

## Curriculum Vitae

Kara Beasley, DO, MBe

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Business Address: Boulder Neurosurgical & Spine Associates  
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### PROFESSIONAL EXPERIENCE

2011 – Present                      Boulder Neurosurgical & Spine Associates  
Staff Neurosurgeon  
Boulder, Colorado

### Education

Oct 2011-Dec 2011                      **Clinical Scholar: Epilepsy Surgery**  
The Cleveland Clinic Foundation  
*Mentor:* Jorge Gonzalez-Martinez, MD

Oct 2010-Sept 2011                      **Functional Neurosurgery Fellowship**  
The Cleveland Clinic Foundation  
*Mentor:* Andre Machado, MD, PhD

Oct 2010-Dec 2011                      **Neuroethics Special Concentration**  
The Cleveland Clinic Foundation  
*Mentor:* Paul Ford, PhD

June 2009-March 2010                      **Gamma Knife Stereotactic Radiosurgery  
Embedded Fellowship:**  
Cooper University Hospital, Camden, NJ  
*Mentor:* H. Warren Goldman, MD, PhD

June 2005-Sept 2010                      **Neurosurgery Residency**, Philadelphia College of  
Osteopathic Medicine, Philadelphia, PA

Aug 2004-Sep 2004                      **Pediatric Neurosurgery Rotation**  
Phoenix Children's Hospital

July 2004-June 2005                      **Internship**  
Tempe St. Luke's Hospital, Tempe, AZ

Aug 2000-June 2004                      **Arizona College of Osteopathic Medicine**  
*Degree:* D.O. with High Honors (top 10%)

Aug 2000-June 2004                      **Midwestern University**  
*Degree:* Masters of Arts in Bioethics

Aug 1992-June 1996                      **University of North Carolina**  
*Degree:* B.A. Drama and Speech  
B.A. Biology

Licensure: Colorado

**COMLEX:**

Step 1 2003

Step 2 2004

Step 3 2005

**American College of Osteopathic Surgeons Neurosurgery Boards:**

Step 1 2011

**Awards and Honors**

2016	Becker's Spine Review: Top 34 Trailblazing Female Spine Surgeons to Know
2013, 2014	Patients' Choice Award, Vitals, vitals.com
2013	Becker's Spine Review: 29 Women in Spine and Neurosurgery to Know
2013	Patients' Choice <sup>SM</sup> , patientschoice.org: Patient's Choice Award
2011	Brain Matters 2: Early Career Scholars Award
2010	American College of Osteopathic Surgeons Scientific Writing Award
2008	Innovator's Circle Grant: Brain Death Education Project. Abington Memorial Hospital, Abington, PA
2004	Distinguished Student Service Award, Arizona Osteopathic Medical Association
2004	Glasgow-Rubin Achievement Citation, American Medical Women's Association
2001-2004	American Osteopathic Association: Committee on Constitution and Bylaws Member
2000-2004	Board of Trustees Member: Arizona Osteopathic Medical Association
2003-2004	Sigma Sigma Phi: National Osteopathic Honor Society
2000-2002	Arizona Osteopathic Medical Association House of Delegates: Representative
2003	St. Luke's Service League Health Professions Scholarship
2002	Student Osteopathic Medical Association Student Service Scholarship
1994	Alpha Psi Omega: National Theatre Honor Society

**Research Experience**

Aug. 2017 – present	<b>A concurrently Controlled Study of the LimiFlex™ Paraspinous Tension Band in the Treatment of Lumbar of Lumbar Degenerative Spondylolisthesis with Spinal Stenosis.</b> Sponsor: Empirical Spine, Inc. Role: Sub-Investigator
2017 – 2018	<b>Reduction of Adverse Drug Events and Readmissions (RADAX-PGx).</b> Sponsor: Global, Inc. Role: Sub-Investigator
2014 – 2015	<b>A Multicenter, Prospective, Randomized Clinical Trial Using Dehydrated Human Amnion/Chorion Membrane (DHACM) in Decompressive Craniectomy Patients to Reduce Postoperative Scarring</b> <i>Sponsor: MiMedx</i> <i>Role: Sub-Investigator</i>
2013 –2014	<b>Study of the Safety and Effectiveness of DIAM™ Spinal Stabilization System Versus Conservative Care</b> <i>Sponsor: Medtronic Spinal and Biologics</i> <i>Role: Sub-Investigator</i>

