Managing psychological safety in debriefings: a dynamic balancing act

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ABSTRACT

Debriefings should promote reflection and help learners make sense of events. Threats to psychological safety can undermine reflective learning conversations and may inhibit transfer of key lessons from simulated cases to the general patient care context. Therefore, effective debriefings require high degrees of psychological safety—the perception that it is safe to take interpersonal risks and that one will not be embarrassed, rejected or otherwise punished for speaking their mind, not knowing or asking questions. The role of introductions, learning contracts and prebriefing in establishing psychological safety is well described in the literature. How to maintain psychological safety, while also being able to identify and restore psychological safety during debriefings, is less well understood. This review has several aims. First, we provide a detailed definition of psychological safety and justify its importance for debriefings. Second, we recommend specific strategies debriefers can use throughout the debriefing to build and maintain psychological safety. We base these recommendations on a literature review and on our own experiences as simulation educators. Third, we examine how debriefers might actively address perceived breaches to restore psychological safety. Re-establishing psychological safety after temporary threats or breaches can seem particularly daunting. To demystify this process, we invoke the metaphor of a ‘safe container’ for learning; a space where learners can feel secure enough to work at the edge of expertise without threat of humiliation. We conclude with a discussion of limitations and implications, particularly with respect to faculty development.

INTRODUCTION

Debriefings drive learning during simulation-based training.1-4 These facilitated conversations among learners and faculty explore the relationships among events, actions, thoughts, feelings and outcomes.1 2 5 6 Effective debriefings help learners make sense of events and through reflection, encourage the transfer of learning from simulated cases to the general patient care context.7-9

Learners make mistakes, particularly when learning includes new habits and skills. Educators should enable them to reflect on these mistakes.10 However, organisational culture tends to regard mistakes as something to avoid; employees are usually rewarded for making no mistakes at all or correcting them quickly.11 As a consequence, employees experience fear, anxiety and embarrassment when they make mistakes and when they ask for help and seek feedback.10 12 Many employees engage in ‘protective strategies’13 such as face-saving actions: withdrawal, reluctance to ask for help and disclose errors and obscuring critique.10 12 14 This culture may suppress reflection in some debriefings,15 limiting feedback effectiveness in healthcare team trainings.16 Learning-oriented behaviours like speaking up, asking for help, admitting one is wrong or sharing assumptions, require participants to overcome feelings of defensiveness in discussing suboptimal performance.17-19 Debriefers are tasked with managing a dynamic balancing act among their learners: between feelings of fear, defensiveness and the desire to openly share, reflect and discuss for purposes of performance improvement. This sense of safety that enables effective learning conversations is called psychological safety.10 12

This paper provides a review of evidence for the importance of psychological safety for debriefing conversations and, most importantly, recommendations for establishing, maintaining and restoring psychological safety in debriefings. For this purpose, we follow the format of a hybrid review in which we combine the evidence from various streams of literature (ie, research on organisational behaviour, teams, emotions, safety, simulation and education, couple interaction and psychotherapy) with our extensive collective experience as simulation educators. We aim to add to the current understanding of psychological safety in simulation by providing simulation educators actionable knowledge on how to establish, maintain and restore psychological safety during debriefings. Building on innovative work by Rudolph et al on establishing psychological safety prior to debriefing,14 17 20 we focus on the time of when the debriefing starts until it is finished. These strategies contribute to the interplay of learners’ emotional state and their cognitive processes during the debriefing, which impact learning.18 21 22

To achieve our aim, first we provide a detailed definition of psychological safety and justify its importance for debriefings. Second, we build on innovative work by Rudolph et al on establishing psychological safety prior to debriefing.14 17 20 We focus on the time of when the debriefing starts until it is finished. These strategies contribute to the interplay of learners’ emotional state and their cognitive processes during the debriefing, which impact learning.18 21 22

Antecedents of psychological safety.

► The Objective Structured Assessment of Debriefing;23
► DE-CODE: a coding scheme to assess debriefing interactions.24

We differentiate explicit from implicit actions based on team science. Explicit actions are verbal, clear, directive and overt. Implicit actions are mostly non-verbal, tacit, subtle, discreet and sometimes more attitudinal than behavioural. Third, we examine how a debriefer might actively manage perceived breaches to restore psychological safety. We conclude with a discussion of limitations and implications, particularly with respect to faculty development.

