Surgical catastrophe: Offering a lifeline to the second victim

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When an adverse medical event occurs, clinicians need emotional first aid, peer support, and positive coping strategies.

CASE  A surgeon’s story of patient loss

It was a Wednesday morning and Ms. M was my first case of the day. I knew her well, having delivered her 2 children. Now she had a 7-cm complex cyst on her right ovary, she was in pain, and she was possibly experiencing ovarian torsion. My resident took care of the paperwork, I met the patient in preop, answered her few questions, and reassured her husband that I would call him as soon as surgery was over. She was rolled to the operating room.

When I entered the OR, Ms. M was under general anesthesia, draped, and placed on the operating table in the usual position. I made a 5-mm incision at the umbilicus and inserted the trocar under direct visualization. There was blood and the camera became blurry. I removed the camera to clean it, and the anesthesiologist alerted me that there was sudden hypotension. I reinserted the camera and saw blood in the abdomen. I feared the worst—major vessel injury. I requested a scalpel and made a midline skin sub-umbilical incision, entered the peritoneal cavity, and observed blood everywhere. The massive transfusion protocol was activated and vascular surgery was called in. I could not find the source of the bleeding. Using a laparotomy towel I applied pressure on the aorta. The vascular surgeon arrived and pushed my resident away. He identified the source of the bleeding: The right common iliac artery was injured.

The patient coded, the anesthesiologist initiated CPR, bleeding continued, blood was being transfused, and after 20 long minutes of CPR the lifeless body of my patient could not hold any more. She was pronounced dead on the table.

At that moment, there were multiple victims: Ms. M lying on the surgical table; her family members, who did not know what was happening; and the surgical team members, who were looking at each other in denial and feeling that we had failed this patient, hoping that we would wake up from this nightmare.

Defining patient harm

Many patients experience harm each year because of an adverse medical event or preventable medical error. A 2013 report...
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Medical errors vary in terms of the degree of potential or actual damage. A “near miss” is any event that could have resulted in adverse consequences but did not (for example, an incorrect drug or dose ordered but not administered). On the other hand, an “adverse event” describes an error that resulted in some degree of patient harm or suffering.

Deep impact on the clinician
For each patient who dies because of a medical error or a surgical complication, whether preventable or not, many clinicians are involved in the unfolding of the case. These events have a profound impact on well-intentioned, competent, and caring physicians, and they elicit intense emotional responses. When a patient experiences an unexpected adverse surgical outcome, the surgeons involved in their care may become “second victims.” They may feel that they have failed the patient and they second-guess their surgical skills and knowledge base; some express concern about their reputation and perhaps career choice.

Psychological responses. It is important to understand this process to ensure a healthy recovery. Psychological responses to an adverse medical event include guilt; distress, anxiety, and fear; frustration and anger; feelings of insufficiency; and long-standing suffering. Clinicians who experienced an adverse medical event have reported additional psychological as well as physical symptoms in the aftermath of the event (TABLE 1).

Risk factors. Certain factors are associated with a greater emotional impact of an adverse medical event, including:
- severity of the harm or leaving permanent sequelae
- death of a healthy patient or a child (for example, from a motor vehicle accident)
- self-blame for the error
- unexpected patient death (for example, a catastrophic complication after a relatively benign procedure)
- physicians-in-training responsible for the patient
- first death under a clinician’s watch.

While most research in the field of medical error focuses on systems or process improvement, it is important not to neglect the individual and personal aspects of the clinicians involved in the event. The healthcare system must include care for our injured colleagues, the so-called second victims.

Steps in recovery for the second victim
Based on a semistructured interview of 31 physicians involved in adverse events, Scott and colleagues described the following 6 stages of healing:

Chaos and accident response. Immediately after the event, the physician feels a sense of confusion, panic, and denial. How can this be happening to me? The physician is frequently distracted, immersed in self-reflection.

Intrusive reflections. This is a period of self-questioning. Thoughts of the event and different possible scenarios dominate the physician’s mind. What if I had done this or that?

