

TODD CAMERON HANKINSON, MD, MBA

Current Position

Assistant Professor
University of Colorado Denver, Department of Neurosurgery
Children's Hospital Colorado - Neurosurgery
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Education

Middlebury College, Middlebury, VT
Bachelor of Arts, Political Science/Spanish, *cum laude*, 1997

College of Physicians and Surgeons, Columbia University, New York, NY
Doctor of Medicine, 2003

Saïd School of Business, University of Oxford, Oxford, United Kingdom
Masters of Business Administration, 2003

Department of Surgery, New York-Presbyterian Hospital, Columbia Campus, New York, NY
Intern, 2003-2004

Department of Neurosurgery, Neurological Institute of New York
New York-Presbyterian Hospital, Columbia Campus, New York, NY
Resident, 2004-2008; Chief Resident 2008-2009

Division of Pediatric Neurosurgery, Children's Hospital of Alabama, Birmingham, AL
Fellow in Pediatric Neurosurgery, 2009-2010

Academic Appointments

Assistant Professor of Neurosurgery
University of Colorado School of Medicine
Children's Hospital Colorado, August 15, 2010-present

Hospital Positions

Honors and Awards

Council of State Neurosurgical Societies Socioeconomic Fellowship, 2008-2009
Council of State Neurosurgical Societies Resident Award, Congress of Neurological Surgeons, 2007
Hichens Scholarship, Magdalen College, Oxford, UK, 2001-2002
NIH Summer Research Fellowship, 1999
Sigma Delta Pi, Spanish National Honor Society, 1997

Professional Organizations

American Association of Neurological Surgeons, 2004-present
Young Neurosurgeons Committee, 2007-2011
Silent Auction Subcommittee Chairperson, 2009-2010
Congress of Neurological Surgeons, 2004-present
Pediatric Craniocervical Society, 2010-present
American Telemedicine Association, 2010-present
American Medical Association, 2006-2009
Alternate Delegate to Resident and Fellow Section, American Assoc. of
Neurological Surgeons, 2006-2009

Committee and Service Responsibilities

Middlebury College, Community Council, 1996-1997
Columbia University College of Physicians and Surgeons, Curriculum Committee, 1998-2001
New York Presbyterian Hospital – Columbia, Graduate Medical Education Subcommittee, 2006-2007
Children’s Hospital Colorado
 Neurosurgery Telemedicine Pilot Program, 2010-present
 Neurosciences Institute Clinical Research Council, 2010-present
 Neurosciences Institute Quality Committee, 2011-present
 Perioperative Services Operations Team Committee, 2011-present
 Surgical Site Infection Subcommittee, 2011-present
 Co-author, Guidelines for the Treatment of Severe Traumatic Brain Injury, 2011
University of Colorado
 Department of Neurosurgery Finance Audit Committee, 2011-present

Licensure and Board Certification

Colorado – 2010
Montana – 2011

Inventions and Intellectual Property

Review and Referee Work

Editorial Board, *P&S Medical Review*, 1998-2000
Editorial Board, *Clinical Neurosurgery*, 2010-present
Editorial Board, *AANS Neurosurgeon*, 2010-present

Invited Extramural Lectures, Presentations and Visiting Professorships

1. **Hankinson TC.** Geographic Neurosurgery Workforce Analysis 1990-2005: PLI as a Market Factor. Grand Rounds, Department of Neurosurgery, University of Colorado Denver. 1 September, 2009
2. **Hankinson TC,** Anderson RCE, Spinks T, Jea A, Proctor M, Lew S, Rodriguez L, Harter D, Sacco D, Pincus D, Brockmeyer D for the Pediatric Craniocervical Society. *Fusion Rates following Rigid Internal Fixation of the Occiput to C2 are equivalent with or without C1 Instrumentation.* Grand Rounds, Department of Neurosurgery, University of Colorado Denver. 8 February, 2011
3. **Hankinson TC.** *Pediatric Brain and Spine Trauma.* Children’s Hospital Colorado Emergency and Trauma Outreach Symposium, Fort Lewis College, Durango, CO. 5 August, 2011

Teaching Record

Medical Students
Graduate Students
House Officers

1. **Hankinson TC.** *Hydrocephalus and Pediatric CSF Diversion.* Emergency Department Housestaff Conference. The Children’s Hospital of Alabama. 22 October, 2009
2. **Hankinson TC.** *What do Neurosurgeons do.* Department of Radiation Oncology Housestaff Conference. University of Colorado Denver. 26 May, 2011

