

## CURRICULUM VITAE

*Lorraine Dugoff, M.D.*

### Present Address:

(Work) University of Colorado Health Sciences Center  
Dept. of Ob/Gyn, M/S B198-5  
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P.O. Box 6511  
Aurora, Colorado 80045

### Present Appointment:

Associate Professor  
Department of Obstetrics and Gynecology  
University of Colorado Health Sciences Center  
July 2003 to present

Director, Medical Student Education  
Obstetrics and Gynecology  
University of Colorado Health / Center  
School of Medicine  
January 2000 to present

Director, First Trimester Prenatal Diagnosis Program  
University of Colorado Health Sciences Center  
February 2003 to present

Director, Prenatal Genetics  
Prenatal Diagnosis and Genetics Center  
University of Colorado Health Sciences Center  
November 1996 to February 2005

Assistant Professor  
Department of Obstetrics and Gynecology  
University of Colorado Health Sciences Center  
July 1996 to June 2003

Assistant Professor  
Graduate Faculty Member, Masters Program in Biophysics  
and Genetics, University of Colorado Health Sciences Center  
February 1997 to June 2003

### ***EDUCATION***

Winston Churchill High School, Potomac, Maryland, 1980  
Wesleyan University, Middletown, Connecticut, 1984, B.A. (Biology/Psychology)  
Georgetown University School of Medicine, Washington, D.C., 1989, M.D.

***ACADEMIC TRAINING***

- House Officer I-II, Obstetrics and Gynecology, Pennsylvania Hospital, Philadelphia, Pennsylvania, 1989-1991
- House Officer III-IV, Obstetrics and Gynecology, University of Colorado Health Sciences Center, Denver, Colorado, 1991-1993
- Fellow, Maternal Fetal Medicine, Department of Obstetrics and Gynecology, University of Colorado Health Sciences Center, Denver, Colorado, 1993-1995
- Fellow, Clinical Genetics, Departments of Pediatrics and Obstetrics and Gynecology, University of Colorado Health Sciences Center, Denver, Colorado, 1995-1996
- NIH Women's Reproductive Research Scholar, July, 2006 – June, 2008, Department of Obstetrics and Gynecology, University of Colorado Health Sciences Center

***ADMINISTRATIVE EXPERIENCE***Departmental:

- Finance and Incentive Plan Committee, October, 2007-present
- Education Committee, 1992-present; Co-chair Jan. 2000-present
- Practice Director, University Maternal Fetal Medicine Practice, Jan 2000-June, 2001
- Genetics Task Force, Department of Obstetrics and Gynecology, University of Colorado Health Sciences Center, 1996 to present
- Coordinator, Prenatal Diagnosis and Genetics Conference, 1993-2000
- Resident selection core committee, January, 2000- October, 2006
- Executive Committee, October, 2006 - present
- Clinical Faculty Appointment Committee, October 2009 - present

Committees:

## Local:

- Rocky Mountain Regional Genetic Services Network, Prenatal Committee, 1995 - present
- Obstetrics Director, University of Colorado Health Sciences Center Cord Blood Bank, 1996 to May, 2002
- Colorado Multiple Institutional Review Board, member, 1997 to March, 2000
- Ad hoc interdepartmental committee for neonatal resuscitation guidelines, 2004-2005.
- Working group on women's health research under the auspices of the Office of Women's Health Research, charter member, March, 2005 – present
- Public Affairs Committee, March of Dimes, November, 2007-present

## National:

- Association of Professors in Gynecology and Obstetrics (APGO) Testing Taskforce, January, 2003-present
- Society for Maternal-Fetal Medicine Publications Committee, January, 2005 – February, 2009
- Undergraduate Medical Education Committee (UMEC), Association of Professors in Gynecology and Obstetrics (APGO), March, 2008 – present
- Association of Professors in Gynecology and Obstetrics (APGO) Nominating Committee for APGO Board of Directors, 2008-2009
- Genetics Education Sub-committee, Society for Maternal-Fetal Medicine, 2008-present

Medical Societies:

- American College of Obstetrics & Gynecology, 1990 to present
- Colorado Gynecological & Obstetrical Society, 1991 to present

- Committee on Prenatal Diagnosis, Rocky Mountain Regional Genetics Services Network (RMRGSN), 1995 to present
- American Society of Human Genetics, 1996 to 2005
- American Medical Association, 1997 to present
- Society of Maternal Fetal Medicine, 1997 to present
- American College of Medical Genetics, Fellow, 1997 to present
- American Institute of Ultrasound Medicine, 1999 to present
- Association of Professors of Gynecology and Obstetrics, 2000 to present
- International Society of Ultrasound in Obstetrics and Gynecology, 2002 to present

#### ***STATE LICENSURE***

State of Colorado, 1991 to present (#31866)

#### ***CERTIFICATION***

Diplomate, American Board of Obstetrics and Gynecology: Maternal Fetal Medicine Subspecialty, 1999

Diplomate, American Board of Obstetrics and Gynecology, 1997

Diplomate, American Board of Medical Genetics, 1996; Maintenance of Certification, 2006

#### ***HONORS***

- March of Dimes Award for Best Research in Prematurity, Annual Meeting of the Society for Maternal Fetal Medicine, January, 2008 (co-author)
- APGO/Ortho-McNeil Undergraduate Medical Education Research Award (\$15,000), 2007
- First Prize Poster Award, Annual CREOG and APGO Meeting, 2006 (co-author)
- Second Prize Poster Award, Annual CREOG and APGO Meeting, 2006 (mentor and co-author)
- Award of Appreciation for outstanding job as course director of "Update in Perinatal Genetics", Annual Meeting of the Society for Maternal Fetal Medicine, February, 2006
- The Dru Carlson Memorial Award for Best Research in Ultrasound and Genetics, Annual Meeting of the Society for Maternal Fetal Medicine, February, 2006 (co-author)
- America's Top Obstetricians and Gynecologists, 2004-2007
- Mentor for Most Outstanding Resident Research Presentation, University of Colorado Health Sciences Center, 2005
- The Best Doctors in America, 2005-2010
- Research Excellence Award, Annual Meeting of the Society for Maternal Fetal Medicine, February, 2004 (first author)
- Roy M. Pitkin Award for Excellence in Research, 2004 (co-author)
- The Dru Carlson Memorial Award for Best Research in Ultrasound and Genetics, Annual Meeting of the Society for Maternal Fetal Medicine, February, 2004 (co-author)
- Castle Connolly America's Top Doctor award, 2003-2010
- APGO-Solvay Scholars Program, 2001-2002
- 2001 APGO Excellence in Teaching Award
- Berlex Foundation Scholar, 1999

#### ***EDITORIAL POSITIONS***

Co-Editor, Postgraduate Obstetrics and Gynecology, 2008 - present

Peer Reviewer, Obstetrics and Gynecology, 1999-present, top 10% of reviewers 2007, 2008

