

**DUKE UNIVERSITY MEDICAL CENTER**

**CURRICULUM VITAE**

**For Permanent Record and the  
Appointments, Promotions and Tenure Committee**

Date Prepared: August 23, 2021

**Name (complete with degrees):** Oren Nathan Gottfried, M.D., FAANS, FACS

**Primary academic appointment (department):** Department of Neurosurgery

**Date and rank of first Duke Faculty appointment:** July, 2010; Assistant Professor of Surgery, Track I, September, 2014; Associate Professor of Surgery, Track 1; Professor with Tenure of Neurosurgical Surgery July, 2018

**Current Duke Faculty Appointment:** Professor with Tenure of Neurosurgery and Orthopedic Surgery July, 2018

**Medical licensure:** North Carolina License # 2010-00607

**Date of License (Month/Day/Year):** 04/19/2010

**Specialty certification(s) and dates (Month/Year):** American Board of Neurosurgery Board Certified, May 2013

**Date of birth:** March 25, 1975      **Place (include city/state/country):** Mesa, Arizona/USA  
**Citizen of:** USA

**Visa Status (if applicable):** N/A

<b><u>Education:</u></b>	<b><u>Institution</u></b>	<b><u>Date (Year)</u></b>	<b><u>Degree</u></b>
<b>High School</b>	McClintock High School Tempe, Arizona	1989-1993	Diploma
<b>College</b>	Arizona State University Tempe, Arizona	1993-1997	B.S. (Zoology)
<b>Graduate School</b>	University of Arizona College of Medicine Tucson, Arizona	1997-2001	M.D.

**Scholarly societies:** Phi Beta Kappa (1996); Alpha Omega Alpha (1999)



**Professional training and academic career (chronologically commencing with first postdoctoral position):**

<b><u>Institution</u></b>	<b><u>Position/Title</u></b>	<b><u>Dates</u></b>
University of Utah Salt Lake City, Utah	Resident, Neurosurgery	2001-2007
University of Utah Salt Lake City, Utah	Fellow, Orthopedic Spine Surgery	2007-2008
Johns Hopkins Hospital Baltimore, Maryland	Instructor, Spine Surgery and Neurosurgery	2008-2009
Barrow Neurological Institute Phoenix, Arizona	Fellow, Neurosurgery	2009-2010

**Other Education:**

Harvard T.H. Chan School of Public Health Executive and Continuing Professional Education, Leadership Strategies for Evolving Health Care Executives, October 21–26, 2018

**Publications: (Do not include submitted papers or papers in preparation. List separately those papers in press.)**

**1. Refereed journals: (Refereed journals are scientific publications that have active editorial boards and a system of critical review of all submissions for publication.)**

1. Han PP, **Gottfried ON**, Kenny KJ, Dickman CA. Biportal thoracoscopic sympathectomy: surgical techniques and clinical results for the treatment of hyperhidrosis. *Neurosurgery* 50: 306-311, 2002.
2. **Gottfried ON**, Soleau SW, Couldwell WT. Suprasellar displacement of intracavernous internal carotid artery. *Neurosurgery* 53: 1433-1434, 2003.
3. **Gottfried ON**, Fults DW, Townsend JJ, Couldwell WT. Spontaneous hemorrhage associated with a pilomyxoid astrocytoma. *Journal of Neurosurgery* 99: 416-420, 2003.
4. Liu JK, **Gottfried ON**, Couldwell WT. Surgical management of posterior petrous meningiomas. *Neurosurgical Focus* 14: e7, 2003.
5. **Gottfried ON**, Gluf W, Quinones-Hinojosa A, Kan P, Schmidt MH. Spinal meningiomas: surgical management and outcome. *Neurosurgical Focus* 14: e2, 2003.
6. **Gottfried ON**, Schmidt MH, Stevens EA. Embolization of sacral tumors. *Neurosurgical Focus* 15: e4, 2003.
7. Binning MJ, **Gottfried ON**, Klimo P Jr, Schmidt MH. Minimally invasive treatments for metastatic tumors of the spine. *Neurosurgery Clinics of North America* 15: 459-465, 2004.

8. **Gottfried ON**, Schloesser PE, Schmidt MH, Stevens EA. Embolization of metastatic spinal tumors. *Neurosurgery Clinics of North America* 15: 391-399, 2004.
9. Liu JK, **Gottfried ON**, Cole CD, Dougherty WR, Couldwell WT. Porous polyethylene implant for cranioplasty and skull base reconstruction. *Neurosurgical Focus* 16: ECP1, 2004.
10. Cole CD, **Gottfried ON**, Liu JK, Couldwell WT. Hyponatremia in the neurosurgical patient: diagnosis and management. *Neurosurgical Focus* 16: e9, 2004.
11. **Gottfried ON**, Liu JK, Couldwell WT. Comparison of radiosurgery and conventional surgery for the treatment of glomus jugulare tumors. *Neurosurgical Focus* 17: e4, 2004.
12. **Gottfried ON**, Gluf WM, Schmidt MH. Cavernous hemangioma of the skull presenting with subdural hematoma. *Neurosurgical Focus* 17: ECP1, 2004.
13. Liu JK, **Gottfried ON**, Amini A, Couldwell WT. Aneurysms of the petrous internal carotid artery: anatomy, origins, and treatment. *Neurosurgical Focus* 17: e13, 2004.
14. Schmidt MH, **Gottfried ON**, von Koch CS, Chang SM, McDermott MW. Central neurocytoma: a review. *Journal of Neuro-oncology* 66: 377-384, 2004.
15. Kan P, **Gottfried O**, Blumenthal DT, Townsend JJ, Drozd-Borysiuk E, Brothman AR, Jensen RL. Oligodendroglioma and juvenile pilocytic astrocytoma presenting as synchronous primary brain tumors. Case report with histological and molecular differentiation of the tumors and review of the literature. *Journal of Neuro-oncology* 100: 700-705, 2004.
16. Liu JK, Tenner MS, **Gottfried ON**, Stevens EA, Rosenow JM, Madan N, Couldwell WT. Efficacy of multiple intraarterial papaverine infusions for improvement in cerebral circulation time in patients with recurrent cerebral vasospasm. *Journal of Neurosurgery* 100: 414-421, 2004.
17. **Gottfried ON**, Rao G, Anderson RC, Hedlund G, Brockmeyer DL. Diffusion restriction of a spinal arachnoid cyst. *Journal of Neurosurgery* 102: 439, 2005.
18. **Gottfried ON**, Rovit RL, Popp AJ, Kraus KL, Simon AS, Couldwell WT. Neurosurgical workforce trends in the United States. *Journal of Neurosurgery* 102: 202-208, 2005.
19. **Gottfried ON**, Binning MJ, Couldwell WT. Distal ventriculoperitoneal shunt failure secondary to *Clostridium difficile* colitis. *Acta Neurochirurgica (Wien)* 147: 335-338, 2005.
20. Liu JK, **Gottfried ON**, Couldwell WT. Thrombosed basilar apex aneurysm presenting as a third ventricular mass and hydrocephalus. *Acta Neurochirurgica (Wien)* 147: 413-417, 2005.
21. **Gottfried ON**, Hedlund G, Opitz J, Walker ML. Chiari 1 malformation in patients with FG Syndrome. *Journal of Neurosurgery* 103: 148-155, 2005.
22. Binning MJ, **Gottfried ON**, Osborne AG, Couldwell WT. Rathke cleft cyst intracystic nodule: a characteristic MRI finding. *Journal of Neurosurgery* 103: 837-840, 2005.
23. Browd SR, Ragel BT, **Gottfried ON**, Kestle JR. Failure of cerebrospinal fluid shunts: obstruction and mechanical failure. *Pediatric Neurology* 34: 83-92, 2006.
24. Browd SR, **Gottfried ON**, Ragel BT, Kestle JR. Failure of cerebrospinal fluid shunts: overdrainage, loculation, and abdominal complications. *Pediatric Neurology* 34: 171-176, 2006.
25. **Gottfried ON**, Fults DW, Viskochil D, Couldwell WT. Molecular, genetic, and cellular pathogenesis of neurofibromas and implications. *Neurosurgery* 58: 1-16, 2006.
26. Kan P, **Gottfried O**, Blumenthal DT, Liu JK, Salzman K, Townsend JJ, Jensen RL. Primary spinal yolk sac tumor with brain metastasis. *Journal of Neuro-oncology* 78: 249-253, 2006.