Restoring personal integrity. During

<table>
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<th>TABLE 1 Signs and symptoms that second victims describe experiencing after an adverse medical event</th>
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<td><strong>Physical signs and symptoms</strong></td>
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<tr>
<td>• Extreme fatigue</td>
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<tr>
<td>• Increased blood pressure</td>
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<tr>
<td>• Muscle tension</td>
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<tr>
<td>• Rapid breathing</td>
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<tr>
<td>• Rapid heart rate</td>
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<td>• Sleep disturbances</td>
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revealed that 210,000 to 440,000 deaths occur each year in the United States related to preventable patient harm. Although this fact is deeply disturbing, it is well known that modern health care is a high-risk industry.
At some point in his or her career, almost every physician will be involved in a serious adverse medical event and is at risk of experiencing strong emotional reactions. Health care facilities should have a support system in place to help clinicians cope with these stressful circumstances.

Obtaining emotional first aid. At this stage, the second victim begins to heal, but it is important to obtain external help from a colleague, mentor, counselor, department chair, or loved ones. Many physicians express concerns about not knowing who is a “safe person” to trust in this situation. Often, second victims perceive that their loved ones just do not understand their professional life or should be protected from this situation.

Moving on. There is an urge to move forward with life and simply put the event behind. This is difficult, however. A second victim may follow one of these paths:

- drop out—stop practicing clinical medicine
- survive—maintain the same career but with significant residual emotional burden from the event
- thrive—make something good out of the unfortunate clinical experience.

Institution and peer support programs aid recovery process
Recognizing that peer support can play an important role in the recovery process has led to the development of specific peer support programs. Large academic institutions have created structured support programs to assist physicians involved in cases resulting in adverse outcomes. For example, the Center for Professionalism and Peer Support at Boston’s Brigham and Women’s Hospital was founded in 2008 to provide one-on-one peer support. A similar program, RISE (Resilience In Stressful Events), was created at Johns Hopkins University in Baltimore. In Ohio, the Cleveland Clinic instituted “Code Lavern,” a rapid-response holistic support team for clinicians who are experiencing acute emotional stress.

All these programs offer immediate help to any clinician in psychological distress. They provide confidentiality, and the individual is reassured that he or she can safely use the service without further consequences.

<table>
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<th>TABLE 2 Hallmarks of the peer support team model</th>
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<tr>
<td>• Confidential</td>
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<td>• Credulity of peers</td>
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<td>• Emotional “first aid” (not therapy)</td>
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<tr>
<td>• Facilitated access to the next level of support (eg, employee assistance program)</td>
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<td>• Immediate availability</td>
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<td>• Voluntary access</td>
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The normal human response to an adverse medical event can lead to significant psychological consequences, long-term emotional incapacity, impaired performance of clinical care, and feelings of guilt, fear, isolation, or even suicide. At some point during his or her career, almost every physician will be involved in a serious adverse medical event and is at risk of experiencing strong emotional reactions. Health care facilities should have a support system in place to help clinicians cope with these stressful circumstances.

Use these 5 strategies to facilitate recovery
1. Be determined. No matter how bad you feel about the event, you need to get up and moving.
2. Avoid isolation. Get outside and interact with people. Avoid long periods in isolation. Bring your team together and talk about the event.
3. Sleep well. Most symptoms of

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posttraumatic stress disorder occur at night. If you have trouble falling asleep or you wake up in the middle of the night with nightmares related to the event, attempt to regulate your body’s sleep schedule. Seek professional help if needed.

4. Avoid negative coping habits. Sometimes people turn to alcohol, cigarettes, food, or drugs to cope. Although these strategies may help in the short term, they will do more harm than good over time.

5. Enroll in activities that provide positive distraction. While the mind focuses on the traumatic event (this is normal), you need to get busy with such positive distractions as sports, going to the movies, and engaging in outdoor activities. Do things that you enjoy.

References