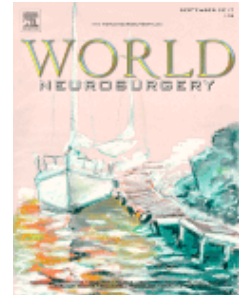




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DESCRIPTION

The journal's mission is to: Create a principal international information conduit for establishing modernity of **neurosurgical** practice for the global community through contemporary and innovative journalistic communication technologies and channels. Serve as a forum for scientific, clinical, educational, social, cultural, economic, and political ideas and issues for **global neurosurgery**. Act as a primary intellectual catalyst for the field. Enhance and move toward complete global communication related to all aspects of current and future neurosurgical practice, research, and progress. Topics to be addressed in *World Neurosurgery* include: education, economics, research, politics, culture, clinical science, laboratory, science, sociology, technology and operative techniques.

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4. Cancer Research UK. Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>; 2003 Accessed 13 March 2003.
Reference to a dataset:
- [dataset] 5. Oguro, M, Imahiro, S, Saito, S, Nakashizuka, T. Mortality data for Japanese oak wilt disease and surrounding forest compositions, Mendeley Data, v1; 2015. <https://doi.org/10.17632/xwj98nb39r.1>.

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