27. Browd SR, Kenney AM, **Gottfried ON**, Yoon JW, Walterhouse D, Pedone CA, Fults DW. N-myc can substitute for IGF signaling in a mouse model of Sonic hedgehog-induced medulloblastoma formation. *Cancer Research* 66: 2666-2672, 2006.
28. Liu JK, Sameshima T, **Gottfried ON**, Couldwell WT, Fukushima T. Combined transmastoid retro- and infralabyrinthine transjugular transcondylar transtuberular high-cervical approach for resection of glomus jugulare tumors. *Neurosurgery* (Suppl 1) 59: 115-125, 2006.
29. Liu JK, **Gottfried ON**, Brockmeyer DL. Epidural venous engorgement resulting in progressive cervical myelopathy from shunt-related intracranial hypotension. *Journal of Neurosurgery* 105: 499–503, 2006.
30. **Gottfried ON**, Davidson C, Chin S, Couldwell WT. Trigeminal amyloidomas. *Skull Base* 17: 317-324, 2007.
31. Cole CD, **Gottfried ON**, Gupta DK, Couldwell WT. Total intravenous anesthesia: advantages for intracranial surgery. *Neurosurgery* 61: 369–378, 2007.
32. **Gottfried ON**, Dailey AT, Schmidt MH. Adjunct and minimally invasive techniques for the diagnosis and treatment of vertebral tumors. *Neurosurgery Clinics of North America* 19: 125-138, 2008.
33. Liu JK, **Gottfried ON**, Salzman KL, Schmidt RH, Couldwell WT. Ruptured intracranial dermoid cyst: clinical, radiographic, and surgical features. *Neurosurgery* 62: 377-384, 2008.
34. **Gottfried ON**, Dailey AT. Mesenchymal stem cell and gene therapies for spine fusion. *Neurosurgery* 63: 380–392, 2008.
35. **Gottfried ON**, Daubs MD, Patel AA, Dailey AT, Brodke DS. Spinopelvic parameters in postfusion flatback deformity patients. *Spine Journal* 9: 639-647, 2009.
36. **Gottfried ON**, Brodke DS. Traumatic burst fracture in a patient with total artificial disc. *Journal of Neurosurgery. Spine* 11: 353-357, 2009.
37. McGirt MJ, Mehta VA, Garces-Ambrossi G, **Gottfried ON**, Gokaslan ZL, Jallo GI. Pediatric tethered cord syndrome: response of scoliosis to untethering procedures. *Journal of Neurosurgery. Pediatrics* 4: 270-274, 2009.
38. Bekelis K, **Gottfried ON**, Wolinsky JP, Gokaslan ZL, Omeis I. Severe dysphagia secondary to posterior cervical instrumentation in a patient with atlantoaxial traumatic injury: case report and review of the literature. *Dysphagia* 25: 156-160, 2010.
39. **Gottfried ON**, Viskochil D, Couldwell WT. Neurofibromatosis type 1 and tumorigenesis: molecular mechanisms and therapeutic implications. *Neurosurgical Focus* 28: e8, 2010.
40. Bekelis K, **Gottfried ON**, Gokaslan ZL, Markopoulos P, Omeis I. A case of refractory salmonella spondylodiscitis in an immunocompetent patient treated via an extracavitary approach, corpectomy and placement of expandable cage. *American Journal of Infectious Diseases* 6: 44-49, 2010.
41. **Gottfried ON**, Parker SL, Omeis I, Bydon A, Gokaslan ZL, Wolinsky JP. Spondylolysis of C-2 in 2 athletically active individuals. *Journal of Neurosurgery. Spine* 13: 17-23, 2010.
42. Mehta VA, **Gottfried ON**, McGirt MJ, Gokaslan ZL, Ahn ES, Jallo GI. Safety and efficacy of concurrent pediatric spinal cord untethering and deformity correction. *Journal of Spinal Disorders and Techniques*. 24: 401-405, 2011.
43. **Gottfried ON**, Omeis I, Mehta VA, Solakoglu C, Gokaslan ZL, Wolinsky JP. Sacral tumor resection and the impact on pelvic incidence. *Journal of Neurosurgery. Spine* 14: 78-84, 2011.

44. Omeis I, Dhir M, Sciubba DM, **Gottfried ON**, McGirt MJ, Attenello FJ, Wolinsky JP, Gokaslan ZL. Postoperative surgical site infections in patients undergoing spinal tumor surgery. *Incidence and risk factors. Spine* 36: 1410-1419, 2011.
45. Mehta VA, Amin A, Omeis I, Gokaslan ZL, **Gottfried ON**. Implications of Spinopelvic Alignment for the spine surgeon. *Neurosurgery* 70: 707-721, 2012.
46. Babu R, Hughes B, Bagley C, **Gottfried ON**. Reversal of lifelong mutism after anterior cervical discectomy and fusion for myelopathy. *BMJ Case Reports*: 2011.
47. Mehta A, Babu R, Karkari I, Owens T, Friedman A, Bagley C, **Gottfried ON**. 2012 Young Investigator Award Winner: The distribution of body mass as a significant risk factor for lumbar spinal fusion postoperative infections. *Spine* 37: 1652-6. 2012.
48. Veeravagu A, Ponnusamy K, Jiang B, Bydon M, McGirt M, **Gottfried ON**, Witham T, Gokaslan Z, Bydon A. Renal Osteodystrophy: Neurosurgical considerations and challenges. *World Neurosurgery* 71: e23-33, 2012.
49. Mehta AI, Mohrhaus CA, Husain AM, Karikari IO, Hughes B, Hodges T, **Gottfried ON**, Bagley CA. Dorsal Column Mapping for Intramedullary Spinal cord tumor resection decreases dorsal column dysfunction. *Journal of Spinal Disorders and Techniques* 25: 205-209, 2012.
50. Hughes B, Wang T, Moreno J, Bagley C, **Gottfried ON**. Drug overdose resulting in quadriplegia: Case report. *European Spine Journal* 21: 521-524, 2012.
51. Karikari IO, Mehta AI, Solakoglu C, Bagley CA, Ain MC, **Gottfried ON**. Sagittal spinopelvic parameters in children with achondroplasia: identification of 2 distinct groups. *Journal of Neurosurgery. Spine* 17: 57-60, 2012.
52. Babu R, Park JG, Mehta AI, Shan T, Grossi PM, Brown CR, Richardson WJ, Isaacs RE, Bagley CA, Kuchibhatla M, **Gottfried ON**. Comparison of superior level facet joint violations during open and percutaneous pedicle screw placement. *Neurosurgery* 71: 962-70, 2012.
53. Mehta AI, Babu R, Sharma R, Karikari I, Grunch B, Owens T, Agarwal V, Sampson J, Lad SP, Friedman AH, Kuchibhatla M, Bagley CA, **Gottfried ON**. Thickness of subcutaneous fat as a risk factor for infection in cervical spine fusion surgery. *Journal of Bone and Joint Surgery* 95(4): 323-328, 2013.
54. Le TC, Grunch BH, Karikari IO, Mehta AI, Owens TR, **Gottfried ON**, Bagley CA. Dorsal thoracic spinal cord herniation: report of an unusual case and review of the literature. *Spine Journal*: 12(10):e9-12, 2012.
55. Lad SP, Umeano OA, Karikari IO, Somasundaram A, Bagley CA, **Gottfried ON**, Isaacs RE, Ugiliweneza B, Patil CG, Huang K, Boakye M. Racial disparities in outcomes after spinal cord injury. *Journal of Neurotrauma*: 30(6):492-7, 2012.
56. Adogwa O, Owens R, Karikari I, Agarwal V, **Gottfried ON**, Bagley CA, Isaacs RE, Cheng JS. Revision lumbar surgery in elderly patients with symptomatic pseudarthrosis, adjacent-segment disease, or same-level recurrent stenosis. Part 2. A cost-effectiveness analysis. *Journal of Neurosurgery. Spine*: 18(2):147-53, 2012.
57. Babu R, Owens T, Karikari I, Moreno J, Cummings T, **Gottfried ON**, Bagley CA. Spinal Cavernous and Capillary Hemangiomas in Adults. *Spine Journal*: 38(7):E423-30, 2012.
58. Lad SP, Bagley JH, Kenney KT, Ugiliweneza B, Kong M, Bagley CA, **Gottfried ON**, Isaacs RE, Patil CG, Boakye M. Racial disparities in outcomes of spinal surgery for lumbar stenosis. *Spine*: 38(11): 927-35, 2012.

