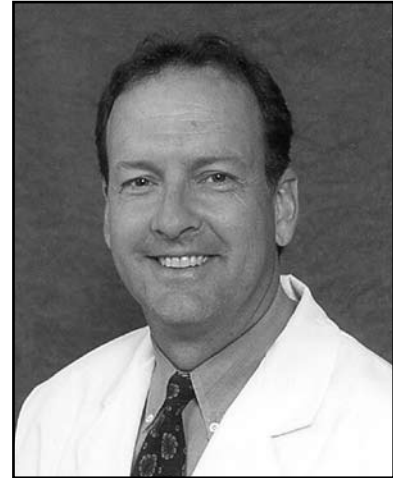


Neurosurgery

The Department of Neurosurgery provides comprehensive surgical management for a spectrum of complex neurological problems. We are committed to providing exceptional, state-of-the-art care, utilizing the latest diagnostic imaging equipment, and employing contemporary and minimally-invasive surgical techniques.



**Department Chair
William T. Couldwell,
M.D., Ph.D.**

SPECIALTIES

- **Epilepsy and Movement Disorders**
- **Hydrocephalus**
- **Neurocritical Care**
- **Neuro-Oncology Surgery**
- **Neurovascular Surgery**
- **Pediatric Neurosurgery**
- **Peripheral Nerve Injury/Disorders**
- **Skull Base Surgery**
- **Spinal Medicine and Interventional Therapy**
- **Spinal Oncology**
- **Spine Surgery**
- **Stereotactic Radiosurgery**
- **Trigeminal Neuralgia and Hemifacial Spasm**

CONTACT INFORMATION

Appointments

(801) 585-7575

Pediatric Appointments

(801) 662-5340

General Information

(801) 581-2897

Department of Neurosurgery

Academic Office

(801) 581-6908

Academic Fax

(801) 581-4385

PATIENT TRANSFER CENTER

1-877-ADMIT-2-U (1-877-236-4828)

Epilepsy and Movement Disorders

(801) 585-7575

Paul A. House, M.D.

Joel D. MacDonald, M.D.

- Deep brain stimulators
- Medically intractable seizure disorders
- Parkinson's disease
- Stereotactic functional surgery
- Stereotactic pallidotomy
- Thalamotomy
- Vagal nerve stimulation for intractable epilepsy

Hydrocephalus

(801) 585-7575

Richard H. Schmidt, M.D., Ph.D.

- Surgical placement of shunt
- Third ventriculostomy

Neurocritical Care

(801) 585-7575

Ronald I. Apfelbaum, M.D.

William T. Couldwell, M.D., Ph.D.

Andrew T. Dailey, M.D.

Daniel W. Fults, III, M.D.

Paul A. House, M.D.

Randy L. Jensen, M.D., Ph.D.

Joel D. MacDonald, M.D.

Meic H. Schmidt, M.D.

Richard H. Schmidt, M.D., Ph.D.

Elaine J. Skalabrin, M.D.

Kenneth S. Yonemura, M.D.

- Acute head and spinal cord injuries
- Cerebral vascular problems
- Coma
- Intracranial pressure problems and infectious diseases
- Tumors

Neuro-Oncology Surgery

(801) 585-7575

William T. Couldwell, M.D., Ph.D.

Daniel W. Fults, III, M.D.

Randy L. Jensen, M.D., Ph.D.

Meic H. Schmidt, M.D.

- Awake cortical mapping
- Brain tumors, primary and metastatic
- Pre-operative MRI and magnetoencephalography
- State-of-the-art intraoperative navigational systems

Neurovascular Surgery

(801) 585-7575

William T. Couldwell, M.D., Ph.D.

Randy L. Jensen, M.D., Ph.D.

Joel D. MacDonald, M.D.

Richard H. Schmidt, M.D., Ph.D.

- Arteriovenous malformation
- Bypass procedures
- Carotid endarterectomy
- Giant aneurysms
- Interventional neuroendovascular capabilities
- Linac radiosurgery
- Occlusive vascular disease
- Subarachnoid hemorrhage

Pediatric Neurosurgery

Primary Children's Medical Center

(801) 662-5340

Fax (801) 662-5370

John R. W. Kestle, M.D., *Division Chief*

Douglas L. Brockmeyer, M.D.

Jay Riva-Cambrin, M.D.

Marion L. Walker, M.D.

