# 100 Most Cited Journal Articles in Hydrocephalus


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## Abstract:

**Introduction:** Hydrocephalus represents a significant burden of disease, with greater than 383,000 new cases annually worldwide. When considering the magnitude of this condition, a centralized archive on pertinent literature is of great clinical utility, and from a neurosurgical standpoint, the impact of hydrocephalus constitutes one of the most frequently treated conditions in the field. The focus of this study was to identify the top 100 journal articles specific to hydrocephalus utilizing bibliometric analysis.

**Methods:** Using the Journal of Citation Report database, ten journals were identified. A search was then performed on the Web of Science Core Collection using each journal name and the search term "hydrocephalus." The results were then ordered by "Times Cited" and searched by the number of citations. The database contained journal articles from 1976-2021, and the following variables were collected for analysis: journal, article type, year of publication, and the number of citations. Journal articles were excluded if they had no relation to hydrocephalus, involved basic science research, or included animal studies.

**Results:** Ten journals were identified, using the above criteria, and a catalog of the 100 most cited publications in hydrocephalus literature was created. Articles were arranged from highest to lowest citation number, with further classification by journal, article type, and publication year. Articles were also distinguished by study type and further stratified by etiology. If etiology was not specified, studies were instead subcategorized by treatment type.

**Conclusion:** Through our analysis of highly cited journal articles focusing on different etiologies, and fields of surgical or medical management of hydrocephalus, we hope to elucidate important trends. By establishing the 100 most cited hydrocephalus articles, we contribute one source, stratified for efficient reference, to aid neurosurgeons' and other potential learners' research in hydrocephalus.

## Biography:



Laurel A Seltzer is a second year medical student at Tulane University School of Medicine (TUSOM) in New Orleans, Louisiana, USA. She completed her undergraduate studies at Tulane University, earning a Bachelor of Science in Public Health and Tropical Medicine. Her research has included studies within the clinical context of neurosurgery at TUSOM, and clinical trials for chemotherapeutic agents for glioblastoma, malignant meningioma, and brain metastasis at Oschner Medical Center. Through Weill Cornell Medical College, she has pursued research in neurosurgical education for medical students. The broad scope of neurotrauma and traumatic brain injury have been additional areas of scientific study and collaboration with her peers at Cornell Medical College, Robert Wood Johnson Medical School, and Rutgers New Jersey Medical School. As an active member of the AANS Research Group Chapter and Program Coordinator at TUSOM, she also engages in joint research with her Tulane colleagues as well as laboratory research in TUSOM's Neurosurgical Department.

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