59. Caputo A, **Gottfried ON**, Nimjee SM, Brown CR, Michael K, Richardson W. Spinal epidural hematoma following epidural steroid injection in a patient treated with dabigatran: A case report. *Journal of Bone and Joint Surgery*: 3(2):e64 1-4, 2013.
60. Lad SP, Bagley JH, Karikari IO, Babu R, Ugiliweneza B, Kong M, Isaacs RE, Bagley CA, **Gottfried ON**, Patil CG, Boakye M. Cancer after Spinal Fusion: The Role of Bone Morphogenetic Protein (BMP). *Neurosurgery*: 73(3):440-9, 2013.
61. Babu R; **Gottfried ON**; Stevenson JC. Outcomes and Complications Following Spinous Process Fixation: A Single-center Analysis of 192 Cases. *Surgical Technology International: XXIII*. 283-90, 2013.
62. Lad SP, Babu R, Baker AA, Ugiliweneza B, Kong M, Bagley CA, **Gottfried ON**, Isaacs RE, Patil CG, Boakye M. Complications, reoperation rates, and health-care cost following surgical treatment of lumbar spondylolisthesis. *J Bone Joint Surg Am*: 95(21): e1621-10, 2013
63. Karikari I, Owens R, Nimjee S, **Gottfried ON**, Bagley CA. Impact of subsidence on clinical outcomes and radiographic fusion rates in anterior cervical discectomy and fusion: A systematic review. *J Spinal Disord Tech*: 27(1): 1-10, 2014.
64. Babu R, Karikari I, Cummings T, **Gottfried ON**, Bagley CA. Treatment and outcomes of epithelioid sarcoma of the spine. *Journal of Clinical Neuroscience*: 20(10): 1342-5, 2013.
65. Martin JR, Adogwa O, Brown CR, Richardson WJ, Kuchibhatla M, Bagley CA, Lad SP, **Gottfried ON**. Experience with intrawound vancomycin powder for spinal deformity surgery. *Spine*: 39(2): 177-84, 2014.
66. Mehta AI, Babu R, Bagley CA, Grossi PM, **Gottfried ON**. Initial Experience with Extreme Angle Cervical Screw for Treatment of Trauma and Cervical Spondylosis. *Surg Technol Int: XXIV*: 371-75, 2014.
67. Adogwa O, Huang M, Thompson P, Darlington T, Cheng J, Gokaslan Z, **Gottfried ON**, Bagley CA, Anderson G, Isaacs R. No difference in postoperative complications, pain and functional outcomes up to 2 years after incidental durotomy in lumbar spinal fusion: A prospective, multi-institutional, propensity matched analysis of 1,741 patients. *Spine J*: 14(9): 1828-34, 2013.
68. Huang KT, Adogwa O, Babu R, Lad SP, Bagley CA, Gottfried ON. Radiologic evidence of spontaneous spinal arthrodesis in patients with lower lumbar spondylolisthesis. *Spine*: 39(8): 656-63, 2014.
69. Adogwa O, Fatemi P, Perez E, Moreno J, Gazcon GC, Gokaslan ZL, Cheng J, **Gottfried O**, Bagley CA. Negative pressure wound therapy reduces incidence of post-operative wound infection and dehiscence after long-segment thoracolumbar spinal fusion: a single institutional experience. *Spine J*: 2014.
70. Adogwa O, Carr K, Fatemi P, Verla T, Gazcon G, **Gottfried O**, Bagley C, Cheng J. Psychosocial Factors and Surgical Outcomes: Are Elderly Depressed Patients Less Satisfied with Surgery. *Spine*: 39(19): 1614-9, 2014
71. Adogwa O, Martin JR, Huang K, Verla T, Fatemi P, Thompson P, Cheng J, Kuchibhatla M, Lad SP, Bagley CA, **Gottfried ON**. Preoperative Serum Albumin Level as a Predictor of Postoperative Complication after Spine Fusion. *Spine*: 39(18): 1513-9, 2014.
72. Babu R, Thomas S, Hazzard MA, Lokhnygina YV, Friedman AH, **Gottfried ON**, Isaacs RE, Boakye M, Patil CG, Bagley CA, Haglund MM, Lad SP. Morbidity, mortality, and health care costs for patients undergoing spine surgery following the ACGME resident duty-hour reform. *J Neurosurg Spine*: 21(4): 502-15, 2014.

73. Verla T, Adogwa O, Fatemi P, Martin JR, **Gottfried ON**, Cheng J, Isaacs RE. Clinical implication of complications on patient perceived health status following spinal fusion surgery. *J Clin Neurosci*: 22(2): 342-5, 2014.
74. Martin JR, Adogwa O, Brown CR, Kuchibhatla M, Bagley CA, Lad SP, **Gottfried ON**. Experience with intrawound vancomycin powder for posterior cervical fusion surgery. *J Neurosurg Spine*: 22(1): 26-33, 2015.
75. Adogwa O, Carr K, Thompson P, Hoang K, Darlington T, Perez E, Fatemi P, **Gottfried O**, Cheng J, Isaacs RE. A Prospective, Multi-Institutional Comparative Effectiveness Study of Lumbar Spine Surgery in Morbidly Obese Patients: Does Minimally Invasive TLIF Result in Superior Outcomes. *World Neurosurg*: 2014.
76. Huang KT, Hazzard M, Thomas S, Chagoya G, Berg RW, Adogwa O, Bagley CA, Isaacs R, **Gottfried ON**, Lad SP. Differences in the outcomes of anterior versus posterior interbody fusion surgery of the lumbar spine: A propensity score-controlled cohort analysis of 10,941 patients. *J Clin Neurosci*: 22(5): 848-53, 2015.
77. Mehta VA, Amin A, Omeis I, Gokaslan ZL, **Gottfried ON**. Implications of spinopelvic alignment for the spine surgeon. *Neurosurgery*: 76 Suppl 1: S42-56, 2015.
78. Loriaux DB, Adogwa O, **Gottfried ON**. Radiculopathy in the setting of lumbar nerve root compression due to an extradural intraforaminal lipoma: a report of 3 cases. *J Neurosurg Spine*: 23(1): 55-58, 2015
79. Wang TY, Sakamoto JT, Nayar G, Suresh V, Loriaux DB, Desai R, Martin JR, Adogwa O, Moreno J, Bagley CA, Karikari IO, **Gottfried ON**. Independent predictors of 30-day Perioperative deep vein thrombosis in 1346 consecutive spine surgery patients. *World Neurosurg*: 84(6): 1605-12, 2015.
80. Desai R, Nayar G, Suresh V, Wang TY, Loriaux D, Martin JR, **Gottfried ON**. Independent predictors of mortality following spine surgery. *Journal of clinical neuroscience*: 100-5, 2016.
81. Wang TY, Martin JR, Loriaux D, Desai R, Shammam RL, Adogwa O, **Gottfried ON**. Risk Assessment and Characterization of 30-Day Perioperative Myocardial Infarction Following Spine Surgery: A Retrospective Analysis of 1346 Consecutive Adult Patients. *Spine*: 41(5): 438-44, 2016.
82. Elsamadicy AA, Wang TY, Back AG, Sergesketter A, Warwick H, Karikari IO, **Gottfried ON**. Impact of Intra-Operative Steroids On Post-Operative Infection Rates and Length of Hospital Stay: A Study of 1200 Spine Surgery Patients. *World Neurosurg*: 2016.
83. Elsamadicy AA, Wang TY, Back AG, Lydon E, Reddy GB, Karikari IO, **Gottfried ON**. Post-operative delirium is an independent predictor of 30-day hospital readmission after spine surgery in the elderly ( $\geq 65$  years old): A study of 453 consecutive elderly spine surgery patients. *J Clin Neurosci*. 41:128-131, 2017.
84. Wang TY, Back AG, Hompe E, Wall K, **Gottfried ON**. Impact of surgical site infection and surgical debridement on lumbar arthrodesis: A single-institution analysis of incidence and risk factors. *J Clin Neurosci*: 39:164-9, 2017.
85. Sergesketter A, Elsamadicy AA, **Gottfried ON**. Impact of Obesity on Complications and 30-Day Readmission Rates After Cranial Surgery: A Single-Institutional Study of 224 Consecutive Craniotomy/Craniectomy Procedures. *World Neurosurg*: 2017.
86. Elsamadicy AA, Wang TY, Back AG, Sergesketter A, Warwick H, Karikari IO, **Gottfried ON**. Impact of Intraoperative Steroids on Postoperative Infection Rates and Length of Hospital Stay: A Study of 1200 Spine Surgery Patients. *World Neurosurg*.: 429-433, 2017.