Nursing

1. **Hankinson TC.** *Tethered Cord, Third Ventriculostomy, and ICP Monitors: 3 Quick Talks.* Neuroscience Population Pathway Education #4. The Children’s Hospital – Colorado, 14 April 2011

Physicians

1. **Hankinson TC.** *The Child with an Abnormally Shaped Head.* Children’s Medical Center, Denver, CO. 22 March, 2011
2. **Hankinson TC.** *Pediatric Spine: a neurosurgical perspective from bottom to top.* Poudre Valley Hospital, Fort Collins, CO. 21 June, 2011

3. **Hankinson TC.** *Pediatric Neurosurgery: Misshapen Heads and Booties.* Peak Pediatrics, Denver, CO. 13 September, 2011

Community

1. **Hankinson TC.** *Pediatric Hydrocephalus and Cerebrospinal Fluid Diversion.* Colorado Hydrocephalus Support Group, 14 October, 2010

Grant Support

1. NIH 5T35HL007616-20, Oz (PI), Columbia University, Efficacy of Left Ventricular Assist Devices as emergent bridge to cardiac transplant in patients without thorough transplant evaluations. 6/1/1999-9/1/1999
2. Childrens Hospital Colorado Research Institute Pilot Award, **Hankinson** (PI) Creation and application of a secure multi-institutional research database for pediatric patients with craniopharyngioma. 1/1/2012-

Bibliography

Peer Reviewed Papers

1. Kuschner WG, **Hankinson TC**, Wong HH, and Blanc PD. *Nonprescription bronchodilator medication use in asthma.* Chest 1997 Oct; 112(4): 987-993
2. Williams M, Casher J, Joshi N, **Hankinson T**, Warren M, Oz M, Naka Y, and Mancini D. *Insertion of a left ventricular assist device in patients without thorough transplant evaluations: a worthwhile risk? J. Thorac. Cardiovasc. Surg.* 2003 126: 436-441
3. **Hankinson TC**, Klimo Jr. P, Feldstein N, Anderson R and Brockmeyer D. *Chiari Malformations, Syringomyelia and Scoliosis.* Neurosurg Clin N Am. 2007 Jul;18(3):549-568
4. **Hankinson TC**, Mocco J, Kimball B, Anderson RCE and NA Feldstein. *Internal Cranial Expansion Procedure for the Treatment of Symptomatic Intracranial Hypertension: Technical Note.* J Neurosurg. 2007 Nov; 107(5): 402-405 (cover)
5. D'ambrosio AD, Mocco J, **Hankinson TC**, van Loveren HR and Bruce JN. *Quantification of the Frontotemporal Orbitozygomatic (FTOZ) Approach Using a Three-dimensional Visualization and Modeling Application.* Neurosurgery 2008 Mar; 62(3 Suppl 1]: 251-260
6. **Hankinson TC**, Bohman L, Heyer G, Licursi M, Ghatan S, Feldstein NA and Anderson RCE. *Surgical Treatment of moyamoya syndrome in Patients with Sickle Cell Anemia: Outcome following encephaloduroarteriosynangiosis.* J Neurosurg Pediatrics. 2008 Mar; 1(3): 211-216
7. **Hankinson TC**, Ogden AT, Canoll P, Garvin JH, Kazim M, Bruce JN, Feldstein NA and Anderson RCE. *Intraorbital and Intracranial Soft Tissue Glomus Tumor in an 8 year old Child: Case Report and Review of the Literature.* J Neurosurg Pediatrics. 2008 May; 1(5): 389-391
8. Syed ON, **Hankinson TC**, Mack WJ, Feldstein NA and Anderson RCE. *Radiolucent Hair Accessories Causing Depressed Skull Fracture Following Blunt Cranial Trauma.* J Neurosurg Pediatrics. 2008 Dec;2(6):424-6
9. **Hankinson TC**, Bohman LS, Vanaman M, Egorova N, Orrico K, Bruce JN and Benzil D. *Geographical Neurosurgery Workforce Analysis from 1990 to 2005 Improves Our Understanding of the Role of Market Factors.* Clin Neurosurg. 2008; 55:145-149

