Robotic Surgery Emergency Checklist

**Follow organizational or facility policies and procedures and manufacturer's instructions for use.*

Key Takeaways

- The Surgical robot is a complex tool surgeons use to perform of a variety of minimally invasive procedures.
- Because of the complexity of a robotic procedure, all perioperative team members must be aware of their specific roles.
- Robotic emergencies fall into three general classifications: technical (eg, robot failure), surgical (eg, hemorrhage, and anesthetic (eg, pneumoperitoneum).
- A highly skilled and experienced perioperative team will use robotic critical event checklists to help ensure successful navigation of a robotic emergency.

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Sidebar 1.
Checklist for Conversion from a Robotic to an Open Surgical Procedure

Attending Surgeon ❑ Call for emergent conversion to open procedure ❑ Designated bedside assistant to maintain tamponade	**Bedside Assistant*** ❑ **Maintain tamponade** ❑ **May initiate removal of some robotic instruments at the direction of the attending surgeon**
RN Circulator ❑ Push “code blue” button or call control desk ❑ Turn on overhead OR lights ❑ Open robotics tray ❑ Notify all available service-attending surgeons for additional help	**Attending Surgeon** ❑ Request of undock robot ❑ Proceed to open procedure
Anesthesia Team ❑ Notify or call the attending anesthesiologist ❑ Initiate IV fluid resuscitation and confirm adequacy of IV access ❑ Request blood products and request confirmation when sent	

*Bedside assistant may be a physician assistant, surgical resident, or surgical fellow.

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Sidebar 2.
Checklist for Robotic Vascular Emergency

Attending Surgeon ❑ Announce "Conversion from robotic to open procedure" to team ❑ Designate physician assistant to maintain tamponade	**Bedside Assistant*** ❑ **Maintain tamponade**
RN Circulator ❑ Push code button ❑ Turn on overhead OR lights ❑ Open robotics emergency tray	**Attending Surgeon** ❑ Undock robot ❑ Proceed to open procedure
Anesthesia Team ❑ Call attending anesthesiologist ❑ Initiate IV fluids resuscitation ❑ Confirm adequacy of IV access	**(After hours) RN Circulator** ❑ Call rapid response team for more help
RN Circulator ❑ Activate Checklist 3: Bleeding	

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Sidebar 3.
Checklist for Technical or Robotic Malfunction

Attending Surgeon ❑ Announce “Equipment failure” ❑ Announce “No sudden movement of equipment”	**Robotics Coordinator** ❑ **Designate staff member to** ○ **Push “fault override” button** ○ **Remove instruments under visualization if “fault override” does not resume operation of equipment** ○ **Keep robot docked (camera remains in place)** ○ **Reboot robot (expect approximately 90-second reboot time)**
RN Circulator ❑ Notify robotics coordinator	**Attending Surgeon** ❑ Unlock robot if platform unrecoverable
Attending Surgeon ❑ Confirm patient stability with anesthesia team	

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