87. Nayar G, Elsamadicy AA, Zakare-Fagbamila R, Farquhar J, **Gottfried ON**. Impact of Affective Disorders on Recovery of Baseline Function in Patients Undergoing Spinal Surgery: A Single Institution Study of 275 Patients. *World Neurosurg*: 69-73, 2017.
88. Elsamadicy AA, Adogwa O, Lydon E, Reddy G, Kaakati R, Sergesketter A, **Gottfried ON**, Karikari IO. Impact of Intraoperative Monitoring During Elective Complex Spinal Fusions ( $\geq 4$  Levels) on 30-Day Complication and Readmission Rates: A Single Institutional Study of 643 Adult Spinal Deformity Patients. *World Neurosurg*. S1878-8750, 2017.
89. Elsamadicy AA, Reddy GB, Nayar G, Sergesketter A, Zakare-Fagbamila R, Karikari IO, **Gottfried ON**. Impact of Gender Disparities on Short-Term and Long-Term Patient Reported Outcomes and Satisfaction Measures After Elective Lumbar Spine Surgery: A Single Institutional Study of 384 Patients. *World Neurosurg*. S1878-8750(17)31182-8, 2017.
90. Martin JR, Wang TY, Loriaux D, Desai R, Kuchibhatla M, Karikari IO, Bagley CA, **Gottfried ON**. Race as a predictor of postoperative hospital readmission after spine surgery. *J Clin Neurosci*. S0967-5868(17)30929-3, 2017.
91. Elsamadicy AA, Sergesketter A, Adogwa O, Ongele M, **Gottfried ON**. Complications and 30-Day readmission rates after craniotomy/craniectomy: A single Institutional study of 243 consecutive patients. *J Clin Neurosci*. 47:178-182, 2017.
92. Elsamadicy, AA; Sergesketter, A; Sampson, JH; **Gottfried, ON**. Institutional Review of Mortality in 5434 Consecutive Neurosurgery Patients: Are We Improving? *Neurosurgery*. 1;83(6):1269-1276, 2017
93. Elsamadicy AA, Kemeny H, Adogwa O, Sankey EW, Goodwin CR, Yarbrough CK, Lad SP, Karikari IO, **Gottfried ON**. Influence of racial disparities on patient-reported satisfaction and short- and long-term perception of health status after elective lumbar spine surgery. *Neurosurg Spine*. 29(1):40-45, 2018
94. Zakare-Fagbamila RT, Howell E, Choi AY, Cheng TZ, Clement M, Neely M, **Gottfried ON**. Clinic Satisfaction Tool Improves Communication and Provides Real-Time Feedback. *Neurosurgery*. 84(4):908-918, 2018
95. Elsamadicy AA, Ren X, Kemeny H, Charalambous L, Sergesketter AR, Rahimpour S, Williamson T, Goodwin CR, Abd-El-Barr MM, **Gottfried ON**, Xie J, Lad SP. Independent Associations With 30- and 90-Day Unplanned Readmissions After Elective Lumbar Spine Surgery: A National Trend Analysis of 144 123 Patients. *Neurosurgery*. 84(3):758-767, 2018
96. Zakare-Fagbamila RT, Seyferth E, Cheng TZ, Clement M, Stroup B, **Gottfried ON**. Chief complaints and feedback from Clinic Satisfaction Tool: thematic analysis of a new outpatient communication tool. *Int J Clin Pract*. 2019
97. Galan D, Monuszko K, Sankey EW, Zakare-Fagbamila R, Yang Z, Niedzwiecki D, **Gottfried O**, Bagley CA, Krucoff MO. Fibrin glue as an adjuvant dural sealant reduces the rate of perioperative complications in posterior fossa decompression with duraplasty: A single center experience in 165 adult Chiari I patients. *J Clin Neurosci*. 2019 Oct;68:80-85. doi: 10.1016/j.jocn.2019.07.036. Epub 2019 Jul 18
98. Elsamadicy AA, **Gottfried ON**. In Reply: Institutional Review of Mortality in 5434 Consecutive Neurosurgery Patients: Are We Improving? *Neurosurgery*. 2019 Jul 1;85(1):E164. doi: 10.1093/neuros/nyz110.
99. Zakare-Fagbamila RT, Park C, Dickson W, Cheng TZ, **Gottfried ON**. The true penalty of the waiting room: the role of wait time in patient satisfaction in a busy spine practice. *J Neurosurg Spine*. 2020 Feb 21:1-11

100. Park C, Zakare-Fagbamila RT, Dickson W, Garcia AN, **Gottfried ON**. The limited influence of neurosurgeons' behavior on inpatient satisfaction: a retrospective multihospital analysis. *J Neurosurg*. 2020 Jul 31
101. Park C, Garcia AN, Cook C, Shaffrey CI, **Gottfried ON**. Long-term impact of obesity on patient-reported outcomes and patient satisfaction after lumbar spine surgery: an observational study. *J Neurosurg Spine*. 2020 Sep 25:1-10.
102. Park C, Zakare-Fagbamila RT, Dickson W, Amin K, Giuliano J, Jimenez-Contreras F, **Gottfried ON**. Institutional review of predictors of in-hospital and 30-day discharge mortality in neurosurgical patients. *Clin Neurol Neurosurg*. 2020 Sep 10
103. Cook CE, Garcia AN, Wright A, Shaffrey C, **Gottfried O**. Measurement Properties of the Oswestry Disability Index in Recipients of Lumbar Spine Surgery. *Spine (Phila Pa 1976)*. 2020 Oct.
104. Wang TY, Price M, Mehta VA, Bergin SM, Sankey EW, Foster N, Erickson M, Gupta DK, **Gottfried ON**, Karikari IO, Than KD, Goodwin CR, Shaffrey CI, Abd-El-Barr MM. Preoperative optimization for patients undergoing elective spine surgery. *Clin Neurol Neurosurg*. 2021
105. Rethorn ZD, Garcia AN, Cook CE, **Gottfried ON**. Quantifying the collective influence of social determinants of health using conditional and cluster modeling. *PLoS One*. 2020
106. Park C, Garcia AN, Cook C, **Gottfried ON**. Effect of change in preoperative depression/anxiety on patient outcomes following lumbar spine surgery. *Clin Neurol Neurosurg*. 2020
107. Park C, Cook CE, Garcia AN, **Gottfried ON**. Discharge destination influences risks of readmission and complications after lumbar spine surgery in severely disabled patients. *Clin Neurol Neurosurg*. 2021
108. Park C, Garcia AN, Cook C, Shaffrey CI, **Gottfried ON**. Long-term impact of obesity on patient-reported outcomes and patient satisfaction after lumbar spine surgery: an observational study. *J Neurosurg Spine*. 2020
109. Cook CE, Garcia AN, Park C, **Gottfried O**. True Differences in Poor Outcome Risks Between Revision and Primary Lumbar Spine Surgeries. *HSS J*. 2021
110. Garcia AN, Cook CE, **Gottfried O**. Psychological, mobility, and satisfaction variables mediate the relationship between baseline back pain intensity and long-term outcomes in individuals who underwent lumbar spine surgery. *Musculoskelet Sci Pract*. 2021
111. Cook CE, Garcia AN, Shaffrey C, **Gottfried O**. The Influence of Unemployment and Disability Status on Clinical Outcomes in Patients Receiving Surgery for Low Back-Related Disorders: An Observational Study. *Spine Surg Relat Res*. 2020

## 2. Non-refereed publications:

1. Couldwell WT, **Gottfried ON**, Weiss MH, Popp AJ. Too many? Too few. *AANS Bulletin* (Cover article), 12(4):7-9, 2003.
2. **Gottfried ON**, Schmidt MH. Management of spinal meningiomas. *Contemp Neurosurg*, 25(6):1-4, 2003.
3. **Gottfried ON**, Binning MJ, Schmidt MH. Surgical approaches to spinal schwannomas. *Contemp Neurosurg*, 27(4):1-8, Feb 2005.

4. Patel AA, Daubs M, Brodke DS, Jensen W, **Gottfried ON**. Gait problems and neuromuscular abnormalities in an elderly patient. *Fed Pract*, 26:13-15, Feb 2009.
5. **Gottfried ON**. Use of an Extreme Angle Screw to Reduce Spinal Deformities: Surgical Technique. *Orthopedics Today*, Aug 2011.
6. Amburgy JW, Grunch BH, **Gottfried ON**, Bagley C, Friedman A. Traumatic traverse process fractures: A clinical overview. *Contemporary Neurosurgery*, 34(13):1-5, Jun 2012.
7. **Gottfried, ON**. Medicine is an imperfect science. *Duke Magazine*, 101(3): 28-9, 2015.
8. Kalra, RR, **Gottfried ON**, Schmidt MH. Spinal schwannomas: An Updated Review of Surgical Approaches. *Contemporary Neurosurg*, 37(15):1-8, July 2015.

### 3. Major invited lectures (since November 1992)

1. Babu R, Mehta AI, Brown CR, Isaacs RE, Bagley CA, **Gottfried ON**. Comparison of Superior Level Facet Joint Violations During Open and Percutaneous Pedicle Screw Placement. Presented at the 2012 North American Spine Society Annual Meeting. Dallas, TX, Oct 25, 2012.
2. **Gottfried ON**. Trends in Treatment of Thoracolumbar Trauma. Spine Surgeon Symposium. Miami, Florida, October 3, 2014.
3. **Gottfried ON**. Trends in Autograft use for Spinal Fusion. Spine Surgeon Symposium. New York, New York, December 13, 2014.
4. **Gottfried ON**. Comparison of Outcomes for Open VS. Minimally Invasive Treatment of Adult Spinal Deformity. Spine Surgeon Symposium. Chicago, Illinois, June 7, 2015.
5. **Gottfried ON**. Complex Spine Decision Making. Spine Surgeon Symposium. New York, New York, December 12, 2015.
6. **Gottfried ON**, Elsamadicy A, Sampson JH. Institutional Review of Mortality and Documentation in 4,429 Consecutive Neurosurgery Patients: Are We Improving? Neurosafe 2016: Time Out to Reflect on Quality and Safety in Neurosurgery. Minnesota, July 15, 2016.
7. Martin J, Wang TY, Loriaux DB, Desai R, Adogwa O, Kuchibhatla M, Karikari IO, Bagley CA, **Gottfried ON**. Race as a Predictor of Postoperative Hospital Readmission After Spine Surgery. Congress of Neurological Surgeons Annual Meeting. 2016
8. Elsamadicy AA, Wang TY, Karikari IO, **Gottfried ON**. Impact of Intraoperative Steroids on Postoperative Infection Rates and Length of Hospital Stay: A Study of 1200 Spine Surgery Patients. Congress of Neurological Surgeons Annual Meeting. 2016
9. **Gottfried, ON**. A Single Clinic Intervention to Facilitate Patient Communication, Improve Visit Satisfaction, and Provide Real-time Feedback. Neurosafe 2017 Symposium Keynote Speaker, July 21, 2017
10. Elsamadicy AA, Sergesketter A, Sampson JH, **Gottfried ON**. Single Institutional Review of Mortality- Related Documentation of 5,434 Consecutive Neurosurgery Patients: Are We Improving? Congress of Neurological Surgeons (CNS) Annual Meeting 2017
11. **Gottfried, ON**. The Balancing Act: How Do We Maximize Patient Satisfaction While Delivering High-quality Neurosurgical Care?. Neurosafe 2018 Symposium Keynote Speaker, August 2, 2018
12. **Gottfried, ON**. Patient Survival Improvement Approach. PDC Quality Retreat, January 31, 2019
13. **Gottfried, ON**. Delivering Highest Quality Neurosurgical Care While Maximizing the Patient Experience. Brain and Spine Summit in Charlotte, May 17, 2019