- Acute head and spinal injuries
- Brain tumors
- Cerebral palsy derived spasticity
- Cerebral palsy spasticity procedures
- Endoscopic techniques for treating lesions in the cavities of the brain
- Frameless stereotaxy for volumetric resection of brain tumors
- Hydrocephalus
- Neuroendoscopy for cystic intracranial lesions
- Pediatric epilepsy surgery
- Pediatric spine surgery and spinal instrumentation

Peripheral Nerve Injury/ Disorders

(801) 585-7575

Andrew T. Dailey, M.D.
Joel D. MacDonald, M.D.
Kenneth S. Yonemura, M.D.

- Management of peripheral nerve injuries
- Nerve compression
- Neuropathy
- Radiculopathies

Skull Base Surgery

(801) 585-7575

William T. Couldwell, M.D., Ph.D.
Joel D. MacDonald, M.D.
Richard H. Schmidt, M.D., Ph.D.

- Acoustic neuromas
- Adjunct therapy
- Giant aneurysms
- Meningiomas
- Pituitary lesions
- Skull base tumors

Spinal Medicine and Interventional Therapy

(801) 585-7575

Edgar C. Goldston, Jr., M.D.

- Bracing
- Degenerative spine disease
- Diagnostic/therapeutic interventional spinal procedures (selective nerve root blocks, epidural and facet joint injections, sympathetic blocks and discography)
- Electroceutical therapy
- Electrodiagnostic (EMG/NCV) studies
- Facet joint disease
- Failed spine surgery
- Physical and spinal manipulation therapies
- Radiofrequency neural ablation
- Radiographic studies
- Ruptured discs
- Spinal injection therapy
- Spinal stenosis
- Spine pain and associated symptoms
- Spondylolisthesis
- Tailored medication regimens

Spinal Oncology

(801) 585-7575

Andrew T. Dailey, M.D.
Meic H. Schmidt, M.D.
Kenneth S. Yonemura, M.D.

- Complex spinal reconstruction
- Endoscopy
- Kyphoplasty/vertebroplasty
- Metastatic spine disease
- Microsurgery
- Microsurgical techniques
- Minimal invasive spinal surgery
- Neuro-monitoring
- Radiation and chemotherapy
- Spinal cord tumor surgery
- Tumors of the spine and spinal cord

Spine Surgery

(801) 585-7575

Ronald I. Apfelbaum, M.D.
Andrew T. Dailey, M.D.
Joel D. MacDonald, M.D.
Meic H. Schmidt, M.D.
Kenneth S. Yonemura, M.D.

- Degenerative spine disease
- Dorsal column stimulation
- Implantable pumps
- Kyphoplasty and vertebroplasty
- Metastatic spine tumors
- Minimally invasive spinal surgery (MISS)
- Osteoporosis
- Pain and spasticity management
- Ruptured discs
- Spinal cord injuries
- Spinal stenosis
- Spine instrumentation from the cranial cervical fractures to the sacrum
- Spine trauma
- Spondylolisthesis
- Thoraco lumbar and low lumbar spine instrumentation
- Thoracoscopic surgery
- Unstable spine fractures
- Upper cervical spine stabilization

Stereotactic Radiosurgery

(801) 585-7575

Randy L. Jensen, M.D., Ph.D.

Paul A. House, M.D.

- Acoustic neuromas
- Epilepsy
- Facial pain syndromes
- Highly focused radiation therapy using state-of-the-art, computer guided, linear accelerator based radiosurgery
- Malignant gliomas
- Meningiomas
- Metastatic brain tumors
- Pituitary tumors

Trigeminal Neuralgia and Hemifacial Spasm

(801) 585-7575

Paul A. House, M.D.

- Microvascular decompression
- Percutaneous neurolytic procedures



Ronald I. Apfelbaum, M.D.
Adult Neurosurgery



Douglas L. Brockmeyer, M.D.
Pediatric Neurosurgery



William T. Couldwell, M.D., Ph.D.
Adult Neurosurgery



Andrew T. Dailey, M.D.
Adult Neurosurgery



Daniel W. Fults, III, M.D.
Adult Neurosurgery



Edgar C. Goldston, Jr., M.D.
Spinal Medicine



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Adult Neurosurgery



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John R. W. Kestle, M.D.
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Adult Neurosurgery



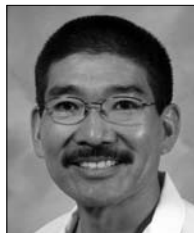
Richard H. Schmidt, M.D., Ph.D.
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Neurocritical Care



Marion L. Walker, M.D.
Pediatric Neurosurgery



Kenneth S. Yonemura, M.D.
Adult Neurosurgery

