

DUKE UNIVERSITY MEDICAL CENTER

CURRICULUM VITAE

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

Date Prepared: January 11, 2017

Name (complete with degrees): Henry Elliot Rice, M.D.

Primary academic appointment (department): Department of Surgery
Division of Pediatric Surgery
Duke University Medical Center

Secondary appointment (department): Department of Pediatrics
Duke Global Health Institute

Present academic rank and title (if any): Professor (Track I)
Chief, Division of Pediatric Surgery
Duke University Medical Center

Date and rank of first Duke faculty appointment: September 1, 1998; Assistant Professor of Surgery

Medical licensure (National Boards, State): Diplomate, National Board of Medical Examiners,
Certificate #358565
Washington MD 33510 (inactive)
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New York 203513 (inactive)
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Specialty certification and dates: Diplomate, American Board of Surgery, certificate
#042482, Issued 9/97, recertified 12/06, expires 7/2018

Certification of Special Qualifications in Pediatric Surgery,
certificate #000816, American Board of Surgery, issued
3/00, recertified 11/09, expires 7/2020

<u>Education:</u>	<u>Institution</u>	<u>Date (Year)</u>	<u>Degree</u>
High School	Clayton High School Clayton, MO	1980	Diploma
College	University of Michigan Ann Arbor, MI	1983	B.S. Psychobiology (with honors)

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. **Rice HE**, Smith CB, Silk KR, Rosen J. Platelet alpha₂-adrenoreceptors in schizophrenic patients before and after phenothiazine treatment. *Psychiatry Research*, 1984 May; 12, 69-77. PMID: 6087398
2. Rosen J, Silk KR, **Rice HE**, Smith CB. Platelet alpha-2-adrenergic dysfunction in negative symptom schizophrenia: a preliminary study. *Biological Psychiatry*, 1985 May; 20(5):539-45. PMID: 2985130
3. **Rice HE**, Ruben L, Gould S, Njogu AR, Patton CL. Phenothiazines in murine African trypanosomiasis. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 1987 Nov/Dec; 81(6), 932. PMID: 3503414
4. **Rice HE**, Haltzman S, Tucek C. Mania associated with use of procainamide. *American Journal of Psychiatry*, 1988 Jan; 145(1), 129-130. PMID: 3337281
5. **Rice HE**, Seashore JH, Touloukian RJ. Evaluation of Nissen fundoplication in neurologically impaired children. *Journal of Pediatric Surgery*, 1991 June; 26(6): 697-701. PMID: 1941460
6. Hedrick MH, **Rice HE**, Sachs DH, Zanjani ED, Flake AW. Creation of pig-sheep xenogeneic hematopoietic chimerism by the *in utero* transplantation of hematopoietic stem cells. *Transplantation Science*, 1993 Feb; 3:23-26.
7. **Rice HE**, Hedrick MH, Flake AW, Donegan E, Harrison MR. Bacterial and fungal contamination of human fetal liver collected transvaginally for hematopoietic stem cell transplantation. *Fetal Diagnosis and Therapy*, 1993 Mar-Apr; 8:74-78. PMID: 8101709
8. **Rice HE**, Adzick, NS. Prenatal diagnosis: Essentials for the pediatric surgeon. *Seminars in Pediatric Surgery*, 1993 May; 2(2):1-7. PMID: 8062033
9. **Rice HE**, Flake AW, Hedrick MH, Zanjani ED, Harrison MR. Effect of xenogeneic chimerism in a human/sheep model on natural antibody. *Journal of Surgical Research*, 1993 Apr; 54(4):355-359. PMID: 8331929
10. Hedrick MH, Jennings RW, MacGillivray TE, **Rice HE**, Flake AW, Adzick NS, Harrison MR. Chronic fetal vascular access. *Lancet*, 1993 Oct 30; 342(8879):1086-1087. PMID: 8105313
11. **Rice HE**, Hedrick MH, Flake AW. *In utero* transplantation of rat hematopoietic stem cells induces xenogeneic chimerism in mice. *Transplantation Proceedings*, 1994 Feb; 26(1):126-128. PMID: 7906444
12. Zanjani ED, Flake AW, **Rice HE**, Hedrick M, Tavassoli M. Long-term repopulating ability of xenogeneic transplanted human fetal liver hematopoietic stem cell (HSC) in sheep. *Journal of Clinical Investigation*, 1994 Mar; 93(3):1051-1055. PMID: 7907601
13. **Rice HE**, Estes JM, Hedrick MH, Bealer JF, Harrison MR, Adzick NS. Congenital cystic adenomatoid malformation: A sheep model of fetal hydrops. *Journal of Pediatric Surgery*, 1994 May; 29(5):692-696. PMID: 8035286
14. Hedrick MH, **Rice HE**, MacGillivray TE, Bealer JF, Zanjani ED, Flake AW. Hematopoietic chimerism achieved by *in utero* hematopoietic stem cell injection does not induce tolerance to allogeneic renal transplantation in sheep. *Transplantation*, 1994 July 15; 58(1):110-111. PMID: 7913560
15. **Rice HE**, Skarsgard ED, Emani VR, Zanjani ED, Harrison MR, Flake AW. An effective strategy for decontamination, ex vivo expansion, and storage of human fetal liver hematopoietic stem cells. *Transplantation Proceedings*, 1994 Dec; 26(6):3352-3353. PMID: 7527966

