

CURRICULUM VITAE

ALEXANDER D. KOFINAS, M. D.

Education:

1970 - 1976 Medical School
Kapodistrian National University
Athens, Greece

Postdoc. Training:

1985 - 1987 Fellowship
Maternal-Fetal Medicine
Bowman Gray School of Medicine
Wake Forest University
Winston-Salem, North Carolina

1981 - 1985 Obstetrics and Gynecology
The Brooklyn Hospital
Caledonian Hospital
Brooklyn, New York

1980 - 1981 General Surgery
Good Samaritan Hospital
Cincinnati, Ohio

Experience:

2000- Director, Kofinas Perinatal PC
New York Methodist Hospital
Brooklyn NY, 11215

1994- 2000 Chief, Maternal-Fetal Medicine
Department of Obstetrics and Gynecology
The Brooklyn Hospital Center
Brooklyn, New York

1993 - 1994 Director, Perinatal Diagnostic Center
1030 Plymouth Road
York, Pennsylvania

1990 - 1993 Director, Maternal-Fetal Medicine
Associate Director, Residency Program
Department of Obstetrics and Gynecology
York, Hospital
York, Pennsylvania

Academic:

2003- Associate Professor of Clinical Obstetrics and

	Gynecology Cornell University, Medical College New York, New York
1994-2003	Associate Professor of Clinical Obstetrics and Gynecology Department of Obstetrics and Gynecology New York University New York, New York
1990 - 1994	Clinical Assistant Professor Department of Obstetrics and Gynecology University of Pennsylvania Philadelphia, Pennsylvania
1987 - 1990	Assistant Professor Department of Obstetrics and Gynecology Bowman Gray School of Medicine Winston-Salem, North Carolina
1985 - 1987	Instructor Department of Obstetrics and Gynecology Bowman Gray School of Medicine Winston-Salem, North Carolina

Certification:

1990-	Board Certified American Board of Obstetrics and Gynecology Division of Maternal-Fetal Medicine Re-certified 2010
1989-	Board Certified American Board of Obstetrics and Gynecology Re-certified 2010

Professional Licensure:

Licensed in New York, Pennsylvania, North Carolina and Maryland.

Committees:

1. Quality Assurance Committee

- 1990 - present
(Chairman of committee 1996-present)
2. Patient Care Committee
1990 - 1994
 3. Bioethics Committee
1990 - 1994
 4. Residents Education Committee (York, PA)
1990-1994
 5. Credentials Committee
1990 - 1999
 6. Graduate Medical Education Committee (GME)
1994 - present
 7. Institutional Review Committee (IRB)
1990-present
 8. Health Information Management Committee
1996-present
 9. Medical Board Quality Performance Committee
1996-present
 10. Hospital Re-engineering Steering Committee
1997-1999 (Ad hoc committee)
 11. Physicians' Billing Steering Committee
1998-1999 (Ad hoc committee)
 12. Physicians' Reorganization Steering Committee
1998-1999 (Ad hoc committee)
 13. Information Technology Re-engineering Committee
1998-1999 (Ad hoc committee)
 14. Credentials committee: United Health Care
Insurance 2000-2003

Community Service:

Board Member, Greek Orthodox Church of Annunciation. 1991-1994

Building Committee, Greek Orthodox Church of Annunciation. 1991 - 1994.

Professional Memberships:

1992 American College of Angiology

1991 International Society of Ultrasound in Obstetrics and Gynecology

1991 International Society of Perinatal Obstetricians

1988 International Perinatal Doppler Society

1987 Society of Maternal – Fetal Medicine

1986 American Institute of Ultrasound in Medicine

1989 American Medical Association

1981 American College of Obstetrics & Gynecology

1976 Athens Medical Association
(Athens Greece)

Professional Interests

Clinical Interests:

High risk pregnancy Prenatal diagnosis (CVS, early amniocentesis, NT assessment, fetal ductus venosus assessment, PUBS) Fetal therapy, Fetal echocardiography, preterm labor management, fetal demise prevention, thrombophilia management, recurrent pregnancy loss management, pregnancy conceived by means of ART management and non-invasive fetal cardiovascular assessment.

