

Medical error

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Hospital medical errors are the third leading cause of preventable deaths in the United States. Furthermore, a joint study conducted by the Mayo Clinic and the American Colleges of Surgeons revealed that 8.9% of surgeons who participated in the study reported that they were likely to have made a major medical error within the three month period preceding the study ¹⁾.

It is therefore imperative that all levels of the perioperative team including frontline nurses, surgeons, anesthesiologists, advanced practice nurses and unlicensed assistive personnel, sustain a practice environment that supports evidence-based care, deliberative collaborative practice, interprofessional teamwork, communication, safety, quality outcomes and patient and staff satisfaction.

Studies of error and [adverse events](#) in medicine have brought a growing awareness of the extent of harm to patients. The psychology of human error strongly suggests that individual liability to error is strongly influenced by the conditions and organisation of the working environment and the nature of the task, in particular the complex and inherently uncertain judgements frequently made in medicine. Research into accidents in medicine and other high risk areas has led to a much broader concept of causation, with less focus on individuals and more on pre-existing organisational factors. These ideas have been adapted to practical use in healthcare in the analysis of adverse events and in working towards developing safer systems of care ²⁾.

The magnitude of medical [errors](#) in neurosurgery and the lack of focused research emphasize the need for prospective categorization of morbidity with judicious attribution. Ultimately, we must raise awareness of the impact of medical errors in neurosurgery, reduce the occurrence of medical errors, and mitigate their detrimental effects ³⁾.

Impact

[Morbidity](#) and [mortality](#) due to preventable medical errors are a disastrous reality in medicine.

Litigation

During the last 2 decades, there has been a shift in the U.S. health care system towards improving the [quality](#) of [health care](#) provided by enhancing [patient safety](#) and reducing medical errors. Unfortunately, surgical [complications](#), patient harm events, and [malpractice](#) claims remain common in the field of neurosurgery. Many of these events are potentially avoidable. There are an increasing number of publications in the medical [literature](#) in which authors address cognitive errors in [diagnosis](#) and [treatment](#) and strategies for reducing such errors, but these are for the most part absent in the neurosurgical literature ⁴⁾.

Types

Surgical error

Preventable medical error

see [Preventable medical error](#).

¹⁾

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²⁾

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³⁾

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⁴⁾

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