16. **Rice HE**, Emani VR, Skarsgard ED, Knazek RA, Zanjani ED, Flake AW, Harrison MR. Human fetal liver hematopoietic cell expansion with a novel bioreactor system. *Transplantation Proceedings*, 1994 Dec; 26(6):3338-3339. PMID: 7998163
17. **Rice HE**, Flake AW, Hori T, Galy A, Verhoogen RH. Massive thymic hyperplasia: Characterization of a rare mediastinal mass. *Journal of Pediatric Surgery*, 1994 Dec; 29(12):1561-1564. PMID: 7877028
18. Flake AW, Hedrick MH, **Rice HE**, Tavassoli M, Zanjani ED. Enhancement of human hematopoiesis by mast cell growth factor in human-sheep chimeras created by the *in utero* transplantation of human fetal hematopoietic cells. *Experimental Hematology*, 1995 Mar; 23(3):252-257. PMID: 7533102
19. Hedrick MH, **Rice HE**, VanderWall KJ, Adzick NS, Harrison MR, Siebert J, Hoffman WY, Longaker MT. Delayed in utero repair of surgically created fetal cleft lip and palate. *Plastic and Reconstructive Surgery*, 1996 Apr; 97(5):900-905. PMID: 8618992
20. Gibbs DL, **Rice HE**, Farrell JA, Adzick NS, Harrison MR. Familial diaphragmatic agenesis: An autosomal-recessive syndrome with a poor prognosis. *Journal of Pediatric Surgery*, 1997 Feb; 32(2):366-368. PMID: 9044155
21. **Rice HE**, Arbabi S, Kremer R, Needle D, Johansen K. Ruptured *Salmonella* mycotic aneurysm of the extracranial carotid artery. *Annals of Vascular Surgery*, 1997 July; 11(4):416-419. PMID: 9237001
22. Mychaliska G, **Rice HE**, Tarantal A, Stock P, Capper J, Garavoy M, Olson J, Cowan M, Harrison M. *In utero* hematopoietic stem cell transplants prolong survival of post-natal kidney transplantation in monkeys. *Journal of Pediatric Surgery*, 1997 July; 32(7):976-981. PMID: 9247216
23. **Rice HE**, O'Keefe GE, Helton WS, Johansen K. Morbid prognostic features in patients with chronic liver failure undergoing nonhepatic surgery. *Archives of Surgery*, 1997 Aug; 132(8):880-885. PMID: 9267273
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25. **Rice HE**, Arbesman M, Martin DJ, Brown RL, Gollin G, Gilbert JC, Caty MG, Glick PL, Azizkhan RG. Does early ultrasonography affect management of pediatric appendicitis? A prospective analysis. *Journal of Pediatric Surgery*, 1999 May; 34(5):754-759. PMID: 10359177
26. Markert ML, Boeck A, Hale LP, Kloster AL, McLaughlin TM, Batchvarova MN, Douek DC, Koup RA, Kostyu DD, Ward FE, **Rice HE**, Schiff SE, Buckley RH, Haynes BF, Mahaffey SM. Transplantation of thymus tissue in complete DiGeorge Syndrome. *New England Journal of Medicine*, 1999 Oct 14; 341(16):1080-1089. PMID: 10523153
27. **Rice HE**, Acosta A, Brown RL, Gutierrez C, Alashari M, Mintequi D, Rodriguez A, Chavarrga O, Azizkhan RG. Juvenile papillomatosis of the breast in male infants: two case reports. *Pediatric Surgery International*, 2000 Jan; 16(1-2):104-106. PMID: 10663852
28. Lodge AJ, Jagers J, Adams D, **Rice HE**. Vascular control for resection of intracaval Wilms' tumor: Technical considerations. *Journal of Pediatric Surgery*, 2000 Dec; 35(12):1836-1837. PMID: 11101750
29. Safford S, Safford K, Martin P, **Rice H**, Kurtzberg J, Skinner MA. Management of cholelithiasis in pediatric bone marrow transplant patients. *Journal of Pediatric Surgery*, 2001 Jan; 36(1):86-90. PMID: 11150443
30. **Rice HE**, Brown RL, Gollin G, Caty MG, Gilbert J, Skinner MA, Glick PL, Azizkhan RG. Results of a randomized trial comparing prolonged intravenous antibiotics to sequential intravenous/oral

- antibiotics for children with perforated appendicitis. *Archives of Surgery*, 2001 Dec; 136(12):1391-1395. PMID: 11735866
31. Erickson GR, Gimble JM, Franklin D, **Rice HE**, Awad H, Guilak F. Chondrogenic potential of adipose tissue-derived stromal cells *in vitro* and *in vivo*. *Biochemical and Biophysical Research Communications*, 2002 Jan 18; 290(2): 763-769. PMID: 11785965
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 33. **Rice HE**, Oldham KT, Hillery CA, Skinner MA, O'Hara SD, Ware RE. Clinical and hematological benefits of partial splenectomy for congenital hemolytic anemias in children. *Annals of Surgery*, 2003 Feb; 237(2):281-288. PMID: 12560788
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 35. Safford SD, Hayward TZ, Safford KM, Georgiade GS, **Rice HE**, Skinner MA. A cost and outcome comparison of a novel integrated pediatric air and ground transportation system. *Journal of the American College of Surgeons*, 2003 Dec; 195(6):790-795. PMID: 12495311
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 41. Safford SD, Pietrobon R, Safford KM, Martins H, Skinner MA, **Rice HE**. A study of 11,003 patients with hypertrophic pyloric stenosis and the association between surgeon and hospital volume and outcomes. *Journal of Pediatric Surgery*, 2005 June; 40(6): 967-973. PMID: 15991179
 42. Storms RW, Green PD, Safford KM, Niedzwiecki D, Cogle CR, Colvin OM, **Rice HE**, Smith CA. Distinct hematopoietic progenitor compartments are delineated by the expression of aldehyde dehydrogenase and CD34. *Blood*, 2005 Jul 1; 106(1):95-102. PMID:15790790
 43. Rosoff PM, Larrier N, **Rice HE**. Intra-abdominal desmoid tumor after successful treatment for Hodgkin's disease. *Pediatric Blood & Cancer*, 2005 Oct 15; 45(5):728-731. PMID: 16035093
 44. Ansong A, Li JS, Grayck E, Ing R, Kravitz R, Idriss SF, Kanter RJ, **Rice H**, Chen YT, Kishnani PS. Electrocardiographic response to enzyme replacement therapy for Pompe disease. *Genetics in Medicine*, 2006 May; 8(5):297-301. PMID: 16702879