Psychological safety

Psychological safety is a perception of the consequences of taking interpersonal risks in a given context.25 In a particular team, for example, psychological safety is high when team members perceive ‘a sense of confidence, that the team will not embarrass, reject or punish someone for speaking up. This confidence stems from mutual respect and trust among team members’ (p. 354).12 Psychological safety is not stable, but rather a dynamic and fragile perception. Particularly in interprofessional and interdisciplinary contexts, not all members of a team may experience the same degree of psychological safety at any one time.26 For example, physicians involved in a team debriefing may have a stronger sense of psychological safety among each other compared with the nurses or vice versa.

Research in organisational behaviour has revealed that psychological safety depends on the interaction of various factors. These factors are embedded in three levels (figure 1): the individual person, the team (eg, unit, operating room team, training team) and the organisation (eg, hospital; emergency department).25 For example, antecedents of psychological safety at individual and team levels include25,27:

► Individual level:
  - Proactive personality (ie, disposition to engage in proactive behaviour regardless of external forces);28
  - Emotional stability (ie, disposition to feel calm, relaxed, stable);28
  - Learning orientation (ie, tendency to focus on developing new skills rather than demonstrating high performance).30

► Team level:
  - Inclusive leadership (ie, leaders’ words and actions inviting and appreciating others’ contributions);31
  - Work design characteristics such as role clarity, interdependence, autonomy;
  - Peer support;
  - Trust and mutual respect.

While we will not discuss the comprehensive research on inputs and outputs of psychological safety, we have highlighted these factors and levels because they demonstrate the complexity of this topic. This is important for debriefings: since psychological safety is a very complex, subjective perception, we must remember that we cannot automatically ‘turn on’ psychological safety or decree that certain environments are ‘safe spaces’. In this paper, we will highlight the actions that simulation educators can take to contribute to intentionally strengthening or inadvertently weakening psychological safety.

Psychological safety in debriefings

Research has demonstrated that psychological safety supports a variety of outcomes such as creativity, engagement, performance, information sharing, speaking up and learning.25–27 Consequently, we view psychological safety as a necessary condition for effective debriefings.25 However, this necessity stands in sharp contrast to typical organisational practice. Organisational culture—in healthcare as in other industries—tends to implicitly view mistakes as a ‘crime’ to be punished, or something to be avoided. In some healthcare settings, for example, people may joke about the ABCs of learning (abuse, belittle, criticise), the ‘Mean Girls’ club in nursing education and dread morbidity and mortality conferences as a place of ‘shame and blame’ rather than learning.32 Employers typically reward employees for making no mistakes at all or correcting them quickly, but not for speaking up about them.13 As a consequence, when employees do make mistakes, ask for help, and or seek feedback, they understandably may experience fear, anxiety and embarrassment.10,12 They tend to engage in face-saving actions such as withdrawal, reluctance to ask for help and disclose errors and obscuring critique.10,12,14 Especially when learners already feel anxious, breaches of psychological safety can make it more likely that ambiguous stimuli will be viewed as threats since emotion frames how people process information.21,22,33,34 These findings help explain why innocent and seemingly innocuous actions on the part of debriefers may inadvertently trigger defensiveness, withdrawal or combativeness. Learners’ continued engagement in a debriefing may depend on how educators address resistance, fear, reluctance to engage or more dramatic breaches to psychological safety. Learners must feel safe to be vulnerable and engage in risk-taking, such as admitting they do not know something or made a mistake. Without this honesty in the service of learning, educators may fail to elicit important reasons behind gaps in performance. Psychological safety encourages learners to willingly ‘try and err at the edge of expertise where knowledge and skills may or may not be sufficient to avoid mistakes’.13

The tension between a desire for psychological safety to nurture learning conversations on the one hand and organisational culture or norms that suppress psychological safety on the other poses a challenge for many debriefers. Rather than simply reinforcing practices that exist elsewhere in the organisation, debriefers can sometime feel they have to create an island of psychological safety during debriefings. This makes their work harder, but may motivate educators to identify strategies to enhance psychological safety during debriefings. In this paper, we discuss actions that work in concert to...
minimise potential ambiguity and increase psychological safety during debriefings.