Research Interests:

Non-invasive Cardiovascular Assessment of the Fetal-maternal Unit in pregnancies complicated by placental thrombosis
Utero-placental Doppler evaluation

Fetal cranial Doppler flow studies
Optical (near infrared spectroscopy) imaging of fetal
cranial blood supply
Preterm birth prevention: the role of transvaginal
ultrasound and Indomethacin.

Research in Progress: The role of ultrasound and power color Doppler in the evaluation
of placental thrombosis in vivo.
Indomethacin in the prevention of prematurity
Prevention of IUGR: the placental contribution
Optical imaging of neonatal and fetal brain with
near infrared laser spectroscopy

Awards:

1985 Best paper award – Resident’s Night
Brooklyn Gynecologic Society

1985 Award for Excellence in Gynecologic
Endoscopy

1997 National Faculty Award for Teaching
Excellence

1999 Award for leadership, dedicated effort and
support of quality patient care The Brooklyn
Hospital Center Quality Assurance Program

Uniformed Service:

1979 – 1980 Department of Public Health - Greece
(Mandatory Service)

1976 –1979 Greek Army (Mandatory Service)
Soldier Physician
Greek Army Medical Forces

Business:

Kofinas Perinatal
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Brooklyn, NY 11215
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901 Stewart Avenue
Suite 245
Garden City, NY 11530
Tel: (516) 832-0300 Fax: (516) 832-0301
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LECTURES, SPEECHES, EXHIBITS AND FILMS:

1. Amniotic fluid beta-endorphin levels and parturition. Brooklyn Gynecologic Society, April 17, 1985.
2. Fetal arrhythmias. Forsyth Memorial Hospital, Winston-Salem, North Carolina, March 19, 1986.
3. Amniotic fluid beta-endorphin levels and labor. Society for Gynecologic Investigation, March 19-22, 1986.
4. Perinatal brain damage. Forsyth Memorial Hospital, Winston-Salem, North Carolina, June 18, 1986.
5. Changes in cAMP - phosphodiesterase activity in nonpregnant and pregnant human myometrium. Society of Perinatal Obstetricians, February 5-7, 1987.
6. The effect of Estradiol (E₂) and Progesterone (P) in the activity of human myometrial phosphodiesterase. Society for Gynecologic Investigation, March 18-21, 1987.
7. Pros and cons in the use of maternal serum AFP screening in pregnancy. Forsyth Memorial Hospital, Winston-Salem, North Carolina, May 20, 1987.
8. Gestational diabetes reverses circadian variation of plasma insulin response. International Society of Chronobiology, July 12-17, 1987.
9. The use of ultrasound in the diagnosis of IUGR and Dating of the pregnancy by ultrasound. Bowman Gray School of Medicine, Courses and Seminars in Diagnostic Ultrasound, September 22-25, 1987.
10. Gestational diabetes reverse circadian variation of plasma insulin response but has no effect on plasma glucose clearance. Society of Perinatal Obstetricians, February 4-6, 1988.
11. The effect of placental location on uterine artery flow velocity wave-forms. Society for Gynecologic Investigation, March 17-20, 1988.
12. Correcting umbilical artery flow velocity wave-forms for fetal heart rate is unnecessary. International Perinatal Doppler Society, May 23-25, 1988.
13. The effect of placental location on uterine artery flow velocity wave-forms. International Perinatal Doppler Society, May 23-25, 1988.
14. Uterine and umbilical artery flow velocity wave-form (FVW) analysis in patients with pregnancies complicated by chronic hypertension and pre-eclampsia. ACOG-District IV Meeting, November 12-15, 1988

