

Kerry Elizabeth Brega, M.D.
CURRICULUM VITAE

PERSONAL:

Professional Address: University of Colorado Health Sciences Center
Department of Neurosurgery
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EDUCATION:

1983 Bachelor of Arts, Psychology, University of Colorado, Boulder, Colorado

1989 Doctor of Medicine, University of Colorado Health Sciences Center, Denver, Colorado

POST-GRADUATE TRAINING:

1989 - 1990 Surgical Internship, University of Colorado Health Sciences Center, Denver, Colorado

1990 - 1993 Neurosurgery Residency, University of Colorado Health Sciences Center, Denver, Colorado

1993 - 1995 Neurosurgery Chief Resident, University of Colorado Health Sciences Center, Denver, Colorado

ACADEMIC APPOINTMENTS:

Associate Professor
University of Colorado Health Sciences Center
May 2006 – Present

Visiting Associate Professor
University of Colorado Health Sciences Center
August 2004 - Present

Assistant Professor of Neurosurgery
University of Colorado Health Sciences Center
July 1995 – June 2002

PROFESSIONAL POSITIONS:

Medical Director - Stroke Center
University of Colorado Health Sciences Center
2006 - Present

Deputy Director of Residency
Program in Neurosurgery
University of Colorado Health Sciences Center
2004 – Present

Director of Neurosurgery
Littleton Adventist Hospital
July 2002 – August 2004

Deputy Director of Residency
Program in Neurosurgery
University of Colorado Health Sciences Center
January 2001 – June 2002

Director of Neurosurgery
Denver Health Medical Center
May 1998 – June 2002

HONORS:

1981 - 1985	Dean's List
1982	Psi Chi Honors Society
1989	Alpha Omega Alpha
1991	Golden Apple Teaching Award

MEMBERSHIPS:

American Association Neurological Surgeons
American Medical Association
Colorado Neurosurgery Society
Congress of Neurological Surgeons
Denver Medical Society
Joint Section of Neurotrauma and Critical Care
Neuro Critical Care Society

COMMITTEES:

Member, Professional Conduct Committee, University of Colorado Hospital
Secretary/Treasurer, Colorado Neurosurgical Society
Co-Chair, Ethics Committee, University of Colorado Hospital
Secretary/Treasurer, American College of Spine Surgery
Board of Directors, American Board of Spine Surgery
Board of Directors, Donor Alliance
Reviewer, Journal of Trauma
Ethics Committee Member, Donor Alliance

BOARD CERTIFICATION:

American Board of Spine Surgery, October 1998

American Board of Neurological Surgery, June 2001

Licensed: Colorado, 1994

PRESENTATIONS:

American Association of Neurological Surgeons, April 1989

Poster: Operative treatment of intracranial metastatic melanoma

Western Neurological Surgery Association, June 1989

Surgical treatment of metastatic melanoma of the brain

Neurosurgery in the Rockies, March 1991

Operative treatment of AVMs

Neurosurgery in the Rockies, March 1992

Treatment of cavernous angiomas

Society of University Neurosurgeons, June 1992

Treatment of multiple brain metastases

Neurosurgery in the Rockies, March 1993

Giant intracranial aneurysms

Rocky Mountain Neurosurgical Nursing Association, March 1993

Genetic risk factors in intracranial aneurysms

American Association of Neurological Surgeons, April 1993

Surgical management of metastatic melanoma of the brain

Graland Country Day School Commencement Address, June 1993

Congress of Neurological Surgeons, October 1993

Poster: Genotypic variations in collagen type III in patients with cerebral aneurysms

Neurosurgery in the Rockies, March 1994

Spinal cord injury: Assessment and treatment

American Association of Neurological Surgeons, April 1994

Poster: Association of collagen type III genotypic variation and cerebral aneurysms

ATLS Nursing, April 1996

Head and spinal cord injury

Trauma Symposium, 12th Annual Colorado Trauma Symposium,
Colorado Trauma Institute, July 1996

Futile care: Overview and case presentation

Aurora Fire Department, September 1996

Head injury

Denver Health Medical Center, Ethics Committee, September 1996

Futile care

Paramedic Review Course, November 1996

Kent Denver High School, December 1996
Neuroanatomy

O.R. Nursing Staff, December 1996
Neurotrauma

Continuing Medical Education, Greeley, Colorado, February 1997
Head injury care course