The ‘safe container’

The metaphor of a psychologically safe ‘container’ or ‘holding environment’ originates from psychoanalytic disciplines and helps simulation educators understand how to support learners’ risk-taking in the service of learning. Rudolph et al described this container for debriefing as a ‘context where difficult conversations, emotions or potentially threatening feedback can be tolerated and transformed into generative material in the learning process’. In this space, learners should ideally feel safe

![Diagram of debriefing strategies]

**Figure 2** Explicit and implicit debriefing strategies contributing to psychological safety before, during and after debriefing. Some strategies (eg, positive regard, behavioural integrity) are important at many times during a debriefing and thus appear more than once.

**Table 1** Explicit and implicit contributions to psychological safety during debriefings

<table>
<thead>
<tr>
<th>Explicit contributions</th>
<th>Implicit contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clarify expectations of learners (and debriefers).</td>
<td>Debrief in a private environment away from potential distractions or intrusions.</td>
</tr>
<tr>
<td>Commit to confidentiality and transparency during debriefing.</td>
<td>Arrive early, ensure you are prepared to start the session on time.</td>
</tr>
<tr>
<td>Use explicit inclusive language (ie, repeatedly invite and appreciate input).</td>
<td>Arrange seats in a circular manner to promote discussion among all learners.</td>
</tr>
<tr>
<td>Commit to behaving in a professional, respectful manner.</td>
<td>Ensure co-facilitators are across from each other.</td>
</tr>
<tr>
<td>Demonstrate authenticity by asking questions and facilitating discussion in a genuine manner.</td>
<td>Be mindful of timing during the debriefing, try to end on time.</td>
</tr>
<tr>
<td>Promote inclusivity by allowing for balanced contribution of all team members by explicitly managing turn taking.</td>
<td>Demonstrate behavioural integrity by being consistent between what you say and what you do, also in communicating with your co-facilitator.</td>
</tr>
<tr>
<td>Validate, paraphrase and/or apologise to learners when they express concerns with lack of realism (or other technical issues) and feelings that they were tricked causing them to underperform, potentially stating you will come back to it.</td>
<td>Convey empathy by mirroring/ mimicking affect of learners.</td>
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<tr>
<td>Convey curiosity by asking open-ended questions that seek to understand the learner’s thinking, or experience (or take-aways towards end of debriefing); use elaboration and clarification-seeking questions that elicit a deeper explanation of their point of view.</td>
<td>Pause to listen after having asked questions; resist the urge to interrupt and teach too quickly.</td>
</tr>
<tr>
<td>Appreciate when team members participate, self-reflect and discover by saying things such as ‘thanks for that’ or ‘appreciate hearing that’.</td>
<td>Accompany questions with non-verbal attention and positive affect (eg, leaning forward, making eye contact (if culturally appropriate), head nod).</td>
</tr>
<tr>
<td>Explicitly normalise poor performance by helping people understand why what they were doing was challenging.</td>
<td>Form questions in a real, open-ended form. Avoid forming questions in a closed, test-like form with predetermined answers in a kind tone of voice (also called Guess-What-I-Am-Thinking, or Read-My-Mind).</td>
</tr>
<tr>
<td>Demonstrate vulnerability by sharing thoughts, stories and own previous mistakes.</td>
<td>Use caution when combining the explanation ‘Why?!’ or ‘How come?!’ with sharp exhalations because this can be perceived as domineering, angry and taunting.</td>
</tr>
<tr>
<td>Use active listening to explicitly convey understanding (eg, “I hear you”, “That’s a good point”), and paraphrasing.</td>
<td>Convey validation by indicating attentive and affirmative listening (eg, ‘uh-huh’).</td>
</tr>
<tr>
<td>Provide clear and consistent direction, for example, by using verbal sign-posting to explicitly transition from one topic to another.</td>
<td>Hold the learner in positive regard (eg, assume their intentions are good).</td>
</tr>
<tr>
<td>Help learners rely on you to meet their learning needs by being directive when they expect you to be, do not be afraid to be instructor-centred when appropriate.</td>
<td>Refrain from demonstrations of contempt (eg, eye rolling, sarcasm), belligerence (eg, “Don’t interrupt me!”), domineering (eg, gloowering, invalidation, patronising), and defensiveness (eg, arms folded across chest, ‘yes, but’) ; also, refrain from complaints about others who might not be present and other rude behaviours.</td>
</tr>
<tr>
<td>Invite feedback after the debriefing is over to show genuine interest in improvement.</td>
<td>Towards the end of the debriefing: take the time to see participants off and give them sufficient time to leave.</td>
</tr>
<tr>
<td>Offer emotional support and make yourself available as needed.</td>
<td>Refrain from disposing of material developed during debriefing (eg, notes on flipchart) while participants are still present.</td>
</tr>
<tr>
<td>Towards the end of debriefing: apologise if there is no more time to discuss but that, if possible, discussion can be continued afterwards.</td>
<td>Maintain commitment to respecting confidentiality.</td>
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</table>