10. Bohman LS, Gallardo J, **Hankinson TC**, Waziri AE, Mandigo CE, McKhann GM^{2nd}, Sisti MB, Canoll P, and Bruce JN. The Survival Impact of Post-operative Infection in Patients with Glioblastoma Multiforme. *Neurosurgery*. 2009 May;64(5):828-34
11. **Hankinson TC**, Vanaman M, Kan P, Laifer-Narin S, DeLaPaz R, Feldstein N and Anderson RCE. *Correlation between Ventriculomegaly on Prenatal Magnetic Resonance Imaging and the Need for Postnatal Ventricular Shunt Placement*. *J Neurosurg Pediatrics*. 2009 May; 3(5): 365-70
12. **Hankinson TC** and Anderson RCE. *Craniovertebral Junction Abnormalities in Down Syndrome*. *Neurosurgery* 2010 Mar; 66 (3 Suppl):32-38
13. **Hankinson TC**, Avellino AM, Harter D, Jea A, Lew S, Pincus D, Proctor M, Rodriguez L, Sacco D, Spinks T, Brockmeyer D and Anderson RCE. *Fusion Rates following Rigid Internal Fixation of the Occiput to C2 are Equivalent with or without C1 Instrumentation*. *J Neurosurg Pediatrics* 5:380-384, 2010
14. **Hankinson TC**, Grunstein E, Gardner P, Spinks TJ and Anderson RCE. *Transnasal Odontoid Resection followed by Posterior Decompression and Occipitocervical Fusion in Children with Chiari I Malformation and Ventral Brainstem Compression*. *J Neurosurg Pediatrics*: 5:549-553, 2010 (cover)
15. Tubbs RS, Griessenauer CJ, **Hankinson T**, Rozzelle CJ, Wellons JC 3rd, Blount JP, Oakes WJ and Cohen-Gadol AA. *Retroclival Epidural Hematomas: A Clinical Series*. *Neurosurgery* 2010 August; 67(2):404-7
16. **Hankinson TC**, Fontana EJ, Anderson RCE and Feldstein NA. *Surgical Treatment of Single Suture Craniosynostosis: An Argument for Quantitative Methods to Evaluate Cosmetic Outcomes*. *J Neurosurg Pediatr*. 2010 Aug;6(2):193-7.
17. Bohman LE, Swanson KR, Moore JL, Rockne R, Mandigo C, **Hankinson T**, Assanah M, Canoll P, Bruce JN. *Magnetic Resonance Imaging Characteristics of Glioblastoma Multiforme: Implications for Understanding Glioma Ontogeny*. *Neurosurgery*. 2010 Nov; 67(5):1319-1328
18. **Hankinson T**, RS Tubbs and Wellons JC 3rd. *Duraplasty or not? An evidence based review of the pediatric Chiari I Malformation*. *Child's Nerv Syst*. 2011 Jan; 27(1):35-40. Epub 2010 Oct 2
19. Tubbs RS, Azih LC, Mortazavi MM, Chern JJ, **Hankinson T**, Oakes WJ and Cohen-Gadol AA. *Transumbilical approach for ventriculoperitoneal shunt placement in infants and small children: a 6 year experience*. *Childs Nerv Syst*. 2012 Feb;28(2):217-9. Epub 2011 Feb 1
20. Tubbs RS, Bradley N, Harmon D, **Hankinson TC**, Kelly DR, and Wellons JC 3rd. *Involvement of the Brachial Plexus and its Branches by Cystic Hygromas*. *J Neurosurg Pediatr*. 2011 Mar;7(3):282-5
21. Mortazavi M, Tubbs RS, **Hankinson TC**, Pugh JA, Cohen-Gadol AA, Oakes WJ. *The first posterior fossa decompression for Chiari malformation: the contributions of Cornelis Joachimus van Houweninge Graftdijk and a review of the infancy of "Chiari decompression"*. *Child's Nerv Syst*. 2011 Nov;27(11):1851-6
22. **Hankinson TC**, Campagna EJ, Foreman NK, Handler MH. *Interpretation of Magnetic Resonance Images in Diffuse Intrinsic Pontine Glioma: A Survey of Pediatric Neurosurgeons*. *J Neurosurg Pediatr*. 2011 July; 8(1):97-102
23. Fusco MR, **Hankinson TC**, Rozzelle CJ. *Combined Occipito-Atlanto-Axial Rotatory Fixation: A Case Report and Review of the Literature*. *J Neurosurg Pediatr*. 2011 Aug;8(2):198-204.

