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CURRICULUM VITAE

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**E-MAIL ADDRESS:**

**DATE OF BIRTH:**

**PLACE OF BIRTH:**

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**PERSONAL DATA:**

Home Address:

Home Phone Number:

Marital Status:

Spouse:

Number of children:

**Military Service:**

July 1975-June 1979	Health Professions Scholarship Program University of Nebraska Medical Center College of Medicine, Omaha, NE
July 1979-June 1983	Intern and Resident in Obstetrics and Gynecology Letterman Army Medical Center, Presidio of San Francisco, CA
July 1983-June 1986	Staff Obstetrician-Gynecologist, Irwin Army Community Hospital, Fort Riley, KS
July 1986-June 1988	Fellow in Maternal-Fetal Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA
July 1988 – June 1990	Staff Perinatologist, Tripler Army Medical Center, Honolulu, HI
December 1990 – March 1991	Staff Perinatologist, 97th General Hospital, Frankfurt, Germany Operation Desert Storm

Military Rank: Major, Medical Corps, United States Army  
Date of Rank: 10 October 1985

**EDUCATION:**

September 1971-June 1975	B.S. University of Nebraska-Lincoln
July 1975-June 1979	M.D. University of Nebraska Medical Center College of Medicine
July 1979-June 1980	Intern in Obstetrics and Gynecology, Letterman Army Medical Center, Presidio of San Francisco, CA

July 1980-June 1983	Resident in Obstetrics and Gynecology, Letterman Army Medical Center, Presidio of San Francisco, CA
July 1986-June 1988	Fellow in Maternal-Fetal Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA

**LICENSURE AND CERTIFICATION:**

State	1983 - Kansas (Inactive) 1986 - Pennsylvania (Inactive) 1990 - Tennessee MD020832 2009 - Texas N2965 2012 - Florida MEO111436
Specialty Boards	American Board of Obstetrics and Gynecology, 1985 Division of Maternal-Fetal Medicine of the American Board of Obstetrics and Gynecology, 1990

**ACADEMIC AND HOSPITAL APPOINTMENTS:**

1983-1986	Staff Obstetrician, Irwin Army Community Hospital, Fort Riley, KS
1983-1986	Director of Obstetrics, Irwin Army Community Hospital, Fort Riley, KS
1986-1988	Clinical Assistant Professor Hospital of the University of Pennsylvania, Philadelphia, PA
1989-1990	Chief of Maternal-Fetal Medicine, Tripler Army Medical Center, Honolulu, HI
1990-1999	Assistant Professor Obstetrics & Gynecology and Radiology Vanderbilt University Medical Center, Nashville, TN
1990-1997	Director of Obstetrical Ultrasound Vanderbilt University Medical Center, Nashville, TN
1990-2005	Consultant in Maternal-Fetal Medicine Baptist Hospital, Nashville, TN
1992-2005	Clinical Assistant Professor Department of Obstetrics and Gynecology Meharry Medical College, School of Medicine, Nashville, TN
1995-1998	Fellowship Program Director Maternal-Fetal Medicine Fellowship Program Vanderbilt University Medical Center, Nashville, TN
1997-2005	Director, Fetal Diagnosis & Therapy



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Vanderbilt University Medical Center, Nashville, TN

1999-2005      Tenured Associate Professor  
Obstetrics and Gynecology and Radiology  
Vanderbilt University Medical Center, Nashville, TN

2000-2005      Chief  
Fetal Medicine Section  
Division of Maternal-Fetal Medicine  
Vanderbilt University Medical Center, Nashville, TN

2004-2005      Clinical Associate Professor  
Nursing  
Vanderbilt University School of Nursing, Nashville, TN

2005-2008      Perinatologist  
The Perinatal Center  
Fort Sanders Regional Medical Center, Knoxville, TN

2006-2008      Ob/Gyn Quality Assurance Committee  
Fort Sanders Regional Medical Center, Knoxville, TN

2006-2008      Ethics Committee  
Fort Sanders Regional Medical Center, Knoxville, TN

2007-2008      Chairman, OB/GYN Quality Improvement Subcommittee  
Fort Sanders Regional Medical Center, Knoxville, TN

2007-2008      Vice Chief, Department of OB/GYN  
Fort Sanders Regional Medical Center, Knoxville, TN

2008            Chief, Department of OB/GYN  
Fort Sanders Regional Medical Center, Knoxville, TN

2009-Present    Perinatologist  
Odessa Regional Medical Center, Odessa, TX  
Midland Memorial Hospital, Midland, TX

2011 - Present    Perinatologist  
Southwest General Hospital, San Antonio, TX

**PROFESSIONAL ORGANIZATIONS:**

Fellow, The American College of Obstetricians and Gynecologists, 1987  
Diplomate, The American Board of Obstetrics and Gynecology, 1985  
Fellow, American Institute of Ultrasound in Medicine, 1981  
American Medical Association, 1984



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Founder, Association of Military Perinatologists of the United States, 1987  
Society for Maternal Fetal Medicine, 1988  
International Perinatal Doppler Society, 1988  
International Society of Ultrasound in Obstetrics and Gynecology, 1991  
Tennessee Medical Association, 1991  
Tennessee Perinatal Association, 1992  
National Perinatal Association, 1992  
International Fetal Medicine and Surgery Society, 1996  
Texas Medical Association, 2009

**PROFESSIONAL ACTIVITIES:**

Armed Forces District Army Section Chairman, Junior Fellows of the  
American College of Obstetricians and Gynecologists, 1985-1986  
Advisory Committee, Army Section, Association of Military  
Perinatologists of the United States, 1988-1991  
Advisory Committee, State of Hawaii, Department of Health, Maternal  
Serum Alpha Fetoprotein Screening Program, 1988-1990  
Perinatal Advisory Committee, Tennessee Department of Health, Subcommittee on Regionalization,  
Care Levels, Staffing, Facilities, and Professional Education, 1991-2005  
Proctor, American Board of Obstetrics and Gynecology, Written Examination, 1992-1995  
Examiner, American Board of Obstetrics and Gynecology, 1996-2005

**ACADEMIC OR PROFESSIONAL HONORS:**

American College of Obstetricians and Gynecologists, Armed Forces District Fellows Award, 1989  
Clayton-Zelenik Memorial Award, 1994  
The Best Doctors in America: Midwest Region, 1996-1997, 1998-1999, 2000-2001, 2002-2003, 2004-  
2005, 2006-2007  
Board of Directors, Julia Hereford Society, 1996-1997  
Speculum Award (Chief Residents' Award), 1998  
Honorary Chairman, March of Dimes Middle Tennessee Folic Acid Campaign, 1999  
OB/GYNs Who Have Made A Difference, OBG Management, November 1999  
Alpha Omega Alpha (AOA) Honor Medical Society (University of Nebraska Medical Center College  
of Medicine, Alumnus), 2000  
Ernest W. Goodpasture Award (for collaborative research), 2001

**TEACHING ACTIVITIES:**

Examiner, American Board of Obstetrics and Gynecology, 1996-2005  
  
Judge, Vanderbilt University Hospital  
Research Forum, 1994-1999

Director, Scientific Forum on Fetal Surgery  
Society of Maternal Fetal Medicine, 2000-2005

**OTHER PROFESSIONAL ACTIVITIES:**

SCIENTIFIC REVIEWER FOR JOURNALS:

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American Journal of Obstetrics and Gynecology  
Obstetrics and Gynecology  
Pediatrics  
British Journal of Obstetrics and Gynaecology  
Fetal Diagnosis and Therapy  
Ultrasound in Obstetrics & Gynecology  
American Journal of Perinatology  
The Journal of Maternal-Fetal & Neonatal Medicine  
Circulation  
Lasers in Surgery and Medicine  
Southern Medical Journal  
Pediatric Research  
European Journal of Obstetrics & Gynecology and Reproductive Biology  
Experimental Neurology

## PUBLICATIONS AND PRESENTATIONS:

### Articles in refereed journals

1. Bruner JP, Barry MJ, Elliott JP. Pregnancy in a patient with idiopathic long QT syndrome. *Am J Obstet Gynecol* 149:690, 1984.
2. Bruner JP, Elliott JP, Kilbride HW, Garite TS, Knox EG, Evans AT III. Candida chorioamnionitis diagnosed by amniocentesis with subsequent fetal infection. *Am J Perinatol* 3:213, 1986.
3. Bruner JP, Landon MB, Gabbe SG. Diabetes mellitus and Graves' disease in pregnancy complicated by maternal allergies to antithyroid medication. *Obstet Gynecol* 72:443, 1988.
4. Landon MB, Gabbe SG, Bruner JP, Ludmir J. Doppler umbilical artery velocimetry in pregnancy complicated by insulin-dependent diabetes mellitus. *Obstet Gynecol* 73:961, 1989.
5. Bruner JP, Gabbe SG. Effect of amniotomy on uteroplacental and fetoplacental flow velocity waveforms. *Am J Perinatol* 6:421, 1989.
6. Bruner JP, Yeast JB. Pregnancy associated with Friedreich ataxia. *Obstet Gynecol* 76:976, 1990.
7. Bruner JP, Hsia YE. Prenatal findings in Brachmann-de Lange syndrome. *Obstet Gynecol* 76:966, 1990.
8. Sarno AP, Bruner JP. Fetal acoustic stimulation as a possible adjunct to diagnostic obstetric ultrasound: A preliminary report. *Obstet Gynecol* 76:668, 1990.
9. Sarno AP, Bruner JP, Southgate WM. Congenital chyloperitoneum as a cause of isolated fetal ascites. *Obstet Gynecol* 76:955, 1990.



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10. Boiskin I, Bruner JP, Jeanty P. Lung, extralobar intrathoracic sequestration, torsion. *The Fetus* 1:7485, 1991.
11. Bruner JP, Forouzan I. The acute effect of smoking and buccally-administered nicotine on uterine and umbilical artery Doppler flow velocity waveforms. *J Reprod Med* 36:435, 1991.
12. Fedrizzi R, Bruner J, Jeanty P. Polyspenia syndrome. *The Fetus* 2:3, 1992.
13. Bruner J. Reply to Miller JM, Gabert HA: Comparison of dynamic image and pulsed Doppler ultrasonography for the diagnosis of the small-for-gestational-age fetus. *Am J Obstet Gynecol* 166:1825, 1992.
14. Worrell JA, Bruner JP, O'Donnell DM, Carroll FE. Chest case of the day: Pulmonary edema associated with tocolytic therapy. *AJR* 158:1356, 1992.
15. Bruner JP, Gabbe SG, Levy DW, Arger PH. Doppler ultrasonography of the umbilical cord in normal pregnancy. *Southern Med J* 86:52, 1993.
16. Bruner JP, Levy DW, Arger PH. Doppler ultrasonography of the umbilical cord in complicated pregnancies. *Southern Med J* 86:418, 1993.
17. Bruner JP, Reed GW, Sarno AP, Harrington RA, Goodman MA. Intra- and inter-observer variability of the amniotic fluid index. *Am J Obstet Gynecol* 168:1309, 1993.
18. Bruner JP, Rosemond RL. Twin-to-twin transfusion syndrome: A subset of the twin oligohydramnios/polyhydramnios sequence (TOPS). *Am J Obstet Gynecol* 169:925, 1993.
19. Copeland ML, Bruner JP, Richards WO, Sundell HW, Tulipan NB. A model for *in utero* endoscopic treatment of myelomeningocele. *Neurosurgery* 33:542, 1993.
20. Bruner JP, Zaner RM. Anencephalics as organ donors. *The Fetus* 4 (2):23, 1994.
21. Kang AH, Bruner JP. Cephalocele, anterior fontanelle. *The Fetus* 4(4):5, 1994.
22. Bruner JP, Sheppard CG, Reed GW, Boehm FH. The umbilical artery Doppler ultrasonographic gradient: Confirmation, cause, and comparison of continuous-wave and duplex ultrasonographic pulsed-wave measurements. *J Perinatol* XIV:386, 1994.
23. Bruner JP, Forouzan I, Gabbe SG. Effect of intravenous tocolytics on uteroplacental and fetoplacental Doppler flow velocity waveforms. *J Mat-Fet Med* 3:258, 1994.
24. Chen B, Hall JB, Bruner JP. Intraperitoneal foreign body as a cause of acute abdomen in pregnancy. *Am J Perinatol* 12:100, 1995.
25. Bruner JP, Coggins T. Assessment of fetal breathing movements using three different ultrasound modalities. *J Clin Ultrasound* 23:551, 1995.
26. Mandel RI, Bruner JP. Endocardial fibroelastosis: An unusual cause of pulmonary hypertension in pregnancy. *Am J Perinatol* 12:319, 1995.