Enablers of the ‘safe container’

Unfortunately, the literature sheds little light on many aspects of psychological safety: how it develops, what promotes or threatens it and what may irreparably damage it. To identify actions that contribute to psychological safety during debriefings, we expanded our literature review beyond organisational behaviour to include research on teams, simulation-based education, emotion, psychotherapy and couples’ interaction. In addition, we reflected on our own and collective experience as simulation educators in Europe, Australia, Asia and North America.

We draw particularly on teamwork literature to differentiate explicit from implicit strategies (figure 2): whereas explicit actions are typically verbal, clear, directive and overt, implicit actions are mostly non-verbal, tacit, subtle, discreet and sometimes more attitudinal than behavioural. We consider this distinction between explicit and implicit important because they each describe a distinct set of efforts; neither alone is sufficient for creating and maintaining psychological safety.

While explicitness and implicitness go beyond verbal and non-verbal, respectively, they may entail contradictory actions and thoughts. That contradiction may threaten the perception of psychological safety. In debriefings, explicit and implicit actions should usually complement rather than contradict each other. As educators involved in faculty development, we have experienced debriefing situations where debriefers (including ourselves) do not ‘walk our talk’. For example, debriefers may state that they appreciate the learner and invite them openly share their thoughts (explicit), while at times conveying disinterest by not pausing after a question and interrupting or talking over learners (implicit).

The distinction between explicit and implicit actions allows us to emphasise the need for behavioural integrity or congruence between explicit and implicit messages. As debriefers, we should be consistent between what we say (“I am interested in your thoughts”) and what we do (pausing, listening). For example, declarations of curiosity could be accompanied by appropriate eye contact, an opened-ended form of questions, pausing, listening and potentially paraphrasing and asking additional open-ended questions.

While factors that influence learners’ perceptions of psychological safety certainly extend beyond debriefers’ actions (figure 1), in this article we focus on how debriefers can contribute to establishing, maintaining and restoring psychological safety. In doing so, we consider the debriefer and potential co-debriefers part of a debriefing system. In such a debriefing system, debriefers’ actions may influence learners’ sense of psychological safety while at the same time debriefers’ sense of psychological safety may influence their actions as well. Furthermore, many simulation educators lead debriefings with learners from the same institutions. Therefore, we must assume that organisational culture impacts both debriefers’ and learners’ sense of psychological safety.

Establishing psychological safety

For debriefings, work by Rudolph et al describes how to establish a ‘safe container’ for learning in prebriefings before simulation and its debriefings. We extend this important work and provide recommendations for establishing, maintaining and regaining psychological safety during debriefings. Since detailed advice on establishing it prior to debriefing is already available, we particularly focus on the time from the beginning to the end of the debriefing.

Establishing psychological safety prior to debriefing

The prebriefing before simulation-based training represents an ideal moment to engage in actions that contribute to establishing psychological safety. These actions have been described in detail elsewhere. In line with this literature and based on our own experience, we emphasise the importance of explicit actions for establishing psychological safety, however implicit actions such as the tone of voice, pacing, facial expression, inclusion of learners’ point of view and having high regard for the learners are important at this stage as well.

