

Checklist

- [Magnetic Resonance-Guided Focused Ultrasound Neurosurgery for Treatment-Refractory Obsessive-Compulsive Disorder: A Health Technology Assessment](#)
 - [Utilization and Completeness of World Health Organization Surgical Safety Checklist in a Tertiary Hospital in Nepal](#)
 - [An Appraisal of the Quality of Development and Reporting of Predictive Models in Spine Surgery](#)
 - [Headache as an indication for surgery in non-functioning pituitary adenoma and Rathke's cleft cyst: A systematic review](#)
 - [Endovascular thrombectomy plus intravenous thrombolysis versus endovascular thrombectomy alone for large ischemic stroke](#)
 - [Emotional processing in epilepsy: Investigating alexithymia and its associated factors](#)
 - [Feedback and Assessment Methods in Microsurgery Education: A Scoping Review](#)
 - [From error to prevention of wrong-level spine surgery: a review](#)
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In [2009](#), a major study by the [World Health Organization](#) (WHO) in conjunction with the Harvard School of Public Health was published in The New England Journal of Medicine. This study demonstrated significant improvement in surgical [complications](#) and [mortality](#) with the implementation of a simple [checklist](#) (Table) used preoperatively, perioperatively, and postoperatively ¹⁾.

A large study was published in The New England Journal of Medicine examining the effect of surgical checklist implementation in Ontario, Canada ²⁾.

A checklist in the operating room ensures that everything needed for an operation has been considered in advance. Similarly, we also have checklists for [clinical research](#) to ensure that the people who conducted the clinical research really covered everything needed for a successful study ³⁾.

Morbidity due to avoidable medical errors is a crippling reality intrinsic to Healthcare. In particular, iatrogenic surgical errors lead to significant morbidity, decreased quality of life, and attendant costs. In recent decades there has been an increased focus on Healthcare quality improvement, with a concomitant focus on mitigating avoidable medical errors. The most notable tool developed to this end is the surgical checklist. Checklists have been implemented in various operating rooms internationally, with overwhelmingly positive results. Comparatively, the field of neurosurgery has only minimally addressed the utility of checklists as a Healthcare improvement measure. Literature on the use of checklists in this field has been sparse. Considering the widespread efficacy of this tool in other fields, the authors seek to raise neurosurgical awareness regarding checklists by reviewing the current literature ⁴⁾.

[Patient safety](#) is foundational to neurosurgical [care](#). Post-procedural “debrief” [checklists](#) have been proposed to improve patient safety, but there is limited data about their use in neurosurgery.

Magill et al. implemented an initiative to routinely perform post-operative debriefs and evaluated the impact of debriefing on operating room (OR) safety culture ⁵⁾.

Peer reviewer checklist

[Peer reviewer checklist](#)

Perioperative checklist

see [Perioperative checklist](#).

Surgical safety checklist

see [Surgical safety checklist](#).

Checklist Design

[Delphi method expert panel](#)

1)

Haynes AB, Weiser TG, Berry WR, et al.. A surgical safety checklist to reduce morbidity and mortality in a global population. *N Engl J Med*. 2009;360(5):491-499

2)

Urbach DR, Govindarajan A, Saskin R, et al.. Introduction of surgery safety checklists in Ontario, Canada. *N Engl J Med*. 2014;370(11):1029-1038.

3)

Falavigna A, Blauth M, Kates SL. Critical review of a scientific manuscript: a practical guide for reviewers. *J Neurosurg*. 2018 Jan;128(1):312-321. doi: 10.3171/2017.5.JNS17809. Epub 2017 Oct 20. PubMed PMID: 29053077.

4)

Zuckerman SL, Green CS, Carr KR, Dewan MC, Morone PJ, Mocco J. Neurosurgical checklists: a review. *Neurosurg Focus*. 2012 Nov;33(5):E2. doi: 10.3171/2012.9.FOCUS12257. Review. PubMed PMID: 23116097.

5)

Magill ST, Wang DD, Rutledge WC, Lau D, Berger MS, Sankaran S, Lau CY, Imershein SG. Changing Operating Room Culture: Implementation of a Post-Operative Debrief and Improved Safety Culture. *World Neurosurg*. 2017 Aug 23. pii: S1878-8750(17)31391-8. doi: 10.1016/j.wneu.2017.08.090. [Epub ahead of print] PubMed PMID: 28843757.

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