15. Prenatal diagnosis and management of fetal hydrocephalus. Grand Rounds, FMH, November 16, 1988.
16. The use of Doppler Ultrasound in obstetrics. Grand Rounds, The Brooklyn Hospital - Caledonian Hospital, December 6, 1988.
17. Increase plasma concentrations of atrial natriuretic peptide in toxemic pregnancies. Society of Perinatal Obstetricians, February 2-4, 1989.
18. Laterality of placental location correlates with the presence of pre-eclampsia and/or intrauterine growth retardation. Society for Gynecologic Investigation, March 15-18, 1989.
19. Atrial natriuretic peptide (ANP) concentrations during pregnancy and in the postpartum period. Society for Gynecologic Investigation, March 15-18, 1989.
20. Interrelationship between atrial natriuretic peptide (ANP) concentration and acute volume expansion in pregnant and non-pregnant women. Society for Gynecologic Investigation, March 15-18, 1989.
21. Laterality of placental location correlates with the presence of pre-eclampsia and/or intrauterine growth retardation. International Perinatal Doppler Society, September 13-15, 1989.
22. Utero-placental Doppler flow velocity wave-form analysis correlates poorly with glycemic control in diabetic pregnant women. Society of Perinatal Obstetricians, January 23-27, 1990.
23. Utero-placental Doppler flow velocity wave-form indices in normal pregnancy: a statistical exercise in the development of appropriate reference values. Society of Perinatal Obstetricians, January 23-27, 1990.
24. Amniotic fluid atrial natriuretic factor concentrations in normal pregnancy and pre-eclampsia. Society of Gynecologic Investigation, March 22-24, 1990.
25. Interrelationship and clinical significance of increased resistance in the uterine arteries in patients with hypertension and/or pre-eclampsia. Society of Perinatal Obstetricians, January 1991.
26. Effect of the observer variability on fetal growth evaluation by individual fetal growth curve standards. American Institute of Ultrasound in Medicine, March 1991.
27. Comparison of transverse and coronal fetal cerebellar diameters. American institute of Ultrasound in Medicine, March 1991.
28. Evaluation of intrauterine growth retardation by sonographic individual fetal growth

- curves. The World Federation for Ultrasound in Medicine and Biology, Denmark. September 1991.
29. Umbilical and uterine artery Doppler : basic concepts and Umbilical and uterine artery Doppler in the management of high risk pregnancy, South Carolina Society of Diagnostic Ultrasound, North Myrtle Beach, SC, June 1991.
 30. Compliance-weight deficit index: combining umbilical artery resistance and growth deficit for the prediction of intrauterine growth retardation and poor perinatal outcome. 4th International Perinatal Doppler Society Congress, Sweden, August 1991.
 31. The effect of fetal heart rate and fetal activity on the pulsatility index . 5th International Perinatal Doppler Society Congress, New York, NY August 1992.
 32. Transabdominal CVS between 9.5 and 12 weeks gestation has no effect on placental vascular resistance , 5th International Perinatal Doppler Society Congress, New York, NY August 1992.
 33. Compliance-weight deficit index :combining umbilical artery resistance and growth deficit for the predication of intrauterine growth retardation and poor perinatal outcome, District III Annual Meeting The American College of Obstetricians and Gynecologist, Marbella, Spain, November 1992.
 34. The role of ultrasound in prenatal diagnosis of chromosomal anomalies in the 90's, OB/GYN Education Day, Harrisburg Hospital, Harrisburg, PA, October 1993.
 35. Doppler in Obstetrics and Gynecology: Principles and Practice, 1st international symposium in the managements of labor, Democretian University of Thrace school of medicine, Alexandroupolis, Greece, October 1999
 36. Amnioinfusion in the management of severe oligohydramnios, 1st international symposium in the managements of labor, Democretian University of Thrace school of medicine, Alexandroupolis, Greece, October 1999
 37. Incompetent Cervix: diagnosis and management, National meeting of the Hellenic Society of Maternal Fetal Medicine, Volos, Greece, April 2000
 38. Pre-eclampsia: the search for common knowledge, 1st annual meeting of the International Society of Perinatal Obstetricians, Athens, Greece, June 2000
 39. The role of high-resolution ultrasound and power color Doppler in the diagnosis of placental thrombosis leading to poor pregnancy outcome. International Society of Ultrasound in Obstetrics and Gynecology. London, England, September 7, 2006
 40. Indomethacin improves cervical length in patients with progressive cervical shortening after one week of bed-rest. 7th World Congress in Fetal Medicine, Sorrento-Italy, June

22-26, 2008

41. The role of Indomethacin as a diagnostic and therapeutic tool in the management of the ultrasonically diagnosed short cervix: reduced need for surgical procedures and significantly reduced preterm birth rate. International Society of Ultrasound in Obstetrics and Gynecology. Chicago, August 26-28, 2008

BIBLIOGRAPHY:

Books:

1. Kofinas GD, Kofinas AD. Notes in pharmacology. Athens, Greece: Paschalides publishing, 1973.
2. Kofinas AD. Synopsis of forensic medicine and toxicology, 1st. Ed. Athens, Greece: Paschalides Publishing, 1974.
3. Kofinas AD, Arvanitakis J, Ed. Useful hints and questions on ECFMG examinations. Athens, Greece: Paschalides Publishing, 1976.
4. Goldman MJ, Ed. Principles of clinical electrocardiography, 10th Ed. Kofinas AD, Kofinas EA (trans). Athens, Greece: Paschalides Publishing, 1979.

