

# Speaking Up in the Operating Room: Escalating Concerns

Marta Inés Berrío Valencia<sup>1</sup>, Karoll Rodelo Ceballos<sup>2</sup>

<sup>1</sup>Anaesthesiologist, University of Antioquia, Medellín, Colombia

<sup>2</sup>Anaesthesiologist, Montreal General Hospital, McGill University Health Centre, Canada

Edited by: Amanda Milligan, Consultant Anaesthetist, Glasgow Royal Infirmary, Glasgow, UK; Sally El-Ghazali, Consultant Anaesthetist, Northwick Park Hospital, London, UK

Corresponding author email: [martaberrio@gmail.com](mailto:martaberrio@gmail.com)

Published 31 January 2023



## KEY POINTS

- Every member of the operating theatre team should feel empowered to speak up when a potential error may occur.
- Education on strategies for speaking up among team members should be encouraged.
- Assertiveness and speaking up must be coupled for effective communication in the clinical environment.

## INTRODUCTION

Communication in the operating room (OR) is challenging: there is a flux of many specialties; complex patients; background noise, including monitors and surgical equipment; and a variety of procedures that require prompt decision making. The styles of communication can differ between surgical specialties, anaesthesiologists, specialty trainees, and nursing staff; therefore, working in a psychologically safe environment, where anyone would feel able to raise concerns, is paramount.<sup>1</sup>

Organizational cultures that promote psychological safety among team members provide safer care for patients.<sup>2</sup> This educational environment must be aligned with a nonpunitive response to errors and continuous cultural improvement and organizational learning.<sup>3</sup> Speaking up and flattening hierarchy in some urgent scenarios plays an important role in maintaining patient safety. This tutorial presents some definitions, techniques, strategies, and barriers for implementing speaking up in the OR.

## DEFINITIONS

Psychological safety is a shared belief that anyone on the care team can speak up and share their opinion respectfully without fear of retribution. In this safe environment staff members should develop positive interpersonal relationships that are perceived as supportive and trusting, where it is okay to share ideas and voice potential concerns.<sup>2</sup> Psychological safety empowers core team behaviours, like speaking up.<sup>2</sup>

Speaking up is explicitly communicating task-relevant observations, or requesting clarification of, or explicitly challenging or correcting, a task-relevant decision or procedure.<sup>4</sup> This may be affected by power distance.

Power distance refers to inequity that may exist between 'high-status' and 'low-status' individuals that could influence team decisions, team cohesion, and dynamics.<sup>5</sup>

Speaking up is an important way to increase situational awareness, learn from each other, and provide constructive feedback amongst the OR team members.

An online test is available for self-directed continuous medical education (CME). It is estimated to take 1 hour to complete. Please record time spent and report this to your accrediting body if you wish to claim CME points. A certificate will be awarded upon passing the test. Please refer to the accreditation policy [here](#)

[TAKE ONLINE TEST](#)

Subscribe to ATOTW tutorials by visiting <https://resources.wfsahq.org/anaesthesia-tutorial-of-the-week/>

## TECHNIQUES

Several structured communications tools have been designed to reduce the probability of error when one team member recognizes a problem during teamwork. These tools are easy to remember and use incremental actions to challenge colleagues and reduce the potential for error.<sup>1</sup>

Examples of tools that may be applied to express concerns within the team include the concerned–uncomfortable–scared (CUS) model, which was created by United Airlines for their crews; the probe–alert–challenge–emergency (PACE) model; and the 5-step advocacy and inclusive leadership concept.<sup>1</sup> These tools are further explained in Tables 1, 2, and 3 using the following example.

Dr Smith is a general surgeon who has been working in an academic hospital for 15 years and is also the program director of the residency program. Dr Harvey is a first-year surgery resident who started his residency 3 months ago. Today is the first time that they are working together, and Dr Harvey is going to assist Dr Smith in the OR in a right open inguinal hernia repair with a mesh. After the induction of the anaesthesia, Dr Harvey noticed that the left side is marked for the operation.

If there is a failure to respond to the above-listed tools, the Agency for Healthcare Research and Quality<sup>6</sup> suggests the ‘two-challenge rule’. When an initial assertive statement is ignored, a team member must raise the concern twice and be sure that it has been heard. Following this, if there is still a breach in safety, the team member must address the concern to someone in a leadership position or take another course of action.

Dr Smith replied to Dr Harvey, ‘I marked the side in front of the nurse and we both verified that the hernia is on the left side. I am going to go ahead with the surgery’. Dr Harvey raised his concern again to the whole team and this time he involved the senior surgery resident. Dr Harvey showed the images and notes to the senior resident and they both raised the concern together.