Peer Reviewer, American Journal of Obstetrics and Gynecology, 2002-present

Peer Reviewer, Ultrasound in Obstetrics and Gynecology, 2003 - present

Peer Reviewer, Journal of Ultrasound in Medicine, 2005-present  
Peer Reviewer, JAMA, 2005  
Peer Reviewer, American Journal of Perinatology, 2006  
Peer Reviewer, Prenatal Diagnosis, 2006 – present  
Peer Reviewer, Journal of Perinatal Medicine, 2008  
Peer Reviewer, British Journal of Obstetrics and Gynecology, 2008 – present  
Peer Reviewer, New England Journal of Medicine, 2008-present

***OTHER ACTIVITIES***

- Speaker, March of Dimes program for teenage pregnancy prevention, 1994 to present
- University of Colorado Health Sciences Center, Child Health Associate Program, Course Director – Obstetrics and Gynecology, 1997 to 2002
- Co-developer of the University of Colorado Gynecologic Teaching Associate Program (GTA Program), 2000
- Course Director, Maternity Matching elective for medical students, 2000-present
- Course co-Director, Issues in Reproductive Health (IDPT 6633), 2000-2003
- Judge for oral general session, CREOG and APGO Annual Meeting, March 2-5, 2005, Salt Lake City, UT.
- Judge for genetics poster session, 27<sup>th</sup> Annual Meeting of the Society for Maternal-Fetal Medicine, San Francisco, CA, February, 2007.
- Hidden Curriculum Tutor, mentor for a group of third year medical students, 2005-2006.
- Abstract reviewer, Society for Maternal Medicine, Annual Meeting, 2007, 2008, 2009.
- Judge for oral session, 28<sup>th</sup> Annual Meeting of the Society for Maternal-Fetal Medicine, Dallas, TX, February, 2008.
- Department of Ob/Gyn Clinical Translational Research Core for Pregnancy, member, 2007-present.
- Abstract reviewer, 57<sup>th</sup> Annual Clinical Meeting of the American College of Obstetricians and Gynecologists, October, 2008.
- Judge for genetics poster session, 29<sup>th</sup> Annual Meeting of the Society for Maternal-Fetal Medicine, San Diego, CA, February, 2009.
- Judge for poster session, CREOG and APGO Annual Meeting, San Diego, CA, March, 2009.
- Thought leader, SMFM Monograph ‘State of High Risk Pregnancy’, July, 2009.
- Program Co-Chair. Learning in Motion: Moving Forward in Women’s Health Education. 2010 APGO Faculty Development Seminar, Scottsdale, AZ, January 16-19, 2010.
- Moderator for oral abstract session, CREOG and APGO Annual Meeting, Orlando, FL, March, 2010.

***CURRENT RESEARCH ACTIVITIES:***

- Educational development and implementation of core curriculum in obstetrics and gynecology for medical students
- Multi-center survey to compare first through fourth year medical students who express interest in a career in obstetrics and gynecology to their classmates on the basis of demographic, career values, and lifestyle values characteristics
- Prediction of adverse pregnancy outcome using maternal serum and plasma markers and uterine artery Doppler velocimetry

***GRANTS:***

1. NIH Grant #1R01HD38652, “FASTER-First and second trimester evaluation of risk.” Co-investigator (PI at University of Colorado site), Total direct cost at University of Colorado = \$328,984.
2. Department of Ob/Gyn Academic Enrichment Fund, “The effect of nitroglycerin on the success rate of external cephalic version.” \$10,000.
3. Solvay Grant, “Assessment of obstetrics and gynecology and internal medicine interns’ baseline clinical exam skills.” \$2000.
4. NIH Women’s Reproductive Research Scholarship, July, 2006 – June, 2008, Department of Obstetrics and Gynecology, University of Colorado Health Sciences Center
5. APGO/Ortho-McNeil Undergraduate Medical Education Research Award, July, 2007. “When medical students learn best-Evaluation of the timing and frequency of standardized pelvic and breast exam skills training in the medical school curriculum”, \$15,000.
6. Diagnostic Technologies, Ltd., “A Nested Case-Control Study Evaluating the Utility of Placental Protein 13 (PP13) In-vitro Diagnostic Kit as a Diagnostic Aiding Tool in Assessment of the Risk for Developing Preeclampsia Necessitating Delivery Before 37 Weeks (Early-preeclampsia) in women with Low and Unknown Risk”, November, 2007, \$50,000.
7. NIH Grant # 1R03 HD057324-01A2, Primary-investigator, “Maternal markers and prediction of preeclampsia”, 07-01-2009, \$76,792.
8. Child & Maternal Health Pilot Grant Program of the Colorado Clinical and Translational Sciences Institute Pilot Grant, “Pregnancy-Associated Plasma Protein 2 (PAPPA2), A Potential Biomarker for Preeclampsia”, Co-investigator, January, 2010, \$19,965

#### ***JOURNAL PUBLICATIONS:***

1. Schlaff WD, **Dugoff L**, Damewood MD, Rock JA. Megestrol acetate for treatment of endometriosis. *Obstet Gynecol* 75:646-48, 1990.
2. **Dugoff L**, Jones OW 3rd, Allen-Davis J, Hurst BS, Schlaff WD. Assessing the acceptability of Norplant contraceptive in four patient populations. *Contraception* 52(1):45-49, 1995.
3. **Dugoff L**, Sujansky E. Neurofibromatosis Type 1 and Pregnancy. *Am J Med Genet* 66:7-10, 1996.
4. **Dugoff L**, Coffin CT, Hobbins JC. Sonographic measurement of the fetal rib cage perimeter to thoracic circumference ratio: application to prenatal diagnosis of skeletal dysplasias. *Ultrasound Obstet Gynecol* 10:269-71, 1997.
5. **Dugoff L**, Genetic Screening of the Pregnant Patient: What is Required?, *OB-GYN Management*. September, 1998.
6. **Dugoff L**, Stamm CA, Jones OW 3rd, Mohling SI, Hawkins JL. The effect of spinal anesthesia on the success rate of external cephalic version. *Obstet Gynecol.* 93:345-49, 1999.
7. **Dugoff L**. External Cephalic Version—When and How?, *OB-GYN Management*. May, 2000.
8. **Dugoff L**, Thieme G, Hobbins JC. Skeletal Anomalies. *Clinics in Perinatology.* 27:979-1006, 2000.