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46. de la Fuente SG, **Rice HE**. Ingestion of unusual foreign bodies and malrotation: A "Perfect Storm." *Pediatric Surgery International*, 2006 Oct; 22(10):869-872. PMID: 16947024
47. Patel MB, Nathan JD, **Rice HE**. Nonoperative management of asymptomatic traumatic pulmonary hernia in a young child. *Journal of Trauma and Critical Care*, 2007 Jan; 62(1):234-235. PMID: 17215762
48. **Rice HE**, Frush DP, Farmer D, Waldhausen JH, APSA Education Committee. Review of radiation risks from computer tomography: Essentials for the pediatric surgeon. *Journal of Pediatric Surgery*, 2007 Apr; 42(4):603-607. PMID: 17448753
49. **Rice HE**, Hsu EW, Sheng H, Evenson DA, Freemerman AJ, Safford KM, Provenzale JM, Warner DS, Johnson GA. Superparamagnetic iron oxide labeling and transplantation of adipose-derived stem cells in middle cerebral artery occlusion-injured mice. *AJR, American Journal of Roentgenology*, 2007 Apr; 188(4): 1101-1108. PMID 17377054
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51. Markert ML, Devlin BH, Alexieff MJ, Li J, McCarthy EA, Gupton SE, Chinn IN, Hale LP, Kepler TB, Cowell LG, He M, Sarzotti-Kelsoe M, Skinner MA, **Rice HE**, Hoehner JC. Review of 54 patients with complete DiGeorge anomaly enrolled in protocols for thymus transplantation: Outcome of 44 consecutive transplants. *Blood*, 2007 May 15; 109(10):4539-4547. PMID: 17284531
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58. Tracy ET, **Rice HE**. Partial splenectomy for hereditary spherocytosis. *Pediatric Clinics of North America*, 2008 Apr; 55(2): 503-519. PMID 18381098
59. Markert ML, Li J, Devlin BH, Hoehner JC, **Rice HE**, Skinner MA, Li YJ, Hale LP. Use of allograft biopsies to assess thymopoiesis after thymus transplantation. *Journal of Immunology*, 2008 May 1; 180(9):6354-6364. PMID: 18424759

60. De la Fuente SG, Smith T, **Rice HE**. Functional and anatomic correlation of splenic regeneration following embolization. *Pediatrics International*, 2009 Apr; 51(2):302-305. PMID: 19379265
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66. Hollingsworth CL, **Rice HE**. Hereditary spherocytosis and partial splenectomy in children: Review of surgical technique and the role of imaging. *Pediatric Radiology*, 2010 July; 40(7):1177-1183. PMID: 20180110
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92. Gulack BC, Heydari S, Figueroa L, Tew S, Taicher BM, Ross SS, Boyd D, **Rice HE**. Ranking and rating analyses of barriers to surgical care for children in Guatemala. *International Journal of Surgery Research and Practice*, 2015 2:032.
93. Kim J, Sun Z, Gulack BC, Adam MA, Mosca PJ, **Rice HE**, Tracy ET. Sentinel lymph node biopsy is a prognostic measure in pediatric melanoma. *Journal of Pediatric Surgery*, 2016 Jun;51(6):986-90. doi: 10.1016/j.jpedsurg.2016.02.067. PMID: 27041229
94. Westra SJ, Karmazyn BK, Alazraki AL, Dempsey ME, Dillman JR, Garber M, Moore SG, Raske ME, **Rice HE**, Rigsby CK, Safdar N, Simoneaux SF, Strouse PJ, Trout AT, Wootton-Gorges SL, Coley BD. Fever without source or unknown origin-child. *Journal of the American College of Radiology*, 2016 13(8):922-930. doi: 10.1016/j.jacr.2016.04.028. PMID: 27374781
95. Cone EB, Dalton SS, Van Noord M, **Rice HE**, Routh JC. Biomarkers for Wilms tumor: A systematic review. *Journal of Urology*, 2016 May 31. pii: S0022-5347(16)30549-3. doi: 10.1016/j.juro.2016.05.100. PMID:27259655
96. Englum BR, Gulack BC, **Rice HE**, Scarborough JE, Adibe OO. Management of blunt pancreatic trauma in children: Review of the National Trauma Data Bank. *Journal of Pediatric Surgery*, 2016 Sep;51(9):1526-31. doi: 10.1016/j.jpedsurg.2016.05.003. PMID: 27577183
97. **Rice HE**. Understanding splenectomy for children with hereditary spherocytosis. *Pediatric Blood & Cancer*, 2016 Oct;63(10):1700-1. doi: 10.1002/pbc.26109. Epub 2016 Jul 9. PMID: 27394058
98. Talbot LJ, Sinyard RD, Rialon KL, Englum BR, Tracy ET, **Rice HE**, Adibe OO. Influence of weight at enterostomy reversal on surgical outcomes in infants after emergent neonatal stoma creation. *Journal of Pediatric Surgery*, 2016 Oct 25. pii: S0022-3468(16)30476-6. doi: 10.1016/j.jpedsurg.2016.10.015. PMID: 27916444
99. Englum BR, Rialon KL, Kim J, Shapiro ML, Scarborough JE, **Rice HE**, Adibe OO, Tracy ET. Current use and outcomes of helicopter transport in pediatric trauma: A review of 18,291 transports.