The example also demonstrated how hierarchy in the operating room could prevent or delay a team member from speaking up because of the status and power of senior clinicians. The first-year resident included the senior resident in raising their concern

Term	Status	Sample Statement
Concerned	I am concerned!	‘I am concerned that you have drawn your marking on the wrong side’.
Uncomfortable or unsafe	I am uncomfortable!	‘I am uncomfortable that you might make your incision on the incorrect side’.
Scared	This is a safety issue!	‘I am scared that you will perform the surgery on the wrong side’.

**Table 1.** CUS Tool. CUS indicates concerned, uncomfortable, or scared.

Term	Sample Statement
Probe	‘Dr Smith, do you know that the patient requires repair of his right-sided inguinal hernia instead of the left?’
Alert	‘Can we reconfirm the site of the surgery?’
Challenge	‘We need to pause now’.
Emergency	‘Please stop the surgery and verify imaging, check the notes, consent form and reexamine the patient’.

**Table 2.** PACE Tool. PACE indicates probe, alert, challenge, emergency.

Step	Sample Statement
1. Get the person’s attention.	‘Excuse me, Dr Smith, I need some clarification’.
2. Respectfully state the problem as you see it.	‘Can we confirm that the right-side hernia repair is the correct operative side?’
3. State the consequence of not dealing with it.	‘The patient could have wrong-side surgery, exposure to unnecessary surgical complications, and require an additional procedure on the correct side, causing a lack of trust in the medical system’.
4. Make a suggestion to address the issue.	‘I would like to see the images and the informed consent to confirm the side’.
5. Seek agreement on the plan of action.	‘Is my plan to check the images before starting OK with you?’

**Table 3.** 5-Step Advocacy

Factor	Perception
Perception of effectiveness of speaking up	Receptiveness and impact: certainty about the positive consequences of speaking up, providing feedback about reported concerns
Motivation to speak up	High index of suspicion, self-empowerment to voice concerns, leaders encourage and model speaking-up behaviour (cultural norm) and positive reinforcement of safety practices, personal and organizational fierce intolerance of risk
Clinical factors	Feeling responsible for patients' safety, understanding of current best practices, high clinical confidence, prior favourable experiences (positive reinforcement)
General contextual factors	Interdisciplinary policy making, organizational edict to speak up, clear procedure for resolving conflicts about safety, anonymous reporting systems

**Table 4.** Enablers to Speaking Up<sup>2,12</sup>

and reduced the power distance between them and the most senior clinician. A more experienced surgical resident raising or sharing the concern may penetrate the hierarchy more effectively in this example.

Leaders who explicitly invite others to share ideas or concerns, or use inclusive language such as 'we' (eg, 'What are we missing?'), promote speaking up and create a psychologically safe environment.<sup>7</sup> This is called *inclusive leadership*, and focuses on building relationships between team members to create a sense of identity where all members work together. It means a team member sharing crucial information about the patient that is missed by the leader can speak up freely and prevent errors.

## IMPLEMENTATION STRATEGIES

Although several techniques have been described, an ideal teaching tool for speaking up has not been specifically developed.<sup>8</sup> High-fidelity simulation interventions to teach conflict management skills at the undergraduate level, and interprofessional education events in conjunction with interactive presimulation activities, for example, video case studies or virtual games, could be used to practice implementing the tools.<sup>8,9</sup> Other educational interventions, such as practicing being assertive, speaking-up rubrics, role-play exercises and debriefing, are not effective in isolation,<sup>8</sup> and unless other measures are applied, such as institutional emphasis on speaking up even when uncertainty is present, behaviours are unlikely to change.<sup>10</sup>

Organizational changes, like building a climate of respect, staff training in the models of speaking up, and/or an internal anonymous reporting system, will help to facilitate speaking up (Table 4).<sup>11</sup>

There are also many factors that can prevent people from speaking up. Cultural, professional, and organizational structures can create hurdles to speaking up; people avoid speaking up in hierarchical environments where raising concerns is perceived by team members to be disloyal, disobedient, or disrespectful.<sup>10</sup> These factors create barriers to implementing a speaking-up culture, and are listed in Table 5.<sup>12</sup>

Factor	Perception
Hierarchy/workplace climate	Poor communication between senior staff and more junior staff (eg, residents) <sup>2,13,14</sup> ; communication breakdown or uncivil attitudes can contribute to poor patient safety. Lower position in the hierarchy within the perioperative team can be intimidating or create fear of reprisal. Challenging authority has a negative effect (lack of support); for example, on well-being or career prospects. Gender or minority ethnicity of reporter: women and nonwhite healthcare workers are more likely to have their authority challenged <sup>2,15</sup> or opinion dismissed. Workplace bullying may also contribute to poor patient safety.
Individual factors	Lack of formal training in speaking up or voicing concerns Lack of confidence or doubting one's knowledge, and concerns of appearing incompetent Poor communications skills Perception that nothing would be done even if you spoke up. Conflict-avoidance behavior
The perceived consequences	Fear of reprisal <sup>2</sup> Concern about own professional reputation; concern of impact on future training opportunities, or job options/prospects Alienation from team members

**Table 5.** Barriers to Speaking Up

## SUMMARY

Adopting a culture of safety around speaking up in the health care environment would promote psychological safety in the workplace, which is especially important when teams face difficult, often critical, situations. For this to happen, cultural, professional, and organizational barriers must be acknowledged and broken down. Furthermore, structured communication tools and anonymous reporting systems should be implemented, and interprofessional simulation of case scenarios should be undertaken regularly to learn skills in, and build confidence in, speaking up among team members.