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27. Fox DB, Bruner JP, Fleischer AC. Amplitude-based color Doppler sonography of a fetus with a sacrococcygeal teratoma. *J Ultrasound Med* 15:785, 1996.
28. Papa T, Dao A, Bruner JP. Pathognomonic sign of twin reversed arterial perfusion using color Doppler sonography. *J Ultrasound Med* 16:501-3, 1997.
29. Bruner JP, Bruner TA, Sarno AP. Long-term intravenous tocolytic therapy. *Military Medicine* 8:555-9, 1997.
30. Bruner JP, Dellinger EH. Antenatal diagnosis and treatment of fetal hypothyroidism: A report of two cases. *Fetal Diagn Ther* 12:200-4, 1997.
31. Drewek MJ, Bruner JP, Whetsell WO, Tulipan N. Quantitative analysis of the toxicity of human amniotic fluid to cultured rat spinal cord. *Pediatr Neurosurg* 27: 190-3, 1997.
32. Bruner JP, Anderson TL, Rosemond RL. Placental pathophysiology of the twin oligohydramnios-polyhydramnios sequence and the twin-twin transfusion syndrome. *Placenta* 19:81-6, 1998.
33. Bruner JP, Drummond SB, Meenan AL, Gaskin IM. All-fours maneuver for reducing shoulder dystocia during labor. *J Reprod Med* 43: 439-43, 1998.
34. Kang AH, Bruner JP. Antenatal ultrasonographic development of ureterocele. *Fetal Diagn Ther* 13: 157-61, 1998.
35. Tulipan N, Bruner JP. Myelomeningocele repair in utero: A report of three cases. *Pediatr Neurosurg* 28: 177-80, 1998.
36. Garcia AM, Morgan WM III, Bruner JP. In utero decompression of a cystic grade IV sacrococcygeal teratoma. *Fetal Diagn Ther* 13: 305-8, 1998.
37. Tulipan N, Schulman M, Bruner JP. Reduced hindbrain herniation after intrauterine myelomeningocele repair: A report of four cases. *Pediatr Neurosurg* 29: 274-8, 1998.
38. Bruner JP, Drummond SB, Meenan AL, Gaskin IM. All-fours maneuver for reducing shoulder dystocia during labor. *Obstet & Gynecol Surv* 54: 17-8, 1999.
39. Bruner JP, Richards WO, Tulipan NB, Arney TL. Endoscopic coverage of fetal myelomeningocele in utero. *Am J Obstet Gynecol* 180: 153-8, 1999.
40. Bruner JP, Crean DM. Equalization of amniotic fluid volumes after amniocentesis for treatment of the twin oligohydramnios - polyhydramnios sequence. *Fetal Diagn Ther* 14: 80-5, 1999.
41. Silva SR, Bruner JP. Prenatal diagnosis of Ebstein's anomaly associated with Down's syndrome. *Fetal Diagn Ther* 14: 149-51, 1999.
42. Bruner JP, Boehm FH, Tulipan N. The Tulipan-Bruner trocar for uterine entry during fetal surgery. *Am J Obstet Gynecol* 181: 1188-91, 1999.

43. Bruner JP, Wheeler TC, Bliton MJ. Sectio parva for fetal preservation. *Fetal Diagn Ther* 14: 254-6, 1999.
44. Bruner JP, Tulipan N, Paschall RL, Boehm FH, Walsh WF, Silva SR, Hernanz-Schulman M, Lowe LH, Reed GW. Fetal surgery for myelomeningocele and the incidence of shunt-dependent hydrocephalus. *JAMA* 282: 1819-25, 1999.
45. Tulipan N, Hernanz-Schulman M, Bruner JP. Intrauterine myelomeningocele repair reverses preexisting hindbrain herniation. *Pediatr Neurosurg* 31: 137-42, 1999.
46. Tulipan N, Bruner JP, Hernanz-Schulman M, Lowe LH, Walsh WF, Nickolaus D, Oakes WJ. The effect of intrauterine myelomeningocele repair on central nervous system structure and neurologic function. *Pediatr Neurosurg* 31: 183-188, 1999.
47. Bruner JP, Tulipan N, Richards WO, Walsh WF, Boehm FH, Vrabcak EK. In utero repair of myelomeningocele: A comparison of endoscopy and hysterotomy. *Fetal Diagn Ther* 15: 83-88, 2000.
48. Walsh WF, Bruner JP, Tulipan N. Neonatal outcome of the first 50 infants treated with in utero repair of spina bifida. *Ped Res Vol* 47, Part2, 439A, May 2000.
49. Mangels KJ, Tulipan N, Bruner JP, Nickolaus D. Use of bipedicular advancement flaps for intrauterine closure of myeloschisis: Technical report. *Pediatr Neurosurg* 32: 52-56, 2000.
50. Mangels KJ, Tulipan N, Tsao LY, Alarcon J, Bruner JP. Fetal MRI in the evaluation of intrauterine myelomeningocele. *Pediatr Neurosurg* 32:124-31, 2000.
51. Holzbeierlein J, Pope JC IV, Adams MC, Bruner J, Tulipan N, Brock JW 3rd. The urodynamic profile of myelodysplasia in childhood with spinal closure during gestation. *J Urol* 164:1336-1339, 2000.
52. Bruner JP, Jarnagin BK, Reinisch L. Percutaneous laser ablation of fetal congenital cystic adenomatoid malformation: Too little, too late? *Fetal Diagn Ther* 15:359-363, 2000.
53. Carroll BC, Bruner JP. Umbilical artery Doppler velocimetry in pregnancies complicated by oligohydramnios. *J Reprod Med* 45:562-566, 2000.
54. Drummond SB, Bruner JP, Reed GW. Management of shoulder dystocia. *Tennessee Medicine* 93:331-3, 2000
55. Hamdan AH, Walsh W, Heddings A, Bruner JP, Tulipan N. Gestational age at intrauterine myelomeningocele repair does not influence the risk of prematurity. *Fetal Diagn Ther* 17:66-68, 2002.
56. Aaronson OS, Tulipan NB, Cywes R, Sundell HW, Davis GH, Bruner JP, Richards WO. Robot-assisted endoscopic intrauterine myelomeningocele repair: A feasibility study. *Pediatr Neurosurg* 36:85-89, 2002.



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57. Tubbs RS, Chambers MR, Smyth MD, Bartolucci AA, Bruner JP, Tulipan N, Oakes WJ. Late gestational intrauterine myelomeningocele repair does not improve lower extremity function. *Pediatr Neurosurg* 38:128-32, 2003.
58. Aaronson OS, Hernanz-Schulman M, Bruner JP, Reed GW, Tulipan NB. Prenatal evaluation of myelomeningocele: A comparison between transabdominal ultrasonography and magnetic resonance imaging. *Radiology* 227:839-43, 2003.
59. Hamdan AH, Walsh W, Bruner JP, Tulipan N. Intrauterine myelomeningocele repair: Effect on short-term complications of prematurity. *Fet Diagn Ther* 19:83-6, 2004.
60. Bruner JP, Tulipan N, Reed G, Davis GH, Bennett K, Luker KS, Dabrowiak ME. Intrauterine repair of spina bifida: Preoperative predictors of shunt-dependent hydrocephalus. *Am J Obstet Gynecol* 190:1305-12, 2004.
61. Davis GH, Haney KC, Bruner JP, Tulipan N, Hernanz-Schulman M, Luker KS, Dabrowiak ME, Reed G. Antenatal evaluation of fetal hindbrain herniation: MRI vs ultrasound. *Ultrasound in Obstetrics and Gynecology*, In press.
62. Bruner JP, Tulipan N, Dabrowiak ME, Luker KS, Walters K, Burns P, Reed G. Upper level of the spina bifida defect – How good are we? *Ultrasound in Obstetrics and Gynecology* 24:612-17, 2004.
63. Nick AM, Bruner JP, Moses R, Yang EY, Scott TA. Second trimester intra-abdominal bowel dilation in fetuses with gastroschisis predicts neonatal atresia. *Ultrasound in Obstetrics and Gynecology*, In press.
64. Bruner JP, Davis G, Tulipan N. Intrauterine shunt for obstructive hydrocephalus – Still not ready. *Fet Diagn Ther* 21:532-9, 2006.

**Books, book chapters, invited review articles**

1. Worrell JA, Fleischer AC, Bruner JP. High risk pregnancies benefit from Doppler. *Diagnostic Imaging*, November 1990, 164.
2. Bruner JP. Routine C/S for macrosomic fetuses. *Contemp OB/GYN* 36:55, 1991.
3. Bruner JP. Cordocentesis: A new obstetric technique. *Tennessee Perinatal Association Newsletter* 1:4, 1991.
4. Bruner JP, Dellinger EH. Five common indications for fetal cordocentesis. *Neonatal Monitor* 9:2, 1994.
5. Bruner JP, ed. *Endocrinology of Pregnancy. Infertility and Reproductive Medicine Clinics of North America* 5(4), 1994.
6. Wright PF, Bruner JP. Lactation. In: Bruner JP, ed. *Endocrinology of Pregnancy. Infertility and Reproductive Medicine Clinics of North America* 5:801, 1994.