- Journal of Pediatric Surgery*, 2016 Oct 27. pii: S0022-3468(16)30491-2. doi: 10.1016/j.jpedsurg.2016.10.030. PMID: 27852453
100. Kim J, Sun Z, Adam MA, Adibe OO, **Rice HE**, Roman SA, Tracy ET. Predictors of nodal metastasis in pediatric differentiated thyroid cancer. *Journal of Pediatric Surgery*, 2016 Oct 27. pii: S0022-3468(16)30494-8. doi: 10.1016/j.jpedsurg.2016.10.033. PMID: 27836371
 101. Kim J, Sun Z, Englum BR, Allori AC, Adibe OO, **Rice HE**, Tracy ET. Laparoscopy is safe in infants and neonates with congenital heart disease: A national study of 3,684 patients. *Journal of Laparoendoscopic & Advanced Surgical Techniques*, 2016 Oct;26(10):836-839. PMID: 27455201
 102. Watson JA, Englum BR, Kim J, Adibe OO, **Rice HE**, Shapiro ML, Daneshmand MA, Tracy ET. Extracorporeal life support use in pediatric trauma: A review of the National Trauma Data Bank. *Journal of Pediatric Surgery*, 2016 Oct 28. pii: S0022-3468(16)30503-6. doi: 10.1016/j.jpedsurg.2016.10.042. PMID: 27916443
 103. Kim J, Sun Z, Ezekian B, Schooler GR, Prasad VK, Kurtzberg J, **Rice HE**, Tracy ET. Gallbladder abnormalities in children with metachromatic leukodystrophy. *Journal of Surgical Research*, 2017 Feb;208:187-191. doi: 10.1016/j.jss.2016.08.081. PMID: 27993207
 104. Ezekian B, Englum BR, Gilmore BF, Kim J, Leraas HJ, **Rice HE**. Onychocryptosis in the pediatric patient: Review and management techniques. *Clinical Pediatrics*, 2016 Dec 8. pii: 0009922816678180. [Epub ahead of print] PMID: 27941086
 105. Saxton AT, Poenaru D, Ozgediz D, Ameh EA, Farmer D, Smith ER, **Rice HE**. Economic analysis of children's surgical care in low- and middle- income countries: A systematic review and analysis. *PLoS One*, 2016 Oct 28;11(10):e0165480. doi: 10.1371/journal.pone.0165480. PMID: 27792792
 106. Kuo BJ, Vissoci JR, Egger JR, Smith ER, Grant GA, Haglund MM, **Rice HE**. Perioperative outcomes for pediatric neurosurgical procedures: Analysis of the National Surgical Quality Improvement Program – Pediatrics. *Journal of Neurosurgery-Pediatrics*, (In press).
 107. Kim J, Sun Z, Leraas HJ, Nag UP, Benrashid E, Allori AC, Pabon-Ramos WM, **Rice HE**, Shortell CK, Tracy ET. Morbidity and healthcare costs of vascular anomalies: a national study. *Pediatric Surgery International*, 2016 Nov 22. PMID: 27878447

In Preparation:

Kim J, Turner MC, Sun Z, Rialon KL, Sinyard RD, Schooler GR, Tracy ET, **Rice HE**, Adibe OO. Management of vascular complications in pediatric port removal. *Clinical Pediatrics* (Submitted).

Appenteng R, Routh JC, Wechsler DS, Tracy ET, **Rice HE**. Surgical management of Wilms tumor. *Scientific American Urology* (Submitted).

Ezekian B, Englum B, Gilmore BF, Nag UP, Kim J, Leraas HJ, **Rice HE**, Tracy ET. Renal medullary carcinoma: A national analysis of 159 patients. *Cancer* (Submitted).

Kim J, Sun Z, Englum BR, Adibe OO, **Rice HE**, Salama AKS, Mosca PJ, Tracy ET. Wider excision margins do not improve survival in pediatric melanoma. *Annals of Surgery* (Submitted).

Englum BR, Speicher PJ, Ganapathi AM, Gulack BC, Castleberry AW, Driscoll TA, Kreissman SG, **Rice HE**. Complete resection of stage 4 neuroblastoma in the National Cancer Data Base: A propensity analysis. *Pediatric Blood and Cancer* (In preparation).

Silverberg BA, Roche S, Figueroa L, Boyd D, Hall-Clifford R, **Rice HE**. Parental experiences of barriers to pediatric surgery in Guatemala and policy recommendations to improve access. *International Health* (In preparation).

Gulack BC, Englum BR, Rialon KL, Bhattacharya SD, **Rice HE**, Adibe OO, Scarborough JE. Hepatic injury grade and mortality in blunt pediatric trauma. *Journal of Pediatric Surgery* (Submitted).

Wildman-Tobriner B, Cardona D, **Rice H**, Maxfield C. Congenital CMV presenting in a newborn as functional bowel obstruction. *Pediatric Radiology* (Submitted).

Leonard SB, Rothman J, Shah N, Thornburg CD, **Rice HE**. Current practice patterns for partial versus total splenectomy in children with congenital hemolytic anemia. *Pediatric Blood and Cancer* (In preparation).

Tew S, Gulack BC, Hernandez Diaz EM, Ross SS, **Rice HE**, Taicher BM. Implementation of a simplified universal protocol in Guatemala. *World Journal of Surgery* (In preparation).

Englum BR, Gulack BC, Rialon KL, Adibe OO, **Rice HE**, Routh JC, Tracy ET. Malignant pediatric tumors of the kidney: Not always Wilms' tumor. *Journal of Pediatric Surgery* (In preparation).

Englum BR, Gulack BC, Rialon KL, Kim J, Talbot LJ, Adibe OO, Routh JC, Tracy ET, **Rice HE**. Comparing oncologic outcomes after minimally invasive and open surgery for pediatric neuroblastoma and Wilms' tumor. *Journal of Pediatric Surgery* (In preparation).

2. Non-refereed publications: (Non-refereed publications are those that frequently solicit articles and do not routinely use a system of critical review prior to publication.)

1. **Rice HE**, Caty MG, Glick PL. Fluid therapy for the pediatric surgery patient. *Pediatric Clinics of North America*, 1998; 45(4):719-727.
2. Brown RL, Irish MS, **Rice HE**, Caty MG, Glick PL. Care of the surgical intensive nursery graduate: The primary care pediatrician's perspective. *Pediatric Clinics of North America*, 1998; 45(6):1327-1352.
3. **Rice HE**, Chuang E. Current management of pediatric inflammatory bowel disease. *Seminars in Pediatric Surgery*, 1999; 8(4):221-228.
4. Safford KM, **Rice HE**. Stem cell therapy for neurologic disorders: therapeutic potential of adipose-derived stem cells. *Current Drug Targets*, 2005; 6(1):57-62.
5. Tracy ET, **Rice HE**. Partial splenectomy for hereditary spherocytosis-What do we know, and what do we need to know? *US Hematology*, 2009; 2:9-12.