Establishing psychological safety at the beginning of debriefing

At the beginning of the debriefing, educators can explicitly reiterate many of the actions taken to establish psychological safety prior to the debriefing, particularly if some participants are not familiar with debriefings:

► Explain the debriefing process and the role of facilitators, participants and any potential observers.
<table>
<thead>
<tr>
<th>Trigger in debriefing</th>
<th>Examples for educators’ conversational strategies to ‘name the dynamic’*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learners or co-debriefers arguing heatedly about the best way to manage a clinical situation</td>
<td>Name, initiate reflection on positions(^{16}\hbox{46}); (\hbox{Hang on, Franz and Eve, may I press pause for a moment, I think you are talking about something both important and critical. But I am worried we are a bit stuck. Franz I see you are passionate about the importance of a low dose of X whereas Eve you seem to think that approach is wrong-headed. We’ve gone back and forth on this two or three times so I now think I see where you each end up but I don’t yet see—and I doubt others see—how you each got there. I’d like to propose we just slow this down and take a deeper dive into how you arrived at your conclusions. Then I think we will all be able to understand the pros and cons of each approach better. I will act a bit of a mediator here and ask each of you to share your thoughts while we record them on the white board. Okay with you?)^*</td>
</tr>
<tr>
<td>Learners criticising each other</td>
<td>Name, normalise, reframe useful aspects and initiate reflection on positions(^{44}\hbox{46}); (\hbox{Thank you for your comment(s)—I would like to press pause for a moment. I think it is interesting how easy it is to see potential errors or warning signals when one is outside the simulation and how difficult/noisy/overwhelming it is inside the simulation and therefore easy to miss things that seem obvious to those outside. This is why we have simulation! I would like us to explore why that is, what it has to do with something called situation awareness, and how we can use this phenomenon in clinical practice. Let’s do this after we have heard from everybody else who was in the simulation how they felt during the sim and agreed on the medical facts of this case). Or (\hbox{Thank you for your comment(s)—I would like to press pause for a moment. I think it is somewhat unexpected and fascinating that we can all see the same thing differently. This happens a lot in simulation. It is very common to see things from one’s own perspective or one’s own profession\’disciplines\’ perspective and assume others see things like we do. Highlighting this important difference in how we see the same thing differently is a useful aspect of interprofessional simulation. I would like us to explore why that is and we can make use of this variety of expertise, particularly in clinical practice. Let’s do this after we have heard from everybody else who was in the simulation how they felt during the sim and agreed on the medical facts of this case}.</td>
</tr>
<tr>
<td>Co-debriefers arguing with each other</td>
<td>Name, pause, restart: (\hbox{Uh! We are arguing! We both care about this topic so much we got overly wound up in this. Let’s pause and rewind. Sorry everyone. Okay let’s see if we can learn something from this}). (\hbox{Going to the white board to make it more cerebral and ‘cool down’}); (\hbox{I think it is crucial to do the X procedure first but Sally thinks it is best to do Y first. Let’s explore the pros and cons of each approach}).</td>
</tr>
<tr>
<td>Learner seems upset</td>
<td>Name, validate, provide options: (\hbox{Stefan, I see you are getting quieter and quieter and looking at the floor, it seems to me like you might be upset at the moment (pausing, giving time to react). That is perfectly normal. Let’s figure out what would work for you: would you like to have minute to yourself and step in when you feel like it? Do you feel like sharing what’s on your mind—now or in a couple of minutes? Whatever option is fine}).</td>
</tr>
<tr>
<td>Learner seems angry</td>
<td>Name, validate, reframe and invite to reframe a rebuke as a request(^{77}); (\hbox{I hear you! From what I just heard you say, it sounds to me like you are getting angry at the moment. I understand this, I sometimes get angry when I am very passionate about something. I appreciate that you share your point of view and I think that being able to figure things out together is important for patient safety. I am curious—and I assume others might be too—if you were to put what you have just said as a request or wish, what would that include?}).</td>
</tr>
<tr>
<td>Debriefee losing their temper</td>
<td>Name and apologise: (\hbox{Okay, sorry everyone! I lost my cool! That is not okay. I am so passionate about this issue that I let my feelings get the better of me. Let me rewind. Here is what was going on for me. The last time I had a family meeting like that, things did not go well. That does not justify my behaviour now. If you all are willing, I still think it would be good to explore the steps of a family meeting like this}).</td>
</tr>
<tr>
<td>Content expert (not trained in debriefing) hectoring or lecturing learners</td>
<td>Match intensity, then name, normalise and step in: (\hbox{Hang on Francisco! I can see you have a strong view on the best way to manage ECMO in that context! (with a friendly but strong/loud voice). However (lowering the volume and intensity of speaker’s voice), everyone here is trying their best and it is my job to allow everyone a chance to talk and share what they were trying to accomplish. Could I ask you to hold your thoughts for a few minutes? We will have a chance to explore the XYZ management challenges shortly. (Also, consider a short break to re-establish rules of engagement with content expert)}).</td>
</tr>
</tbody>
</table>

