

Curriculum Vitae

Eugene Chang
Department of Obstetrics and Gynecology
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Education

University of Virginia. Charlottesville, VA 1986-1990 BA-Chemistry
Medical College of Virginia. Richmond, VA 1990-1994 MD
University of South Carolina Columbia, SC 2002-present MEd

Intership:

Medical University of South Carolina, Intern in Obstetrics and Gynecology,
1994- 95

Residency:

Medical University of South Carolina, Resident in Obstetrics and
Gynecology, 1995-1998

Fellowship:

Medical University of South Carolina, Fellow in Maternal Fetal Medicine,
2002- 2005

Certification:

American Board of Obstetrics and Gynecology, 2001
Maternal Fetal Medicine Written Board Exam Passed, 2005

Licensure:

South Carolina

Military service:

Active Duty, United States Air Force 1998-2002
Inactive Reserve, United States Air Force 2002-present

Faculty appointments:

Fellow/Clinical Instructor, Division of Maternal Fetal Medicine, Medical
University of South Carolina, 2002-2005

Assistant Professor, Division of Maternal Fetal Medicine, Medical
University of South Carolina, 2005- present

Administrative appointments:

Division Officer, OB/GYN Division, Naval Hospital Charleston, 2001-2002
Member and Chairman, Birth Product Line Naval Hospital Charleston,
2000-2002

Member, National Birth Product Line, United States Navy 2000-2002
Member Perinatal Morbidity and Mortality Committee, Trident Medical
Center, 2000-2002

Member Maternal-Child Care Committee, Trident Medical Center, 2000-
2002

Medical Director, Labor and Delivery, Medical University of South
Carolina, 2005-present

Hospital Appointments/Privileges

Active, Medical University of South Carolina, 2002-present

Inactive, Trident Medical Center, 1998-2002

Inactive, Naval Hospital Charleston, 1998-2002

Professional Societies

Fellow, American College of Obstetricians and Gynecologists

Associate Member, Society for Maternal Fetal Medicine

Member, National Society for the Study of Hypertension in Pregnancy

Member, American Medical Association

Member, AIUM

Thegos Society

Grants

Past

PI: Chang E.

A Randomized trial of High-dose and regular-dose steroids for the antepartum
management of patients with HELLP syndrome between 24-32 weeks gestation.
University Research Committee.

Award Amount: \$9786 Year: 2002

PI: Chang E.

Antioxidant approaches to treatment and prevention of preeclampsia in an animal
model. Women's Research Center.

Award Amount: \$25,000 Year: 2003

PI: Lazarchick J

Co-I: Chang E.

Qualitative assessment of platelet function in patients with preeclampsia. Helena Laboratories.

Award Amount: \$17,165 Year: 2004.

Pending

PA-00-003 10/01/2005 09/30/2010
NIH (NICHD)
Mentored Clinical Scientist Development Award (K08)
N-acetylcysteine For Prevention of Preeclampsia in the RUPP model in SD Rats

10/01/2005

Neurological assessment of infants with brain injury from chorioamnionitis

March of Dimes

Co-Investigator

PAR-00-174 03/01/2006 02/27/2009

NIH

Safety of N-acetylcysteine in Maternal Chorioamnionitis

Co-PI (20%)

Awards

SCIOS Young Investigator Award, International Society for the Study of Hypertension in Pregnancy, 2006

Runner up Faculty Excellence Award, 2006

Research Excellence Award, Society for Maternal Fetal Medicine, 2005

Faculty Excellence Award, 2005

International Society for the Study of Hypertension in Pregnancy Young Investigator Travel Award, 2004

Air Force Meritorious Service Medal, 2002

Naval Hospital Charleston, Letter of Commendation, 2001

APGO/Parke-Davis Scholars Award, 1998

American Medical Student Association Golden Apple Award, 1995

Alpha Omega Alpha, 1993

Alpha Sigma Chi leadership society, 1993

Major Teaching Responsibilities (Current):

Undergraduate Medical Education

OBGYN 3rd and 4th year Clinical Clerkship

Shared responsibility (with 6 division members and fellows) for teaching the Obstetrics curriculum 6 rotations/year with approximately 24 students/rotation. With each rotation, I provide a lecture on antepartum

care or preterm labor. I also facilitate small group learning through the Department's Foundations in Clinical Medicine for one or two sessions each year. These groups meet weekly throughout the rotation with a focus on case-based learning. I precept students in the outpatient setting at Canon Place, on Labor and Delivery, the Antepartum and Postpartum ward, and for Emergency Room consults.