9. **Dugoff L**, Thieme G, Hobbins JC. First Trimester Prenatal Diagnosis of Chondroectodermal Dysplasia (Ellis-van Creveld syndrome) With Ultrasound. *Ultrasound Obstet Gynecol.* 17:86-88, 2001.
10. **Dugoff L**, Hobbins JC. Invasive Procedures to Evaluate the Fetus. *Clinical Obstetrics and Gynecology.* December, 2002.
11. **Dugoff L.** Ultrasound Diagnosis of Structural Abnormalities in the First Trimester. *Prenat Diag.* 22:316-320, 2002.
12. **Dugoff L**, Everett M, Vontver L, Brandenburg S, Barley G. Evaluation of pelvic and breast exam skills in obstetrics and gynecology and internal medicine interns. *American J Obstet Gynecol* 189:655-8, 2003.
13. Weiss JL, Malone FD, Vidaver J, Ball RH, Nyberg DA, Comstock CH, Hankins DH, Berkowitz RL, Gross SJ, **Dugoff L**, Timor-Tritsch IE, D'Alton ME. Threatened Abortion: a risk factor for poor pregnancy outcome-a population based screening study. *Am J Obstet Gynecol* 190:745-50, 2004.
14. **Dugoff L**, Hobbins JC, Malone FD, Porter TF, Luthy D, Comstock CH, Hankins G, Berkowitz RL, Merkatz I, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, Vidaver J, D'Alton ME. First trimester maternal serum PAPP-A and free-beta sub-unit hCG concentrations and nuchal translucency are associated with obstetric complications: A population based screening study (The FASTER Trial). *Am J Obstet Gynecol* 191:1446-1451, 2004.
15. Malone FD, Ball RH, Nyberg DA, Comstock CH, Saade G, Berkowitz RL, **Dugoff L**, Craigo SD, Wolfe HM, Tripp T, D'Alton ME. First trimester nasal bone evaluation for aneuploidy in the general population: results from the FASTER trial. *Obstet Gynecol* 104:1222-1233, 2004.
16. Malone FD, Canick JA, Ball RH, Nyberg DA, Comstock CH, Bukowski R, Berkowitz RL, Gross SJ, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, Dukes K, Bianchi DW, Rudnicka AR, Hackshaw AK, Lambert-Messerlian G, Wald NJ, D'Alton ME. First-trimester or second-trimester screening, or both, for Down's syndrome. *N Engl J Med* 353:2001-11, 2005.
17. Cleary-Goldman J, Malone FD, Vidaver J, Ball RH, Nyberg DA, Comstock CH, Saade GR, Eddleman KA, Gross SJ, **Dugoff L**, Timor-Tritsch IE, Craigo SD, Carr SR, Wolfe HM, D'Alton ME. Impact of maternal age on obstetric outcome. *Obstet Gynecol* 105:983-990,2005.
18. **Dugoff L**, Hobbins JC, Malone FD, Vidaver J, Sullivan L, Canick JA, Lambert-Messerlian GM, Porter TF, Luthy D, Comstock CH, Saade G, Eddleman K, Merkatz I, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, D'Alton ME. Quad screen as a predictor of adverse pregnancy outcome. *Obstet Gynecol* 106:260-7, 2005.
19. Malone FD, Ball RH, Nyberg DA, Comstock CH, Saade GR, Berkowitz RL, Gross SJ, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, Dukes K, Canick JA, Bianchi DW, D'Alton ME. First-trimester septated cystic hygroma. *Obstet Gynecol* 106:288-94, 2005.

20. **Dugoff L**, Lynch A, Cioffi-Ragan D, Hobbins JC, Schultz LK, Malone FD, D'Alton ME. First trimester uterine artery Doppler abnormalities predict subsequent intrauterine growth restriction. *Am J Obstet Gynecol* 193:1208-12, 2005.
21. Shevell T, Malone FD, Vidaver J, Porter TF, Luthy DA, Comstock CH, Hankins GD, Eddleman K, Dolan S, **Dugoff L**, Craigo S, Timor IE, Carr SR, Wolfe HM, Bianchi DW, D'Alton ME. Assisted reproductive technology and pregnancy outcome. *Obstet Gynecol* 106:1039-45, 2005.
22. Healy AJ, Malone FD, Sullivan LM, Porter FT, Luthy DA, Comstock CH, Saade G, Berkowitz R, Klugman S, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, Bianchi DW, D'Alton ME. Early access to prenatal care: Implications for racial disparity in perinatal mortality. *Obstet Gynecol* 107:625-31, 2006.
23. Lambert-Messerlian G, **Dugoff L**, Vidaver J, Canick JA, Malone FD, Ball RH, Nyberg DA, Comstock CH, Saade G, Eddleman K, Gross SJ, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, D'Alton ME First and second trimester Down syndrome screening markers in pregnancies achieved through assisted reproductive technologies (ART): A FASTER trial study. *Prenat Diagn* 26:672-8, 2006.
24. Comstock CH, Malone FD, Ball RH, Nyberg DA, Saade G, Berkowitz RL, Gross SJ, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, Bianchi DW, D'Alton ME Is there a nuchal translucency millimeter measurement above which there is no added benefit from first trimester serum screening? *Am J Obstet Gynecol* 195:843-7,2006.
25. Canick JA, Lambert-Messerlian GM, Wald NJ, Malone FD, Ball RH, Nyberg DA, Comstock CH, Bukowski R, Berkowitz RL, Gross SJ, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, D'Alton ME. Comparison of free beta-human chorionic gonadotropin, total-human chorionic gonadotropin and inhibin A in the first trimester of Down syndrome pregnancies: A FASTER trial study. *Obstet Gynecol* 108:1192-9, 2006.
26. Bukowski R, Smith GCS, Malone FD, Ball RH, Nyberg DA, Comstock CH, Hankins GD, Berkowitz RL, Gross SJ, **Dugoff L**, Craigo SD, Timor IE, Carr SR, Wolfe HM, Dukes K, D'Alton ME. Human sexual size dimorphism in early pregnancy. *Am J Epidemiology* 165:1216-8, 2007.
27. Hammoud MM, Stansfield RB, Katz NT, **Dugoff L**, McCarthy J, White CB. The Effect of the Obstetrics and Gynecology Clerkship on Students' Interest in a Career in Obstetrics and Gynecology. *Am J Obstet Gynecol* 195(5):1422-6, 2006.
28. Ball RH, Caughey, Malone FD, Nyberg DA, Comstock CH, Saade G, Berkowitz RL, Gross SJ, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, Emig D, D'Alton ME First- and second- trimester evaluation of risk for Down syndrome. *Obstet Gynecol* 110:10-7, 2007.
29. Simpson LL, Malone FD, Bianchi DW, Ball RH, Nyberg DA, Comstock CH, Saade G, Eddleman K, Gross SJ, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, Tripp T, D'Alton ME. Nuchal translucency and the risk of congenital heart disease: A population-based screening study (The FASTER Trial). *Obstet Gynecol*109:376-83, 2007.