CHAPTERS IN TEXTBOOKS:

1. Kofinas AD. Physiological Adaptations in Pregnancy. Maternal Fetal Medicine: Mamopoulos M and Farmakides G, Editors. University Studio Press Thessalonica 1996
2. Kofinas AD and Kofinas GD. Gestational Trophoblastic Neoplasia. Obstetrics and Gynecology: Lolis D, Editor. Pitsilidis Press, Athens 1998
3. Kofinas AD and Kofinas GD. Doppler in Obstetrics and Gynecology: Principles and Practice: Lolis D, Editor. Pitsilidis Press, Athens 1998

JOURNAL ARTICLES:

1. Kofinas AD, Suarez J, Calame RJ, Chipeco Z. Chondrosarcoma of the uterus. Gynecol Oncol 1984;19:231-237.
2. Kofinas GD, Kofinas AD, Tavakoli FM. Maternal and fetal beta-endorphin release in response to the stress of labor and delivery. Am J Obstet Gynecol 1985;152:56-59.

3. Kofinas AD, Nelson L. Premature rupture of the fetal membranes. *Family Practice Re-certification* 1986;7:99-110.
4. Kofinas AD, Hatjis CG, Ernest JM, Parker RL Jr. Anterior sacral meningocele in pregnancy. *Obstet Gynecol* 1987;69:441-444.
5. Kofinas GD, Kofinas AD, Pyrgerou M, Reyes FL. Amniotic fluid beta-endorphin levels and labor. *Obstet Gynecol* 1987;69:945-947.
6. Kofinas AD, Rose JC, Meis PJ. Changes in cyclic adenosine monophosphate phosphodiesterase activity in non-pregnant and pregnant human myometrium. *Am J Obstet Gynecol* 1987;157:733-738.
7. Kofinas AD, Meis PJ, Rose JC. Gestational diabetes reverses the circadian variation of plasma insulin response to intravenous glucose. *Am J Obstet Gynecol* 1988;159:607-611.
8. Kofinas AD, Penry M, Greiss FC, Meis PJ, Nelson LH. The effect of placental location on uterine artery flow velocity wave-forms. *Am J Obstet Gynecol* 1988;159:1504-1508.
9. Hatjis CG, Morris M, Rose JC, Kofinas AD, Penry M, Swain M. Oxytocin vasopressin and prolactin responses associated with nipple stimulation. *Southern Medical Journal* 1989;82, No 8;193-196.
10. Kofinas AD, Espeland M, Swain , Penry M, Nelson LH. Correcting umbilical artery flow velocity wave-forms for fetal heart rate is unnecessary. *Am J Obstet Gynecol* 1989;160:704-707.
11. Hatjis CG, Greelish JP, Kofinas AD, et al. Atrial natriuretic peptide maternal and fetal concentrations is severe pre-eclampsia. *Am J Obstet Gynecol* 1989;161:1015-1019.
12. Kofinas AD, Penry M, Swain M, Hatjis C. The effect of placental laterality on uterine artery resistance and the development of pre-eclampsia and intrauterine growth retardation. *Am J Obstet Gynecol* 1989;161:1536-1539.
13. Kofinas AD, Penry M, Swain M, et al. Relationship between placental location and uterine vascular resistance. Response to letter to the Editor. *Am J Obstet Gynecol* 1990;163:1362.
14. Warner AA, Kofinas AD. Spontaneous resolution of cystic hygroma. *Prenatal Diagn* 1990;10:11;758
15. Kofinas AD, Penry M, Nelson LH, Meis PJ, Swain M. Uterine Artery and umbilical

artery flow velocity wave-form analysis in pregnancies complicated by chronic hypertension and/or pre-eclampsia. *Southern Medical Journal* 1990;83, NO.2;150-155.