24. Kleinschmidt-DeMasters BK, Birks D, Aisner DL, **Hankinson TC**, Rosenblum MK. *Atypical teratoid/rhabdoid tumor arising in a ganglioglioma: genetic characterization*. *Am J Surg Path*. 2011 Dec; 35(12):1894-1901
25. Pohlman GD, Wilcox DT, **Hankinson TC**. *Erosive Bladder Perforation as a Complication of Ventriculoperitoneal Shunt with Extrusion from the Urethral Meatus: Case Report and Review of the Literature*. *Pediatr Neurosurg*. 2011 Dec 29. [Epub ahead of print]
26. **Hankinson TC**. *An Introduction to Telemedicine in Neurosurgical Practice*. AANS Neurosurgeon. 2012 Feb; 20(1): *accepted for publication*
27. Sufit A, Donson A, Birks D, Knipstein J, Fenton L, **Hankinson TC**, Handler MH and Foreman NK. *Diffuse Intrinsic Pontine Tumors: A Study of Primitive Neuroectodermal Tumors versus the more common Diffuse Intrinsic Pontine Gliomas*. *J Neurosurg Pediatr*. *accepted for publication*

Books and Monographs

Book Chapters & Invited Articles

1. **Hankinson TC**, J O'toole and MG Kaiser. "Multilevel ACDF versus Corpectomy for Cervical Kyphotic Deformity" in Spinal Deformity: A Guide to Surgical Planning and Management. eds. Mummaneni P, Haid R, Lenke L. St. Louis: Quality Medical Publishers. 2008
2. **Hankinson TC**. R. Haque and JN Bruce. Skull Base Tumors. eMedicine from WebMD. Updated February 09, 2010. Available at: <http://emedicine.medscape.com/article/250237-overview>.
3. **Hankinson TC**, RCE Anderson and NA Feldstein. "Myelomeningocele and Myelocystocele" in H. Richard Winn (ed.), Youman's Neurological Surgery. 6th ed., Elsevier, 2011
4. **Hankinson TC**, Tubbs RS, Wellons JC: "Chiari I Malformation in Children". In Paediatric Neurosurgery, Evidence Based Neurosurgery. Ghogawala Z, Krishnaney A, Steinmetz M, Batjer H, Benzel E. (Eds), TFM Publishing, Ltd., *in press*
5. Tubbs R, **Hankinson TC**. Circle of Willis. eMedicine from WebMD. Updated July 21, 2010. Available at: <http://emedicine.medscape.com/article/1877617-overview>.
6. **Hankinson TC**, RS Tubbs and WJ Oakes. "Surgical Decision-making and Treatment Options for Chiari Malformations in Children" in Quinones-Hinojosa A (ed). Schmidek & Sweet Operative Neurosurgical Techniques, 6th ed. Elsevier, *in press*
7. **Hankinson TC**, RS Tubbs and WJ Oakes. "Occult Spinal Dysraphism in Adults" in Quinones-Hinojosa A (ed). Schmidek & Sweet Operative Neurosurgical Techniques, 6th ed. Elsevier, *in press*
8. Tubbs RS, **TC Hankinson** and JC Wellons. "The Chiari Malformations and Syringohydromyelia" in R. Ellenbogen (ed.), Principles of Neurosurgery, 3rd ed., Elsevier, *in press*
9. Ajani O and **TC Hankinson**. "Duraplasty versus Non-dural Opening for the Treatment of Pediatric Chiari Malformation, Type I" in Tubbs RS and Oakes WJ (ed.). The Chiari Malformations. Springer, *in press*