30. Eddleman KA, Malone FD, Sullivan L, Vidaver J, Berkowitz RL, Kharbutli Y, Porter TF, Luthy DA, Comstock CH, Saade GR, Klugman S, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, Tripp T, D'Alton ME. Pregnancy loss rates after mid-trimester amniocentesis: The FASTER Trial. *Obstet Gynecol* 108:1067-72, 2006.
31. **Dugoff L**, Lynch AM, Hobbins, JC, Malone FD, D'Alton ME. Reply to letter to the editor re: First trimester uterine artery Doppler abnormalities predict subsequent intrauterine growth restriction. Accepted for publication in *Am J Obstet Gynecol*, June, 2006.
32. Belogolovkin B, Eddleman KA, Malone FD, Sullivan L, Ball RH, Nyberg DA, Comstock CH, Hankins GD, Gross SJ, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, D'Alton ME. The effect of low body mass index on the development of gestational hypertension and preeclampsia. *Journal of Maternal-Fetal & Neonatal Medicine* 20:509-13,2007.
33. Dolan S, Gross SJ, Merkatz IR, Faber V, Sullivan LM, Malone FD, Porter TF, Nyberg DA, Comstock CH, Hankins GDV, Eddleman K, **Dugoff L**, Craigo SD, Timor-Tritsch I, Carr SR, Wolfe HM, Bianchi DW, D'Alton ME. The contribution of birth defects to prematurity and low birth weight in a population-based screening study. *Obstet Gynecol* 110:318-24, 2007.
34. Breathnach FM, Malone FD, Lambert-Messerlian G, Cuckle HS, Porter TF, Nyberg DA, Comstock CH, Saade GR, Berkowitz RL, Gross SJ, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, Tripp T, Bianchi DW, D'Alton ME. First and second trimester screening: detection of aneuploidies other than Down syndrome. *Obstet Gynecol* 110:651-57, 2007.
35. Bukowski R, Smith GCS, Malone FD, Ball RH, Nyberg DA, Comstock CH, Hankins GDV, Berkowitz RL, Gross SJ, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, D'Alton ME. Fetal growth in early pregnancy and risk of delivering low birth weight infant: prospective cohort study. *BMJ* 334:836, 2007.
36. Cuckle HS, Malone FD, Wright D, Canick JA, Porter TF, Nyberg DA, Comstock CH, Saade GR, Berkowitz RL, Gross SJ, **Dugoff L**, Craigo SD, Timor IE, Carr SR, Wolfe HM, D'Alton ME. Contingent screening for Down syndrome – results from the FASTER trial. *Prenat Diagn* 28:89-94, 2008.
37. Bukowski R, Uchida T, Smith GCS, Malone FD, Ball RH, Nyberg DA, Comstock CH, Hankins GDV, Berkowitz RL, Gross SJ, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, D'Alton ME. Individualized norms of optimal fetal growth: Fetal growth potential. *Obstet Gynecol* 111:1065-1076, 2008.
38. Hoffman JD, Bianchi DW, Sullivan LM, MacKinnon BL, Collins J, Malone FD, Porter TF, Nyberg DA, Comstock CH, Bukowski R, Berkowitz RL, Gross SJ, **Dugoff L**, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, Lambert-Messerlian GM, D'Alton ME. Down syndrome serum screening also identifies an increased risk for multicystic dysplastic kidney, two-vessel cord, and hydrocele. *Prenat Diagn* 28:1204-8,2008.
39. **Dugoff L**, Cuckle H, Hobbins JC, Malone FD, Porter F, Nyberg D, Comstock C, Saade G, Eddleman K, Gross S, Craigo S, Timor I, Carr S, Wolfe H, D'Alton ME. Assessment of risk for fetal loss by maternal characteristics with first and second trimester maternal serum markers. *Am J Obstet Gynecol* 199:290.e1-6, 2008.



40. McCarthy JD, Katz NT, **Dugoff L**, Hammoud M. Changes in medical student attitudes about the need for informed consent during clinical clerkships. Submitted for publication in American Journal of Obstetrics and Gynecology, October, 2008.
41. **Dugoff L**, Cuckle HS, Hobbins JC, Malone FD, Porter TF, Luthy D, Comstock CH, Saade G, Berkowitz RL, Merkatz I, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, D'Alton ME. Assessment of risk for preeclampsia requiring delivery prior to 34 weeks gestation by maternal characteristics with first and second trimester maternal serum markers. Submitted for publication in Obstetrics and Gynecology, November, 2008.
42. D'Alton ME, Cleary-Goldman J, Lambert-Messerlian G, Ball RH, Nyberg DA, Comstock CH, Bukowski R, Berkowitz RL, Dar P, **Dugoff L**, Timor-Tritsch IE, Carr SR, Wolfe HM, Dukes K, Canick JA, Malone FD. Maintaining quality assurance for sonographic nuchal translucency measurement: lessons learned from the FASTER trial. *Ultrasound in Obstetrics and Gynecology* 33:142-46:2009.
43. Aagaard-Tillery K, Malone FD, Nyberg D, Collins J, Porter F, Cuckle H, Collins J, Comstock CH, Saade G, Eddleman K, Gross S, **Dugoff L**, Craigo S, Timor IE, Carr S, Wolfe HM, D'Alton ME. First and second trimester evaluation of risk (FaSTER) trial: The role of second trimester genetic sonography. Accepted for publication in *Obstetrics and Gynecology*, August, 2009.
44. Bukowski R, Malone FD, Porter F, Nyberg DA, Comstock C, Hankins G, Eddleman K, Gross S, **Dugoff L**, Craigo S, Timor-Tritsch IE, Carr SR, Wolfe HM, D'Alton ME. Preconceptional folate supplementation and the risk of spontaneous preterm birth: A cohort study. *PLoS Med* 6(5): e1000061, 2009.
45. Chuang AW, Nuthalapaty FS, Casey PM, Kaczmarcyck JM, Cullimore A, Dalrymple JL, **Dugoff L**, Espy EL, Hammoud MH, Hueppchen NA, Katz NT, Peskin ET. To the point: Reviews in medical education-Taking control of the hidden curriculum. Submitted for publication in *American Journal of Obstetrics and Gynecology*, September, 2009.
46. Aagaard-Tillery K, Porter TF, Malone FD, Nyberg DA, Collins J, Comstock CH, Hankins G, Eddleman K, **Dugoff L**, Wolfe HM, D'Alton ME. Influence of maternal BMI on genetic sonography in the FASTER trial. *Prenat Diagn* 30:14-22:2009.
47. Cullimore A, Dalrymple JL, Casey PM, Chuang AW, Kaczmarcyck JM, , **Dugoff L**, Espy EL, Hammoud MH, Hueppchen NA, Katz NT, Nuthalapaty FS, Peskin ET. To the point: The resident as a teacher. Accepted for publication in *Journal Obstetrics and Gynecology Canada*, February, 2010.
48. **Dugoff L** for the Society for Maternal-Fetal Medicine. First-and second-trimester maternal serum markers for aneuploidy and adverse obstetric outcomes. *Obstet Gynecol* 115:1052-61: 2010.
49. **Dugoff L**, Melendez B, Hancock N, Galan HG, Wheeler M, Davies JK, Lynch A, Hobbins JC. Second trimester uterine artery Doppler in women with abnormal quad screen analytes, Submitted for publication in *American Journal of Obstetrics and Gynecology*, March, 2010.