2013 – 2017	<p><b>Prospective Randomized Feasibility Study Comparing Manual vs. Automatic Position-Adaptive Spinal Cord Stimulation with Surgical Leads</b>  <i>Sponsor: Medtronic, Inc.</i>  <i>Role: Principal Investigator</i></p>
2013 – 2017	<p><b>The Investigational Plan for the Evaluation of the ACADIA™ Facet Replacement System</b>  <i>Sponsor: Globus Medical, Inc</i>  <i>Role: Sub-Investigator</i></p>
2012 –2014	<p><b>A Phase 3, Randomized, Single-Blind, Controlled Trial of Topical Fibrocaps™ in Intraoperative Surgical Hemostasis</b>  <i>Sponsor: ProFibrix, Inc.</i>  <i>Role: Sub-Investigator</i></p>
2012 – 2016	<p><b>Prospective Randomized Clinical Trial Evaluating the Effectiveness of Lower Body Positive Pressure Treadmill Training in Patients after Lumbar Microdiscectomy and Fusion Surgeries.</b>  <i>Sponsor: Justin Parker Neurological Institute</i>  <i>Role: Sub-Investigator</i></p>
2011 – 2018	<p><b>Prospective Randomized Clinical Trial Comparing PEEK and Allograft Spacers in Patients Undergoing Spinal Intervertebral Fusion Surgeries</b>  <i>Sponsor: Justin Parker Neurological Institute</i>  <i>Role: Sub-Investigator</i></p>
2008 –2009	<p><b>Brain Death Education Project</b>  <i>Preceptor: Steven Barrer, MD</i>  <i>Grants: Abington Innovator’s Circle</i></p>
2009 –2010	<p><b>Intracranial Pressure Monitoring in Traumatic Hemicraniectomy</b>  <i>Preceptor: H.W. Goldman, MD, PhD</i></p>
2010 –2010	<p><b>Biochemical Pathophysiology of Brain Metastasis</b>  <i>Preceptor: Steve Toms, MD, MPH</i></p>
Sept 2010 – present	<p><b>Biparietal Diameter and Laterality in STN Targeting</b>  <i>Preceptor: Milind Deogaonkar MD</i></p> <p><b>Ethics of Awake Craniotomy</b>  <i>Preceptor: Paul Ford PhD, Andre Machado MD,PhD</i></p> <p><b>Outcomes in Spinal Cord Stimulation Among Workman’s Compensation Patients</b>  <i>Preceptor: Andre Machado MD,PhD, Paul Ford PhD</i></p> <p><b>Accuracy of Stealth vs. Brainlab in Stereotactic Functional Targeting for Deep Brain Stimulation</b>  <i>Preceptor: Andre Machado MD,PhD</i></p>