14. **Gottfried, ON.** Institutional Review of In-Hospital and 30-Day Mortality in 13,826 Consecutive Neurosurgical Patients. Neurosafe 2019 Symposium Keynote Speaker, August 8, 2019.
15. **Gottfried, ON.** Make it Meaningful: Creating a Quality Dashboard Platform for Measurable Improvements. 2019 Vizient Connections Education Summit, September 2019
16. **Gottfried, ON.** Discussion: Lumbar Degenerative Cases. 2020 Spine Summit, March 2020
17. **Gottfried ON.** Quality in Spine Surgery. Association of Surgical Technologists Conference. March 2021
18. **Gottfried, ON.** Symposium SYM23A – Improving Quality of Care in Neurosurgical Patients: Driving Safety, Effectiveness, and Reimbursement Through QI. Congress of Neurological Surgeons (CNS) Annual Meeting 2021

#### **4. Chapters in books:**

1. **Gottfried O,** Weinand M. Cervical hyperextension injuries. In: Griffith's: Five Minute Clinical Consult (M. Dambro, ed.). Philadelphia: Lippincott Williams and Wilkins, 2001-2007.
2. **Gottfried O,** Weinand M. Subdural hematomas. In: Griffith's: Five Minute Clinical Consult (M. Dambro, ed.). Philadelphia: Lippincott Williams and Wilkins, 2001-2009.
3. **Gottfried ON,** Couldwell WT, Weiss MH. Tumors of the sellar region: craniopharyngioma and pituitary adenoma. In: Principles of Neuro-oncology (J. Baehring and J. Piepmeier, eds.). New York: Marcel Dekker, 2006.
4. **Gottfried ON,** Couldwell WT. Craniopharyngioma. In: Neuro-Oncology: The Essentials, 2nd ed. (M. Bernstein and M. Berger, eds.). New York: Thieme Medical Publishers, 2008.
5. Liu JK, **Gottfried ON,** Couldwell WT. Skull base surgery: surgery perspective. In: Principles and Practice of Stereotactic Radiosurgery (L.S. Chin and W.F. Regine, eds.). New York: Springer, 2008.
6. **Gottfried ON,** Patel AA. Junctional degeneration of the lumbar spine. In: Arthritis and Arthroplasty: The Spine: Expert Consults (F.H. Shen and C. Shaffrey, eds.). Philadelphia: Elsevier, 2010.
7. **Gottfried ON,** Brodke DS. Total disc arthroplasty: Charite disc. In: The Textbook of Operative Spine Surgery (K. H. Bridwell and R. L. DeWald, eds.). Philadelphia: Lippincott, 2010.
8. **Gottfried ON,** Parker S, Gokaslan ZL. Tumors of the cervical spine. In: The Comprehensive Treatment of the Aging Spine: Minimally Invasive and Advanced Techniques (J. Yue and L. Khoo, eds.). Philadelphia: Elsevier, 2011.
9. Elsamadicy AA, Sergesketter AR, **Gottfried ON.** Quality Efforts for Reducing Mortality in Neurosurgery. Quality and Safety in Neurosurgery [Chapters pending publication]
10. Park C, Zakare-Fagbamila R, **Gottfried ON.** Chapter 310: Bone Metabolism and Osteoporosis, Youmans & Winn Neurological Surgery, 8e

#### **5. Books:(Indicate authors or editor)**

#### **6. Non-authored publications: (Faculty member formally acknowledged in the publication for her/his contributions) N/A**

7. **Other:**            **a.     Published scientific reviews (for mass distribution)**  
                              **b.     Selected abstracts**

1. Deogaonkar M, **Gottfried ON**, Way D, Hamilton A. Immunoreactive detection of p53 protein expression in frozen pediatric and adult neural tumors using flow cytometry. *J Neurooncol*, 45:273, 1999
2. Deogaonkar M, **Gottfried O**, Way D, Kishan A, Martin J, Hamilton A. Persistent intracranial air and increased postoperative vasogenic edema after intracavitary implantation of Gliadel wafers for malignant gliomas. *J Neurooncol*, 45:272, 1999.
3. **Gottfried ON**, Way DL, Hamilton AJ. A novel flow cytometric method for the qualitative analysis of p53 protein elevation in glioblastoma multiforme. *J Invest Med*, 47:191A, 1999.
4. **Gottfried ON**, Way DL, Hamilton AJ. Flow cytometric detection of p53 protein expression in archival (frozen) pediatric neural tumors. *J Invest Med*, 47:40A, 1999.
5. **Gottfried ON**, Way DL, Hamilton AJ. Postoperative cerebral edema after intracavitary implantation of Gliadel wafers for treatment of malignant gliomas. *J Invest Med*, 48:79A, 2000.
6. **Gottfried ON**, Takacs I, Way DL, Hamilton A. Selection of malignant gliomas for p53 targeted therapy. *J Invest Med*, 49:78A, 2001.
7. Takacs, I, Sherman SJ, Bell RS, **Gottfried ON**, Way D, Martin, J, Hamilton AJ. Deep brain stimulation for movement disorders: lead placement without microelectrode recording. *Neurosurg*, 49:512, 2001.
8. **Gottfried ON**, Rovit RL, Couldwell WT. Trends in neurosurgery supply and demand. *J Neurosurg*, 100: 789, 2004.
9. Fults DW, Browd SR, **Gottfried ON**, Pedone CA, Kenney AM. N-Myc stabilization enhances Sonic Hedgehog-induced medulloblastoma formation in mice. *Proc Amer Assoc Cancer Res*, 46: 2005.
10. **Gottfried ON**, Patel AA, Dailey AT, Daubs MD, Brodke DS. Spinopelvic alignment and implications for iatrogenic flatback deformity. *Spine Journal*, 8:115S-116S, 2008.
11. Umeano O, Lad S, Karikari I, Ugiliweneza B, Bagley C, **Gottfried ON**, Isaacs R, Patil C, Boakye M. Predictors of Mortality and Complications after Spinal Cord Injury. *CNS Annual Scientific Meeting*, 2012.
12. Mehta A, Babu R, Karikari I, Grunch B, Agarwal V, Owens T, Friedman A, Bagley C, **Gottfried ON**. The Distribution of Body Mass as a Significant Risk Factor for Lumbar Spinal Fusion Postoperative Infections. Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, 2012.
13. McGirt M, Glassman S, Theodore N, **Gottfried ON**, Khairi S, Schmidt M, Boakye M, Kalkanis S, Rabin D, Ryken T, Balturshot G, Briggs T, Grahm T, Harrington J, Shaffrey C, Watridge C, Asher A. The national neurosurgery quality and outcomes database (N2QOD) pilot: Interim analysis of registry feasibility, data integrity and the safety and effectiveness of surgical spine care. *Spine Journal*, 13: 65S, 2013.
14. Babu R, Thomas S, Hazzard M, Bagley J, Karikari I, Bagley CA, **Gottfried ON**, Isaacs R, Patil C, Boakye M, Lad S. Treatment of intraspinal abscess: Comparison of outcomes following surgical and conservative management. *J Neurosurg*, 119: A575, 2013.
15. Adogwa O, Huang K, Null U, Verla T, Thompson P, Cheng J, Lad S, Bagley C, **Gottfried ON**. Lateral Interbody Fusion with Posterior Instrumentation Versus Laminectomy and

