

The wolf is crying in the operating room: patient monitor and anesthesia workstation alarming patterns during cardiac surgery.

June 8, 2011

Schmid F, Goepfert MS, Kuhnt D, et al. The wolf is crying in the operating room: patient monitor and anesthesia workstation alarming patterns during cardiac surgery. *Anesth Analg.* 2011;112(1):78-83. doi:10.1213/ANE.0b013e3181fcc504.

<https://psnet.ahrq.gov/issue/wolf-crying-operating-room-patient-monitor-and-anesthesia-workstation-alarming-patterns>

Anesthesia equipment alarms went off approximately once per minute during cardiac surgical procedures; however, 80% of these alarms had no clinical consequences. The difficulty of calibrating alarm systems was discussed in an AHRQ WebM&M [interview](#) with [human factors engineering](#) expert Donald Norman, PhD.