\*In ‘naming the dynamic’ the educator cannot just say, ‘Rashi and Mandua are mean and petty for treating each other in a mean and petty way!’ The goal is to name the limits of a current, dysfunctional behaviour pattern in a way that raises the conversation to another level.

- Explicitly invite participants to actively participate, self-reflect and discover and appreciate them for doing it.\(^{31}\hbox{41}\hbox{47}\hbox{48}\)
- Convey a commitment to respecting participants and understanding their perspective.\(^{17}\hbox{47}\hbox{49}\)

In our experience, being clear and setting the appropriate tone for the conversation is particularly important at the beginning of the debriefing. Especially in interprofessional and interdisciplinary settings, learners likely have very different experiences with group reflections and restating boundary conditions reaffirms a shared understanding within the group.

Implicit actions can additionally convey respect and curiosity, such as arriving early enough to welcome learners and be attentive to them\(^{17}\hbox{47}\hbox{49}\hbox{51}\) and holding participants and co-debriefers in positive regard.\(^{17}\hbox{47}\hbox{49}\hbox{51}\) In our experience as simulation educators, we consider additional steps as important ways contributing to learners’ psychological safety:

- Find a quiet and private debriefing space (if possible);
- Arrange the debriefing space to promote discussion (e.g., chairs for everybody in a circle or around table rather than classroom seating order, ‘ongoing debriefing’ sign outside the door to avoid unwanted interruptions);
- Sit down at eye level and take a position among the participants rather than at head of table;
- In co-facilitation situations, sit separately among the participants rather than beside each other, allowing to attend to important non-verbal cues\(^{4}\);
- Sitting next to a potentially vulnerable learner serves as a way of protecting them if they felt threatened during the scenario;
- When choosing where to sit, make sure that you will be able to keep eye contact with everybody and have access to a clock.

In our view, this additional time and preparation is always worthwhile because it emphasises the verbalised commitment to respect.

**Maintaining psychological safety**

Even seemingly basic debriefing principles collectively play an important role in contributing to psychological safety. These
Identifying breaches to psychological safety

We now discuss potential breaches to the safe container that may threaten the psychological safety of debriefings and ultimately impact learning. Debriefers are often able to recognise these breaches, which seem to suck the air out of the room and make it difficult for anyone to concentrate. Online supplementary table 1 provides an example of recognising and responding to a threat to psychological safety. The table represents a ‘two-column case’ based on work by Argyris et al,13 Senge35 and Rudolph et al.14 The right-hand column outlines the dialogue and non-verbal aspects of the interaction and the left-hand column provides insights to the debriefer’s contemporaneous thinking.

When psychological safety is threatened or breached, the conversation takes on a false or hollow feeling, which becomes unpleasant to all parties involved in the debriefing. In our view, potential indicators of breaches to psychological safety include:

► Learners who are typically engaged and conversant become quiet, sharing only brief statements on request;
► Learners exhibit closed body language, leaning back with arms folded across their chest and facial expressions that signal discontent;
► Learners offer ‘defensive’ or even hostile verbal comments and respond to debriefer’s inquiries with ‘yes-but’ or taunting questions such as ‘Why are you asking me this?’;
► Learners ‘complain’ about realism, arguing that they would have acted differently in real life;
► Learners suddenly stop making eye contact, staring at the floor or elsewhere;
► Learners argue or criticise each other.