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7. Fleischer AC, Goldstein RB, Bruner JP, Worrell JA. Doppler Sonography in Obstetrics and Gynecology. In: Callen PW, ed. Ultrasonography in Obstetrics and Gynecology, Third Edition. Philadelphia: W.B. Saunders Company, 1994.
8. Glass CA, Bruner JP. Postpartum Depression. In: Rivlin ME, Martin RW, ed. Manual of Clinical Problems in Obstetrics and Gynecology, Fifth Edition. Philadelphia, Lippincott Williams & Wilkins, 2000.
9. Bruner JP, Glass CA. Genetic Counseling. In: Rivlin ME, Martin RW, ed. Manual of Clinical Problems in Obstetrics and Gynecology, Fifth Edition. Philadelphia, Lippincott Williams & Wilkins, 2000.
10. Bruner JP, Fleischer AC, Jeanty P, Boehm FH. Sonography of Nonimmune Hydrops Fetalis. In: Fleischer AC, Manning FA, Jeanty P, Romero R, ed. Sonography in Obstetrics and Gynecology: Principles and Practice, Fifth Edition. Stamford: Appleton & Lange, 1996.
11. Bruner JP. Fetal surgery. In: Sutton C, Diamond M, ed. Endoscopic Surgery for Gynecologists, Second Edition. Philadelphia: WB Saunders Company Limited, 1998.
12. Bruner JP, Kang AH, Silva SR. Selected technologies in obstetrics: Doppler, cordocentesis, targeted sonography, analysis of fetal cells in maternal circulation for prenatal diagnosis. In: Seifer DB, Samuels P, Kniss DA, ed. The Physiological Basis of Gynecology and Obstetrics. Baltimore: Lippincott Williams & Wilkins, 2001.
13. Tulipan N, Bruner JP. Intrauterine myelomeningocele repair. In: Harrison MR, ed. The Unborn Patient: The Art and Science of Fetal Therapy, Third Edition. Philadelphia: W.B. Saunders Company, 2001.
14. Tulipan N, Bruner JP. Intrauterine myelomeningocele repair. In: McLone DG, ed. Pediatric Neurosurgery, Fourth Edition. Philadelphia: W.B. Saunders Company, 2001.
15. Bruner JP, Tulipan N, Davis GH. Open fetal surgery for nonlethal malformations. In: Johnson A, ed. Infertility and Reproductive Medicine Clinics of North America. Philadelphia: W.B. Saunders Company, October 2001.
16. Bruner JP. Fetal surgery. In: Rock JA, Jones HW, III, ED. TeLinde's Operative Gynecology, Ninth Edition. Philadelphia: Lippincott Williams & Wilkins, 2003.
17. Bruner JP, ed. Maternal-Fetal Surgery. Clinics in Perinatology 30 (3), 2003.
18. Bruner JP. In their footsteps: A brief history of maternal fetal surgery. In: Bruner JP, ed. Clinics in Perinatology 5:439, 2003.
19. Luton D, Guibourdenche J, Vuillard E, Bruner JP, de Lagausie P. Prenatal management of gastroschisis: The place of the amnioexchange procedure. In: Bruner JP, ed. Clinics in Perinatology 5:551, 2003.
20. Bruner JP, Tulipan N, Dabrowiak ME, Luker KS, Walters K, Burns P, Reed G. Upper level of the spina bifida defect: How good are we? Obstet and Gynecol Survey 2005; 60:214-5.

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21. Bruner JP. Intrauterine repair of spina bifida. In: Isfer E, ed. The Fetus. In Press.
22. Bruner JP. Fetal Therapeutics. In: Bruner JP, ed. Clinical Obstetrics and Gynecology 48:884, 2005.
23. Bruner JP, Tulipan N. Intrauterine repair of spina bifida. In: Bruner JP, ed. Clinical Obstetrics and Gynecology 48:942, 2005.
24. Saada J, Oury JF, Vuillard E, Guibordenche J, de Lagausie P, Sterkers G, Bruner JP, Luton D. Gastroschisis. In: Bruner JP, ed. Clinical Obstetrics and Gynecology 48:964, 2005.
25. Bruner JP. Intrauterine surgical techniques. In: Webster JG, ed. Wiley Encyclopedia of Medical Devices & Instrumentation 4:171. Hoboken: John Wiley & Sons, Inc., 2006.
26. Bruner JP, Tulipan N, Reed G, Davis GH, Bennett K, Luker KS, Dabrowiak ME. Intrauterine repair of spina bifida: Preoperative predictors of shunt-dependent hydrocephalus. 2005 Year Book of Neonatal and Perinatal Medicine. In Press.
27. Bruner J. Maternal-fetal surgery. In: Emami M, Weston D, eds. Swollen Ankles & Blowfish Kisses. New York: iUniverse, Inc., 2005.
28. Bennett KA, Davis GH, Tulipan N, Bruner JP. Fetal surgery for myelomeningocele. In: Wyszynski DF, ed. Neural Tube Defects. New York: Oxford University Press, 2006.
29. Bruner JP, Paschall RL. Cirugia fetal abierta. In: Gratacos E, Gomez R, Nicolaides K, Romero R, Cabero L, eds. Medicina Fetal. Madrid: Medica Panamerica, 2007.
30. Bruner JP. Intrauterine surgery in myelomeningocele. In: Ville Y, ed. Seminars in Fetal & Neonatal Medicine 12:471, 2007.

**Letters to editor, book reviews, editorials**

1. Letterie GS, Bruner JP, Sarno AP. A convenient method to identify prior surgical procedures (letter). Am J Obstet Gynecol 163:1100, 1990.
2. Bruner JP, Tulipan NP, Richards WO. Endoscopic coverage of fetal open myelomeningocele in utero (letter). Am J Obstet Gynecol 176:256-7, 1997.
3. Bruner JP. Resolving shoulder dystocia (letter). J Reprod Med 43:922-4, 1998.
4. Bruner JP. Management of shoulder dystocia (letter). OBG Management November, 1998, pp. 11-15.
5. Tulipan N, Bruner JP. Correspondence: Successful surgery for spina bifida (letter). Lancet 353: 1999.
6. Bruner JP. Tell the truth about spina bifida (invited editorial). Ultrasound in Obstetrics and Gynecology 24:595-6, 2005.



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**Abstracts:**

1. Bruner JP, Barry MJ, Elliott JP. Pregnancy in a patient with idiopathic long QT syndrome. 22nd Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Las Vegas, NV, October 1983.
2. Bruner JP, Elliott JP, Kilbride HW, Garite TS, Knox EG, Evans AT III. Candida chorioamnionitis diagnosed by amniocentesis with subsequent fetal infection. 22nd Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Las Vegas, NV, October 1983.
3. Bruner JP, Mennuti MT. Unexplained elevated values of maternal serum alpha fetoprotein. 7th Annual Conference on Military Perinatal Research, Aspen, CO, August 1987.
4. Bruner JP, Landon MB, Gabbe SG, Ludmir J. Doppler ultrasonography in pregnant diabetics with vasculopathy. 7th Annual Conference on Military Perinatal Research, Aspen, CO, August 1987.
5. Bruner JP, Levy DW, Arger PH, Gabbe SG. Doppler ultrasonography of the umbilical cord in normal pregnancies. 26th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Denver, CO, October 1987.
6. Bruner JP, Forouzan I, Bonds DR, Mennuti MT. Effect of ritodrine hydrochloride on arcuate and umbilical artery flow velocity waveforms. 26th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Denver, CO, October 1987.
7. Merlin KS, Catuogno SC, Bruner JP, Wheeler JE, Gabbe SG. Ultrasonic and histologic correlation in a case of "Vanishing Twin". 26th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Denver, CO, October 1987.
8. Bruner JP, Merlin KS, Gabbe SG. Acute fatty liver in pregnancy: A case report. 26th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Denver, CO, October 1987.
9. Bruner JP, Landon MB, Gabbe SG. An unusual case of insulin-dependent diabetes and Graves disease in pregnancy. 26th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Denver, CO, October 1987.
10. Bruner JP, Gabbe SG. A review of pregnancy associated with Friedreich's ataxia. 26th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Denver, CO, October 1987.
11. Bruner JP, Robertson AW. Maternal Fetal Medicine Review. 26th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Denver, CO, October 1987.
12. Bruner JP, Gabbe SG. Effect of amniotomy on uteroplacental and fetoplacental flow velocity waveforms. 26th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Denver, CO, October 1987.



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13. Levy DW, Bruner JP, Arger PH, Coleman BG, Mintz MC, Grumbach K. Prospective Doppler evaluation of umbilical artery waveforms in presumed abnormal pregnancies. 73rd Scientific Assembly of the Radiological Society of North America, Chicago, IL, November 1987.
14. Bruner JP, Ludmir J, Gabbe SG, Landon MB. Doppler ultrasonography in pregnancies complicated by insulin-dependent diabetes mellitus and vasculopathy. 36th Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, Boston, MA, May 1988.
15. Bruner JP, Forouzan I. The acute effect of smoking and buccally-administered nicotine on uterine and umbilical artery Doppler flow velocity waveforms. First Congress of the International Perinatal Doppler Society, Kansas City, MO, May 1988.
16. Bruner JP, Forouzan I, Bonds DR, Mennuti MT. Effect of ritodrine hydrochloride and magnesium sulfate on arcuate and umbilical artery flow velocity waveforms. First Congress of the International Perinatal Doppler Society, Kansas City, MO, May 1988.
17. Bruner JP. Continuous instantaneous assessment of the adequacy of fetal cerebrovascular perfusion by means of transvaginal continuous wave Doppler ultrasonography of the fetal anterior cerebral arteries through the anterior fontanelle. 8th Annual Conference on Military Perinatal Research, Aspen, CO, July 1988.
18. Bruner JP, Cheek T, Forouzan I, Samuels P. Effect of epidural anesthesia for repeat cesarean section on umbilical and arcuate artery flow velocity waveforms. 27th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, San Antonio, TX, November 1988.
19. Bruner JP, Forouzan I. Effect of intravenous magnesium sulfate on umbilical and arcuate artery flow velocity waveforms. 27th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, San Antonio, TX, November 1988.
20. Bruner JP, Hume R, Maslow A. Changing patterns of obstetric practice in tertiary care medical centers in the United States military: 1982-1987. 27th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, San Antonio, TX, November 1988.
21. Bruner JP, Levy DW, Arger PH, Bonds DR, Mennuti MT. Doppler ultrasonography of the umbilical cord in complicated pregnancies. 27th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, San Antonio, TX, November 1988.
22. Bruner JP, Menard MK, Samuels P, Herman C. Perinatal effects of acute cocaine abuse in pregnancy. 27th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, San Antonio, TX, November 1988.
23. Bruner JP, Yeomans E. Maternal Fetal Medicine Review. 27th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, San Antonio, TX, November 1988.



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24. Bruner JP, Kopelman JN. Prenatal findings in de Lange syndrome. 28th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Washington, DC, November 1989.
25. Bruner JP, Kopelman JN. Early prenatal diagnosis. 28th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Washington, DC, November 1989.
26. Bruner JP, Kopelman JN. Maternal Fetal Medicine Review. 28th Annual Meeting of the Armed Forces District of the American College of Obstetricians and Gynecologists, Washington, DC, November 1989.
27. Bruner J, Harrington A, Goodman M, Sarno A. Intra- and inter-observer variability of the amniotic fluid index. 12th Annual Meeting of the Society of Perinatal Obstetricians, Orlando, FL, February 1992.
28. Bruner J, Bruner A, Sarno A. Long-term intravenous tocolytic therapy. 12th Annual Meeting of the Society of Perinatal Obstetricians, Orlando, FL, February 1992.
29. Bruner JP, Sheppard CG. Comparison of continuous wave and duplex pulsed wave Doppler ultrasound measurements of the umbilical artery S/D ratio. 36th Annual Convention of American Institute of Ultrasound in Medicine, San Diego, CA, March 1992.
30. Salyer S, Bruner JP. Merging Medical and Nursing Research. National Perinatal Association, Orlando, FL, November 1992.
31. Bruner JP, Rosemond RL. Twin-to-twin transfusion syndrome: A subset of the twin oligohydramnios/polyhydramnios sequence (TOPS). 13th Annual Meeting of the Society of Perinatal Obstetricians, San Francisco, CA, February 1993.
32. Bruner JP, Rosemond RL. Twin-to-twin transfusion syndrome: A subset of the twin oligohydramnios/polyhydramnios sequence (TOPS). 37th Annual Convention of American Institute of Ultrasound in Medicine, Honolulu, HI, March 1993.
33. Murphy-Tate K, Bruner JP. A formal program for ultrasound training of OB/GYN residents. CREOG and APGO 1994 Annual Meeting, Nashville, TN, March 1994.
34. Bruner JP, Anderson TL, Rosemond RL. Placental pathophysiology of the twin oligohydramnios-polyhydramnios sequence and twin-to-twin transfusion. 15th Annual Meeting of the Society of Perinatal Obstetricians. Atlanta, GA, January 1995.
35. Bruner J, Anderson T. Management of the twin oligohydramnios - polyhydramnios sequence and twin - to - twin transfusion. 16th Annual Meeting of the Society of Perinatal Obstetricians. Honolulu, HI, February 1996.
36. Bruner J, Tulipan N, Richards W. Endoscopic repair of fetal spina bifida in utero. 16th Annual Meeting of the Society of Perinatal Obstetricians. Honolulu, HI, February 1996.
37. Bruner JP, Anderson TL, Rosemond RL. Placental pathophysiology of the twin oligohydramnios-polyhydramnios sequence and twin-to-twin transfusion. 40th Annual



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Convention of the American Institute of Ultrasound in Medicine. New York, N.Y., March 1996.

