# **AORN Position Statement on Managing Disruptions, Distractions, and Noise During Perioperative Patient Care**

# **POSITION STATEMENT**

## AORN believes:

- An interdisciplinary team approach is required to reduce <u>distractions</u> and <u>noise</u> in perioperative settings and create a safer environment for patients and perioperative team members.
- Distractions and noise that do not serve a clinical function should be minimized. For example, music, if played during a procedure, should be limited to a contextually reasonable volume and agreed upon by the entire procedure team beforehand.
- During critical phases of the surgical procedure, surgical team members should create a nointerruption zone during which nonessential conversation, music, and activities are prohibited.
- Interventions to reduce distractions and noise are adaptable to all areas where operative and other
  invasive procedures are performed (eg, traditional ORs, ambulatory surgery centers, interventional
  radiology laboratories, cardiac catheterization laboratories, endoscopy suites), and the actions
  included should be applicable to the specific practice and team members.
- The use of personal electronic devices should be limited to activities involving direct patient care or access to resources relevant to the procedure being performed.

#### **RATIONALE**

The perioperative setting is one of the most complex work environments in health care and is an information-intensive environment in which performance and safety are heavily reliant on accurate and efficient transfer of information. Distractions and noise contribute to the complexity of the care environment and can affect perioperative team communication.<sup>1</sup> The Joint Commission continues to identify failures in communication and teamwork as leading causes for reported sentinel events (eg, wrong site surgery, unintended retained surgical items, delays in treatment, fire or burns).<sup>2</sup> Distractions in the OR have been associated with prolonged procedure duration, increases in mental workload, added stress, impaired team performance, and poor patient outcomes.<sup>1</sup>

The use of personal electronic devices (eg, mobile phones, tablets, laptop computers) has greatly increased and can distract caregivers from focusing on the patient.<sup>3,4</sup> Ring tones and alarms from these devices contribute to distraction.<sup>5</sup> Undisciplined use of personal electronic devices in the OR by any member of the perioperative team may be distracting and may affect patient care.<sup>4,6</sup> Distractions increase the possibility of adverse patient outcomes (eg, incorrect counts<sup>7,8</sup>; wrong procedure, side, or site)<sup>9</sup> by diverting a team member's attention from the current task, which could lead to workflow <u>disruptions</u>,<sup>10</sup> prolonged procedure duration,<sup>11,12</sup> or mental lapses.<sup>13</sup>

Excessive noise in the health care environment can interfere with effective communication among members of the perioperative team and contribute to miscommunication<sup>14,15</sup> that leads to an error.<sup>16</sup>

Recommended limits for noise in hospitals vary. The Environmental Protection Agency (EPA) recommends that the average level of continuous background noise inside hospitals not exceed 45 **decibels** (dB) during a 24-hour day, allowing for periods of exposure to higher levels of noise and others of relative quiet.<sup>17</sup> The World Health Organization (WHO) recommends that sound levels remain as low as possible and not exceed 35 dB in areas where patients are treated or observed, including the OR.<sup>18</sup> The Occupational Safety and Health Administration's legally enforceable permissible exposure limit (PEL) for noise is 90 dBA for all workers for an 8-hour day, and because repeated exposure to excessive noise contributes to hearing loss, a hearing conservation program is required when workers are exposed to a noise level of 85 dBA or higher during an 8-hour day.<sup>19</sup> Studies measuring noise levels during surgery demonstrate high noise levels, with many exceeding the EPA and WHO recommendations.<sup>20-23</sup> Specialties in which powered surgical tools and impact-producing equipment are used (eg, orthopedics, otolaryngology<sup>25,26</sup>) demonstrated higher noise levels than other specialties.

Noise can also distract from and interrupt patient care and potentially increase the risk for error.<sup>27</sup> Noise has been linked to poor task performance<sup>28-30</sup> and poor concentration,<sup>28,31,32</sup> and therefore probably interferes with the ability to perform complex, problem-solving tasks. Working in a noisy environment has been associated with physical and psychological symptoms, including tachycardia,<sup>33</sup> anxiety,<sup>23</sup> and stress<sup>28,34</sup> and can contribute to increased workload levels.<sup>23</sup> Studies have found that increases in noise (eg, conversation during wound closure) are associated with increases in surgical site infection.<sup>35,36</sup> Moreover, a reduction in procedural noise levels has been associated with decreased postoperative complications.<sup>28</sup>

Playing music in procedure rooms can serve as a relaxing and stress-relieving element, but it has the potential to impede communication, negatively affect team performance, and contribute to distractions when inappropriately selected and applied.<sup>37</sup> Research suggests that playing music at a low to medium volume in these settings can enhance both individual and team performance, reduce stress, and minimally impact communication.<sup>28,31,37,38</sup> However, more research is needed to confirm general positive perceptions of music and stress gleaned from survey responses from real-life experiences.<sup>39,40</sup> When considering the use of music during surgical procedures, it is essential to evaluate factors such as the type, genre, and volume of the music; the length of the procedure; the duration of critical phases; and the preferences of the team.<sup>37,38,41</sup> Ongoing assessment of these variables and the music's impact on the procedure and the team is crucial to avoid any potential negative effects.<sup>28,37,38</sup>