## Publications

1. **Beasley K**, Zakar C, Hobbs S, Kantha V, Burneikiene S. *Prospective Randomized Feasibility Study Comparing Manual vs. Automatic Position-Adaptive Spinal Cord Stimulation with Surgical Leads*. Acta Neurochirurgica – submitted Mar 11, 2019.
2. Rajpal S, Hobbs S, Nelson EL, Villavicencio AT, Zielenski C, **Beasley K**, Kantha V, Mesenbrink J, Burneikiene S. *The Impact of Preventative Multimodal Analgesia on Postoperative Opioid Requirement and Pain Control in Patients Undergoing Lumbar Fusions*. J Neurosurg Spine.
3. Rajpal S, Nelson EL, Villavicencio AT, Telang J, Kantha R, **Beasley K**, Burneikiene S. **Medical Complications and Mortality in Octogenarians Undergoing Elective Spinal Surgeries**. Acta Neurochir (Wien). 2018 Jan; 160(1):11-179.
4. **Beasley K**. *Applying Guidelines to Individual Patients: Deep Brain Stimulation for Early-Stage Parkinson Disease. Commentary 2*. Virtual Mentor. 2015; 17:13-22. <http://virtualmentor.ama-assn.org/2015/01/ecas2-1501.html>. Accessed January 4, 2015.
5. **Beasley KD**, Toms SA. *The molecular pathobiology of metastasis to the brain*. Neurosurg Clin N Am 2011 Jan;22(1):7-14
6. Kirkpatrick JN, **Beasley KD**, Caplan AL. *Death is just not what it used to be*. Cambridge Quarterly of Healthcare Ethics, in Press (2010;19(1)).
7. **Beasley KD**, Deogaonkar MD, Machado A, Nagel S. *Biparietal Diameter and Laterality in STN Targeting*. (In review)
8. *Intracranial Pressure Monitoring in traumatic hemicraniectomy* (In Preparation)
9. *American College of Osteopathic Surgeons Consensus Paper on Determination of Death By Neurologic Criteria* (In review)

## Oral Presentations

- 2019 Beasley K. City of Boulder Senior Center: Back Pain Basics and Treatment Options. Boulder, CO
- 2019 Beasley K. Boulder Community Hospital Community Health Series: Controlling Involuntary Tremors. Boulder, CO
- 2018 Beasley K, Zakar C, Hobbs S, Kantha V, Burneikiene S. Prospective Randomized Feasibility Study Comparing Manual vs. Automatic Position-Adaptive Spinal Cord Stimulation with Surgical Leads. XIII Congress of the ESSFN, Edinburg, Scotland,
- 2018 Beasley K. Deep Brain Stimulation for the Treatment of Epilepsy. 15th Annual Symposium Current Techniques in the Treatment of Cranial and Spinal Disorders. Broomfield, CO
- 2018 SOAR for Active Adults Bethlehem Lutheran Church: Controlling Involuntary Tremors. Lakewood, CO
- 2018 Good Samaritan Medical Center Trauma Grand Rounds: Traumatic Brain Injury Treatment Protocols
- 2017 Boulder Community Hospital Community Health Series: Controlling Involuntary Tremors. Boulder, CO
- 2017 Boulder Community Hospital Community Health Series: Relieving Chronic Back and Leg Pain. Boulder, CO
- 2017 6<sup>th</sup> Annual Nursing Education Meeting: Hot Topics in 2017: Determination of Death by neurological Criteria: An Update. Broomfield, CO
- 2016 5<sup>th</sup> Annual Nursing Education meeting: Hot Topics in 2016: Critical Care Management of C Spine Injuries. Broomfield, CO
- 2016 Boulder Community Hospital Community Health Series: Deep Brain Stimulation(DBS) Therapy for Essential Tremor and Parkinson's Disease. Boulder, CO