## In Preparation:

50. **Dugoff L**, Teal SB, Katz NT, Cox SM. Factors that attract medical students to a career in obstetrics and gynecology: a multi-center, cross-sectional study.
51. **Dugoff L**, Cuckle HS, Hobbins J, Malone F, Canick J, Porter F, Luthy D, Comstock C, Saade G, Eddleman K, Gross S, Craigo S, Timor-Trisch I, Carr S, Wolfe H, D'Alton M. The effect of vaginal bleeding on maternal serum PAPP-A, free  $\beta$ -hCG, and nuchal translucency. A population based screening study (The FASTER Trial).
52. **Dugoff L**, Kramer T, Hill ML, Lim K, Souter V, Benacerraf B, Vintzileos A, Platt L, Abuhamad A, Hobbins JC. Choroid Plexus Cysts: Assessment of Trisomy 18 risk using ultrasound and biochemical markers.

**BOOK CHAPTERS AND MONOGRAPHS:**

1. **Dugoff L**, Schlaff WD. Leiomyomas of the uterus in Conn's Current Therapy, ed. Rake RE, WB Saunders Co., Philadelphia, Pennsylvania, p. 1076, 1992.
2. **Dugoff L**, Toxoplasmosis in Protocols in High Risk Pregnancy, third edition, eds. Queenan J, Hobbins JC, Blackwell Sciences, Inc., Cambridge, Massachusetts, pp. 382-86, 1996.
3. **Dugoff L**, Genetic Counseling. Medical Care of the Pregnant Woman, eds. Lee RV, Rosene-Montella K, Barbour LA, Garner PR, Keely E, American College of Physicians, pp.33-43, 2000.
4. **Dugoff L**. Editor for Objective 33:Fetal Growth Abnormalities and Objective 32:Postterm Pregnancy, Undergraduate Medical Education Committee, Womens Health Educational Objectives CD-ROM project, Principal Coordinator, Sue Cox, submitted November, 2002.
5. **Dugoff L**. Counseling for Fetal Anomalies. Protocols in High Risk Pregnancy, fourth edition, eds. Queenan J, Hobbins JC, Spong C, Blackwell Publishing, Inc., Malden, MA, pp. 513-18, 2005.
6. **Dugoff L**. Genetic counseling and prenatal diagnosis. Medical Care of the Pregnant Woman, second edition, eds. Lee RV, Rosene-Montella K, Barbour LA, Garner PR, Keely E, American College of Physicians, 2008.
7. **Dugoff L**. Prenatal Diagnosis. Danforth's Obstetrics and Gynecology, tenth edition, eds. Gibbs RS, Karlan BY, Haney AF, Nygaard I, Lippincott, Williams, & Wilkins, Philadelphia, PA, p. 111-121, 2008.
8. **Dugoff L**, Hobbins JC, Techniques for Genetic Diagnosis in the Fetus, Fetal and Neonatal Cardiology. Eds. Kleinman CS, Copel JA, W.B Saunders Company, Philadelphia, submitted January, 2008.

9. Lovgren TR, **Dugoff L**, Galan HL. Uterine Artery Doppler and Prediction of Preeclampsia. Submitted for publication in *Clinical Obstetrics and Gynecology*, April, 2010.

**ABSTRACTS:**

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74. **Dugoff L**, Cuckle H, Hobbins JC, Malone FD, Porter F, Nyberg D, Comstock C, Saade G, Berkowitz R, Gross S, Craigo S, Timor-Tritsch I, Carr S, Wolfe H, D'Alton ME. Assessment of risk for birth weight < 5<sup>th</sup> percentile for gestational age by maternal characteristics with nuchal translucency and maternal serum markers. 28<sup>th</sup> Annual Meeting of the Society for Maternal Fetal Medicine, Dallas, TX, February, 2008.
75. Rosen T, Cuckle H, Malone FD, Porter F, Nyberg D, Comstock C, Bukowski R, Berkowitz R, Gross S, **Dugoff L**, Craigo S, Timor-Tritsch I, Carr S, Wolfe H, D'Alton ME. Combining First

- and second trimester Down syndrome screening results: a simple effective approximation. 28<sup>th</sup> Annual Meeting of the Society for Maternal Fetal Medicine, Dallas, TX, February, 2008.
76. Bukowski R, Malone FD, Porter F, Nyberg DA, Comstock C, Hankins G, Eddleman K, Gross S, **Dugoff L**, Craigo S, Timor-Tritsch IE, Carr SR, Wolfe HM, D'Alton ME. Preconceptional folate prevents preterm delivery. 28<sup>th</sup> Annual Meeting of the Society for Maternal Fetal Medicine, Dallas, TX, February, 2008.
77. Bukowski R, Malone FD, Porter F, Nyberg DA, Comstock C, Hankins G, Eddleman K, Gross S, **Dugoff L**, Craigo S, Timor-Tritsch IE, Carr SR, Wolfe HM, D'Alton ME. Extremes of fetal growth are associated with spontaneous birth. 28<sup>th</sup> Annual Meeting of the Society for Maternal Fetal Medicine, Dallas, TX, February, 2008.
78. **Dugoff L**, Cuckle H, Hobbins JC, Malone FD, Porter F, Nyberg D, Comstock C, Saade G, Eddleman K, Gross S, Craigo S, Timor I, Carr S, Wolfe H, D'Alton ME. Assessment of risk for fetal loss by maternal characteristics with first and second trimester maternal serum markers. 2008 Women's Reproductive Health Research (WRHR) Scholar's Research Symposium, Rochester, NY, June, 2008.
79. Bukowski R, Malone DF, Porter TF, Nyberg DA, Comstock CH, Hankins G, Eddleman , Gross SJ, **Dugoff L**, Craigo S, Timor-Tritch IE, Carr SR, Wolfe HN, D'Alton ME. Fetal macrosomia increases risk of stillbirth. 29<sup>th</sup> Annual Scientific Meeting of the Society for Maternal-Fetal Medicine, San Diego, CA, January, 2009.
80. Bukowski R, Malone FD, Porter RF, Nyberg DA, Comstock CH, Hankins G, EddlemanK, Gross SJ, **Dugoff L**, Craigo S, Timor-Tritsch IE, Carr SR, Wolfe HN, D'Alton ME. Preconceptional folate reduces perinatal mortality and morbidity. 29<sup>th</sup> Annual Scientific Meeting of the Society for Maternal-Fetal Medicine, San Diego, CA, January, 2009.
81. **Dugoff L**, Fisher J, Barley G. An evaluation of the timing and frequency of pelvic and breast exam skill training in medical school curriculum. APGO & CREOG Annual Meeting, San Diego, CA, March, 2009.
82. **Dugoff L**, Fisher J, Barley G. Student opinion of timing and approach to pelvic and breast exam skills learning and their skill confidence over time. APGO & CREOG Annual Meeting, San Diego, CA, March, 2009.
83. **Dugoff L**, Hancock N, Melendez B, Schneider J, Galan HG, Wheeler M, Davies JK, Lynch A, Hobbins JC. Second trimester uterine artery Doppler in women with abnormal quad screen analytes, 30<sup>th</sup> Annual Scientific Meeting of the Society for Maternal-Fetal Medicine, Chicago, IL January, 2010.

