

# Neurosurgery

## Chair

- Matthew A. Howard

**Faculty:** <https://medicine.uiowa.edu/neurosurgery/profile/>

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The Department of Neurosurgery provides an experience oriented toward patient care and basic research concerning diseases and the physiology of the nervous system. Students develop awareness of neurosurgery's role in treating head and spine trauma, vascular disorders, brain and spinal cord tumors, pain and peripheral nerve abnormalities, degenerative spine pathology, and surgical treatment of epilepsy and movement disorders.

Clinical courses are designed around patient-centered discussions interwoven with operating room experiences. Lectures and conferences are scheduled on specific topics.

## Faculty

Neurosurgery faculty strengths are centered in the physiology of spinal cord trauma, epilepsy, auditory brain function and pain, primary brain tumor genetics, central nervous system tissue culture, spinal column biomechanics, and movement disorders. The department has expertise in clinical management across the spectrum of central nervous system diseases.