- Posterior Fusion: Early Intra-operative and Post-operative Complications in 157 Patients Undergoing Long Segment Fusions. CNS Annual Scientific Meeting, 2013.
16. McGirt M, Speroff T, Glassman S, Knightly J, Mummaneni P, Oetting G, Theodore N, **Gottfried ON**, Khairi S, Kalkanis S, Ryken T, Balturshot G, Fassett D, Reeder R, Miller C, Briggs T, Grahm T, Guthrie B, Harrington J, Shaffrey C, Elowitz E, Foley K, Harrell F, Dittus R, Asher A. The national neurosurgery quality and outcomes database (N2QOD) pilot: Patient-centered measurement of quality and effectiveness of care. *J Neurosurg*, 119: A587, 2013.
  17. Adogwa O, Carr K, Thompson P, Fatemi P, Darlington T, Verla T, Martin J, **Gottfried O**, Cheng J, Isaacs R. A Prospective, Multi-Institutional Comparative Effectiveness Study of Lumbar Spine Surgery in Morbidly Obese Patients: Does Minimally Invasive TLIF Result in Superior Outcomes. Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, 2014.
  18. Adogwa O, Verla T, Fatemi P, Darlington T, Thompson P, Cheng J, Krukoff M, Lad S, Bagley C, **Gottfried O**. Preoperative Serum Albumin level as a Predictor of Postoperative Complication After Long Segment Spine Fusion. Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, 2014.
  19. Adogwa O, Karikari I, Fatemi P, Perez E, Thompson P, Martin J, Babu R, Moreno J, Cheng J, **Gottfried O**, Bagley C. Negative Pressure Wound Therapy Reduces Incidence of Post-Operative Wound Infection and Dehiscence After Long-Segment Thoracolumbar Spinal Fusion: A Single Institutional Experience. Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, 2014.
  20. Adogwa O, Huang M, Thompson P, Darlington T, Fatemi P, Verla T, Martin J, **Gottfried O**, Anderson G, Isaacs R. No Difference in Postoperative Complications, Pain and Functional Outcomes Up to 2 Years after Incidental Durotomy in Lumbar Spinal Fusion: A Prospective, Multi-Institutional, Propensity Matched Analysis of 1,741 Patients. Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, 2014. (**Mayfield Clinical Science Award**)
  21. Adogwa O, Fatemi P, Verla T, Thompson P, Darlington T, Martin J, Krukoff M, Cheng J, Bagley C, **Gottfried O**. Lateral Interbody Fusion with Posterior Instrumentation Versus Laminectomy and Posterior Fusion: Early Intra-operative and Post-operative Complications in 157 Patients Undergoing Long Segment Fusions. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, 2014.
  22. Adogwa O, Karikari I, Fatemi P, Perez E, Thompson P, Martin J, Babu R, Moreno J, Cheng J, **Gottfried O**, Bagley C. Negative Pressure Wound Therapy Reduces Incidence of Post-Operative Wound Infection and Dehiscence After Long-Segment Thoracolumbar Spinal Fusion: A Single Institutional Experience. AANS Annual Scientific Meeting, 2014.
  23. Adogwa O, Huang M, Thompson P, Darlington T, Fatemi P, Verla T, Martin J, **Gottfried O**, Anderson G, Isaacs R. No Difference in Postoperative Complications, Pain and Functional Outcomes Up to 2 Years after Incidental Durotomy in Lumbar Spinal Fusion: A Prospective, Multi-Institutional, Propensity Matched Analysis of 1,741 Patients. AANS Annual Scientific Meeting, 2014.
  24. Asher A, Glassman S, Knightly J, Mummaneni P, Oetting G, Theodore N, **Gottfried O**, Khairi S, Schmidt M, Boakye M, Kalkanis S, Rabin D, Ryken T, Balturshot G, Chaddock J, Fasset D, Reeder R, Miller C, Briggs T, Zhang D, Bambakidis N, Shaffrey M, Hadley M, Karahalios D, Angevine P, Martin M, Ewend M, Blatt J, Bydon A, Kremer A, Holly L,

- Slotkin J, Kaakaji W, Powers A, Griffitt W, Tippett T, Cozzens J, Christiano L, Graham T, Guthrie B, Harrington J, Shaffrey C, Elowitz E, Foley K, Watridge C, MCGirt M. The National Neurosurgery Quality and Outcomes Database (N2QOD): Predictors of Persistent 12 month Disability Following Lumbar Surgery. AANS Annual Scientific Meeting, 2014.
25. Godil S, McGirt M, Glassman S, Knightly J, Mummaneni P, Oetting G, Theodore N, **Gottfried ON**, Khairi S, Schmidt M, Boakye M, Kalkanis S, Rabin D, Ryken T, Balturshot G, Chadduck J, Fassett D, Reeder R, Miller C, Briggs T, Zhang D, Bambakidis N, Shaffrey M, Hadley Karahalios D, Angevine P, Martin M, Ewend M, Bydon A, Kremer M, Holly L, Slotkin, Kaakaji W, Powers A, Griffitt W, Tippett T, Cozzens J, Christiano L, Graham T, Barton L. Guthrie, J. Harrington F, Shaffrey C, Elowitz E, Foley K, Watridge C, Asher A. Defining the effectiveness of lumbar spine surgery in a nationwide, prospective longitudinal quality of life registry: An analysis of variability in patient-reported outcomes and preliminary predictive models of treatment failure. CNS Annual Scientific Meeting, 2014.
  26. Adogwa O, Fatemi P, Verla T, Loriaux D, Cheng J, Bagley C, Isaacs R, **Gottfried ON**. Measures of Surgical Effectiveness One-Year After Lumbar Spine Surgery Accurately Predict Two-Year Outcomes. CNS Annual Scientific Meeting, 2014.
  27. Verla T, Toche U, Adogwa O, Fatemi P, Thomas S, **Gottfried ON**, Bagley C, Lad S. Impact of Age on Spinal Fusion in Adult Idiopathic Scoliosis. CNS Annual Scientific Meeting, 2014.
  28. Adogwa O, Fatemi P, Verla T, Loriaux D, Farber H, Chagoya G, Moreno J, Heflin M, **Gottfried O**, Bagley C. Geriatric Co-Management Reduces Peri-Operative Complications and Shortens Duration of Hospital Stay After Lumbar Spine Surgery: A Prospective Single Institutional Experience. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, 2015.
  29. Verla T, Adogwa O, Moreno J, Farber H, Loriaux D, **Gottfried O**, Cheng J, Isaacs R, Bagley C. Effects of Psoas Muscle Thickness on Outcomes of Extreme Lateral Interbody Fusion (XLIF) Surgery. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, 2015.
  30. Wang T, Martin J, Loriaux D, **Gottfried O**. Rate of 30-day Postoperative Myocardial Infarction in Patients Undergoing Spine Surgery. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, 2015.
  31. Asher AL, McGirt M, Parker S, Mummaneni P, Glassman S, Knightly J, Theodore N, **Gottfried O**, Ryken T, Shaffrey C, Foley K, Chota Si, Devin C. Improvement in Pain, Disability, and Quality of Life following Lumbar Spine Surgery: A Predictive Model from the N2QOD Registry. AANS Annual Scientific Meeting, 2015.
  32. Desai R, Martin J, Wang T, Loriaux D, Adogwa O, Moreno J, Kuchibhatla M, Karikari I, Bagley C, **Gottfried O**. Risk Assessment for 30-day Mortality following Spine Surgery. AANS Annual Scientific Meeting, 2015.
  33. **Gottfried ON**, Elsamadicy A, Sampson JH. Institutional Review of Mortality and Documentation in 4,429 Consecutive Neurosurgery Patients: Are We Improving? Neurosafe 2016: Time Out to Reflect on Quality and Safety in Neurosurgery. Minnesota, July 15, 2016.
  34. Martin J, Wang TY, Loriaux DB, Desai R, Adogwa O, Kuchibhatla M, Karikari IO, Bagley CA, **Gottfried ON**. 315 Race as a Predictor of Postoperative Hospital Readmission After Spine Surgery. Neurosurgery. 2016.
  35. Elsamadicy AA, Wang TY, Karikari IO, **Gottfried ON**. 313 Impact of Intraoperative Steroids on Postoperative Infection Rates and Length of Hospital Stay: A Study of 1200 Spine Surgery Patients. Neurosurgery. 2016