#### ***NATIONAL/INTERNATIONAL PRESENTATIONS:***

1. Grand Rounds, Rose Medical Center, Denver, Colorado, "Recurrent pregnancy loss," September, 1992

2. Chief Resident Research Presentation, University of Colorado Health Sciences Center, Denver, Colorado, "The Norplant experience at the University of Colorado Health Sciences Center," June, 1993
3. Symposium on Neurofibromatosis, The Children's Hospital National Medical Center, Denver, Colorado, "Pregnancy and birth control in women with neurofibromatosis," October, 1993
4. Prenatal Diagnosis Conference, University of Colorado Health Sciences Center, Denver, Colorado, "The role of the triple screen in prenatal diagnosis," May, 1994
5. Nurse Practitioner Course, Planned Parenthood of the Rocky Mountains, Denver, Colorado, "OB pharmacology" and "Management of infection during pregnancy," September, 1994 and October, 1995
6. Prenatal Diagnosis Conference, University of Colorado Health Sciences Center, Denver, Colorado, "Ultrasonographic markers for fetal aneuploidies," November, 1994
7. Genetic Counseling Training Program, University of Colorado Health Sciences Center, Denver, Colorado, "Recurrent pregnancy loss and management of pregnancy termination," annually, 1995 to 2000.
8. Genetics Graduate Program Cytogenetics Course, University of Colorado Health Sciences Center, Denver, Colorado, "Prenatal diagnosis and genetics," annually, 1995 to present
9. Genetics Special Interest Group, Society of Perinatal Obstetricians Annual Meeting, Kamuela, Hawaii, "In utero stem cell transplantation," February, 1996
10. Genetics Graduate Program, University of Colorado Health Sciences Center, Denver, Colorado, "High risk pregnancy," January, 1997
11. High Risk Obstetrics Conference, University of Colorado Health Sciences Center, Denver, Colorado, "Chromosomal abnormalities," April, 1997.
12. Grand Rounds, Denver Health Medical Center, Denver, Colorado, "Multiple marker screening for Down Syndrome," May, 1997
13. High Risk Obstetrics Conference, University of Colorado Health Sciences Center, Denver, Colorado, "Prenatal biochemical screening for Down syndrome and neural tube defects," May, 1997.
14. High Risk Obstetrics Conference, University of Colorado Health Sciences Center, Denver, Colorado, "Common genetic syndromes/counseling issues every OB/GYN should know," May, 1997.
15. Conference on Maternal Fetal Health, Denver Health Medical Center, Denver, Colorado, "Pre-eclampsia and HELLP syndrome," August, 1997.
16. Prenatal Diagnosis Conference, University of Colorado Health Sciences Center, Denver, Colorado, "First Trimester Prenatal Diagnosis," April, 1998.

17. University of Colorado Genetic Counseling Training Program. "Use of Ultrasound in Prenatal Diagnosis," March, 1998.
18. Medical Genetics Seminar, University of Colorado Health Sciences Center. "First Trimester Prenatal Diagnosis," May, 1998.
19. Pediatrics/Neonatal Seminar, University of Colorado Health Sciences Center. "First Trimester Prenatal Diagnosis," May, 1998.
20. Ultrasound: A Practical Approach, Course Faculty, Denver, CO, "Prenatal ultrasound: 10-13 weeks' gestation", June, 1998.
21. Grand Rounds, University of Colorado Health Sciences Center, "Genetics for the Obstetrician/Gynecologist", June, 1998.
22. Mountain States Regional Genetic Services Network (MSRGSN) Genetics Workshop, Colorado Springs, Colorado. "First Trimester Prenatal Diagnosis", October, 1998.
23. Grand Rounds, St. Anthony Central, Denver, CO. "Colorado Preterm Birth Prevention Project", February, 1999.
24. Innovations in Advanced Obstetric and Gynecologic Ultrasound, Course Faculty, Denver, CO, "First Trimester Diagnosis" and "Genetic Case Studies", May, 1999.
25. Medical School Course Lecture, BMG 5001, Medical Genetics Lecture on Prenatal Diagnosis, May, 1999, 2000, 2001, 2002.
26. 22<sup>nd</sup> Annual Perinatal Conference. Perinatal Care: 1999 Updates and Controversies, Laramie, WY, "Genetic counseling: who needs it?", October, 1999.
27. Fifth Annual Educational Symposium of the Colorado Ultrasound Society. Denver, CO, "New findings in first trimester prenatal diagnosis", October, 1999.
28. Maternal-Fetal Physiology Lecture Series. University of Colorado Health Sciences Center, Denver, CO. "Prenatal Diagnosis—Biochemical/Molecular Testing", February, 2000.
29. Advanced Obstetrical Ultrasound: New Developments That Will Change the Way You Practice", Adam's Mark Hotel, Denver, CO. "Making Sense of Skeletal Dysplasias", May 2000.
30. Grand Rounds, University of Colorado Health Sciences Center, "New advances in first trimester prenatal diagnosis", May, 2000.
31. 46<sup>th</sup> Annual Family Practice Review of the University of Colorado School of Medicine, Estes Park, Colorado, "Overview of prenatal diagnosis", June, 2000.
32. Grand Rounds, St. Joseph Exempla Hospital, Denver, CO, "First Trimester Prenatal Diagnosis", July, 2000.

