

**Neurosurgery Clinic Patient Care Database****Moquin, Ross R. , Schmitt, Carrie L., Adams, Andrea, Nguyen, Khoa  
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The neurosurgical community lacks a standardized means by which to compile data, compare outcomes and categorize results from physical examination, patient history, plan of care and surgery. There has been a lack of consistent data reporting of all aspects of neurosurgical care. Clinicians have found data entry to be time consuming and cumbersome. Our goal has been to create a software program where routine clinical data entry is easy and swift. The data obtained is stored as fixed fields that are easily searchable for research purposes. We have created such a tool via a software program, ultimately available to and useful for any practitioner of the neurosciences. Commercial considerations were largely eliminated since the design team is affiliated with the Department of Defense via Walter Reed Army Medical Center. A design team composed of Software Engineers, Neuroscientists, Neurologists, Neurosurgeons, Researchers, Biostatisticians and Epidemiologists was organized to build the database and graphic user interface. Templates including patient clinical history, neurologic and general physical examination, clinic notes, dictations, research results, standardized scales such as the Glasgow Coma Scale, medical and surgical plans, radiology, patient follow-up, surgical information and outcome. Capabilities include direct patient interfacing and updates via hand-held input devices. The application resides on a server of the Walter Reed Army Medical Center Integrated Clinical Database. The product is an integrated interactive web based software program that facilitates virtually every duty of the practicing Neurosurgeon. What we propose to demonstrate by its utilization is the ease with which such a standardized tool can enhance the creation of quality clinical studies in support of evidence based medicine within the Neurosurgical community. The database program has the potential of standardizing the neurosurgical community in data collection.

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