Other

Scientific Abstracts

1. Oratz R, Reynolds SR, Shapiro RL, Harris MN, Roses DF, Johnston D, Jacquotte A, **Hankinson T**, Bystryn J-C. *Phase I/II Clinical Trial of a shed, polyvalent, melanoma vaccine combined with interferon alfa-2b in stage IV melanoma*. Proc Am Soc Clin Onc. 17:2009, 1998
2. Bystryn J-C, Oratz R, Shapiro RL, Harris MN, Roses DF, Zeleniuch-Jacquotte A, Chen DL, Rivas MC, **Hankinson T**. *Double Blind, placebo-controlled trial of a shed, polyvalent, melanoma vaccine in Stage III melanoma*. Proc Am Soc Clin Onc. 18:1673, 1999
3. Williams MR, **Hankinson TC**, Singh D, et. al *What is the impact of an LVAD program on transplant waiting list survival?* Circulation 102 (18): II-819, 2000
4. **Hankinson TC**, Ogden AT, Canoll PD, Garvin JH, Kazim M, Bruce JN, Feldstein NA, RCE Anderson. *Intraorbital Soft Tissue Glomus Tumor in an 8 year old child: Presentation and Management*. Poster Presentation. 35th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery. Denver, Colorado. November 28 - December 1, 2006
5. **Hankinson TC**, Mocco J, Kimball B, Anderson RCE, NA Feldstein. *Internal Cranial Expansion: a technical note*. Oral Presentation. 35th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery. Denver, Colorado. November 28 - December 1, 2006
6. **Hankinson TC**, Bohman LS, Vanaman M, Egorova N, Orrico K, Bruce JN, Benzil D. *Geographical neurosurgery workforce analysis from 1990-2005 improves our understanding of the role of market factors*. Oral Presentation, Annual Meeting of the Congress of Neurological Surgeons. San Diego, California. 15-20 September, 2007
7. **Hankinson TC**, Syed ON, Anderson RCE, Feldstein NA. *Radiolucent Hair Accessories cause Depressed Skull Fracture Following Blunt Cranial Trauma: Report of Two Cases*. Poster Presentation, 36th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery. Miami, Florida. November 27 - December 1, 2007
8. Vanaman M, **Hankinson TC**, Fontana E, Kan P, DelaPaz R, Feldstein N, Anderson RCE. *Are Prenatal MRI Findings associated with the need for postnatal ventricular shunt?* Oral Presentation. 36th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery. Miami, Florida. November 27- December 1, 2007
9. Fontana EJ, Nickel C, **Hankinson TC**, Anderson RCE, Feldstein NA. *Isolated Thoracic Syringomyelia in Children with Chiari I Malformations*. Oral Presentation. 36th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery. Miami, Florida. November 27- December 1, 2007
10. Fontana EJ, Nickel C, **Hankinson TC**, Starke R, Anderson RCE, Feldstein NA. *Outcomes in Chiari Malformation with Isolated or Discontinuous Thoracic Syrinx*. Oral Presentation. 34th Annual Richard Lende Winter Neurosurgery Conference, Snowbird, UT. February 1-6, 2008
11. Anderson RCE, **Hankinson TC**, Spinks T, Jea A, Proctor M, Lew S, Rodriguez L, Harter D, Sacco D, Pincus D, Brockmeyer D for the Pediatric Craniocervical Society. *Fusion Rates following Rigid Internal Fixation of the Occiput to C2 are equivalent with or without C1 Instrumentation*. Oral Presentation. 37th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery. Spokane, Washington. December 2-5, 2008
12. **Hankinson TC**, Balatbat M, Wade J, Starke R, Bhatia M, Lee M, Licursi M, Feldstein N, Anderson RCE. *The Association between Moyamoya Syndrome and Sickle Cell Disease does not correlate with Common Laboratory Values and Transcranial Doppler Ultrasound Results*. Oral Presentation. 37th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery. Spokane, Washington. December 2-5, 2008

13. Harmon D, **Hankinson TC**, Bradley N, Shannon C, Tubbs RS, Wellons JC. *Successful Resection of Cystic Hygromas of the Neck Involving the Brachial Plexus*. Oral Presentation. 38th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Boston, Massachusetts. December 1-4, 2009
14. Anderson RCE, **Hankinson TC**, Grunstein E, Gardner P, Spinks TJ,. *Trasnasal Odontoidectomy followed by Posterior Decompression and Occipitocervical Fusion in Children with Chiari I Malformation and Ventral Brainstem Compression*. Oral Presentation. 38th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Boston, Massachusetts. December 1-4, 2009
15. **Hankinson TC**, Tubbs RS, Griessenauer C, Rozzelle CJ, Wellons JC, Blount J, Cohen-Gadol A, Oakes WJ. *Retroclival Epidural Hematoma: Clinical Characteristics and Diagnostic Technique*. Oral Presentation. 38th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Boston, Massachusetts. December 1-4, 2009
16. **Hankinson TC**, Wade J, Shannon C, Ghatan S, Anderson RCE, Feldstein NA. *Influence of Dural Opening on Scoliosis in Patients with Chiari I Malformation and Syringomyelia*. Oral Presentation. 38th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Boston, Massachusetts. December 1-4, 2009
17. **Hankinson TC**, Tubbs RS, Kotchetkov I, Shannon C, Anderson RCE, Blount J, Oakes WJ, Feldstein NA, Wellons JC. *Initial Surgical Technique for the Treatment of Middle Fossa Arachnoid Cysts: Bi-institutional Comparison of Results and Complications*. Oral Presentation. 38th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Boston, Massachusetts. December 1-4, 2009
18. **Hankinson TC**, Anderson RCE, Spinks T, Jea A, Proctor M, Lew S, Rodriguez L, Harter D, Sacco D, Pincus D, Brockmeyer D for the Pediatric Craniocervical Society. *Fusion Rates following Rigid Internal Fixation of the Occiput to C2 are equivalent with or without C1 Instrumentation*. Oral Presentation. Neurosurgery in the Rockies, Beaver Creek, CO. 28 February, 2011
19. Pohlman G, Wilcox D, **Hankinson TC**. *T. Leon Howard Case Presentation*. Oral Presentation. American Urological Association South Central Section. San Antonio, TX. 14-17 September, 2011