16. Hatjis CG, Kofinas AD, et al. Interrelationship between atrial natriuretic factor (ANF) concentrations and acute volume expansion in pregnant and non-pregnant women. *Am J Obstet Gynecol* 1990;163:45-50.
17. Kofinas AD, Rose JC, Koritnik DR, Meis PJ. Progesterone and estradiol concentrations in non-pregnant and pregnant human myometrium and their effect on the cyclic adenosine monophosphate-phosphodiesterase activity. *The Journal of Reproductive Medicine*. 1990;35:1045-1050.
18. Simon NV, Deter RL, Grow DR, and Kofinas AD. Detection of macrosomia by the individual fetal growth curve standards method. *Obstet Gynecol*. 1991;77:793-797.
19. Kofinas AD, Penry M, Hatjis CG. Umbilical vessel flow velocity wave-form in cord entanglement in a monoamniotic multiple pregnancy. *The journal of Reproductive Medicine* 1991;36:314-16.
20. Kofinas AD, Simon NV, Lyttle E, Smith N, King K. Successful treatment of fetal supra-ventricular tachycardia with Flecainide acetate after failure of Digitalis. *Am J Obstet Gynecol* 1991;165:630-1.
21. Kofinas AD, Penry M, Swain M. Utero-placental Doppler flow velocity wave-form analysis correlates poorly with glycemic control in diabetic pregnant women. *Am J Perinat* 1991;8:273-77.
22. King K, Kofinas AD, Simon NV. Prenatal diagnosis of horseshoe kidney. *Journal of Ultrasound in Medicine*, 1991;10:643.
23. Kofinas AD, Espeland MA, Penry M, Hatjis C. Utero-placental Doppler flow velocity wave-form indices In normal pregnancy: a statistical exercise and the development of appropriate reference values. *Am J Perinat* 1992;9:94.
24. Simon NV, Deter RL, Kofinas AD, Grow DR. Effect of a measurement variability on Rossavik growth model specification and prediction of growth outcome at birth. *Journal of Clinical Ultrasound*, 1992;20:239-45.
25. Kofinas AD, Penry M, Simon N, Swain M. Interrelationship and Clinical Significance of Increased Resistance in the Uterine Arteries in Patients with Hypertension and Pre-eclampsia or Both. *Am J Obstet Gynecol* 1992;166:601-606.
26. Kofinas AD, Simon NV, King K, Clay D. Comparison of cerebellar measurements by two different techniques. *Journal of Ultrasound in Medicine*, 1992;11:257-249.

27. Evans D, Kofinas AD, King K. Intraoperative Amniocentesis and Indomethacin Treatment in the Management of an Immature Pregnancy with Completely Dilated Incompetent Cervix. *Obstet and Gynecol.* 1992;79:881-882.
28. Kofinas AD, Simon NV, Lyttle E, et al. Successful treatment of fetal supra ventricular tachycardia with Flecainide acetate after failure of Digitalis. Response to Letter to the Editor, *Am J Obstet and Gynecol.* 1992;166:1863.
29. King K, Kofinas AD, Simon NV. Prenatal diagnosis of horseshoe kidney. Response to Letter to the Editor *J Ultrasound Medicine*, 1992; 11:274.
30. Hatjis CG, Kofinas AD, Greelish JP, Swain M, Rose JC. Atrial natriuretic factor concentrations during pregnancy and in the postpartum period, *Am J Perinat* 1992; 9:275-278.
31. Cabbad M, Kofinas A, Simon N, King K, Lyttle E. Weight Percentile Discordance as an Indicator of Asymmetrical Growth Impairment. *The Journal of Reproductive Medicine*, 1992; 37:794-798.
32. Kofinas AD, Simon NV, Clay D, King K. Functional Asymmetry of the Human Myometrium Documented by Color and Pulsed Wave Doppler Ultrasound Evaluation of Uterine Arcuate Arteries During Braxton-Hicks Contractions. *Am J Obstet Gynecol*, 1993;168;184-188.
33. King K, Kofinas AD, Simon NV. Prenatal diagnosis of pelvic kidney. *The Journal of Reproductive Medicine*; 1993;38:225-226.
34. Simon NV, Deter RL, Kofinas AD, Cavanaugh SH, Shearer DM. Small-for Menstrual-Age Infants: Different Subgroups Detected Using Individualized Fetal Growth Assessment. *Journal of Clinical Ultrasound*, 1994;22;3-10.
35. Kofinas AD, Simon NV, Penry M, Hatjis CG. Compliance-weight deficit index: combining umbilical artery resistance and growth deficit for the prediction of intrauterine growth retardation and poor perinatal outcome. *The Journal of Reproductive Medicine* 1994;39:8;595-600.
36. Kofinas AD, Cavanaugh S, McGuinness T, King K, Clay, d. The Effect of Fetal Heart Rate and fetal Activity on the Middle Cerebral Artery Flow Velocity Waveforms in Normal Human Fetuses and The Development of Normal Values from 18-42 weeks Gestational Age *J Matern Fetal Invest* 1994;4:93-99
37. White SP, Kofinas AD. Prenatal Diagnosis and Management of Umbilical Vein Varix of the Intra-amniotic Portion of the Umbilical Vein *J Ultrasound Med* 1994 13:992-994
38. Kofinas AD, D'Amico K, McGuinness T, Clay D, King K. Placental Vascular