Graduate Medical Education

Resident Clinical Supervision: I supervise Obstetrics and Gynecology residents on Labor and Delivery, the antepartum and postpartum ward, the gynecologic inpatient service, the outpatient setting at Canon Place, the Operating room, and for consultations in the Emergency Room and throughout the hospital. I involve the residents in the care of my patients at the Prenatal Wellness Center. I also provide 1-2 formal talks to the residents per year and mentor resident research

Fellow Supervision: I supervise Maternal Fetal Medicine fellows in the outpatient setting at Canon Place. I also help the fellows with the delivery of inpatient care on Labor and Delivery and the Antepartum and Postpartum wards when necessary. I also participate in a weekly Fellow's Conference which is a seminar aimed at case-based learning in topics relevant to Maternal Fetal Medicine

Major Clinical Interests and Responsibilities

Interests: Preeclampsia, Intrauterine growth restriction, Preterm labor, Ultrasound, Cerebral Palsy, and Obstetrical ultrasound

Responsibilities: Approximately 7 weeks per year as the inpatient attending responsible for all antepartum and postpartum patients. Approximately 45 days per year I am the attending responsible for labor and delivery. I am in the private office approximately 100 days per year. I am on "in-house" night call supervising residents 2/3 nights per month.

Lectures and Presentations

Invited presentations:

Use of Doppler in Obstetrics. MUSC Department of Ob/Gyn, Grand Rounds- July 2003

Management of IUGR. MUSC Department of Ob/Gyn Grand Rounds- May 2004

Osler Institute Board Review Course Naperville, IL, October, 2004:
Ultrasound, Embryology, and Hypertensive disorders in Pregnancy

Use of N-acetylcysteine in Obstetrics. MUSC Department of
Ob/Gyn Grand Rounds- November 2004

Osler Institute Board Review Course Dallas, Tx, November 2004:
Ultrasound, Embryology, Preterm Labor, Hypertensive disorders in
Pregnancy, Maternal Infections, Systemic STD's

Osler Institute Board Review Course Dallas, Tx, December 2004:
Ultrasound, Embryology, Preterm Labor, Hypertensive disorders in
Pregnancy

Assessment and management of fetal growth restriction- The role of
Doppler Azaleas, Dogwoods, and Conditions Complicating
Pregnancy-Charleston, SC, April 2005

Osler Institute Board Review Course Los Angeles, Ca. April 2005.
Prenatal Diagnosis, Antepartum testing, Obstetric Ultrasound,
Obstetric Anesthesia, Intrapartum management, Obstetric
emergencies

Operative Vaginal Delivery, MUSC Department of Obstetrics and
Gynecology Grand Rounds- May 2005

Reversing the pathophysiology of preeclampsia Thegos, Kiawah Island,
SC, June 2005

Osler Institute Board Review Course. Philadelphia, PA. May 2005.
Intrapartum management, Obstetric emergencies, Embryology

Osler Institute Board Review Course. Naperville, Il, June 2005:
Embryology, Ultrasound, IUGR, and Antepartum Hemorrhage

Crew Resource Mangement. MUSC Perinatal Morbidity and Mortality
Conference. March 2006.

Cerebral Palsy. Department of Obstetrics and Gynecology Grand
Rounds- April 2006

Pearls Lecture. Medical University of South Carolina. May 2006

Osler Institute Board Review Course. Bloomington, Il May 2006
Anatomy, Postdates pregnancy, IUGR, Obstetric Emergencies, and
Obstetric anesthesia

Cerebral Palsy and Neuroprotection. Thegos, Isle of Pams, SC. June
2006.

Submitted presentations:

Chang E, Mauldin JG, Johnson D, and Hulseley T. Ethnic differences in perinatal morbidity and mortality in post-term pregnancies. District IV, American College of Obstetricians and Gynecologists Annual Meeting, 1997.

Chang E, Robinson C, Johnson D, and Armstrong M. Soluble fms-like tyrosine kinase 1 levels are elevated in preeclampsia and correlate with disease severity. SMFM Annual Meeting, Poster presentation, 2004.

Chang E, Menard MK, Vermillion SV, Hulseley T, and Ebeling M. Is the incidence of Hyaline Membrane Disease increased in newborns of patients with preeclampsia? SMFM Annual Meeting, Poster presentation, 2004.

Scardo JA, Chauhan SP, **Chang E**, Vermillion S. Management of preeclamptic oliguria- A noninvasive management protocol. SMFM Annual Meeting, Poster presentation, 2004.

Chang E, Brost B, and Scardo J. A comparison of 6, 12, and 24 urine collections for the determination of proteinuria in hypertensive gravidas being evaluated for preeclampsia. ACOG Annual Meeting, Poster presentation, 2004.