36. Wang TY, **Gottfried ON**. Impact of Irrigation and debridement on fusion rate following index lumbar surgery. North American Spine Society Annual Meeting, 2016.
37. Elsamadicy AA, Nayer G, Sergesketter A, Karikari IO, **Gottfried ON**. Impact of Gender Disparities On Short and Long Term Patient Reported Satisfaction and Outcome Measures After Elective Spine Surgery. J Neurosurg: A1406, 2017
38. Elsamadicy AA, Ren X, Kemeny H, Charalambous L, Rahimpour S, Williamson T, Goodwin CR, Abd-El-Barr MM, **Gottfried ON**, Xie J, Lad SP. Patient Factors Associated with 30- and 90-Day Unplanned Readmission Rates After Elective Lumbar Spine Surgery: A National Trend Analysis of 144,123. 2018 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves
39. Elsamadicy AA, Sergesketter A, **Gottfried ON**, Institutional Review of Mortality in 5,434 Consecutive Neurosurgery Patients: Are We Improving?" 2018 Duke Health Patient Safety and Quality Conference.
40. Elsamadicy A, Adogwa O, Goodwin CR, Karikari I, **Gottfried ON**. Influence of racial disparities on short- and long-term perception of health status and patient-reported satisfaction after elective lumbar spine surgery. *The Spine Journal*. 2018
41. Zakare-Fagbamila R, **Gottfried ON**. Clinic satisfaction tool improves communication and provides real-time feedback. *The Spine Journal*. 2018
42. Bundy J, Ali MH, Chapman T, Karikari I, Laxer E, Segebarth PB, Pollina J, **Gottfried ON**, Howes GA, Khanna N, Prasher A, Schroerlucke S, Sembrano J, Uribe J, Tresser SJ. Preserving Spinal Motion: 92. A prospective, multicenter evaluation of the relationship between standing and recumbent surgical lumbar lordosis. *The Spine Journal*. 2018
43. Emami A, Abdelgadir J, Ali MH, Tresser S , Billys JB, Blaskiewicz D, Bundy J, Eastlack RK, **Gottfried ON**, Howes G, Kanter A, Karikari I, Mundis G, Okonkwo D, Orndorff D, Pollina J, Polly D, Sembrano J, Tohmeh A, Youssef J. Applying Deformity Concepts in Your Practice: 281. The influence of alignment planning on surgical plan changes in thoracolumbar spinal fusions: interim multicenter analysis. *The Spine Journal*. 2018
44. Park C, Dickson W, **Gottfried O**. Making It Meaningful: Creating a Quality Dashboard Platform for Measurable Improvements. CNS Annual Meeting. Sept 2020. Oral Presentation. *Published in Clinical Neurosurgery*.
45. Park C, Garcia AN, Cook C, **Gottfried O**. Effect of Change in Preoperative Depression on Patient Outcomes Following Lumbar Spine Surgery. CNS Annual Meeting. Sept 2020. Oral Presentation. *Published in Clinical Neurosurgery*.
46. Park C, Garcia AN, Cook C, Shaffrey CI, **Gottfried O**. Long-Term Impact of Obesity on Patient-Reported Outcomes and Patient Satisfaction After Lumbar Spine Surgery: An Observational Study. CNS Annual Meeting. Sept 2020. Oral Presentation. *Published in Clinical Neurosurgery*.
47. Karikari, Isaac O., Robert K. Eastlack, Adam S. Kanter, Jonathan N. Sembrano, Donald J. Blaskiewicz, Antoine Tohmeh, **Gottfried O.**, Arash Emami, Jim A. Youssef, Sahir Jabbouri, David O. Okonkwo. Does the utilization of comprehensive surgical planning software improve postoperative sagittal alignment: an interim multicenter analysis. . *The Spine Journal*. 2020



48. Williamson T. Murphy K, Karikari I, Crutcher C, **Gottfried O**, Goodwin R, Shaffrey C .  
Indications conference for surgical decision-making in complex spine surgery: creating  
consensus when the stakes are high. The Spine Journal Volume 21, S58-S59

**c. Editorials, position, and background papers N/A**

**d. Patents N/A**

**Consultant appointments: (Include US government, state, private organizations, etc.)**

2010-2013 Educational Consultant, Lanx Spine  
2014-Present Educational Consultant, RTI Spine  
2012-2016 Medical Adviser, *Royal Pains*, USA Network  
2012-2017 Medical Adviser, *Elementary*, CBS Network  
2015-2016 Medical Adviser, *Thrill Factor*, Travel Channel  
2015-Present Medical Adviser, *Chicago Med*, NBC Network  
2018-Present Lead Medical Adviser, *The Good Doctor*, ABC Network  
2019 Medical Adviser, *Blue Swan Hospital Game*

**Onscreen TV Credits**

The Good Doctor, Lead Medical Consultant and Writer, 2018-Present, Including “Story by”  
season 4 episode 415  
Chicago Med, Medical Consultant and Actor, 2015-Present, including Actor on episode 4x22,  
6x16  
Elementary, Technical Consultant, 2012-2019  
Royal Pains, Medical Advisor, 2013-2016

**Professional awards and special recognitions:**

1996 Howard Hughes Medical Institute Research Training Fellowship  
1997 Howard Hughes Medical Institute Continued Support Fellowship  
1998 Young Investigator Award, Yuma Friends of Arizona College of Medicine  
1998 National Institute of Health Research Training Fellowship  
1999 National Institute of Health Research Continued Support Fellowship  
1999 Travel Grant, Experimental Biology, American Federation for Medical Research  
2001 Outstanding Senior Student in Surgery Award, University Arizona COM  
2001 Honors and Awards Committee Excellence in Research Award, University  
Arizona COM  
2001 Van Winkle Award for Excellence in Surgical Research, University Arizona COM  
2001 First Research Distinction Track Graduate, University Arizona COM  
2012 Spine, Young Investigator Award (for top rated journal article)  
2014 Author on study receiving Mayfield Clinical Science Award, Annual Meeting of  
the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves  
2015 Duke University Blue Devil of the Week, Honoring Service to Duke University  
2015 Highest Impact Spine Surgery Article, Neurosurgery selected article-honoring top  
12 highest impact spine article from 2010-2015

2015 Selected Neurosurgery National Representative for Doximity Fellowship  
2017 AANS Meeting First Place Advanced Practice Provider E-Poster Award  
2021 Invited to be member of Writers Guild of America – East  
2021 Invited to be member of Screen Actors Guild

**Participation in academic and administrative activities of the University and Medical Center:**

Clinical Vice-Chair, Department of Neurosurgery  
Vice-Chair and Medical Director, Quality, Department of Neurosurgery  
Interim Director, Neurosurgery Adult Spine Fellowship  
Neurosurgery Medical Director, Spine Clinic 1B/1C  
Neuroscience Clinical Director, Duke Hospital  
Inpatient Medical Director, 4100 Spine Unit  
Neurosurgery Co-Director, Duke Spine Center  
Chair, Duke Spine Center Operations Committee  
Chair, Duke Spine Center Quality Committee  
Co-Chair, Duke Spine Center Executive Committee  
Neurosurgery Leader, PDC Outcomes Research Team  
Neurosurgery Leader, PDC Revenue Champion Council  
Neurosurgery Leader, PDC Clinical Affairs/ Vice-Chairs Committee  
Neurosurgery Clinical Department Performance Review  
Neurosurgery Leader, Duke Health System Mortality Leadership Council  
Duke Clinical Leader, National Neurosurgery Quality and Outcomes Database  
Duke Clinical Leader, American Spine Registry Database  
Duke Hospital Credential Committee  
Neurosurgery Leader, Duke Hospital CSU/ Medical Directors Meeting  
Chair, Duke Neurosurgery Quality/Patient Satisfaction Group  
Chair, Duke Neurosurgery Visibility and Reputation Group  
Spine Chair, Duke Spine and Total Joint Research Group  
Spine Clinic Operations Governance Council  
Neurosciences Operational Excellence  
Neurosciences and Hospital USNWR Mortality Committee  
PDC Access Champion Meeting  
PDC Quality Reporting Workgroup  
Interviews for Duke School of Medicine  
School of Medicine Third Year Medical Student Research Mentor  
Clinical and research mentor to multiple medical students and residents  
Member, Neurosurgery Core Clinical Faculty Committee  
Member, Spine Niche Committee  
PDC Quality Reporting Workgroup  
Neurosurgery access champion for hospital  
Green Belt Committee on Ambulation  
Duke Spine Steering Committee  
CSU Medical Directors Committee, Duke University  
Neurosurgery Departmental Appointments, Promotion and tenure (review) Committee

Neurosurgery Review & Chair Search Committee  
Duke NSQIP Collaborative Group  
High Value Clinical Consensus Committee  
Spine Value Based Care/ Spine Modelling, Member  
Chair, Spine Strategic Planning Quality Committee  
Co-director for Appropriate Use Committee care redesign, Imaging and Spine

**Organizations and participation:**

North Carolina Spine Society, Executive Committee, Secretary/Treasurer 2015-2016  
North Carolina Spine Society, Executive Committee, Vice President 2016-2017  
North Carolina Spine Society, Executive Committee, President- Elect 2017-2018  
North Carolina Spine Society, Executive Committee, President 2018-2019  
North Carolina Spine Society, Scientific Program Meeting Chair and Planning of Yearly Meeting, 2019  
American Association of Neurological Surgeons, Information Technology Committee  
American Association of Neurological Surgeons, Member  
Congress of Neurological Surgeons, Member  
North American Spine Society, Member  
Association for Medical Ethics, Member  
National Neurosurgery Quality and Outcomes Database, Duke Clinical Leader  
National Neurosurgery Quality and Outcomes Database, Operations Committee, Member  
National Neurosurgery Quality and Outcomes Database, Data Quality Validity Subcommittee, Member  
National Neurosurgery Quality and Outcomes Database, Data Use and Access Subcommittee, Member  
National Neurosurgery Quality and Outcomes Database, Spine CORE Study Group, Member  
Association for Collaborative Spine Research (ACSR), Degenerative Section, Member  
Alpha Omega Alpha Honor Society, Member  
NC State BME Senior Design Advisor  
Associate Fellow of the American College of Surgeons, Member  
NSQIP Neurosurgical and Spine, Surgical Champion  
Fellow of the American College of Surgeons, Member  
American Spine Registry Key Opinion Leaders Committee  
American Spine Registry, Data Operations Committee  
Board Member, National Spine Health Foundation