1. Carroll BC, Bruner JP. Umbilical artery Doppler as a predictor of perinatal outcome in pregnancies complicated by oligohydramnios. 7th Congress of the International Society of Ultrasound in Obstetrics and Gynecology. Washington, D.C., October 1997.
39. Carroll BC, Bruner JP. Umbilical artery Doppler as a predictor of perinatal outcome in pregnancies complicated by oligohydramnios. 18th Annual Meeting of the Society of Perinatal Obstetricians, Miami Beach, FL, February 1998.
40. Bruner J, Tulipan N, Walsh W, Arney T, Zaner R, Vrabcak E. Primary closure of myelomeningocele in utero. 18th Annual Meeting of the Society of Perinatal Obstetricians, Miami Beach, FL, February 1998.
41. Tulipan N, Bruner JP. Myelomeningocele repair in utero: A report of three cases. Diagnosis and Treatment of the Unborn Child Symposium, Tempe, AZ, March 1998.
42. Tulipan N, Schulman M, Bruner JP. Intrauterine myelomeningocele repair: Its effect on the Chiari malformation. 27th Annual Meeting of The American Association of Neurological Surgeons and Congress of Neurological Surgeons, Indianapolis, IN, December, 1998.
43. Bruner JP, Walsh WF, Boehm FH, Paschall RL, Reed GW, Silva SR, Vrabcak EK, Tulipan N. Open fetal repair of myelomeningocele improves neurologic outcome in the neonate. 19th Annual Meeting of the Society of Perinatal Obstetricians, San Francisco, CA, January 1999.
44. Bruner JP, Boehm FH, Tulipan N. The Tulipan-Bruner trocar for initial uterine entry during performance of hysterotomy. 19th Annual Meeting of the Society of Perinatal Obstetricians, San Francisco, CA, January, 1999.
45. Tulipan N, Hernanz-Schulman M, Bruner JP. Intrauterine myelomeningocele repair reverses preexisting hindbrain herniation. 4<sup>th</sup> World Congress of Perinatal Medicine, Buenos Aires, Argentina, April, 1999.
46. Bruner JP, Tulipan N. Intrauterine repair of myelomeningocele decreases the incidence of shunt-dependent hydrocephalus. 4<sup>th</sup> World Congress of Perinatal Medicine, Buenos Aires, Argentina, April, 1999.
47. Bruner JP, Bliton MJ. Ethical guidelines for open fetal surgery for repair of nonlethal fetal malformations. 4<sup>th</sup> World Congress of Perinatal Medicine, Buenos Aires, Argentina, April, 1999.
48. Bruner J, Tulipan N, Reed G, Boehm F, Townsend N, Hazra A, Duley C. Maternal risks of open fetal surgery for nonlethal malformations. 20<sup>th</sup> Annual Meeting of the Society for Maternal-Fetal Medicine, Miami Beach, FL, January, 2000.
49. Bruner J, Tulipan N, Reed G, Boehm F, Townsend N, Hazra A, Hofmann G. Intrauterine repair of myelomeningocele: Preoperative determinants of shunt-dependent hydrocephalus. 20<sup>th</sup> Annual Meeting of the Society for Maternal-Fetal Medicine, Miami Beach, FL, January, 2000.



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50. Hamdan AH, Walsh W, Heddings AA, Bruner JP, Tulipan N. Early gestational age of fetal spina bifida repair does not decrease the gestational age at delivery. 2001 Pediatric Academic Societies Meeting.
51. Bruner J, Tulipan N, Reed G. Intrauterine Repair of Spina Bifida: Identification of a Good Prognosis Group. 21<sup>st</sup> Annual Meeting of the Society for Maternal-Fetal Medicine, Reno, NV, February, 2001.
52. Bruner J, Tulipan N, Reed G, Davis G, Stone L. Intrauterine Repair of Spina Bifida: Preoperative Predictors of Shunt-Dependent Hydrocephalus. 22<sup>nd</sup> Annual Meeting of the Society for Maternal-Fetal Medicine, New Orleans, LA, January, 2002.
53. Aaronson O, Tulipan N, Sundell H, Bruner J, Davis G, Richards W, Cywes R. Robotic Endoscopic Repair of Spina Bifida: Sheep Model. 22<sup>nd</sup> Annual Meeting of the Society for Maternal-Fetal Medicine, New Orleans, LA, January, 2002.
54. Duong J, Bruner J, Heddings A, Reed G, Stone L. Indications for delivery after Intrauterine Repair of Spina Bifida. 22<sup>nd</sup> Annual Meeting of the Society for Maternal-Fetal Medicine, New Orleans, LA, January, 2002.
55. Storck K, Duong J, Bruner J, Davis G, Stone L, Reed G. Intrauterine Repair of Myelomeningocele vs. Myeloschisis. 22<sup>nd</sup> Annual Meeting of the Society for Maternal-Fetal Medicine, New Orleans, LA, January, 2002.
56. Clark K, Bruner J, Davis G. Antenatal Evaluation of Fetal Hindbrain Herniation: MRI vs. Ultrasound. 22<sup>nd</sup> Annual Meeting of the Society for Maternal-Fetal Medicine, New Orleans, LA, January, 2002.
57. Woods G, Bruner JP. Ultrasound Accuracy and Learning Curve in Identifying the Anatomic Level of Fetal Myelomeningocele. 46<sup>th</sup> Annual Convention of the American Institute of Ultrasound in Medicine, Nashville, TN, March 2002.
58. Bruner JP. Intrauterine Repair of Myelomeningocele. J Perinat Med 31:5, 2003.
59. Bruner JP. Fetal Therapy Gets Smaller. J Perinat Med 31:5, 2003.
60. Nick A, Moses R, Bruner J, Yang E, Scott T. Second Trimester Intra-abdominal Bowel Dilation in Fetuses with Gastroschisis Predicts Neonatal Atresia. Am J Obstet Gynecol 191:S142, 2005.
61. Azari A, Bruner J, Scott T, Walters K. Second Trimester Head Measurements in Fetuses with Spina Bifida are Not Different from Other Biometry. Am J Obstet Gynecol 191:S147, 2005.
62. Levy V, Bruner JP. Fetal Hemodynamic Monitoring During Myelomeningocele Repair. In Press.

#### **Presentations at scientific meetings**

1. "Substance Abuse in Pregnancy," Delaware Memorial Hospital, Wilmington, DE, October 1986 (Invited).

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2. "Cocaine Abuse in Pregnancy," Reading Memorial Hospital, Reading, PA, August 1987 (Invited).
3. "Cocaine Abuse in Pregnancy," Vanderbilt University Medical Center Department of Obstetrics and Gynecology 16th Annual High Risk Obstetric Seminar, Nashville, TN, November 1990 (Invited).
4. "Standards of Care in Preeclampsia/Eclampsia," State Volunteer Mutual Insurance Company High Risk Obstetrics Seminar, Nashville, TN, June 1991 (Invited).
5. "Substance Abuse and Pregnancy - Responding to the Challenge," Coalition for Identification and Treatment of Chemical Abuse in Pregnancy, Nashville, TN, November 1991 (Invited).
6. "Percutaneous Umbilical Blood Sampling: An Update," Vanderbilt University Medical Center Department of Obstetrics and Gynecology 17th Annual High Risk Obstetrics Seminar, Nashville, TN, December 1991 (Invited).
7. "Vaginal Birth after Cesarean Delivery," Baptist Hospital Obstetrics and Gynecology Conference, Nashville, TN, January 1992 (Invited).
8. "The Use of Low Dose Aspirin During Pregnancy," The W.F. Bernell James, Jr., M.D., Obstetrics and Gynecology Symposium, Meharry Medical College, Nashville, TN, February 1992 (Invited).
9. "Low Dose Aspirin Therapy in Pregnancy," Jennie Stuart Medical Center, Hopkinsville, KY, February 1992 (Invited).
10. "OB Update: Twin/Twin Transfusion Syndrome," Tenth Annual Tennessee Conference on Perinatal & Neonatal Care, Knoxville, TN, April 1992 (Invited).
11. "Pregnancy and Hypertension," Tennessee OB/GYN Society Meeting of the Tennessee Medical Association, Nashville, TN, April 1992 (Invited).
12. "Effect of Selective Chemoprophylaxis on the Incidence of Early Onset Group B Streptococcal Sepsis," Discussant, 40th Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, Las Vegas, NV, April 1992 (Peer Review).
13. "Obstetrical Doppler Ultrasound," 40th Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, Las Vegas, NV, April 1992 (Invited).
14. "Applications of Doppler Ultrasound in Clinical Practice," Doppler Ultrasound in Obstetrics and Gynecology, Nashville, TN, May 1992 (Invited).
15. "Twins Discuss Twins: The Hard Stuff," 32nd Annual Convention of the National Organization of Mothers of Twins Clubs, Inc., Nashville, TN, July 1992 (Invited).
16. "Shoulder Dystocia and Fetal Macrosomia," Management of Obstetric Emergencies, Lake of the Ozarks, MO, August 1992 (Invited).
17. "Amniotic Fluid Embolism and Cardiovascular Collapse," Management of Obstetric Emergencies, Lake of the Ozarks, MO, August 1992 (Invited).



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18. "Twin-Twin Transfusion Syndrome," 14th Annual Obstetric Office Ultrasound Workshop, Knoxville, TN, August 1992 (Invited).
19. "Diagnostic Obstetrics in the 90's," Vandy Update: Obstetric Anesthesia - 1992, Nashville, TN, September 1992 (Invited).
20. "Applications for Doppler Ultrasound in Clinical Practice," Mountain Update in Women's Health, Johnson City, TN, September 1992 (Invited).
21. "Low Dose Aspirin Therapy in Pregnancy," Mountain Update in Women's Health, Johnson City, TN, September 1992 (Invited).
22. "Vaginal Birth after Cesarean Section," Mountain Update in Women's Health, Johnson City, TN, September 1992 (Invited).
23. "Twin-Twin Transfusion," Sixth Annual Seminar on Controversies and Clinical Management in High Risk Obstetrics, San Francisco, CA, October 1992 (Invited).
24. "Controversies in the Management of Twins," Sixth Annual Seminar on Controversies and Clinical Management in High Risk Obstetrics, San Francisco, CA, October 1992 (Invited).
25. "Obstetrical Doppler Ultrasound: What Is It Good For?" Sixth Annual Seminar on Controversies and Clinical Management in High Risk Obstetrics, San Francisco, CA, October 1992 (Invited).
26. "Managing Macrosomia and Shoulder Dystocia," Sixth Annual Seminar on Controversies and Clinical Management in High Risk Obstetrics, San Francisco, CA, October 1992 (Invited).
27. "New Strategies for the Prevention of Prematurity," Neonatal Update 1992, Cookeville, TN, October 1992 (Invited).
28. "Obstetrical Doppler Ultrasound: What Is It Good For?," Vanderbilt University Medical Center Department of Obstetrics and Gynecology 18th Annual High Risk Obstetrics Seminar, Nashville, TN, December 1992 (Invited).
29. "Management of Preterm Labor," Obstetrics Roundtable, Murfreesboro, TN, February 1993 (Invited).
30. "Fetal Surgery," 11th Annual Tennessee Conference on Perinatal and Neonatal Care, Nashville, TN, March 1993 (Invited).
31. "Multiple Gestation," 11th Annual Tennessee Conference on Perinatal and Neonatal Care, Nashville, TN, March 1993 (Invited).
32. "Fetal Surgery," 41st Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, Washington, D.C., May 1993 (Invited).
33. "Twin-Twin Transfusion Syndrome," 41st Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, Washington, D.C., May 1993 (Invited).