3. Major invited lectures (since November 1992)

1. Visiting Professor, National Institute for Pediatrics, Hanoi, Vietnam, 2001.
2. American Society of Pediatric Hematology/Oncology, Cincinnati, Ohio. "Partial splenectomy for hereditary spherocytosis: What we know, What we need to know", 2008.
3. PNA-NC Seminar; Asheville, NC. "Thymus transplantation for DiGeorge syndrome", 2008.

4. Guatemalan Association of Pediatrics, Guatemala City, 2014, “Outcomes of Spleen Surgery in Children.”
5. Guatemalan Association of Pediatric Surgeons, “Safety and Quality in Global Surgery,” Guatemala City, Nov 2015.

4. Chapters in books:

1. **Rice HE**, Cullen BF. Occupational hazards for trauma health care workers. In Stene JK, Grande CM (eds): *Trauma Anesthesia*. Baltimore, Williams & Wilkins, 1991.
2. **Rice HE**, Hedrick MH, Adzick NS, Harrison MR. Open fetal surgery. In Fisk NM, Moise KJ (eds): *Fetal Therapy: Invasive and Transplacental*. Cambridge: Cambridge University Press, 1995.
3. **Rice HE**. Fluids, electrolytes, & nutrition for the pediatric surgery patient. In Glick PL, Caty MG, Pearl RH, Irish MS (eds): *Pediatric Surgical Secrets*. Philadelphia: Hanley & Belfus, Inc., 2001.
4. **Rice HE**, Storms RW, Smith C, Flake AW. Hematopoietic stem cells: basic concepts and applications to surgical research. In Souba WW, Wilmore DW (eds): *Surgical Research*. San Diego: Academic Press, 2001.
5. **Rice HE**, Hernan L, Denk MJ, Azizkhan RG. Head and neck trauma. In Ziegler MM, Azizkhan RG, Weber TR (eds): *Operative Pediatric Surgery*. New York: McGraw-Hill, 2002.
6. Aust L, Cooper L, Devlin B, du Laney T, Foster S, Gimble JM, Guilak F, Halvorsen YDC, Hicok K, Kloster A, **Rice HE**, Sen A, Storms RW, Wilkinson WO. Adipose tissue-derived adult stem cells: Potential for cell therapy. In Burt, Marmont (eds): *Stem cell therapy for autoimmune disease: tolerance and tissue regeneration*. Chicago: Landes Biosciences, 2004.
7. **Rice HE**. Pediatric spleen surgery. In Oldham KT, Colombani PM, Foglia RP, Skinner MS (eds): *Surgery of Infants and Children*. Philadelphia: Lippincott Williams & Wilkins, 2005.
8. **Rice HE**. Pediatric neck trauma. In Oldham KT, Colombani PM, Foglia RP, Skinner MS (eds): *Surgery of Infants and Children*. Philadelphia: Lippincott Williams & Wilkins, 2005.
9. Hall JG, **Rice HE**. Long-term outcomes of splenectomy in children. In Stringer MD, Oldham KT, Mouriquand PDE (eds): *Pediatric Surgery and Urology: Long Term Outcomes*. Cambridge University Press, 2006
10. Safford KM, **Rice HE**. Culture of adipose-derived stem cells for neuronal differentiation. In Freshney RI, Stacey GN, Auerbach JM (eds): *Culture of Human Stem Cells*. Hoboken NJ: John Wiley & Sons, 2007.
11. **Rice HE**, Safford KM. Adipose-derived stem cells as a potential therapy for stroke. In Savitz SI, Rosenbaum DM (eds): *Stroke Recovery with Cellular Therapies*. Totowa NJ: Humana Press, Inc., 2007.
12. Danko ME, **Rice HE**. Disorders of the spleen. In Mattei P (ed): *Fundamentals of Pediatric Surgery*, New York: Springer, 2011.
13. Adibe O, Martin A, Maloney M, Schweitzer M, **Rice HE**. Surgical care of the NICU graduate. In Malcolm W (ed): *Beyond the NICU: Comprehensive Care of the High Risk Infant*. New York: Lange (In press).

5. Books:(Indicate authors or editor)

1. Pediatric Surgery Self-Assessment Program. Waldhausen J, Azarow K, Heiss K, Powell D, **Rice H**, Snyder C (eds). American Pediatric Surgery Association, 2009.