## REFERENCES

1. Green B, Oepfen RS, Smith DW, et al. Challenging hierarchy in healthcare teams—ways to flatten gradients to improve teamwork and patient care. *Br J Oral Maxillofac Surg*. 2017;55(5):449-453.
2. Canadian Medical Protective Association. Team communication is critical to safe care. Accessed February 14, 2022. <https://www.cmpa-acpm.ca/en/education-events/good-practices/physician-team/team-communication>
3. Amiri M, Khademian Z, Nikandish R. The effect of nurse empowerment educational program on patient safety culture: a randomized controlled trial. *BMC Med Educ*. 2018 Jul 3;18(1):158.
4. Kolbe M, Burtscher MJ, Wacker J, et al. Speaking up is related to better team performance in simulated anesthesia inductions: an observational study. *Anesth Analg*. 2012;115:1099-1108.
5. Appelbaum NP, Lockeman KS, Orr S, et al. Perceived influence of power distance, psychological safety, and team cohesion on team effectiveness. *J Interprof Care*. 2020;34(1):20-26.
6. Agency for Healthcare Research and Quality. Pocket guide: TeamSTEPPS. Accessed February 14, 2022. <https://www.ahrq.gov/teamstepps/instructor/essentials/pocketguide.html#mutual>
7. Minehart RD, Foldy EG, Long JA, et al. Challenging gender stereotypes and advancing inclusive leadership in the operating theatre. *Br J Anaesth*. 2020;124(3):e148-e154.
8. Daly Guris RJ, Duarte SS, Miller CR, Schiavi A, Toy S. Training novice anaesthesiology trainees to speak up for patient safety. *Br J Anaesth*. 2019;122:767-775.
9. Oner C, Fisher N, Atallah F, et al. Simulation-based education to train learners to “speak up” in the clinical environment. *Simul Healthc*. 2018;13(6):404-412.
10. Da Silva C, Peisachovich E, Anyinam CK, et al. Speaking up against hierarchy: a simulation geared towards nursing students. *Cureus*. 2020;12(12):e11977.
11. Raemer DB, Kolbe M, Minehart RD, et al. Improving anesthesiologists’ ability to speak up in the operating room: a randomized controlled experiment of a simulation-based intervention and a qualitative analysis of hurdles and enablers. *Acad Med*. 2016;91(4):530-539.
12. Institute for Safe Medical Practices. Speaking up about patient safety requires an observant questioner and a high index of suspicion. Accessed July 22, 2022. <https://www.ismp.org/resources/speaking-about-patient-safety-requires-observant-questioner-and-high-index-suspicion#:~:text=Specialty%20Pharmacy-,Speaking%20Up%20About%20Patient%20Safety%20Requires%20an%20Observant,a%20High%20Index%20of%20Suspicion&text=Healthcare%20practitioners%20are%20expected%20to,and%20avoid%20adverse%20patient%20outcomes>
13. Beament T, Mercer SJ. Speak up! Barriers to challenging erroneous decisions of seniors in anaesthesia. *Anaesthesia*. 2016, 71, 1332-1340.
14. Kobayashi H, Pian-Smith M, Sato M, et al. A cross-cultural survey of residents’ perceived barriers in questioning/challenging authority. *Qual Saf Health Care*. 2006;15(4):277-283
15. Pattni N, Arzola C, Malavade A, et al. Challenging authority and speaking up in the operating room environment: a narrative synthesis. *Br J Anaesth*. 2019;122(2):233-244.
16. Pattni N, Bould MD, Hayter MA, et al. Gender, power and leadership: the effect of a superior’s gender on respiratory therapists’ ability to challenge leadership during a life-threatening emergency. *Br J Anaesth*. 2017;119(4):697-702.



This work by WFSA is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License. To view this license, visit <https://creativecommons.org/licenses/by-nc-nd/4.0/>

### WFSA Disclaimer

The material and content provided has been set out in good faith for information and educational purposes only and is not intended as a substitute for the active involvement and judgement of appropriate professional medical and technical personnel. Neither we, the authors, nor other parties involved in its production make any representations or give any warranties with respect to its accuracy, applicability, or completeness nor is any responsibility accepted for any adverse effects arising as a result of your reading or viewing this material and content. Any and all liability directly or indirectly arising from the use of this material and content is disclaimed without reservation.