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34. "Home Uterine Activity Monitoring," Bluegrass Country Club, Hendersonville, TN, June 1993 (Invited).
35. "Management of the Patient with Abnormal AFP: Triple Screening," 10th Annual Family Medicine/Primary Care Update, Nashville, TN, June 1993 (Invited).
36. "Home Uterine Activity Monitoring," Knoxville, TN, July 1993 (Invited).
37. "Twin-to-Twin Transfusion Syndrome," The Ohio State University Grand Rounds in Obstetrics and Gynecology, Columbus, OH, September 1993 (Invited).
38. "Fetal Therapies," 15th Annual Obstetric Office Ultrasound Workshop, Knoxville, TN, September 1993 (Invited).
39. "Home Uterine Activity Monitoring," Knoxville, TN, September 1993 (Invited).
40. "Postdates Pregnancy," The Osler Institute Obstetrics and Gynecology Oral Board Review Course, Nashville, TN, September 1993 (Invited).
41. "Rh Disease," The Osler Institute Obstetrics and Gynecology Oral Board Review Course, Nashville, TN, September 1993 (Invited).
42. "Preterm Labor and Electronic Monitoring," Tri-City Ob/Gyn Society, Johnson City, TN, October 1993 (Invited).
43. "Triple Screen: Should We Be Doing It?" Vanderbilt University Medical Center Department of Obstetrics and Gynecology 19th Annual High Risk Obstetrics Seminar, Nashville, TN, December 1993 (Invited).
44. "Preterm Labor Prevention," Medical Center of Bowling Green, Bowling Green, KY, January 1994 (Invited).
45. "AFP and the Triple Screen - One For All or All For One?" 11th Annual Obstetrical Challenges of the 1990's, Phoenix, AZ, April 1994 (Invited).
46. "Management of Macrosomia and Shoulder Dystocia," 11th Annual Obstetrical Challenges of the 1990's, Phoenix, AZ, April 1994 (Invited).
47. "Nonimmune Hydrops," 42nd Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, Orlando, FL, May 1994 (Invited).
48. "Shoulder Dystocia," 42nd Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, Orlando, FL, May 1994 (Invited).
49. "Red Blood Cell Isoimmunization in Pregnancy," Grand Rounds in Obstetrics and Gynecology, University of Tennessee Medical Center - Chattanooga, TN, May 1994 (Invited).
50. "Neonatal Alloimmune Thrombocytopenia - Prenatal Diagnosis and Treatment," Grand Rounds in Obstetrics and Gynecology, University of Tennessee Medical Center - Chattanooga, TN, May 1994 (Invited).



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51. "Home Uterine Activity Monitoring Revisited," Chattanooga OB/GYN Society, Chattanooga, TN, May 1994 (Invited).
52. "Preterm Labor," 33rd Annual OB/GYN Spring Symposium, Update '94, Current Trends in Obstetrics and Gynecology, University of Oklahoma College of Medicine, Oklahoma City, OK, May 1994 (Invited).
53. "Genetic Screening in the Primary Care Setting," 11th Annual Family Medicine/Primary Care, Vanderbilt University Medical Center, Nashville, TN, May 1994 (Invited).
54. "Fetal Assessment of the Preterm Pregnancy," 12th Annual Tennessee Conference on Perinatal and Neonatal Care, Chattanooga, TN, May 1994 (Invited).
55. "What Is the Place of Obstetrical Ultrasound Today?" The Lonnie S. Burnett Society 1994 Annual Meeting, Destin, FL, June 1994 (Invited).
56. "Preterm Labor," Grand Rounds in Obstetrics and Gynecology, Meharry Medical Center, Nashville, TN, July 1994 (Invited).
57. "Management of Macrosomia and Shoulder Dystocia," Blanchfield Army Community Hospital, Fort. Campbell, KY, September 1994 (Invited).
58. "The Contemporary Role of Ultrasound," 16th Annual Obstetric Office Ultrasound Workshop, Knoxville, TN, September 1994 (Invited).
59. "Antepartum Assessment of Multiple Gestations," 16th Annual Obstetrics Office Ultrasound Workshop, Knoxville, TN, September 1994 (Invited).
60. "Health Care Reform", The 5th Annual Neonatology Symposium: Recent Advances and Health Care Reform," Nashville, TN, November 1994 (Invited).
61. "Prenatal Care: Medical - Legal Risks," St. John Hospital and Medical Center, Detroit, MI, November 1994 (Invited).
62. "Group B Streptococcus, Tocolysis, and Fetal Distress," Michigan State University-Kalamazoo Center for Medical Studies, Kalamazoo, MI, November 1994 (Invited).
63. "Isoimmunization in Pregnancy," The Osler Institute Obstetrics and Gynecology Oral Board Review Course, Chicago, IL, December 1994 (Invited).
64. "Management of the Postdates Pregnancy," The Osler Institute Obstetrics and Gynecology Oral Board Review Course, Chicago, IL, December 1994 (Invited).
65. "Pitfalls in Perinatal Care," Genesys Regional Medical Center, Flint, MI, December 1994 (Invited).
66. "The Modern Role of Obstetrical Ultrasound," Vanderbilt University Medical Center Department of Obstetrics and Gynecology 20th Annual High Risk Obstetrics Seminar, Nashville, TN, December 1994 (Invited).

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67. "Basic Obstetrical Ultrasonography," Blanchfield Ultrasound Workshop, Fort Campbell, KY, February 1995 (Invited).
68. "Preterm Premature Rupture of the Membranes," Southeast Ob/Gyn Society Meeting, Nashville, TN, April 1995 (Invited).
69. "Management of Shoulder Dystocia," 43rd Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, San Francisco, CA, May 1995 (Invited).
70. "Twin Oligohydramnios - Polyhydramnios Sequence (TOPS)," 43rd Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, San Francisco, CA, May 1995 (Invited).
71. "Management of Preterm Premature Rupture of Membranes in the New Health Care Environment," 12th Annual Family Medicine/Primary Care, Vanderbilt University Medical Center, Nashville, TN, May 1995 (Invited).
72. "Doppler Sonography in Obstetrics," 19th Annual Sonography Symposium, Vanderbilt University School of Medicine, Nashville, TN, May 1995 (Invited).
73. "In Utero Endoscopic Repair of Fetal Spina Bifida," The Lonnie S. Burnett Vanderbilt OB-GYN Society 7th Reunion, Nashville, TN June 1995 (Invited).
74. "Doppler Sonography in Obstetrics-Power Doppler," Color Doppler Sonography III, Atlanta, GA, August 1995 (Invited).
75. "Third Trimester Ultrasound Management of Multiple Gestation," 17th Annual Obstetric Office Ultrasound Workshop, Knoxville, TN, September 1995 (Invited).
76. "Amplitude Based Color Doppler Sonography," 17th Annual Obstetric Office Ultrasound Workshop, Knoxville, TN, September 1995 (Invited).
77. "Power Doppler," Grand Rounds in Obstetrics and Gynecology, Vanderbilt University Medical Center, Nashville, TN, November 1995 (Invited).
78. "Doppler Ultrasound: What Is It Good For?" Vanderbilt University Medical Center, Department of Obstetrics and Gynecology, 21st Annual High Risk Obstetrics Seminar, Nashville, TN, December 1995 (Invited).
79. "Ethical Issues in Fetal Surgery," Vanderbilt University Divinity School, March 1996 (Invited).
80. "Endoscopic Repair of Fetal Spina Bifida In Utero," Grand Rounds, Greenville Medical Center, Greenville, SC, March 1996 (Invited).
81. "Management of Macrosomia and Shoulder Dystocia," Greenville Medical Center, Greenville, SC, March 1996 (Invited).



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82. "Placental Pathophysiology of the Twin Oligohydramnios-Polyhydramnios Sequence and Twin-To-Twin Transfusion," 40th Annual Convention of the American Institute of Ultrasound in Medicine, New York, NY, March 1996 (Peer Review).
83. "Shoulder Dystocia," 44th Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, Denver, CO, April 1996 (Invited).
84. "Sickle Cell Disease in Pregnancy: An Update," 44th Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, Denver, CO, April 1996 (Invited).
85. "Twin Oligohydramnios/Polyhydramnios Sequence and the Twin-to-Twin Transfusion Syndrome," 44th Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, Denver, CO, May 1996 (Invited).
86. "Sectio Parva for Fetal Preservation," International Fetal Medicine and Surgery Society, Capri, Italy, May 1996 (Peer Review).
87. "In Utero Endoscopic Repair of Fetal Spina Bifida," International Fetal Medicine and Surgery Society, Capri, Italy, May 1996 (Peer Review).
88. "Doppler Sonography in Obstetrics," 20th Annual Vanderbilt Sonography Symposium, Nashville, TN, May 1996 (Invited).
89. "Invasive Management of Extreme Complications of Twinning," 8th Annual Lonnie S. Burnett Vanderbilt Ob-Gyn Society Reunion, Amelia Island, FL, June 1996 (Invited).
90. "Intrauterine Surgery & Spina Bifida: Research & Development," Spina Bifida: Issues and Concerns in the Continuum of Care, West Orange, NJ, October 1996 (Invited).
91. "Fetal Surgery: Indications and Experience," National Perinatal Association Annual Clinical Conference, Nashville, TN, November 1996 (Invited).
92. "Amniotic Fluid Assessment: Oligohydramnios, Polyhydramnios, Meconium Staining," University of Kentucky Annual Perinatal-Neonatal Symposium, Lexington, KY, November 1996 (Invited).
93. "Management of Shoulder Dystocia," University of Kentucky Annual Perinatal-Neonatal Symposium, Lexington, KY, November 1996 (Invited).
94. "Antenatal Screening," University of Kentucky Annual Perinatal-Neonatal Symposium, Lexington, KY, November 1996 (Invited).
95. "Shoulder Dystocia: A New Model for Management," Vanderbilt University Medical Center, Department of Obstetrics and Gynecology, 22nd Annual High-Risk Obstetrics Seminar, Nashville, TN, December 1996 (Invited).
96. "Management of Shoulder Dystocia: A New Approach," Meharry Medical College School of Medicine, Department of Obstetrics and Gynecology Grand Rounds, Nashville, TN, January 1997 (Invited).