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) N/A**
 - b. **Selected abstracts**
 1. **Rice HE**, Smith CB. Effect of chlorpromazine on platelet alpha₂-adrenoreceptors in schizophrenic patients. *Federation Proceedings* (Abstract), 1984; 43, 4 #3236.
 2. Flake AW, Hedrick MH, **Rice HE**, Tavassoli M, Zanjani ED. Enhancement by stem cell factor of human cell engraftment and hematopoiesis in human/sheep hematopoietic chimeras. *Blood* (Abstract), 1992; 80 (Suppl 1), 150A, (1992).
 3. Hedrick MH, **Rice HE**, Zanjani ED, Johnson D, Flake AW, Harrison MR. Flow cytometry for the detection of hematopoietic chimerism after *in utero* hematopoietic stem cell transplantation: The swine into sheep model. *Cytometry* (Abstract), 1993; Suppl 6, 69.
 4. **Rice HE**, Hedrick MH, Zanjani ED, Harrison MR, Flake AW. Placental vessel catheterization: A new technique of chronic intravenous access in fetal sheep. *Surgical Forum* (Abstract), 1993; Vol XLIV: 524-526.
 5. Poranda CD, Moen R, Troutman L, Flake AW, **Rice HE**, Hedrick M, Anderson WF, Zanjani ED. *In vivo* gene transfer into fetal animals. *Blood* (Abstract), 1993; 82 (Suppl 1), 315A.
 6. Zanjani ED, Flake AW, **Rice HE**, Hedrick MH, Tavassoli M. An *in vivo* comparison of potential human donor hematopoietic stem cell (HSC) sources for bone marrow transplantation using the human/sheep xenograft model. *Blood* (Abstract), 1993; 82 (Suppl 1), 655A.
 7. Civin CI, Lee MJ, Hedrick M, **Rice HE**, Zanjani ED. Purified CD34+/Lineage-/CD38- cells contain hematopoietic stem cells. *Blood* (Abstract), 1993; 82 (Suppl 1), 180A.
 8. **Rice HE**, Flake AW, Emani VR, Hedrick MH, Knacek R, Zanjani ED, Harrison MR. *Ex vivo* expansion of hematopoietic stem cells from human fetal liver in an artificial capillary system. *Blood* (Abstract), 1993; 82 (Suppl 1), 18A.
 9. Mychaliska G, **Rice H**, Tarantal A, Stock P, Capper J, Garavoy M, Olson J, Cowan M, Harrison M. *In utero* hematopoietic stem cell transplants prolong survival of post-natal kidney transplantation in monkeys. *Surgical Forum* (Abstract), 1996; Vol XLVII.
 10. Safford K, Safford S, Storms R, Colvin OM, Smith C, **Rice HE**. Non-lethal conditioning for in utero HSC transplantation in mice. *Journal of the American College of Surgeons* (Abstract), 2000; 191(4):S44.
 11. Storms RW, Safford K, Trujillo AP, Colvin OM, **Rice H**, Smith C. Multilineage hematopoietic development from umbilical cord blood cells with high aldehyde dehydrogenase activity. *Blood* (Abstract), 2000; 96:127b.
 12. Safford SD, Hayward TB, Safford KM, **Rice H**, Skinner MA. A cost and outcome comparison of an integrated pediatric air and ground transportation system. *Surgical Forum* (Abstract), 2001; 53:445-447.
 13. Safford KM, Safford SD, **Rice HE**. In vivo engraftment and differentiation of murine adipose derived stromal cells. *Blood* (Abstract) 2002; 100 (11): 731a.
 14. Storms RW, Safford K, Colvin OM, **Rice H**, Smith CA. CD34+ cells that express aldehyde dehydrogenase are primitive hematopoietic progenitors. *Blood* (Abstract) 2002; 100 (11): 154b.
 15. Safford KM, Safford SD, Shetty AK, **Rice HE**. Characterization of neuronal/glial differentiation of murine adipose-derived adult stromal cells. *Blood* (Abstract), 2003; 102(9).

16. Hall JG, **Rice HE**, Skinner MA, Szabolcs P, Kurtzberg J. Splenectomy prior to umbilical cord blood (UCB) transplantation facilitates hematologic engraftment in pediatric and adult patients. *Blood* (Abstract), 2003 Nov; 102(9).
17. Hall JG, Crapnell K, Staba S, Kurtzberg J, **Rice H**. Isolation of oligodendrocyte precursors from umbilical cord blood for the repair of spinal cord injury. *Journal of the American College of Surgeons* (Abstract), 2004 Sept; 199(3):46.
18. Coursey CA, Hollingsworth CL, Gaca AM, Delong D, **Rice HE**, Bisset GS. Plain film predictors of operative intervention in neonates and infants with necrotizing enterocolitis. *Radiological Society of North America* (Abstract), 2008.

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

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

2001-2003 Consultant-Artecel Sciences, Inc., Durham, NC: Served as consultant for intellectual services for the use of human adipose tissue-derived stromal cells for tissue transplantation. This consultancy included support for the preparation and submission of grants, patents, and/or publications relating to this research. This work was performed in conjunction with a Material Transfer Agreement executed between Artecel Sciences, Inc. and Duke University.

Professional awards and special recognitions:

1981	Academic Scholarship, University of Michigan
1982	Student Research Fellowship, University of Michigan
1985-1988	Editor, <i>Yale Journal of Biology and Medicine</i>
1986	International Health Research Prize, Yale University School of Medicine
1988	Wilbur G. Downs Research Fellowship
1992	Society of University Surgeons/Ethicon Research Fellowship
1994	UCSF Resident Research Award
1997	James Barrett Brown Award, American Association of Plastic Surgeons
1999-2000	Owen H. Wangenstein, ACS Faculty Research Fellowship
2003	Listed in America's Top Surgeons, Consumers' Research Council of America

Organizations and participation: (Offices held, committee assignments, etc.)

2003 Member, National Register Who's Who, Executives and Professionals

Committees:

International

Ireland Health Section Research Board
2010 External Study Section Reviewer
Guatemalan Association of Pediatric Surgeons
2010-Present Consultant, Pediatric Surgery Fellowship Committee

National

American Board of Surgery

- 2010 Consultant, Pediatric Surgery Board
- 2010-2012 Associate Examiner, Pediatric Surgery Certifying Examination
- 2011 Associate Examiner, General Surgery Certifying Examination
- 2013-Present Senior Examiner, Pediatric Surgery Certifying Examination

American Pediatric Surgical Association

- 2006-Present Member, APSA CME Committee
- 2006-2008 Vice-Chair, APSA Education Committee
- 2008-2010 Chair, APSA Education Committee
- 2008-2010 Member, Pediatric Surgery Self-Assessment Project Committee

American Association of Pediatrics, Surgical Section

- 2014-Present Member, AAP Global Surgery Committee

American College of Surgeons

- 2004 Co-Chair, Postgraduate course in Pediatric Surgery, "Polyposis Syndromes"
- 2010 Co-Chair, Postgraduate course in Pediatric Surgery, "Risks of Radiation Exposure from Diagnostic Imaging: Implications for Our Patients and Their Surgeons"
- 2015-present Member, Facility Oncology Registry Data Standards (FORDS) Manual committee

American College of Radiology

- 2012-2016 Member, Panel on Appropriateness Criteria-Pediatric Imaging (APSA Representative)

National Cancer Data Bank, American College of Surgeons

- 2015-present Member, Pediatric Working Group

State

- 2008-2011 Member, North Carolina Medical Assistance Physician Advisory Board
- 2010-2011 Member, State Medical Assistance Team (SMAT), Duke Medical Center Chapter

Societies:

- 1998-2002 Society of University Surgeons
- 1998-Present American Pediatric Surgical Association (APSA)
- 1998-Present American College of Surgeons (#03018672)
- 2000-Present Children's Oncology Group
- 2002-2006 International Cell Transplant Society
- 2002-2007 Society for Neuroscience (#100031523)
- 2005-Present American Academy of Pediatrics (#1061724)
- 2008-Present International Society of Surgery (ISS)