Resistance and Fetal Cardiovascular Responses to Transabdominal Chorionic Villus Sampling (TA-CCVS) Performed Between 9.5 and 12 weeks Gestation. J Reproductive Med 1995;40:453-457

39. Crean J, Kofinas AD. Fetal Pulmonary Sequestration Presenting as Unilateral Idiopathic Hydrothorax: Prenatal and Postnatal management. J Reproductive Med 1995;40:319-322
40. Kofinas AD, Cabbad MF, and Kofinas GD. The Effect of Vibratory Acoustic Stimulation on Fetal Middle Cerebral Artery Impedance and Instantaneous Fetal Heart Rate: A Prospective Cross -Sectional Study From 20 to 42 Weeks Gestational Age J Matern Fetal Invest (1996) 6:19-22
41. Kofinas AD, Cabbad MF, and Kofinas GD. Ductus Venosus Flow Velocity in Acute Fetal Congenital Heart Failure During Fetal Transfusion. J Maternal Fetal Invest (1996) 6: 188-189
42. Stankovic MR, Maulik D, Rosenfeld W, Stubblefield G, Kofinas A, et al. Real-time Optical Imaging of Experimental Brain Ischemia and Hemorrhage in Neonatal Piglets. J. Perinat. Med. 27 (1999) 279-286
43. Stankovic MR, Maulik D, Rosenfeld W, Stubblefield PG, Kofinas AD, Gratton E, Franceschini MA, Fantini S, Hueber D, The role of frequency domain optical spectroscopy in the detection of neonatal brain hemorrhage - a newborn piglet study. J Mater.-Fetal Med. 2000
44. Kofinas AD, Kofinas GD, Paschopoulos M and Lolis D. Placental Laterality May be a Random Event and not the Result of Inherent Uterine Artery Pathology. J Matern Fetal Med. 2000 May-Jun;9(3):178-80
45. Zhang G, Katz A, Alfano RR, Kofinas AD, Kofinas DA, Stubblefield PG, Rosenfeld W, Beyer D, Maulik D, Stankovic MR. Brain perfusion monitoring with frequency-domain and continuous-wave near-infrared spectroscopy: a cross-correlation study in newborn piglets. Phys Med Biol 2000 Nov;45(11):3143-58
46. Kofinas AD and Kofinas GD. Differences in Amniotic Fluid Patterns and Fetal Biometric parameters in 3rd Trimester Pregnancies with and without diabetes. Journal of Maternal-Fetal and Neonatal Medicine 2006 Oct;19(10):633-38
47. Kofinas AD, Kofinas GD and Sutija VG. The role of second trimester ultrasound in the diagnosis of placental thrombosis leading to poor pregnancy outcome. J Matern Fetal Neonatal Med. 2007 Sep 29: 1-8

PAPERS IN PRESS:

1. Kofinas AD, Kofinas GD Indomethacin as a diagnostic and therapeutic tool in the management of progressive cervical shortening diagnosed by trans-vaginal sonography.

Reviewer for Journal Articles:

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| 1989- | Obstetrics and Gynecology |
| 1992- | Clinical and Experimental
Hypertension in Pregnancy |
| 1992- | Am Journal of Obstetrics
and Gynecology |
| 1997- | Journal of Perinatology |