

In the past decade, [smartphone applications](#) (or 'Apps') have experienced remarkable development across all fields of medicine, including neurosurgery. However, due to a lack of regulatory oversight and peer-review, there is a clear need for comprehensive review and audit of the existing available Apps.

In a study, Bergeron et al., aimed to systematically review existing mobile Apps in neurosurgery, evaluate their clinical use by neurosurgery residents in Canada, and perform a quality audit of the most popular Apps.

Indexed Apps were identified on either Google Play Store or the iOS App Store using a comprehensive list of keywords related to neurosurgery. A subsequent cross-sectional survey of 76 Canadian neurosurgery residents was conducted, including a section on smartphone application use. We then evaluated the most popular Apps among residents using the Healthcare Smartphone App Evaluation Tool (HSAET) and performed a quality audit of their content based on established medical references.

The survey identified 118 mobile Apps related to neurosurgery. The three most used Apps used by the current cohort of Canadian neurosurgery residents were [Neurosurgery Survival Guide](#), [Neuromind](#), and the [Journal of Neurosurgery App](#). Each of these three Apps received an excellent score on the HSAET. A quality audit of 30 pages of the Neurosurgery Survival Guide and 40 clinical scores of the Neuromind App, performed by ten neurosurgery residents, failed to reveal inaccurate or false statements.

This study highlights the current landscape of neurosurgery mobile Apps and their use among neurosurgery residents ¹⁾.

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Bergeron D, Iorio-Morin C, Bigder M, Dakson A, Eagles ME, Elliot CA, Honey M, Kameda-Smith MM, Persad ARL, Touchette C, Tso MK, Fortin D; Canadian Neurosurgery Research Consortium. Mobile Apps in neurosurgery: a systematic review, quality audit and survey of Canadian neurosurgery residents. *World Neurosurg.* 2019 Apr 10. pii: S1878-8750(19)31027-7. doi: 10.1016/j.wneu.2019.04.035. [Epub ahead of print] PubMed PMID: 30980978.

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