Factors contributing to distractions and noise in the perioperative practice setting may include

- patient care activities involving
  - o medical records (eg, charting),42
  - o clinical alarms, 33,43,44
  - o monitors. 15,33 and
  - the use or troubleshooting of medical equipment and devices (eg, instruments or powered surgical devices, radiology equipment, waste management systems, suction devices, smoke evacuators, forced-air warming units)<sup>10,12,15,20,21,33,42,45-49</sup>;
- behavioral activities involving
  - o conversations (eg, teaching, case-relevant, case-irrelevant), 8,15,21,39,42,44,47,50-52
  - o multitasking, 8,15,42,48 and
  - o movement of personnel in and out of the room, 8,10,42,46,48,51
- the mechanical (physical) environment, including
  - o heating, ventilation, and air conditioning systems. 53
  - o acoustic surfaces on floors, walls, and ceilings, 34,54 and
  - o pneumatic tube systems<sup>43</sup>;
- the use or troubleshooting of technology, including
  - o communication devices (eg, mobile phones, telephones). 8,15,39,42,44,51

- personal electronic devices (eg, laptops, tablets, gaming devices, smartwatches), 15,44
- o paging systems (eg, personal pagers, intercoms, overhead paging systems), 13,15,39,47 and
- o computers<sup>44</sup>;
- background music<sup>8,42,52</sup>; and
- administrative responsibilities (eg, managing OR schedules, resource allocation, staffing, providing direct patient care while performing administrative duties).<sup>44</sup>

Identifying critical phases of a surgical procedure may assist surgical team members in minimizing nonessential conversation, noise, and activities. <sup>13,55</sup> Critical phases of the surgical procedure are described as events in an operative or other invasive procedure during which there is a high risk for an adverse occurrence. <sup>55</sup> Examples of critical phases found in the literature include the preoperative briefing, <sup>55</sup> the time out, <sup>55</sup> induction and emergence from anesthesia, <sup>52,55</sup> procedure-specific critical moments (eg, delicate dissection, implant opening), <sup>55</sup> surgical counts, <sup>8,11,55</sup> medication preparation and administration, <sup>56</sup> and specimen management. <sup>55</sup> Perioperative teams can identify critical phases that are specific to their practice, such as patient positioning and hand-off communication. The reduction in activity and noise during critical phases has been referred to as a no-interruption or distraction-free zone, <sup>52,57</sup> sterile cockpit, <sup>58,59</sup> zone of silence, <sup>43</sup> and red zone. <sup>13</sup> Although complete elimination of noise and activity in the OR or procedure room might not be practical or desirable, perioperative team members should prioritize performing their responsibilities during critical phases. Critical phases can occur at different times for different team members.

Because the issue of distractions and noise is one of significance for patient safety, it is also addressed in AORN Guidelines. Recommendations directed at reducing distractions and noise in procedural areas can be found in the AORN Guideline for Team Communication.<sup>5</sup> Recommendations related to clinical and alert alarms can be found in the AORN Guideline for a Safe Environment of Care.<sup>60</sup>

Additional actions that can be taken to minimize disruptions and noise in the procedure room include the following:

- Equipment
  - Keeping music volume level at a minimum and turning it off during critical phases of care<sup>22,38,50,52</sup>
  - Using audio/visual aids to display the environmental noise levels in decibels<sup>22</sup>
- Communication
  - Reducing or eliminating procedure-irrelevant conversations<sup>21,47,50,52</sup>
  - Establishing practices in support of no-interruption zones during critical phases of the procedure<sup>44,52</sup>
- Teaching/education
  - Educating perioperative team members on the effects of disruptions, distractions, and noise<sup>21,22,50,52</sup>
  - Implementing a "safe phrase" (ie, common language that the team agrees to use for course correction without judgment or conflict) to modify distracting noise levels<sup>50</sup>
- Process/procedural
  - Implementing a preoperative briefing or a time-out process that addresses noise<sup>10,21,50</sup>
  - Leveraging point-of-use storage systems to reduce procedure room traffic<sup>10</sup>
  - Limiting movement of personnel and procedure room traffic<sup>50</sup>
  - Developing policies that limit the use of personal communication devices to clinically relevant use only<sup>10,44</sup>
  - Implementing a clinical and alert alarm management plan that includes policies and protocols for alarm safety<sup>44,60</sup>

Operative and invasive procedures are high-risk activities that require vigilance, concentration, and situational awareness. Disruptions, distractions, and noise can contribute to ineffective communication and teamwork that lead to errors that compromise patient safety.<sup>55</sup> Disruptions, distractions, and noise cannot be eliminated completely from the perioperative environment; therefore, AORN is committed to advocating for a controlled environment in which disruptions, distractions, and noise are minimized to the greatest extent possible.

#### **GLOSSARY**

Decibel (dB): A logarithmic unit that measures the intensity of sound.

Disruption: That which interrupts the normal course of a process.

Distraction: That which diverts attention from or prevents concentration on a task.

Interruption: An unplanned or unexpected event that causes a discontinuation of a task or performance.

*Noise*: Any sound that is undesired or interferes with the ability to hear.

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## **ORGANIZATIONAL RESOURCES**

# American Academy of Audiology

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## **PUBLICATION HISTORY**

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