- 2015 Current Techniques in the Treatment of Brain and Spinal Disorders: *Deep Brain Stimulation – Exciting New Technology & Outcomes*. Broomfield, CO
- 2013 Current Techniques in the Treatment of Brain and Spinal Disorders: *Case Studies in Neuroethics: Navigating Murky Waters*. Broomfield, CO.
- 2012 Current Techniques in the Treatment of Brain and Spinal Disorders: *Vagal Nerve Stimulation and Other Surgical Options for Epilepsy: Science or Fiction? New Frontiers in Functional Neurosurgery* Broomfield, CO.
- 2011 Current Techniques in the Treatment of Brain and Spinal Disorders: *Surgical Updates on Deep Brain Stimulation Neurosurgical Biomedical Ethics: Case studies from the trenches* Broomfield, CO.
- 2011 American Association of Bioethics and Humanities: *Responsibilities and Obligations in Neurosurgical Decision-Making: Perspectives from Deep Brain Stimulation Specialists*
- 2011 Moderator Brain Matters 2 Conference on Translational Neuroethics
- 2011 American Association of Neurological Surgeons: Breakfast meeting *The Ethics of awake craniotomy*. Denver, CO.
- 2010 American College of Osteopathic Surgeons Scientific Assembly: *Pathobiology of Brain Metastasis*. San Francisco, CA.
- 2010 Geisinger Medical Center Neurosciences Grand Rounds: *Brain Death*. Danville, PA.
- 2009 Cooper Neurologic Institute Grand Rounds: *Brain Death*. Camden, NJ.
- 2008 Philadelphia Regional Neurologic Grand Rounds: *Brain Death*. Abington, PA.
- 2008 Abington Memorial Hospital Grand Rounds: *Brain Death*. Abington, PA.

## Poster Presentations

- 2018 Congress of Neurological Surgeons Annual Meeting, October 6-10, 2018  
**Beasley K**, Zakar C, Hobbs S, Kantha V, Burneikiene S. Prospective Randomized Feasibility Study Comparing Manual vs. Automatic Position-Adaptive Spinal Cord Stimulation with Surgical L
- 2018 American Society for Stereotactic and Functional Neurosurgery June 2-5, 2018  
**Beasley K**, Zakar C, Kantha V, Burneikiene S. *Prospective Randomized Study Comparing Manual vs. Automatic Position-Adaptive Spinal Cord Stimulation with Surgical Leads*.
- 2013 CNS Annual Meeting October 19 – 23, 2013  
 Villavicencio AT, Serxner BJ, Mason A, **Beasley KD**, Nelson EL, Rajpal S, Faes N, Burneikiene S. *Comparative Study of Unilateral and Bilateral Pedicle Screw Fixation in Transforaminal Lumbar Interbody Fusion: Radiological and Clinical Analysis*.
- American Association of Neurological Surgeons 81st Annual Scientific Meeting April 27-May 1, 2013  
 Burneikiene S, Villavicencio AT, Nelson EL, Mason A, Rajpal S, **Beasley K**. *The Duration of Symptoms and Clinical Outcomes in Patients Undergoing Anterior Cervical Discectomy and Fusion (ACDF) for Degenerative Disc Disease and Radiculopathy*.

Annual Meeting of the AANS/ CNS Section on Disorders of the Spine and Peripheral Nerves March 6-9, 2013

Villavicencio AT, Mason A, Serxner B, Nelson EL, Rajpal S, **Beasley KD**, Burneikiene S. *Predictive Value of the Duration of Symptoms in Patients Undergoing Anterior Cervical Discectomy and Fusion (ACDF) for Degenerative Disc Disease and Radiculopathy*

Serxner B, Villavicencio AT, Mason A, Nelson EL, Rajpal S, **Beasley KD**, Burneikiene S. *Transforaminal Lumbar Interbody Fusion (TLIF) with Interspinous Process Fixation Plate as an Adjunct to Unilateral Pedicle Screws: Radiological Outcomes.*

Mason A, Beloy V, Villavicencio AT, Nelson EL, **Beasley K**, Burneikiene S, Rajpal S. *Central cord syndrome with delayed abducens and hypoglossal nerve palsies, a novel triad: Case report, review of proposed mechanisms and relevant literature, Phoenix, AZ.*

2011 Congress of Neurological Surgeons

*Efficacy of Occipital Nerve Stimulation in Occipital Neuralgia*

2008 American College of Osteopathic Surgeons Annual Meeting,  
*Traumatic Cranial Nerve III Palsy, San Francisco, CA*

2008 Cooper University Hospital Annual Resident Research Day,  
*Traumatic Cranial Nerve Palsy*