}

Individual Context

Several individual factors influenced nurses' willingness to speak up. Nurses' motivation toward patient safety inhibited their silence.²⁸ Nurses who were more committed to their organizations tended to voice their thoughts and concerns more frequently.²⁴ In addition, nurses' perceived effectiveness and importance of speaking up and assertiveness were positively related to how often they spoke up.²⁴

Consequences of Not Speaking Up

Two studies reported the nurse-perceived consequences of not speaking up. Nurses felt that not speaking up made them miss a chance to exchange proper information for patient care, which could cause a patient's condition to deteriorate.²⁷ Nurses reported emotional reactions, such as feelings of regret, discontent, stress, and worry, as a consequence of not speaking up.²⁷ Furthermore, higher levels of nurse silence were negatively related to their willingness to report near misses.³⁰

Discussion

This systematic review aimed to identify factors influencing nurses' willingness to speak up regarding patient safety in East Asian hospitals. We found that not only individual, team, and organizational factors, but also broader sociocultural factors influenced nurses' willingness to voice their thoughts and concerns.

According to our findings, sociocultural characteristics play a significant role in nurses' willingness to speak up; these include age- and seniority-based hierarchies,^{26,27,29,31} power differentials between professions and genders,^{26,27,29} and collectivistic culture.^{25-27,29,31} In general, Asian cultures place a significant emphasis on seniority.²⁶ Even though there is no clear definition of seniority in the literature, it is generally understood as a system defined by age differences between individuals, paternalism, and the ideas of Confucianism that emphasize the importance of respecting one's elders.³⁴ Compared to Western countries, in which positional hierarchy is not affected by the age of employees, in Japan and Korea, seniority is determined by age and job longevity. Therefore, employees who are older and have been working longer in a specific position or institution are more respected and their opinions are highly valued.^{26,34} In these cultures, it is difficult for junior staff to raise their concerns or opinions to their managers and senior colleagues, even when they notice unsafe situations that could negatively impact patient safety. Furthermore, gender and professional power imbalance can adversely affect nurses' willingness to speak up. In a strongly hierarchical culture, the power imbalance between men and women, and physicians and nurses, is significant,³⁵ which makes female nurses more hesitant to speak up and less likely to assertively voice their ideas or concerns.¹³ Lastly, East Asian cultures generally consider group goals and values more important than those of the individual.³⁶ In collectivist cultures like these, interconnectedness between group members shapes their identity, opinions, and thoughts, while individuality is not encouraged unless the majority of group members allows it.³⁷ Such strong hierarchies and collectivistic culture in East Asia can hinder nurses' will-ingness to voice their thoughts, opinions, and concerns.

In this review, we found that open and supportive leaders were conducive to nurses' willingness to speak up. Based on this finding, we suggest that hospital administrators and nurse leaders should find ways to motivate and empower nurses to openly express their thoughts and concerns. According to findings from previous research, one promising way to encourage nurses to speak up is by establishing and developing their feeling of psychological safety,^{8,38} which is "a shared belief that the team is safe for interpersonal risk taking."39(p.354.) Researchers have emphasized that the behaviors of managers or supervisors can help develop a psychologically safe environment that encourage their employees to speak up.^{8,38} can Subordinates' psychological safety can be promoted by leaders' inclusive behaviors,⁴⁰ which are characterized by clear exhibition of openness, availability, and accessibility.41 Inclusive leaders actively invite others to voice their opinions and show appreciation for them, thus allowing their subordinates to believe that their voices are heard and sincerely valued⁴² in so doing, inclusive leaders facilitate greater psychological safety among their staff.^{16,41} Simultaneously, support from the organizational level is necessary, for example, realigning the organization's policies to be consistent with a new culture and providing physical space or services to promote staff engagement.⁴³ Driving changes at the organizational level is challenging but indispensable to expedite and sustain the new culture.

This review demonstrated that hierarchical culture was one of major barrier for nurses to speak up in East Asian hospital settings. Overall, in East Asian cultures, people are prone to adopt indirect communication styles rather than direct verbal communication, and words are understood more in context than in their literal meaning.⁴⁴ Further, understanding meaning through context alone without asking directly is often regarded as a virtue. Thus, hierarchical relationships coupled with indirect communication styles might lead nurses to stop voicing their concerns about patient safety. Although limited, studies have examined the effectiveness of assertiveness training for nurses. For example, Yoshinaga et al⁴⁵ conducted assertiveness training that consisted of two 90-minute training sessions and demonstrated that it was effective for the long-term enhancement of assertiveness among nurses in Japan. Additionally, Omura et al⁴⁶ conducted a literature review on the effectiveness of assertiveness training programs for health care professionals and students; this review included eight studies (seven of which were conducted in Western countries) and showed the sustained effect of assertiveness in nurses and nursing and medical students. Providing such trainings may be beneficial for East Asian nurses to develop assertive communication skills.

In general, studies on employee voice have been conducted primarily in Western countries.² However, as cultural contexts can influence staff voice or silence,¹² future studies should explore how sociocultural factors interact with nurses' willingness to voice their thoughts and concerns in East Asia. Further, in this review, we determined that measures regarding nurses' speaking up used in three quantitative studies were originally developed in Western countries, but only one study²⁸ detailed a discussion on the cross-cultural adaptation and validation of its measures. When a translated version of an instrument is used in another cultural context, cross-cultural validation is necessary to demonstrate whether the tool is applicable in other cultures.^{47,48} This is because a concept, which is measured by subjective perceptions that are based on personal experiences, could have different meanings in different cultures. Thus, instruments developed in Western countries may be inadequate to properly measure employee voice or silence in an East Asian cultural context. Therefore, future studies should conduct a rigorous cross-cultural adaptation and validation process of their tools if they are being used in cultural contexts different from which said tools were developed. Moreover, we suggest that future research should expand its sampling, settings, and regions beyond Western countries to better understand the role of sociocultural contexts in determining nurses' willingness to speak up at the global level. This is particularly important because the international migration of health care professionals, especially nurses, has increased cultural diversity among hospital employees.

This systematic review had several limitations. Some studies may have been overlooked due to the fact that a variety of terms are used to refer to speaking up.² We used various search terms and their combinations, but we were unable to improve the sensitivity of these parameters during our literature review. Moreover, we may have missed relevant studies because we limited our search to studies published in English. Finally, due to the small

number of studies reviewed, generalizing our results might prove difficult. Nevertheless, this review improves the understanding of nurses' willingness to speak up regarding patient safety in East Asian hospitals.

Conclusion

This review provided information about factors associated with nurses' willingness to voice their thoughts and concerns regarding patient safety in East Asian hospitals. The reviewed studies indicated that individual, team, organizational, and sociocultural factors influenced nurses' willingness to speak up. This review demonstrated that Asian sociocultural characteristics (such as age- and seniority-based hierarchies, collectivistic culture, and professional and gender differences) make nurses hesitant to voice their concerns about patient safety. We found that open and supportive leaders play a vital role in supporting nurses' willingness to speak up when they had concerns, ideas, questions, or suggestions related to patient care. Health care and nursing leaders should understand which factors facilitate or impede nurses' willingness to speak up regarding patient safety; they should also implement strategies to effectively motivate and empower East Asian nurses to voice their concerns, which could, in turn, improve patient safety in health care systems.

Author Contributions

All authors made a significant contribution to the work reported, whether that was 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; 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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