In our experience, it is both important and challenging for debriefers to recognise these breaches and resist the tendency to blame the learner, and instead recognise their own potential contributions to threats to psychological safety. Co-facilitators may voice complaint about the ‘quiet group’ or ‘defensive learners’ during breaks and assign blame to the learners. We think it is normal for debriefers to get upset, too, and to respond to unexpected learner behaviours, which may trigger emotional reactions such as frustration, disappointment, genuine surprise or defensiveness. For example, complaints about realism can be particularly galling when educators spent hours or even days designing and piloting a new simulation. Comments about a simulation being ‘unfair’ can lure debriefers into an argument about how the simulation was, in fact, real. Such arguments can quickly amplify threats to psychological safety; they invalidate learners’ legitimate perceptions and place educators and learners on opposing sides rather than framing them as partners working to co-create new knowledge.

Research on group, family and dyadic dynamics46-60 as well as our experience suggests that many learner reactions reflect how they feel treated by us educators and others. Educators can develop the discipline to assume the learners’ behaviour is a rational response to something the educator may have done and then to reframe learners’ reactions/behaviours during the debriefing as information on how to address this threat or breach to psychological safety. Learners rarely have defensive personalities; they may become quiet or respond with defensiveness when they do not feel psychologically safe.

Restoring psychological safety

We now outline several actions debriefers can take once they have identified potential threats to psychological safety. Again, we draw on our collective experience as simulation educators as well as on research on reflective practice.18 61-63 As we see some chronological order in these actions, we will list them as follows:
1. Recognising breaches to psychological safety;
2. Reframing ‘difficult learners’ or ‘defensive behaviour’ as a logical consequence of breaches of psychological safety;
3. Focusing on ‘first-line’ treatments of breaches to psychological safety on changes in educator behaviour (rather than the learners);
4. Using the above explicit and implicit actions while holding the learner in positive regard27 46 to restore psychological safety, including18 64:
   – Conveying positive affect (eg, making eye contact)65;
   – Validating and normalising learner concerns;
   – Apologising to learners when they express frustration about realism and feelings that they were tricked that they feel may have caused them to underperform;
   – If appropriate: name the action, dynamic or circumstance that has triggered the breach. This is an advanced yet powerful move of metacommunication to describe a potentially dysfunctional conversational pattern, highlight its limits and signal a way out,35 53 66 which is illustrated in figure 3; examples are provided in table 2.

Debrief the debriefing

In our view, managing threats to psychological safety is an advanced debriefing skill because it requires reflection both in the heat of the moment as well as post hoc.18 61-63 We have benefited from regularly debriefing the debriefing, especially when we have perceived a debriefing as challenging. It provides the opportunity to explore frames and discuss potential mismatch among intentions and effects.14 18 67 68. In the debriefing of the debriefing, we have found it useful to reflect on our own feeling of psychological safety while working with this learner group and this co-facilitator and on how this might be linked to our ability to convey psychological safety as educators.

CONCLUSION

Research from organisational, psychological, educational and simulation science offers insights into how educators can contribute to establishing, maintaining and regaining psychological safety in debriefings. Psychological safety is a complex, fragile perception influenced by multiple factors interacting on organisational, team and individual level. Some antecedents of
psychological safety may lie outside of the debriefing itself, such as the learner’s personality or their experience in the simulation scenario. Even with respect to simulation-based training, our field needs more research on how to manage threats to psychological safety beyond the prebriefing and debriefing, for example, during the simulation process.

While this paper focuses specifically on debriefing as part of simulation-based training, most of these insights apply to clinical event debriefing in the workplace. Our recommendations should inform faculty development efforts. We encourage debriefers to seek feedback and reflect on their own debriefing—and on their own sense of psychological safety—to become more aware of how they manage psychological safety and identify their contribution to it.18

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