Professional Publications Duties:

Editorial Board:

2009-Present *Journal of Blood Disorders & Transfusion*
2010-Present *ISRN Pediatrics*

Ad hoc reviewer:

1998-Present *Journal of Pediatric Surgery*
2000-Present *Stem Cells*
2000-Present *Stem Cells and Development*
2001-Present *Experimental Cell Research*
2001-Present *Tissue Engineering*
2002-Present *Aging Cell*
2004-Present *Annals of Surgery*
2006-Present *BMC Gastroenterology*
2008-Present *Journal of the American College of Surgeons*
2013-Present *Archives of Disease of Childhood*

Teaching responsibilities including continuing education:

- Co-Instructor, Duke University Global Health Institute, Fall 2016
GLHLTH 673: Global Surgical Care
Topic: General survey course on global nutrition problems, intervention strategies, and policies.
This course is open to advanced undergraduates and masters in global health students.
- Guest Lecturer, Duke University, Fall 2015, Fall 2016 GLHLTH 701: Global Health Challenges
Topic: Global Surgical Care
- Surgical resident teaching, Duke University Medical Center
1998-Present Responsible for surgical house staff education in pediatric surgery, including service orientation and publication of a service handbook.
- Instructor, American Trauma Life Support Course
1998-Present Duke University Medical Center
- Lecturer, Duke University School of Nursing, Nurse Practitioner Program
2000-Present “Neonatal Surgical Care”
- Lecturer, Duke University Annual Trauma Conference
2003 “Pediatric Trauma Care”
2004 “Sport injuries in children”
2009 “Pediatric Gun Shot Injuries: Options for Health Care Professionals”
- Lecturer, Duke University Summer Medical and Dental Education Program (SMDEP)
2006-Present “Medical School Admissions”

- Lecturer, Wake Area Health Education Center, Duke Children's Clinical Symposium
2008 "Herniology 101: Primer for Pediatricians"
- Lecturer, Duke University Medical Center, Division of Emergency Medicine
2009 "Does This Child Have Appendicitis?"
- Lecturer, National Association of Pediatric Nurse Practitioners, North Carolina State Meeting
2010 "Pediatric Surgical Emergencies"

Co-director, National Congress in Pediatric Surgery, Laparoscopy Training Course, Guatemala City
2015 "What's New in Minimally Invasive Surgery in Children?"

Resident and student research mentoring:

Basic science research mentoring:

- 2000-2003 Shawn Safford, MD, "Stem cell transplantation: Surgical models"
2008-2012 Lisa Tracy, MD, "Role of splenectomy in stem cell transplantation, partial splenectomy"
2010-2011 Michael Barfield, MD, "Immune assessment in partial splenectomy"

Clinical research mentoring:

- 2000-2003 Shawn Safford, MD, "Pyloric stenosis outcomes assessment"
2004-2005 Jennifer Aldrink, MD, "Partial splenectomy outcomes"
2005-2007 Wells Logan, MD (Neonatology Fellow), "CDH management review"
2007-2009 Diana Diesen, MD, "Partial splenectomy, blood transfusion assessment"
2008-2010 Lisa Tracy, MD, "Outcome of partial splenectomy in children with CHA"
2008-2010 Melissa Danko, MD, "Thermography in ELBW infants"
2012 Dave Bhattacharya, MD "Barriers to surgical care for children in Guatemala"
2013 Brian Englum, MD "Outcomes of children with neuroblastom"
2013 Brian Gulak, MD, "Rating of barriers to surgical care for children in Guatemala"
2013 Lyndsey Talbot, MD "Outcomes of pancreas trauma in children"
2014 Kristi Rialon, MD, "Renal cell cancer in children"
2015 Jina Kim, MD, "Outcomes in pediatric oncology"
2015 Anthony Saxton, BA (DGHI MSc-GH candidate), "Cost effectiveness of global pediatric surgical care."
2015 Megan Turner, MD, "Cost effectiveness of pediatric appendicitis care"
2015 Ben Kuo, BS (DGHI MSc-GH candidate and NUS medical student), "Simplified data analysis and modeling of National Surgical Quality Safety Initiative, Pediatrics"

Graduate Student Theses Committees:

- 2010-2011 Barbara Kassman, PhD candidate in Nursing, Duke University School of Nursing.
Member, Capstone Committee: "Phone follow-up in pediatric surgery"

- 2012-2013 Michelle Schweitzer, PhD candidate in Nursing, Duke University School of Nursing. Member, Capstone Committee: “Efficacy of educational programs for gastrostomy tube training”
- 2013-2014 Ben Silverberg, MD, (Master’s candidate in Global Health, Duke Global Health Institute and the Duke Graduate School). Chair of thesis committee: “Barriers to Surgical Care for Children in Guatemala: Interactions Between Traditional and Western Health Systems”
- 2016 Ben Kuo, BS (DGHI MSc-GH candidate and NUS medical student), “Simplified data analysis and modeling of National Surgical Quality Safety Initiative, Pediatrics”
- 2016 Joe Incorvia (DGHI MSc-GH candidate), “Discrete choice analysis of barriers to surgical care in Uganda”

Grand Rounds:

- 1998-Present Duke University Medical Center, Departments of Surgery and Pediatrics
“Fetal Surgery into the Millenium”
“Role of Partial Splenectomy in Hereditary Spherocytosis”
“Meckel’s diverticulum”
“Partial Splenectomy: Is Less Really More?”
- 2000 University of North Carolina, Chapel Hill
“Advances in Partial Splenectomy for Children”
- 2001 National Institute of Pediatrics, Hanoi
“Advances in Pediatric Trauma”
- 2006 St. Jude’s Medical Center, Memphis
“Partial Splenectomy for Congenital Hemolytic Anemias”
- 2009 Duke University Medical Center, Division of Hematology/Oncology
“Partial Splenectomy: Does it Really Work?”
- 2012 Moses Cone Hospitals, Greensboro, NC
“Partial Splenectomy: Does it Really Work?”
- 2013 Duke University Medical Center, Department of Pediatrics
“Pediatric Global Surgery Initiatives: Duke Guatemala Project”
- 2014 Moses Cone Hospitals, Greensboro, NC
“The Duke Pediatric Surgery/Urology Guatemala Project”
- 2014 Duke University Medical Center, Department of Surgery
“Challenges in Global Surgery: The Duke Pediatric Surgery/Urology Guatemala Project”