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97. "Expanding Role of Intrauterine Endoscopy in Pregnancy," 45th Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, Las Vegas, NV, April 1997 (Invited).
98. "Management of Shoulder Dystocia," 14th Annual Family Medicine/Primary Care Symposium, Vanderbilt University Medical Center, Nashville, TN, May 1997 (Invited).
99. "Update on Fetal Surgery," Barkley Conference on Perinatal Research, Cadiz, KY, May 1997 (Invited).
100. "Doppler in Obstetrics," 21st Annual Sonography Symposium, Nashville, TN, May 1997 (Invited).
101. "Primary Closure of Myelomeningocele in Utero," International Fetal Medicine and Surgery Society, Anchorage, AK, June 1997 (Peer Review).
102. "Endoscopic Coverage of Fetal Myelomeningocele in Utero," International Fetal Medicine and Surgery Society, Anchorage, AL, June 1997 (Peer Review).
103. "Equalization of Amniotic Fluid Volumes After Decompression Amniocentesis for Treatment of the Twin Oligohydramnios-Polyhydramnios Sequence," International Fetal Medicine and Surgery Society, Anchorage, AK, June 1997 (Peer Review).
104. "New Frontiers in Fetal Surgery," 9th Annual Lonnie S. Burnett Vanderbilt Ob-Gyn Society Reunion, Nashville, TN, June 1997 (Invited).
105. "Obstetrical Doppler Ultrasonography: What Is It Good For?," Grand Rounds in Obstetrics and Gynecology, Vanderbilt University Medical Center, Nashville, TN, September 1997 (Invited).
106. "Fetal Surgery: Current Approaches and Challenges," 3rd Annual Fall Neonatal Symposium, Asheville, NC, October 1997 (Invited).
107. "Embryologic Basis of Fetal Surgery," Meharry Medical School, Nashville, TN, October 1997 (Invited).
108. "Surgical Treatment of Fetal Myelomeningocele In Utero," Bedford County General Hospital, Shelbyville, TN, October 1997 (Invited).
109. "Ultrasound Assessment of Fetal Anomalies--Essential Diagnoses," Vanderbilt University Medical Center, Department of Obstetrics and Gynecology 23rd Annual High-Risk Obstetrics Seminar, Nashville, TN, December 1997 (Invited).
110. "Group B Streptococcus Testing and Treatment: Which Guidelines to Use," ACOG Postgraduate Course, Charleston, SC, February 1998 (Invited).
111. "Who Gets Ultrasonography: Everyone?," ACOG Postgraduate Course, Charleston, SC, February 1998 (Invited).
112. "The Use of Umbilical Doppler Testing: Is it Helpful?" ACOG Postgraduate Course, Charleston, SC, February 1998 (Invited).



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113. "Percutaneous Umbilical Blood Sampling," ACOG Postgraduate Course, Charleston, SC, February 1998 (Invited).
114. "Group B Streptococcal Screening and Prophylaxis in Pregnancy: The New Guidelines," Grand Rounds in Obstetrics and Gynecology, Vanderbilt University Medical Center, Nashville, TN, March 1998.
115. "In Utero Repair of Myelomeningocele," Cookeville General Hospital, Cookeville, TN, March 1998 (Invited).
116. "Open Fetal Surgery for Repair of Spina Bifida In Utero," 46th Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, New Orleans, LA, May 1998 (Invited).
117. "Prevention and Management of Shoulder Dystocia - The All Fours Maneuver," 46th Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, New Orleans, LA, May 1998 (Invited).
118. "New Frontiers in Fetal Surgery," 1998 Swanman Lecture Series, Portland, OR, May 1998 (Invited).
119. "Management of Shoulder Dystocia: A New Approach," 1998 Swanman Lecture Series, Portland, OR, May 1998 (Invited).
120. "Prenatal Diagnosis and Therapy," 1998 Swanman Lecture Series, Portland, OR, May 1998 (Invited).
121. "Group B Streptococcus," 15th Annual Primary Care Family Medicine Update, Nashville, TN, May 1998 (Invited).
122. "Applications of Doppler Sonography in Obstetrics," 22nd Annual Sonography Symposium, Nashville, TN, May 1998 (Invited).
123. "In Utero Repair of Myelomeningocele," Chattanooga OB/GYN Society Meeting, Chattanooga, TN, September 1998 (Invited).
124. "Group B Strep Prophylaxis in Pregnancy: The New Guidelines," The 13th Annual Conference on Women's Health Issues for Office, Clinic and Advanced Practice Nurses, Nashville, TN, October 1998 (Invited).
125. "Does Amniotic Fluid Index < 5 Require Delivery in High-Risk Pregnancies? A Case Control Study," Discussant, The 66th Annual Meeting of The Central Association of Obstetricians and Gynecologists, Kansas City, MO, October 1998 (Invited).
126. "In Utero Repair of Myelomeningocele," Northside Hospital, Atlanta, GA, October 1998 (Invited).
127. "Embryologic Aspects of Intrauterine Myelomeningocele Repair," Meharry Medical School, Nashville, TN, November 1998 (Invited).
128. "Intrauterine Myelomeningocele Repair," Tri-Cities OB/GYN Society Meeting, Bristol, TN,

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November 1998 (Invited).

129. "Neurosurgical Closure of Myelomeningocele In Utero," Grand Rounds in Obstetrics and Gynecology, University of Tennessee Health Sciences Center, Knoxville, TN, November 1998 (Invited).
130. "Repair of Myelomeningocele In Utero," Mobile Ob/Gyn Society Meeting, Mobile, AL,
131. "In Utero Repair of Fetal Myelomeningocele," Vanderbilt University Medical Center, Department of Obstetrics and Gynecology 24th Annual High-Risk Obstetrics Seminar, Nashville, TN, December 1998 (Invited).
132. "GBS Management: Which Protocol?" Vanderbilt University Medical Center, Department of Obstetrics and Gynecology 24th Annual High-Risk Obstetrics Seminar, Nashville, TN, December 1998 (Invited).
133. "Intrauterine Repair of Myelomeningocele," Grand Rounds in Obstetrics and Gynecology, University of North Carolina-Chapel Hill, January 1999 (Invited).
134. "Spina Bifida Repair In Utero," March of Dimes- Music City Division 1999 Awards Luncheon Keynote Speaker, Nashville, TN, March 1999 (Invited).
135. "Medical Ethics of Fetal Surgery," Undergraduate Lecture, Vanderbilt University, Nashville, TN, April 1999 (Invited).
136. "Intrauterine Repair of Myelomeningocele," Phoenix Ob/Gyn Society Meeting, Phoenix, AZ, April 1999 (Invited).
137. "Open Fetal Surgery for Nonlethal Malformations," Grand Rounds in Obstetrics and Gynecology, Memorial Medical Center, Savannah, GA, April 1999 (Invited).
138. "Intrauterine Surgery for Spina Bifida," Annual W.F.B. James Symposium, Meharry Medical College, Nashville, TN, April 1999 (Invited).
139. "Intrauterine Myelomeningocele Repair Reverses Preexisting Hindbrain Herniation," 4<sup>th</sup> World Congress of Perinatal Medicine, Buenos Aires, Argentina, April 1999 (Peer Review).
140. "Intrauterine Repair of Myelomeningocele Decreases the Incidence of Shunt-Dependent Hydrocephalus," 4<sup>th</sup> World Congress of Perinatal Medicine, Buenos Aires, Argentina, April 1999 (Peer Review).
141. "Ethical Guidelines for Open Fetal Surgery for Repair of Nonlethal Fetal Malformations," 4<sup>th</sup> World Congress of Perinatal Medicine, Buenos Aires, Argentina, April 1999 (Peer Review).
142. "Perspectives in Fetal Surgery," Sociedade Brasileira de Medicina Fetal, Sao Paulo, Brazil, April 1999 (Invited).
143. "Intrauterine Repair of Myelomeningocele," Grand Rounds in Obstetrics and Gynecology, Medical College of Georgia, Augusta, GA, May 1999 (Invited).



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144. "New Frontiers in Fetal Surgery," 17<sup>th</sup> Annual Tennessee Conference on Perinatal and Neonatal Care, Tennessee Perinatal Association, Chattanooga, TN, May 1999 (Invited).
145. "Ethical Guidelines for Open Fetal Surgery for Treatment of Nonlethal Fetal Malformations," International Fetal Medicine and Surgery Society, Carlisle, Cumbria, UK, May 1999 (Peer Review).
146. "Neurologic Function After Intrauterine Myelomeningocele Repair," International Fetal Medicine and Surgery Society, Carlisle, Cumbria, UK, May 1999 (Peer Review).
147. "Intrauterine Repair of Myelomeningocele: Antenatal Predictors of Shunt-Dependent Hydrocephalus," International Fetal Medicine and Surgery Society, Carlisle, Cumbria, UK, May 1999 (Peer Review).
148. "Shunt Therapy of Fetal Hydrocephalus Through a Hysterotomy," International Fetal Medicine and Surgery Society, Carlisle, Cumbria, UK, May 1999 (Peer Review).
149. "Earlier vs. Later Gestational Age for Open Fetal Surgery for Nonlethal Malformations," International Fetal Medicine and Surgery Society, Carlisle, Cumbria, UK, May 1999 (Peer Review).
150. "Duplex Doppler Ultrasound in Obstetrics," 23<sup>rd</sup> Annual Sonography Symposium, Nashville, TN, June 1999 (Invited).
151. "Update on Fetal Surgery," 11<sup>th</sup> Annual Lonnie S. Burnett Vanderbilt Ob-Gyn Society Reunion, Nashville, Tn, June 1999 (Invited).
152. "Update on Fetal Surgery," 2<sup>nd</sup> Annual Clinical Conference of the Middle Tennessee Association of Neonatal Nurses, August 1999 (Invited).
153. "Open Fetal Surgery for Nonlethal Malformations," The Fifth Annual REASON Meeting, University of Warwick, England, September 1999 (Invited).
154. "The Diagnosis and Management of Fetal Neural-Tube Defects," 10<sup>th</sup> Annual Ultrasound Symposium, St. John's Mercy Medical Center, St. Louis, MO, September 1999 (Invited).
155. "Intrauterine Repair of Myelomeningocele," 11<sup>th</sup> International Conference of Hydrocephalus & Spina Bifida, Perth, Western Australia, September 1999 (Invited).
156. "Open Fetal Surgery for Shunt Therapy of Hydrocephalus," 11<sup>th</sup> Annual Conference of Hydrocephalus & Spina Bifida, Perth, Western Australia, September 1999 (Invited).
157. "Embryologic Basis of Open Fetal Surgery for Nonlethal Malformations," Meharry Medical School, Nashville, TN, November 1999 (Invited).
158. "Prenatal Surgery for Spina Bifida and Patient Recruitment Via the Internet," Hot Topics '99 in Neonatology, Washington, D.C., December 1999 (Invited).
159. "Fetal Surgery Think Tank," University of Utah, Salt Lake City, UT, January 2000 (Invited).