Continuing Medical Education, Loveland, Colorado, February 1997
Head injury care course

Bronco Training Camp, May 1997
Head injury

Rocky Mountain Neurological Association, July 1997
Treatment of blunt carotid injuries with endovascular stents

Colorado Trauma Institute, July 1997
Treatment of head injury with hypothermia
Spinal cord regenerative research

American Association of Neurological Surgery, September 1997
Poster: Blunt carotid injury

Aurora Fire Department and Columbia Trauma Services, October 1997
Spinal cord injury

American Association of Neurological Surgeons, October 1997
Treatment of blunt carotid injury

American Association of Neuroscience Nursing, February 1998
Futile care and law

Multidisciplinary Trauma Conference, Denver Health Medical Center,
February 1998
Early management of head trauma

Northern Colorado Medical Center, February 1998
Diagnosis and management of cervical spine injury

Rocky Mountain Neurosurgical Society, June 1998
Solubility of lead in cerebrospinal fluid

Colorado Trauma Institute, July 1998
Neurosurgery guidelines
Neurosurgery case review panel

Oral Maxillofacial Surgery Residents, July 1998
Neurologic exam

Congress of Neurological Surgery, October 1998
Non-operative management of spinal epidural abscess

Society of Neurological Surgeons, May 1999
Management of head and spine injuries in Colorado

Neurology Residents, University of Colorado Health Sciences Center, June
1999
Head trauma

Donor Alliance, May 1999
Definition and declaration of brain death

American College of Surgeons, October 1999
Maintenance of cerebral perfusion pressure via induced systemic hypertension does not exacerbate cerebral edema in acute brain injury

Neurosurgical Grand Rounds, University of Colorado Health Science Center, January 2000
Carotid and vertebral injury

American Association of Neuroscience Nurses, February 2000
Case presentation

American Association of Neuroscience Nursing, April 2000
Neuroanatomy and neurophysiology

18th Annual Critical Care Symposium, September 2001
Organ and tissue donation: The surgical perspective

Paramedic Trauma Update, October, 2001
Management of traumatic brain and spine injuries

Neurology Grand Rounds, November 2001
Changing the definition of death

Vail Valley Medical Center Regional Journal Club, December 2001
Management of traumatic brain injury and workshop on placement of emergency burr holes.

North Platte Trauma symposium, February 2002
Clearance of cervical spine

ICU Symposium, University of Colorado Health Sciences Center, May 20, 2005
Stroke Team

American Association of Neuroscience Nursing, Denver VAH, May 25, 2005
Acute Ischemic Stroke

Pain Management Symposium, VA Hospital, June 13, 2005
Low Back Pain

Rocky Mountain Neurosurgical Society, Whistler, Canada, June 13, 2005
Unusual CNS/PNS Primary Melanocytic Tumors

Neurosurgery Grand Rounds, July 5, 2005
Epidemiology Cerebrovascular Disease

August 23, 2005 for Internal Medicine
Minimally Invasive Spine Surgery

Advanced Practice Nursing, University of Colorado Health Sciences Center, November 4, 2005
Ischemic and Hemorrhagic Stroke

TEACHING:

Health Care Ethics, School of Medicine, University of Colorado Health Sciences Center, 1999 - 2005

Clinical teaching is a daily activity. There are 3rd and 4th year medical students, interns, and residents on the Neurosurgery service at the University Hospital and Veteran's Hospital at all times. My evaluations from the Neurosurgery residents from the previous academic year are attached. Medical student evaluations are available upon request.

RESEARCH:

Principal Investigator, Pfizer clinical trial of investigational drug for severe brain injury

Ongoing Projects: Lesional phenotype in vascular malformations of the brain.
COMIRB #CO-1054

PUBLICATIONS:

Brega KE, Robinson WA, Winston KR, Wittenberg, W: Surgical treatment of brain metastases in malignant melanoma. *Cancer*, 66, 2105-2109, 1990

Brega KE, Seltzer W, Breeze RE: Genotypic variations of type III collagen in patients with cerebral aneurysms. *Surg Neurol*, 46, 253-257, 1996

Brega KE, Nichols J: Head injuries. *Surgical Secrets*, Third Edition, Hanley and Belfus, 1996

Brega KE, Nichols J: Spinal cord injuries. *Surgical Secrets*, Third Edition, Hanley and Belfus, 1996