**Teaching responsibilities including continuing education:**

- Duke AO Resident/Nursing Spine Course, Instructor, 07/10/2010
- Duke Resident Anatomy Cadaver Course, Chair, 11/13/2010
- Duke AO Resident/Nursing Spine Course, Instructor, 07/09/2011
- Duke Resident Anatomy Cadaver Course, Instructor, 07/23/2011
- Duke Resident Anatomy Cadaver Course, Chair, 10/22/2011
- Duke Neurosurgery Grand Rounds, "Implications of Sagittal Balance," 08/03/2011

- Duke Raleigh Nursing Lecture, “Indications and Surgical Techniques for Lumbar Spine Surgery,” 01/21/2012
- Duke Neurology Neuromuscular Grand Rounds, “Management of Spine Disease,” 01/30/2012
- Duke Neurosurgery Grand Rounds, “Thoracic and Lumbar Deformity,” 05/02/2012
- Duke Neurosurgery Grand Rounds, “Spinal Anatomy,” 08/15/2012
- Duke Medical Student Lecture, “Spine Trauma,” 09/21/2012
- Duke Medical Student Lecture, “Spine Trauma,” 11/19/2012
- Duke Medical Student Lecture, “Spine Trauma,” 02/01/2013
- Duke Spine Center Symposium, “Current Concepts in Spinal Disorders,” 02/16/2013
- Duke Neurosurgery Grand Rounds, “Management of Adult and Pediatric Spinal Deformity,” 05/01/2013
- Duke Biomedical Engineering Summer Clinical Practicum, Course Instructor 6/2013
- Duke Medical Student Lecture, “Spine Trauma,” 06/06/2013
- Duke Medical Student Lecture, “Spine Trauma,” 07/18/2013
- Duke Medical Student Lecture, “Spine Trauma,” 04/03/2014
- Duke Medical Student Lecture, “Spine Trauma,” 06/05/2014
- Duke Medical Student Lecture, “Spine Trauma,” 07/17/2014
- Duke Medical Student Lecture, “Spine Trauma,” 09/4/2014
- Duke Medical Student Lecture, “Spine Trauma,” 11/13/2014
- Duke Medical Student Lecture, “Spine Trauma,” 1/29/2015
- Duke Medical Student Lecture, “Spine Trauma,” 4/2/2015
- Duke Medical Student Lecture, “Spine Trauma,” 5/28/2015
- Duke Neurosurgery Grand Rounds, “Use of Intraoperative Monitoring for Spinal Surgery,” 6/3/2015
- Duke Biomedical Engineering Summer Clinical Practicum, Course Instructor 6/2015
- Duke Medical Student Lecture, “Spine Trauma,” 7/23/2015
- Duke Neurosurgery Academic Lecture, “Case Based Teaching: Spine,” 8/26/2015
- Duke Medical Student Lecture, “Spine Trauma,” 2/13/2016
- Duke Medical Student Lecture, “Spine Trauma,” 4/2/2016
- Duke Neurosurgery Academic Lecture, “Case Based Teaching: Spine,” 5/11/2016
- CME Teaching Course: Complications of cervical spine surgery 12/2017
- Duke Neurosurgery Grand Rounds, “Case Based Teaching: Spine,” 10/25/17
- Quality and Innovation Scholars Program Mentor, 2017-2019
- Duke Medical Student Lecture, “Career Advice to Neurosurgery Medical Student Interest Group,” 2/28/18
- Duke Resident Lecture, “Quality Review,” 1/22/2020
- Duke Resident Lecture, “Quality Review,” 10/15/2020
- Duke NSU Spine Symposium, “Spine Quality and Safety Programs: Duke Spine Experience 2012 to Present,” 10/24/2020
- Duke Virtual Spine International Symposium, **Meeting Chair and Course Director.** 5/22-23/2020
- Duke Neurosurgery Lumbar Case Presentation. 6/16/2021
- Duke Neurosurgery Lumbar Case Presentation. 7/28-21

**Recurring:**

- Resident and Facility Morbidity and Mortality Conference and Review on Quality (Monthly)
- Resident Teaching Conference, Spine Surgery: Indication, Operative Nuances, and Outcomes Conference, Co-Leader
- Neurosurgery Resident/Medical Student Spine Research Meeting (Monthly), Member

**Areas of research interests (basic and applied) - list:**

- Prevention of spine surgery complications including infection, deformity, and need for repeat surgery
- Evaluating and improving quality outcomes after spinal and brain surgery with multiple prospective databases

**External support (past and present) - gifts, grants, and contracts:**

	<u>PI</u>	<u>%Effort</u>	<u>Purpose</u>	<u>Amount</u>	<u>Duration</u>
<b>a) Past:</b>	N/A				
<b>b) Present:</b>	Hoang K, <b>Gottfried ON</b>		Does implementation of a perioperative bundle to standardize care decrease SSI rates and create a favorable economic profile?	\$5,000	2016-2017
	<b>Gottfried, ON</b>		Randomized, prospective, internally controlled study to compare patient satisfaction and readmission rates after spine surgery between patients engaged via text message compared to those with conventional follow-up.	TBD* Granted by Department of Neurosurgery as 3 funded studies	2016
	<b>Gottfried, ON</b> Isaacs,RI Karikari,IO Adogwa, O		Peri-Operative Geriatric Co-care Reduces Complications and Improves Outcomes: A Single Institutional Prospective Cohort Study	\$30,000	
	John Berry-Candelario, Zakare-Fagbamila R, <b>Gottfried, ON</b>		Improving Spine Clinic Communication Through Mobile Technology	\$5,000	2017-2018

	Kelly Murphy, Shelley McDonald, <b>Gottfried, ON,</b>		Evaluating Efficacy and Increasing Utilization of Perioperative Optimization of Senior Health (POSH) for Neurosurgical Spine Patients	\$3,000	2017-2018
	Eric Sankey, Zakare-Fagbamila R, <b>Gottfried, ON</b>		Randomized Controlled Trial of an Educational App to Improve Health Knowledge and Satisfaction in Spine Patients	\$3,000	2017-2018
	<b>Gottfried, ON,</b> Cook, Chad, Simon, Corey, Garcia, Alessandra		Classification of post-operative surgical recovery among older adults with low back pain using biopsychosocial predictors DCRI Musculoskeletal Research Scholars Program	\$20,000	2019-2020
	<b>Gottfried, ON,</b>		Philanthropic Grant for Quality Research from Beckman and Royster	175,000	2018-2020
<b>c) Pending:</b>	N/A				

**Clinical activity - type of practice and estimate of time commitment:**

Clinical efforts to focus on spinal neurosurgery at Duke Hospital and Duke Raleigh Hospital

80% Clinical efforts to focus on spinal neurosurgery at Duke Hospital and Duke Raleigh Hospital

15% academic efforts including direct involvement in the education and mentoring of Neurosurgery fellows, residents and medical students; active participation in national and regional society functions as demonstrated by research presentations or committee participation; and annual participation in the resident and/or fellow interview process.

5% research dedicated to complex spine surgery.

**Representative Studies:**

- *Cost Effectiveness Analysis Across Spine Surgical Procedures Performed on Patients With A Given Condition or Indication.* (IRB#: 30761)

Primary Investigator: Oren N. Gottfried, M.D.

- *National Neurosurgery Quality and Outcomes Database (N2QOD): A Prospective Registry for Quality Reporting.* (IRB#: 29554)

Primary Investigator: Oren N. Gottfried, M.D.

- *Using mobile phone text messaging and E-mailing to decrease anxiety, pain, follow-up visits and improve reporting of surgical site infection after Spine Surgery: A Double-Blind Randomized Trial.* (IRB#: 34182)

Primary Investigator: Oren N. Gottfried, M.D.

- *Evaluating the Incidence of and Risk Factors for Complications Following Spine Surgery.* (IRB#: 57903)

Primary Investigator: Oren N. Gottfried, M.D.

---

**Signature of Chairman**

---

**Date**

## Personal Information

**Faculty members' preferred familiar name:** Oren Gottfried

**Home address:** 2001 Elcombe Court,  
Chapel Hill NC 27517

**Home Phone#:** 919-294-9095

**Marital status:** Married

**Name of spouse:** Jill C. Moore

**Degrees:** M.D.

**Work status:** Gastroenterologist

**Children: (names and ages)** Madeline (14), Jack (11), Caitlin (8)

**E-mail Address:** [ogottfr1@gmail.com](mailto:ogottfr1@gmail.com)

**Webpage Address:** <http://www.dukemedicine.org/find-doctors-physicians/oren-n-gottfried-md>