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160. "Fetal Surgery," 23<sup>rd</sup> Annual Mid-Winter Symposium Advances in Obstetrics and Gynecology, Scottsdale, AZ, March 2000 (Invited).
161. "Applied Doppler Ultrasound," 23<sup>rd</sup> Annual Mid-Winter Symposium Advances in Obstetrics and Gynecology, Scottsdale, AZ, March 2000 (Invited).
162. "Open Fetal Surgery for Repair of Spina Bifida," March of Dimes Folic Acid Conference, Vanderbilt University School of Medicine, Nashville, TN, March 2000 (Invited).
163. "State of the Art in Fetal Surgery," Fetal Surgery and the Moral Presence of the Fetus, Vanderbilt University School of Medicine, Nashville, TN, March 2000 (Invited).
164. "In Utero Repair of Myelomeningocele," 18<sup>th</sup> Annual Tennessee Conference on Perinatal-Neonatal Care, Memphis, TN, April 2000 (Invited).
165. "How to Use Doppler Ultrasound in an OB Practice," 18<sup>th</sup> Annual Tennessee Conference on Perinatal-Neonatal Care, Memphis, TN, April 2000 (Invited).
166. "Management of Shoulder Dystocia," Grand Rounds in Obstetrics and Gynecology, Rose Health Center, Denver, CO, May 2000 (Invited).
167. "Open Maternal-Fetal Surgery for Nonlethal Malformations," Grand Rounds in Obstetrics and Gynecology, University of Colorado Health Sciences Center, Denver, CO, May 2000 (Invited).
168. "Open Maternal-Fetal Surgery for Nonlethal Malformations," Blue Cross/Blue Shield of South Carolina Continuing Nurse Education Program, Columbia, SC, May 2000 (Invited).
169. "Intrauterine Therapy of Spina Bifida," University of South Carolina School of Medicine, Richland Memorial Hospital, Columbia, SC, May 2000 (Invited).
170. "New Frontiers in Fetal Surgery," Enfamil Nurse's Conference, Nashville, TN, May 2000 (Invited).
171. "Myelomeningocele," The Advanced Course in Fetal Medicine, Imperial College School of Medicine, Queen Charlotte's & Chelsea Hospital, London, UK, May 2000 (Invited).
172. "Diagnosis and Treatment of Neural Tube Defects," 24<sup>th</sup> Annual Diagnostic Sonography Symposium, Vanderbilt University School of Medicine, Nashville, TN, June 2000 (Invited).
173. "Doppler Ultrasound in Obstetrics," 24<sup>th</sup> Annual Diagnostic Sonography Symposium, Vanderbilt University School of Medicine, Nashville, TN, June 2000 (Invited).
174. "Diagnosis and Treatment of Nonlethal Fetal Malformations," Visiting Guest Professor, University of Milan-Bicocca, Monza, Italy, June 2000 (Invited).
175. "Fetal Surgery at Vanderbilt Medical Center," Vanderbilt University Medical Center Medical Alumni Board, Nashville, TN, June 2000 (Invited).



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176. "Spina Bifida," 10<sup>th</sup> International Conference on Prenatal Diagnosis and Therapy, International Society of Prenatal Diagnosis, University of Barcelona, Barcelona, Spain, June 2000 (Invited).
177. "Management of Myelomeningocele," Maternal-Fetal Surgery Conference, National Institute of Child Health and Human Development, Bethesda, MD, July 2000 (Invited).
178. "Intrauterine Repair of Myelomeningocele: Identification of a Good Prognosis Group," 19<sup>th</sup> Annual International Fetal Medicine and Surgery Society, Nantucket Island, Massachusetts, September 2000 (Invited).
179. "Myelomeningocele and Hydrocephalus: Diagnosis, Criteria and Intrauterine Surgery," The Eurofetus Conference: Invasive Fetal Diagnosis and Therapy in the Third Millenium, Leuven, Belgium, September 2000 (Invited).
180. "Diagnosis and Intrauterine Repair of Myelomeningocele and Hydrocephalus," St. Louis Metro Area Sonographers, St. Louis, MO, September 2000 (Invited).
181. "Intrauterine Repair of Myelomeningocele," Orlando, FL, October 2000 (Invited).
182. "Open Fetal Repair of Myelomeningocele," 19<sup>th</sup> International Symposium on Neonatal Intensive Care, Milan, Italy, October 2000 (Invited).
183. "Fetal Surgery Update," Vanderbilt Medical Alumni Reunion 2000, Nashville, TN, October 2000 (Invited).
184. "Prevention, Diagnosis, and Treatment of Neural Tube Defects in the 21<sup>st</sup> Century," American Academy of Pediatrics Annual Meeting 2000, Chicago, IL, October 2000 (Invited).
185. "Update on Fetal Surgery," Meharry Medical School, Nashville, TN, November 2000 (Invited).
186. "Ultrasound in the Diagnosis of Spina Bifida," Fall Ultrasound Symposium, Guy Bates Conference Center, Nashville, TN, November 2000 (Invited).
187. "Neural Tube Defects: Prevention, Diagnosis and Treatment," 26<sup>th</sup> Annual High-Risk Obstetrics Seminar, Vanderbilt University School of Medicine, Nashville, TN, December 2000 (Invited).
188. "Intrauterine Repair of Myelomeningocele," Albuquerque Ob/Gyn Society, Albuquerque, NM, January 2001 (Invited).
189. "Prenatal Diagnosis and Treatment of Nonlethal Malformations of the Fetus," Grand Rounds in Obstetrics and Gynecology, The University of New Mexico Health Sciences Center, Albuquerque, NM, January 2001 (Invited).
190. "Randomized Clinical Trial for Myelomeningocele (MMC): Is It Time? Scientific Forum on Fetal Surgery, 21<sup>st</sup> Annual Meeting of the Society for Maternal Fetal Medicine, Reno, NV, February 2001 (Invited).
191. "Intrauterine Repair of Myelomeningocele," Annual Meeting, Matria Healthcare, San Antonio, TX, February 2001 (Invited).

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192. "Neural Tube Defects: Prevention, Diagnosis and Treatment," 27<sup>th</sup> Annual Symposium of the San Diego Gynecological Society, San Diego, CA, February 2001 (Invited).
193. "Update on Fetal Surgery," 27<sup>th</sup> Annual Symposium of the San Diego Gynecological Society, San Diego, CA, February 2001 (Invited).
194. "Neural Tube Defects Update," 2<sup>nd</sup> Annual Fetal Surgery Symposium, University of Utah, Salt Lake City, UT, February 2001 (Invited).
195. "Prenatal Surgery for Spina Bifida," The 18-23 Week Scan, The Fetal Medicine Foundation, King's College Hospital, London, England, UK, April 2001 (Invited).
196. "Open Uterine Repair of Myelomeningocele," IV National Meeting on Myelomeningocele, Monterrey, Mexico, May 2001 (Invited).
197. "Fetal Surgery," XVIII Reunion Anual 2001, Instituto Nacional de Perinatologia, Mexico City, Mexico, May 2001 (Invited).
198. "Ethics of Fetal Surgery," Instituto Nacional de Perinatologia, Mexico City, Mexico, May 2001 (Invited).
199. "Obstetrical Applications of Doppler Ultrasound," 25<sup>th</sup> Annual Diagnostic Sonography Symposium, Vanderbilt University Medical Center, Nashville, TN, May 2001 (Invited).
200. "Update on Fetal Diagnosis/ Surgery of Myelomeningocele," 25<sup>th</sup> Annual Diagnostic Sonography Symposium, Vanderbilt University Medical Center, Nashville, TN, May 2001 (Invited).
201. "The Evolution of Fetal Surgery: From Bigger to Better," Lonnie Burnett Society, Vanderbilt University Medical Center, Nashville, TN, June 2001 (Invited).
202. "The Role of MRI in Fetal Surgery," Mid South Society of Magnetic Resonance Imaging, Nashville, TN, June 2001 (Invited).
203. "Ultrasonographic Evaluation of the Fetus with Spina Bifida," National Medical Association 2001 Annual Meeting, Nashville, TN, August 2001 (Invited).
204. "Intrauterine Repair of Myelomeningocele," National Medical Association 2001 Annual Meeting, Nashville, TN, August 2001 (Invited).
205. "Evolution of Fetal Surgery: From Bigger to Better," Summer Update Conference in Obstetrics, Gynecology & Neonatology, Providence Alaska Medical Center, Anchorage, AK, August 2001 (Invited).
206. "Intrauterine Repair of Myelomeningocele," Summer Update Conference in Obstetrics, Gynecology & Neonatology, Providence Alaska Medical Center, Anchorage, AK, August 2001 (Invited).



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207. "Diagnosis & Treatment of CNS Disorders," Summer Update Conference in Obstetrics, Gynecology & Neonatology, Providence Alaska Medical Center, Anchorage, AK, August 2001 (Invited).
208. "Antenatal Evaluation of Fetal Hindbrain Herniation: MRI vs Ultrasound," 20<sup>th</sup> Annual International Fetal Medicine and Surgery Society, Kruger National Park, South Africa, October 2001 (Peer Review).
209. "Preoperative Predictors of Shunt-Dependent Hydrocephalus," 20<sup>th</sup> Annual International Fetal Medicine and Surgery Society, Kruger National Park, South Africa, October 2001 (Peer Review).
210. "Indications for Delivery After Intrauterine Repair of Spina Bifida," 20<sup>th</sup> Annual International Fetal Medicine and Surgery Society, Kruger National Park, South Africa, October 2001 (Peer Review).
211. "Maternal Psychosocial Benefit of Prenatal Repair for Spina Bifida," 20<sup>th</sup> Annual International Fetal Medicine and Surgery Society, Kruger National Park, South Africa, October 2001 (Peer Review).
212. "Robotic Endoscopic Repair of Spina Bifida In Utero," 20<sup>th</sup> Annual International Fetal Medicine and Surgery Society, Kruger National Park, South Africa, October 2001 (Peer Review).
213. "Myelomeningocele vs Myeloschisis," 20<sup>th</sup> Annual International Fetal Medicine and Surgery Society, Kruger National Park, South Africa, October 2001 (Peer Review).
214. "Intrauterine Repair of Myelomeningocele," Wake Forest University Medical Center Grand Rounds in Obstetrics and Gynecology, Winston-Salem, North Carolina, October 2001 (Invited).
215. "Modulation of Amniotic Fluid Toxicity: Studies of Fetal Therapy," Clinical Research Center, Vanderbilt University Medical Center, Nashville, TN, October 2001 (Invited).
216. "Intrauterine Surgery: Maternal and Neonatal Implications," National Perinatal Association Annual Clinical Conference, San Antonio, TX, November 2001 (Invited).
217. "Fetal Repair of Open Neural Tube Defects: A Case For," Postgraduate Course on Fetal Therapy, 22<sup>nd</sup> Annual Meeting of the Society of Maternal-Fetal Medicine, New Orleans, LA, January 2002 (Invited).
218. "Intrauterine Treatment of Gastroschisis," Grand Rounds, Tel-Aviv University, Tel-Aviv, Israel, February 2002 (Invited).
219. "The Evolution of Fetal Surgery," The Annual Fetal Medicine Congress, Tel-Aviv, Israel, February 2002 (Invited).
220. "Intrauterine Repair of Myelomeningocele," The Annual Fetal Medicine Congress, Tel-Aviv, Israel, February 2002 (Invited).