Areas of research interest (basic and applied) - list:

Global surgery, health system strengthening

- Direct the Duke Pediatric Surgery/Urology Guatemala Project, a comprehensive global health project in collaboration with Duke University, UNC-Chapel Hill, Mending Kids International, and the Moore Pediatric Surgical Center, Guatemala City
- Support ongoing clinical, research, and educational initiatives with Duke faculty and international staff in Guatemala
- Mentor surgical residents, master's students, and undergraduate students on challenges in global surgical care

Partial splenectomy for children with congenital hemolytic anemias

- Lead a multicenter clinical research consortium: SICHA (Splenectomy in Congenital Hemolytic Anemias)
- Study of clinical outcomes of partial splenectomy for children with congenital hemolytic anemias
- Laboratory analysis of immune outcomes of partial splenectomy
- Development of internet-based disease registry using REDCap platform
- Comparative effectiveness of different types of splenectomy
- Use of informatics and health IT enabled approaches for spleen surgery

Congenital diaphragmatic hernia management

- Development of evidence-based guidelines for CDH care
- Co-lead of clinical care and research team for CDH program
- Validation of clinical care protocol for CDH outcomes

Thermal imaging of extremely low birthweight infants

- Study of thermoregulation and necrotizing enterocolitis (NEC)
- Maturation of control of perfusion in ELBW infant
- Use of infrared thermal imaging of abdominal skin temperature in ELBW infants

External support:

PRESENT

Carl Storz Inc. Core Resource Equipment Grant Moore Pediatric Surgical Center, Guatemala Rice, PI \$20,000 (estimated value)	9/2015
Mending Kids International Training Observership in Pediatric Surgery Project Begin Date: 10/01/2015 Project End Date: 10/31/2015 \$10,000 Rice, PI	9/2015
Cook Medical Inc. Pediatric Minimally Invasive Surgery: What's New In Laparoscopy? Training Course in Guatemala	10/2015

Parent #: 3920278, BFR #: 6860207055, User Status: ADV, SPS#: 216365
Rice, PI 2% Effort
\$500

NICHD-NRN-0039, U10HD021364 1/2010-9/2015
ClinicalTrials.gov Identifier NCT01029353
Laparotomy vs. Drainage for Infants With Necrotizing Enterocolitis (NEST) Trial (Blakely, Director)
\$1,029,864
Rice, Sub-Investigator 2% Effort

PENDING

PAST

Owen H. Wangenstein, MD, FACS, Faculty Research Fellowship of the American College of Surgeons
***In Utero* Transplantation of Human Hematopoietic Stem Cells**
\$30,000
7/1/99 – 6/30/2001
Rice, PI 10% Effort

Children's Miracle Network Research Grant, Duke University Medical Center
***In Utero* Transplantation of Human Stem Cells into NOD/SCID Mice**
\$10,000 7/1/99 – 6/30/2001
Rice, PI 20% Effort

R43 HL069103 (Gimble, PI)
NIH SBIR Phase I
Hematopoietic Support by Adipose-Derived Cells
\$100,000 8/1/01 – 1/30/02
Rice, Consultant, 5% Effort

1 P01 HL067314-01A1 (Chao, PI)
NIH/NCI
Cord Blood Transplantation
\$1,673,493 12/01/01 - 11/30/05
Rice, Consultant, 5% Effort

Duke Translational Research Institute
Partial Splenectomy for Hereditary Spherocytosis (PaSHeS) Trial Pilot Data 8/2010-6/2011
Immune Monitoring Laboratory Core Support

\$20,000
Rice, PI 5% Effort

Carl Stortz Inc.
Core Resource Equipment Grant
Moore Pediatric Surgical Center, Guatemala
Rice, PI
\$300,000

9/2013

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

My clinical practice is one of general pediatric surgery, with an emphasis on treatment of congenital malformations, pediatric oncology, and thoracic and abdominal surgery. I have a research and clinical interest in the surgical management of congenital hemolytic anemias, including the role of partial splenectomy. My total time commitment to clinical activities is approximately 70%. I also am Chief of the Division of Pediatric Surgery, with administrative responsibilities for the staffing and supervision of this division of 3 faculty surgeons, 2 nurse practitioners, 1 administrative staff member, requiring approximately 15% of my time. My research efforts, including clinical and laboratory research, require approximately 15% of my time.

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

Duke University

2011-2013 Member, Academic Council

Duke University Medical Center

Departmental

2001-Present Member, Trauma Multidisciplinary Review Committee
2003-Present Director, Pediatric Trauma Services, Pediatric Intensive Care Unit
2007-Present Chief, Division of Pediatric Surgery
2007-Present Member, Clinical Operations and Finance Committee
2007-Present Member, Site Based Research Committee
2007-Present Member, Global Health Initiative Committee
2008-Present Member, Appointments, Promotion, and Tenure (APT) Committee
2014-Present Member, Promotions Task Force

Duke University Medical Center

2005 Member, Pediatric Emergency Medicine Chief Search Committee
2007 Member, Children's Patient Safety and Performance Improvement Board
2007 Member, Six Sigma Project Initiative
2007-2008 Member, Patient Flow Subcommittee
2008-Present Member, Children Clinical Services Cabinet
2008-Present Surgical Director, 7700 Clinical Unit
2008-Present Member, Duke Cancer Center
2015-present Surgical Director, Duke Hospital Newborn Intensive Care Unit

Duke University School of Medicine

- 2002-2007 Associate Member, Center for Biomedical and Tissue Engineering
- 2003-2012 Member, Admissions Committee
- 2012 Chair, Pediatric Chairman Review Committee
- 2013 Member, Pediatric Chairman Search Committee
- 2016 Member, Neonatology Chief Search Committee
- 2016 Member, Duke Global Health Institute Director Search Committee