Sheno R, Duong T, **Brega KE**, Gaido L: Ossification of the ligamentum flavum causing thoracic myelopathy. *A J Physical Med Rehab*, 76, 68-72, 1997

Duke BJ, **Brega KE**, Moore EE: Posterior circulation cerebral infarcts associated with repair of thoracic aortic disruption using partial left heart bypass. *J Trauma*, 42, 1135-1139, 1997

Duke BJ, **Brega KE**: Traumatic jugular vein thrombosis: Case report and review of the literature. *Neurosurg*, 41, 680-683, 1997

Duke BJ, **Brega KE**, Coldwell DM: Treatment of blunt carotid injuries using endovascular stents: An early experience. *J of Neurosurg*, 87, 825-829, 1997

Ryu RK, Duke BJ, **Brega KE**, Coldwell DM: Percutaneous endoluminal stent placement for traumatic dissection of the internal jugular vein. *J Vasc Interv Radiol*, 8, 359-362, 1997

Prall JA, **Brega KE**, Coldwell DM, Breeze RE: Incidence of unsuspected blunt carotid artery injury. *Neurosurg*, 42, 495-499, 1998

McBride LA, **Brega KE**: Evaluation of intracranial mass lesions. *Hematology/Oncology Secrets*, Second Edition, Hanley & Belfus, 1999

Biffi WL, Moore EE, Offner PJ, **Brega KE**, Franciose RJ, Burch JM: Optimizing screening for blunt cerebrovascular injuries. *Am J Surg*, 178, 517-522, 1999

Biffi WL, Moore EE, Elliott JP, **Brega KE**, Burch JM: Blunt cerebrovascular injuries. *Current Problems in Surgery*, 363, 507-599, 1999

Biffi, WL, Moore EE, Offner PJ, **Brega KE**, Franciose, RJ, Burch JM: Blunt carotid arterial injuries: Implications of a new grading scale. *The J of Trauma*, 47, 845-853, 1999

Wang MC, **Brega KE**, Breeze RE: Maintenance of cerebral perfusion pressure via induced hypertension does not exacerbate cerebral edema in acute brain injury. *Surgical Forum*, Vol L , 516-518, 1999

Biffi, WL, Moore EE, Elliott JP, Ray C, Offner PJ, Franciose RJ, **Brega KE**, Burch, JM: The devastating potential of blunt vertebral arterial injuries. *Annals of Surgery*, 231, 672-681, 2000

Elliott JP, **Brega KE**: Traumatic brain injury. *Surgical Secrets*, Harkin A. (Editor), Hanley and Belfast, 63-66, 2000

Breeze RE and Brega KE: Cervical spine fracture, in Norton LW, Steele G and Eiseman B (eds): *Surgical Decision Making (Second Edition)* Philadelphia: Saunders, 2000, 328-329.

Coldwell DM, Novak Z, Ryu RK, **Brega KE**, Biffi, WL, Franciose RJ, Burch JM, Moore EE: Treatment of posttraumatic internal carotid arterial pseudoaneurysms with endovascular stents. *J of Trauma*, 48, 470-472, 2000

Brega KE, Elliott, JP: Spinal cord injuries. *Surgical Secrets*, Harkin A. (Editor), Hanley and Belfast, 67-69, 2000

Novak V, Coldwell DM, **Brega KE**: Selective infusion of urokinase and thrombectomy in the treatment of cerebral sinus thrombosis. *Am J of Neuroradiol*, 21, 143-145, 2000

Escott EJ, Kleinsmidt-DeMasters BK, **Brega KE**, Lillehei KO: Proximal nerve root spinal hemangioblastomas: Presentation and three cases. MR Appearance and Literature Review. *Surgical Neurology* 63, 3, 262-73, 2004

Best A, Acosta N, Fraser J, Borges M, Brega KE, Anderson T, Neumann R, Bert R: Caveats of Ischemic Penumbra in CT Perfusion: Recognition and Physiological Basis. *American Journal of Neuroradiology*, 2009

Poster Presentations:

Cumblor E, Anderson T, Neumann R, Jones W, Brega K. In-Hospital Stroke Alert Program to Improve Process Quality for Cerebrovascular Accidents Occurring During Hospitalization. Poster Abstract, Society of Hospital Medicine National Meeting. May 16, 2009.