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221. "Ethical Issues in Fetal Surgery," The Annual Fetal Medicine Congress, Tel-Aviv, Israel, February 2002 (Invited).
222. "Intrauterine Repair of Spina Bifida," 27<sup>th</sup> Annual High Risk Pregnancy Course, University of Louisville, Louisville, KY, April 2002 (Invited).
223. "The Evolution of Fetal Therapy: From Bigger to Better," 27<sup>th</sup> Annual High Risk Pregnancy Course, University of Louisville, Louisville, KY, April 2002 (Invited).
224. "Open Fetal Repair of Myelomeningocele: The MOMS Trial," Grand Rounds in Neurosurgery, Hospital for Sick Children, Toronto, Canada, May 2002 (Invited).
225. "Intrauterine Repair of Spina Bifida," 10<sup>th</sup> Annual Symposium New Developments in Prenatal Diagnosis and Medical Genetics, Mount Sinai Hospital, Toronto, Canada, May 2002 (Invited).
226. "The Evolution of Fetal Surgery," Grand Rounds in Genetics, Hospital for Sick Children, Toronto, Canada, May 2002 (Invited).
227. "Fetal Abdominal Wall Defects," The 19<sup>th</sup> Annual Primary Care Family Medicine Update, Vanderbilt University Medical Center, Nashville, TN, May 2002 (Invited).
228. "Intrauterine Treatment of Gastroschisis," Lonnie Burnett Society 2002 Annual Meeting, Sandestin, FL, June 2002 (Invited).
229. "First Trimester Diagnosis of Down Syndrome," Lonnie Burnett Society 2002 Annual Meeting, Sandestin, FL, June 2002 (Invited).
230. "Prenatal Surgery for Spina Bifida," First World Congress in Fetal Medicine, Athens, Greece, June 2002 (Invited).
231. "Update on Fetal Surgery and Sonographic Evaluation of Meningomyelocele," 26<sup>th</sup> Annual Diagnostic Sonography Symposium, Nashville, TN, July 2002 (Invited).
232. "10 Years of Intrauterine Myelomeningocele Repair—What We Know," 21<sup>st</sup> Annual Meeting of the International Fetal Medicine and Surgery Society, La Malbaie, Quebec, Canada, September 2002 (Invited).
233. "Reproductive Function After Intrauterine Repair of Myelomeningocele," 21<sup>st</sup> Annual Meeting of the International Fetal Medicine and Surgery Society, La Malbaie, Quebec, Canada, September 2002 (Invited).
234. "Amnioexchange For Gastroschisis," 21<sup>st</sup> Annual Meeting of the International Fetal Medicine and Surgery Society, La Malbaie, Quebec, Canada, September 2002 (Invited).
235. "Intrauterine Repair of Myelomeningocele," Grand Rounds in Obstetrics and Gynecology, Dalhousie University, Halifax, Nova Scotia, Canada, September 2002 (Invited).
236. "Intrauterine Spina Bifida Surgery," Society of Diagnostic Medical Sonography 19<sup>th</sup> Annual Conference, Atlanta, GA, October 2002 (Invited).



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237. "Modulation of Amniotic Fluid Toxicity: Studies of Fetal Therapy," Master of Science in Clinical Investigation Program, Vanderbilt University Medical Center, Nashville, TN, October 2002 (Invited).
238. "In Utero Therapy: The Open Approach," 12<sup>th</sup> World Congress on Ultrasound in Obstetrics and Gynecology, New York City, NY, November 2002 (Invited).
239. "In Utero Surgery- Repair of Spina Bifida," James W. Wiggins, M.D. Lectureship in Obstetrics and Gynecology, Presbyterian Healthcare Services, Albuquerque, NM, November 2002 (Invited).
240. "Current Status of Fetal Surgery in the U.S.A.," NANN 18<sup>th</sup> Annual Conference, Nashville, TN, November 2002 (Invited).
241. "Embryology of Treatable Fetal Anomalies," Meharry Medical School, Nashville, TN, November 2002 (Invited).
242. "First Trimester Screening for Down Syndrome," 28<sup>th</sup> Annual High-Risk Obstetrics Seminar, Vanderbilt University Medical Center, Nashville, TN, December 2002 (Invited).
243. "Intrauterine Repair of Neural Tube Defects," 23<sup>rd</sup> Annual Meeting, Society for Maternal-Fetal Medicine, Luncheon Roundtable, San Francisco, CA, February 2003 (Invited).
244. "Update on Amnioexchange for Gastroschisis," 23<sup>rd</sup> Annual Meeting, Society for Maternal-Fetal Medicine, San Francisco, CA, February 2003 (Invited).
245. "Early Intrauterine Therapy," 1<sup>st</sup> International Conference "Research and Therapy on the Frontier of Treatment of Spina Bifida", Palazzo dei Congressi, Salsomaggiore Terme (Parma), Italy, March 2003 (Invited).
246. "Intrauterine Repair of Spina Bifida: Preoperative Predictors of Shunt-Dependent Hydrocephalus," International Fetal Medicine and Surgery Society 22<sup>nd</sup> Annual Meeting, Grand Hotel Zermatterhof, Zermatt, Switzerland, May 2003 (Invited).
247. "Update on the MOMS Trial," International Fetal Medicine and Surgery Society 22<sup>nd</sup> Annual Meeting, Grand Hotel Zermatterhof, Zermatt, Switzerland, May 2003 (Invited).
248. "Amniotic Fluid Exchange for Gastroschisis," International Fetal Medicine and Surgery Society 22<sup>nd</sup> Annual Meeting, Grand Hotel Zermatterhof, Zermatt, Switzerland, May 2003 (Invited).
249. "Prenatal Surgery of Spina Bifida," International Course in Fetal Therapy, Unidad de Medicina Fetal, Hospital Clinico Universidad de Chile, Santiago, Chile, May 2003 (Invited).
250. "Fetal Surgery for Spina Bifida," Second World Congress in Fetal Medicine, Centro Cultural de Belem, Lisbon, Portugal, June 2003 (Invited).
251. "Amniotic Fluid Exchange for treatment of Gastroschisis," Second World Congress in Fetal Medicine, Centro Cultural de Belem, Lisbon, Portugal, June 2003 (Invited).

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252. "Meningocele: Sonographic Diagnosis and In Utero Treatment," 27<sup>th</sup> Annual Diagnostic Sonography Symposium, Vanderbilt University Medical Center, Nashville, TN, July 2003 (Invited).
253. "Intrauterine Treatment of Spina Bifida," 13<sup>th</sup> World Congress on Ultrasound in Obstetrics & Gynecology, Le Carrousel du Louvre, Paris, France, September 2003 (Invited).
254. "Intrauterine Repair of Myelomeningocele," 6<sup>th</sup> World Congress of Perinatal Medicine, Osaka, Japan, September 2003 (Invited).
255. "Fetal Therapy Gets Smaller," 6<sup>th</sup> World Congress of Perinatal Medicine, Osaka, Japan, September 2003 (Invited).
256. "Open Fetal Surgery for Spina Bifida," National Center for Child Health and Development, Tokyo, Japan, September 2003 (Invited).
257. "The Evolution of Maternal-Fetal Surgery: From Bigger to Better," Tohoku University School of Medicine, Sendai, Japan, September 2003 (Invited).
258. "Intrauterine Repair of Spina Bifida," Memorial Hermann Hospital, Houston, TX, May 2004 (Invited).
259. "In Utero Repair of Myelomeningocele," Grand Rounds in Obstetrics and Gynecology, University of Texas Medical Center – Houston, Houston, TX, May 2004 (Invited).
260. "Intrauterine Repair of Spina Bifida," Houston Gynecological & Obstetrical Society, Houston, TX, May 2004 (Invited).
261. "First Trimester Screening," Vanderbilt University Medical Center, 21<sup>st</sup> Annual Primary Care Update, Nashville, TN, May 2004 (Invited).
262. "Prenatal Therapy of Spina Bifida and Hydrocephalus," International Meeting – Malformations of the Central Nervous System, Helios Klinikum Erfurt, Erfurt, Germany, June 2004 (Invited).
263. "Fetal Surgery for Spina Bifida," Third World Congress in Fetal Medicine, Limassol, Cyprus, June 2004 (Invited).
264. "The Future of Fetal Surgery," 14<sup>th</sup> World Congress on Ultrasound in Obstetrics & Gynecology, Stockholm, Sweden, September 2004 (Invited).
265. "Amnioexchange for Gastroschisis," 14<sup>th</sup> World Congress on Ultrasound in Obstetrics & Gynecology, Stockholm, Sweden, September 2004 (Invited).
266. "Intrauterine Repair of Spina Bifida – Past, Present & Future," Grand Rounds in Obstetrics and Gynecology, St. Luke's - Roosevelt Hospital Center, New York, New York, October 2004 (Invited).
267. "Intrauterine Repair of Spina Bifida," Grand Rounds in Obstetrics and Gynecology, University of Tennessee – Knoxville Medical Center, Knoxville, TN, October 2004 (Invited).



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268. "Amnioexchange for Fetal Gastroschisis," Grand Rounds in Obstetrics and Gynecology, Advocate Illinois Masonic Medical Center, Chicago, IL, November 2004 (Invited).
269. "Intrauterine Repair of Spina Bifida – Past, Present, Future," The Chicago Gynecological Society, Chicago, IL, November 2004 (Invited).
270. "Spina Bifida: Terapia in Utero," Diagnosi e Terapia delle Anomalie Fetali, Bergamo, Italy, November 2004 (Invited).
271. "Wymienna Amniotinfuzja W Gastroschisis – Najnowsze Doniesienia," II Interaktywna Konferencja Naukowa, Bytom – Wisla, Poland, December 2004 (Invited).
272. "Wewnatrzmaciczne Leczenie Przepukliny Rdzeniowej U Plodow," II Interaktywna Konferencja Naukowa, Bytom – Wisla, Poland, December 2004 (Invited).
273. "Intrauterine Repair of Spina Bifida," 11<sup>th</sup> Congress of the World Federation for Ultrasound in Medicine and Biology, Seoul, Korea, May 2006 (Invited).
274. "Amniotic Fluid Exchange for Gastroschisis," 11<sup>th</sup> Congress of the World Federation for Ultrasound in Medicine and Biology, Seoul, Korea, May 2006 (Invited).
275. "Intrauterine Fetal Surgery and Robotic Surgery: How We Got Here," Symposium on Robotic Surgery, Thessaloniki, Greece, November 2006 (Invited).
276. "Intrauterine Fetal Surgery," From Prenatal Diagnosis of Fetal Malformation to Postnatal Surgery and Medical Therapy, Palermo, December 2006 (Invited).
277. "The Edge of Innovation in Fetal Surgery," 16<sup>th</sup> SLS Annual Meeting and Endo Expo 2007, San Francisco, CA, September 2007 (Invited).
278. "Prenatal Evaluation of Correctable Fetal Anomalies," Tennessee Section of ACOG Annual Meeting, Chattanooga, TN, June 2009 (Invited).
279. "The Development of Maternal-Fetal Therapy," Tennessee Section of ACOG Annual Meeting, Chattanooga, TN, June 2008 (Invited).
280. "Ethical Dilemmas in Obstetrics," Annual Clinical Ethics Meeting, Fort Sanders Regional Medical Center, Knoxville, TN, October 2008 (Invited).
281. "Fetal Monitoring Update", Annual AWHONN Meeting, Odessa, TX, June 2009 (Invited).
282. "Nuchal Translucency Screening", Annual AWHONN Meeting, Odessa, TX, June 2009 (Invited).
283. "Percutaneous Umbilical Blood Sampling and Fetal Intravascular Transfusion", Regional AWHONN Meeting, Odessa, TX, October 2009 (Invited).

**MEETINGS:**

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1. Course Director, Doppler Ultrasound in Obstetrics and Gynecology, Nashville, TN, May, 1992.
2. Program Chairman, Annual Research Forum in Obstetrics and Gynecology at Vanderbilt University Medical Center, Nashville, TN, 1992-99.
3. Course Director, 11th Annual Tennessee Conference on Perinatal and Neonatal Care, Nashville, TN, March 1993.
4. Course Director, March of Dimes Folic Acid Conference, Vanderbilt University School of Medicine, Nashville, TN, March 2000.
5. Program Director, Scientific Forum on Maternal-Fetal Surgery, Annual Meeting of the Society of Maternal-Fetal Medicine, 2000-2005.