33. 46<sup>th</sup> Annual Family Practice Review of the University of Colorado School of Medicine, Denver, Colorado, “Overview of Prenatal Diagnosis”, November, 2000.
34. Colorado Ultrasound Society: Sixth Annual Education Symposium, Denver, Colorado, “The FASTER Trial and First Trimester Prenatal Diagnosis”, November, 2000.
35. Prenatal Diagnosis and Genetics Conference, University of Colorado Health Sciences Center, Denver, Colorado, “Ultrasound Screening for Aneuploidy”, December, 2000.
36. Ninth Annual Ob/Gyn Ultrasound Update for Clinical Practice, Fort Lauderdale, Florida, “The New First Trimester Window to the Fetus”, December, 2000.
37. Grand Rounds, Rose Medical Center, Denver, CO, “The New First Trimester Window to the Fetus”, February, 2001.
38. Grand Rounds, Littleton Hospital, Denver, CO, “New Developments in First Trimester Prenatal Diagnosis”, February, 2001.
39. Colorado Perinatal Care Council Meeting, Colorado Springs, Colorado, “Advances in First Trimester Prenatal Diagnosis”, June, 2001.
40. Pediatrics/Neonatal Seminar, Denver, CO, “Update on Prenatal Diagnosis of Skeletal Dysplasias”, June, 2001.
41. Advanced Obstetrical Ultrasound: How Ultrasound Aids in Today’s Assessment of Fetal Growth, Development, and Well Being, Course Faculty, Denver, Colorado, “Ultrasound Markers for Aneuploidy-How Many Are There?” and “The Latest Information on First Trimester Diagnosis-The FASTER Trial”, July, 2001.
42. Colorado Rural Scholars Program, Denver, CO, “Prenatal Diagnosis and Genetics”, July, 2001.
43. Prenatal Diagnosis Seminar, Cagliari, Sardinia (Italy), “The status of first trimester screening for Down syndrome in the United States”, October, 2001.
44. Colorado Ultrasound Society: Seventh Annual Educational Symposium, Denver, Colorado, “How to approach the fetus with short limbs”, November, 2001.
45. 28<sup>th</sup> Annual Vail Obstetrics and Gynecology Conference, Vail, CO, “Screening for Down Syndrome”, February, 2002.
46. Issues in Reproductive Health Special Interest Group, Denver, CO, “A Career in Obstetrics and Gynecology”, April, 2002.
47. Advanced Obstetrical Ultrasound, Course Faculty, Denver, Colorado, “First Trimester Screening” and “Second Trimester Screening of Aneuploidy”, May, 2002.
48. Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, “Implementation of A Screening Program for Cystic Fibrosis”, June, 2002.

49. Grand Rounds, Kaiser Permanente, St. Joseph Exempla Hospital, Denver, CO. "Update on First Trimester Prenatal Diagnosis", June, 2002.
50. High-risk Obstetrics Conference, Anschutz Outpatient Pavilion, Denver, CO, "Genetic Screening", September, 2002.
51. Keynote Speaker, First Annual Colorado Nurse-Midwifery Symposium, Aurora, CO, "New Advances in First Trimester Prenatal Diagnosis", October, 2002.
52. Grand Rounds, Avista Hospital, Westminster, CO. "Recent Developments in Prenatal Diagnosis and Genetics: Cystic Fibrosis Screening and First Trimester Prenatal Diagnosis", November, 2002.
53. Colorado Ultrasound Society: Eighth Annual Educational Symposium, Denver, Colorado, "Update in screening for Down syndrome", November, 2002.
54. Maternity Matching Elective, University of Colorado Health Sciences Center, Denver, CO, "General overview of obstetrical ultrasound", February, 2003.
55. Issues in Reproductive Health Elective, University of Colorado Health Sciences Center, Denver, CO, "An overview of prenatal diagnosis: indications and procedures", February, 2003.
56. Third year clerkship orientation lecture series, University of Colorado Health Sciences Center, Denver, CO, "Prenatal diagnosis and genetics", April, 2003.
57. Advanced Obstetrical Ultrasound: Ultrasound for the enlightened practitioner, Course Faculty, Denver, Colorado, "Making sense of skeletal dysplasias", "Diagnosis of first trimester anomalies", and "First trimester screening for aneuploidy", May, 2003.
58. Intern lecture series, Denver, CO, "Orientation to the medical student clerkship: what qualities define an excellent teacher?", June, 2003-2009.
59. Third year clerkship orientation lecture series, University of Colorado Health Sciences Center, Denver, CO, "Contraception", June, 2003.
60. Obstetric Ultrasound in the High Risk Patient, Course Faculty, Las Vegas, Nevada, October, 2003.
61. 30<sup>th</sup> Annual Vail Obstetrics and Gynecology Conference, Vail, CO, "Prenatal diagnosis in the first trimester", February, 2004.
62. Prenatal Diagnosis and Genetics Conference, University of Colorado Health Sciences Center, "The newest techniques in screening for Down syndrome", April, 2004.
63. Advanced Obstetrical Ultrasound: Ultrasound for the enlightened practitioner, revisited, Course Faculty, Denver, Colorado, "FASTER and Beyond" and "Biochemistry and Adverse Outcome", May, 2004.

64. OB/GYN Summer in the Rockies, Course Faculty, Breckenridge, Colorado, “The FASTER trial and beyond: update in first trimester prenatal diagnosis”, June, 2004.
65. Maternity Matching Elective, University of Colorado Health Sciences Center, Denver, CO, “The Basics in Prenatal Care”, September, 2004.
66. Ob/Gyn Special Interest Group, University of Colorado Health Sciences Center, Denver, CO, “A Career in Obstetrics and Gynecology”, September, 2004.
67. American Gynecological Club and the Gynaecological Visiting Society of Great Britain and Ireland 2004 Joint Meeting, Aspen, Colorado. “Recent Advances in First Trimester Prenatal Diagnosis”, October, 2004.
68. Perinatal Conference, University of Wisconsin, Madison, WI, “Recent Advances in First Trimester Prenatal Diagnosis”, November, 2004.
69. Colorado Perinatal Care Council, Keynote Speaker, Littleton, CO, “Update on Maternal Genetic Screening”, January, 2005.
70. APGO Faculty Development Seminar, Cancun, Mexico, Co-Presenter for workshop “Erasing the borders: Integrating the women’s health care competencies into your curriculum”, January, 2005.
71. Society for Maternal-Fetal Medicine Post-Graduate course faculty: Ultrasound and Prenatal Diagnosis, Reno, Nevada. “Uterine artery Doppler, biochemical testing, and adverse outcomes”, February, 2005.
72. Advanced Obstetrical Ultrasound: An obstetrical and gynecologic view by ultrasound. Course Faculty, Denver, Colorado, “First trimester genetic evaluation” and “Skeletal Dysplasias”, May, 2005.
73. Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, “First trimester prenatal diagnosis”, May, 2005.
74. CME Lecture in Copper Mountain, Colorado, “Update in First Trimester Prenatal Diagnosis”, August, 2005.
75. Washington University 31<sup>st</sup> Annual Symposium on Obstetrics and Gynecology, St. Louis, MO, “Modern Management of Intrauterine Growth Restriction” and “New Developments in First Trimester Prenatal Diagnosis”, October, 2005.
76. APGO Faculty Development Seminar, Phoenix, AZ, Co-Presenter for workshop “Balancing a professional and personal life”, Leader of a roundtable session “Making your clerkship a positive experience for medical students”, January, 2006.
77. Society for Maternal-Fetal Medicine Post-Graduate course faculty: Nuchal Translucency Credentialing, Miami, Florida. “Other advantages of first trimester screening”, February, 2006.
78. Society for Maternal-Fetal Medicine Post-Graduate course director and faculty: Update in Perinatal Genetics, Miami, Florida. “Carrier screening for at-risk populations”, February, 2006.



79. Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, "Recent advances in first trimester prenatal diagnosis", April, 2006.
80. Seventh International Congress of the International Down's Syndrome Screening Group, "Maternal serum analytes and prediction of adverse perinatal outcomes", Amsterdam, Netherlands, May, 2006.
81. Advanced Obstetrical Ultrasound: A Practical Approach to OB/GYN Ultrasound for the Clinician. Course Faculty, Denver, Colorado, "First trimester ultrasound and genetic evaluation", "First or second trimester screening, or both: picking the best", and "Making sense of skeletal dysplasias", May, 2006.
82. Colorado Women's Health Care Coalition, "Pre-pregnancy planning", Denver, CO, June, 2006.
83. University of Mississippi Wiser Society Summer Conference, Colorado Springs, CO, "Recent developments in first trimester prenatal diagnosis", July, 2006.
84. The Nuchal Translucency Education and Quality Review (NTQR) Program, Course Faculty, Denver, CO, October, 2006.
85. APGO Faculty Development Seminar, Amelia Island, FL, Leader of a round table session "Mentoring the fourth year medical student applying for residency in Ob-Gyn", January, 2007.
86. 33<sup>rd</sup> Annual Vail Obstetrics and Gynecology Conference, Vail, CO, "Latest Developments in First trimester Prenatal Diagnosis", and "Genetics Break-Out Session", February, 2007.
87. Society for Maternal-Fetal Medicine Post-Graduate course faculty: Prediction and prevention of recurrent adverse obstetric outcome, San Francisco, CA. "Management of markers of adverse obstetric outcome", February, 2007.
88. 2007 CREOG & APGO Annual Meeting, Salt Lake City, UT, "Surviving an LCME Site Visit", March, 2007.
89. Advanced Obstetrical Ultrasound: Ultrasound Update for the General Ob/Gyn Practice. Course Faculty, Denver, Colorado, "First trimester: ultrasound and genetic evaluation", "CSI (Contingent, sequential, integrated): Which screening test is the best", May, 2007.
90. APGO Faculty Development Seminar, Maui, Hawaii, Co-Presenter for workshop "Medical ethics: Bridging the clinical years", Leader of a roundtable session "The Ob-Gyn clerkship evaluation: How to assign a fair grade and provide formative and summative feedback", January, 2008.
91. Society for Maternal-Fetal Medicine, 28<sup>th</sup> Annual Meeting, Dallas, TX, Luncheon Roundtable Session, "Serum and soft markers: Not just markers for aneuploidy", February, 2008.
92. Advanced Obstetrical Ultrasound: Pie in the Sky 3D and 4D Practical Applications. Course Faculty, Denver, Colorado, "First trimester ultrasound pearls", "Uterine artery Dopplers and pregnancy outcomes", May, 2008.

93. Current Issues in Ob/Gyn Symposia Medicus. Course Faculty, Alaskan Cruise, "Update on the Prevention and Management of Preeclampsia", "First Trimester: Ultrasound and Genetic Evaluation", "Intrauterine Growth Restriction (IUGR): Diagnosis and Management", August, 2008.
94. Visiting Professor, George Washington University, Department of Obstetrics and Gynecology, "Update in first trimester prenatal diagnosis", September, 2008.
95. Panel member, Obesity and Reproduction: A Celebration of Research in Reproduction, Denver, CO, December, 2008.
96. APGO Faculty Development Seminar, Manalapan, FL, Co-Presenter for workshops "Enhancing Your Clerkship: Transforming Dull Didactics into Stimulating Seminars" and "How to Use National Models to Develop Local Clerkship Objectives", January, 2009.
97. 2009 APGO Clerkship Directors' Workshop, Faculty, "Single Site vs Multisite Clerkship", Leader for Breakout session on "Remediating students with academic problems on the clerkship", Manalapan, FL, January, 2009.
98. Society for Maternal-Fetal Medicine Post-Graduate course faculty: Clinical Genetics, San Diego, CA, "Update on Down Syndrome Screening: What We Should be Doing and When We Should Be Doing It" and "Preimplantation Genetic Diagnosis", January, 2009.
99. 35<sup>th</sup> Annual Vail Obstetrics and Gynecology Conference, Vail, CO, "Screening for NTDs and Chromosomal Abnormalities", February, 2009.
100. 2009 APGO Advanced Clerkship Directors' Workshop, Faculty, "Didactics: How to Make Them Work in Your Clerkship", San Diego, CA, March, 2009.
101. 2009 CREOG & APGO Annual Meeting, Hot Topics in Medical Education APGO Undergraduate Medical Education Committee, San Diego, CA, March, 2009.
102. Weil Cornell Medical College, Department of Obstetrics and Gynecology Grand Rounds, "Update on Down Syndrome Screening: What We Should be Doing and When We Should Be Doing It", New York, NY, October, 2009.
103. Perinatal Medicine and Ultrasound course faculty, "First and second trimester screening" and "Uterine artery Doppler and adverse pregnancy outcomes", Denver, CO, October, 2009.
104. Tenth Annual Obstetric Ultrasound in the High Risk Patient, Course Faculty, "Pre-eclampsia: Uterine artery Dopplers and screening biochemistry in the prediction of this condition" and "The ethics of screening: What do we tell patients about isolated findings? How do we deal with unrealistic expectations?" Las Vegas, Nevada, November, 2009.
105. Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, "Update on Down Syndrome Screening and First Trimester Prenatal Diagnosis", November, 2009.
106. 2010 APGO Faculty Development Seminar, Scottsdale, AZ, Learning in Motion: Moving Forward in Women's Health, Co-Presenter for workshop "Optimizing the Mid-Clerkship Review

Session”, Leader of a roundtable session “Mentoring Ob-Gyn Student Research Projects”  
January, 2010.

107. American Institute of Ultrasound Medicine 2010 Annual Meeting Preconvention Course faculty: Advanced Obstetric Doppler Ultrasound, San Diego, CA, “Uterine artery Doppler”, March, 2010.
108. Current Issues in Ob/Gyn Symposia Medicus. Course Faculty, Mediterranean Cruise, “Update on the Prevention and Management of Preeclampsia”, “First Trimester: Ultrasound and Genetic Evaluation”, “Intrauterine Growth Restriction (IUGR): Diagnosis and Management”, “Case Studies in First and Second Trimester Ultrasound: What Are You Lookin’ At?” September, 2010.

Add clerkship director’s workshop faculty APGO 1/2010