Chang E, Brost B, and Scardo J. A comparison of 6, 12, and 24 urine collections for the determination of proteinuria in hypertensive gravidas being evaluated for preeclampsia. International Society for the Study of Hypertension in Pregnancy Meeting, Poster presentation, 2004

Chang E, Menard MK, Vermillion SV, Hulseley T, and Ebeling M. Is the incidence of Hyaline Membrane Disease increased in newborns of patients with preeclampsia? International Society for the Study of Hypertension in Pregnancy Meeting, Poster presentation, 2004

Armstrong DM, **Chang E**, Robinson CJ, Sullivan S, Johnson D, Vermillion S, and Van Dorsten JP. A Comparison of Vertical and Pfannensteil Incisions in Patients Undergoing Cesarean Delivery with the Syndrome of Hemolysis, Elevated Liver Enzymes, and Low Platelets (HELLP). SMFM Annual Meeting Poster presentation, 2005.

Chang E, Barbosa E, Singh I, Singh A and Paintilla M. The Effects of treatment with N-Acetylcysteine (NAC) in a rat model of preeclampsia. SMFM Annual Meeting. Oral presentation, 2005. Research excellence award.

Robinson CJ, **Chang E**, Armstrong DM, and Johnson D. Placental growth factor and soluble Fms-like Tyrosine Kinase 1 receptor expression in HELLP syndrome. SMFM Annual Meeting, Poster presentation, 2005.

Sullivan S, Newman R, Lage J, Minamiguchi S, Ebeling M, **Chang E**. Placental Pathology and Perinatal Outcome Associated with Small for Gestational Age Twins. SMFM Annual Meeting. Poster presentation, 2005.

Roginsky R, **Chang E**, and Lazarchick J. Use of a novel point of care test to assess platelet aggregation in preeclampsia. MUSC Resident Research Day, 2005.

Rutledge L, **Chang E**, Vermillion S, and Mathur S. Do Changes in Progesterone Receptor Expression Lead to a Functional Withdrawl of Progesterone and Estrogen Receptor Activation in Preterm Labor? MUSC Resident Research Day, 2005.

Chang E, Armstrong DM, Ebeling M, Hulseley T, Newman R. Urinary tract infections are associated with an increased risk of preeclampsia. Poster Presentation. Annual Meeting of the Society for Maternal Fetal Medicine, 2006

Rutledge L, **Chang E**, Vermillion S, and Mathur S. Do Changes in Progesterone Receptor Expression Lead to a Functional Withdrawl of Progesterone and Estrogen Receptor Activation in Preterm Labor? Poster Presentation. Annual Meeting of the Society for Maternal Fetal Medicine, 2006.

Roginsky R, **Chang E**, and Lazarchick J. Use of a novel point of care test to assess platelet aggregation in preeclampsia. Poster presentation. Annual Meeting of the American College of Obstetrician and Gynecologists, 2006.

Ayasolla K, **Chang E**, Newman R, Barbosa E, and Singh I. N-Acetylcysteine (NAC) attenuates the increased expression of inflammatory mediators in the reduced uterine perfusion pressure model (RUPP) of preeclampsia. Oral presentation. International Society for the Study of Hypertension in Pregnancy XV World Congress. Lisbon, 2006. Young Investigator Award.

Southgate W, Hulseley T, **Chang E**, Annibale D. Meconium in amniotic fluid and lungs: Changes in perinatal management and neonatal outcomes. Poster presentation. American Academy of Pediatrics National Conference and Exhibition, 2006.

Extramural Professional Activities

Course Instructor, Osler Institute. 2002-present

Community Service:

Sunday school teacher at East Cooper Baptist Church 2003

Publications

Peer Reviewed

Carter J, Scardo J, **Chang E**, and Haynes G. Hemodynamic effects of Pneumoperitoneum during gynecologic surgery. *Journal of Gynecologic Surgery*. 1997

Chang E, Menard MK, Vermillion ST, Hulsey T, and Ebeling M. The association between hyaline membrane disease (HMD) and preeclampsia. *American Journal of Obstetrics and Gynecology*. 2004 Oct;191(4):1414-7

Chauhan SP, Grobman WA, Gherman RB, Chauhan VB, **Chang G**, Magann EF, Hendrix NW. Suspicion and management of the macrosomic fetus: A review. *American Journal of Obstetrics and Gynecology*. *American Journal of Obstetrics and Gynecology*. 2005 Aug; 193(2): 332-346.

Chang E, Barbosa E, Paintlia M Singh A, and Singh I. The use of N-acetylcysteine for the prevention of hypertension in the reduced uterine perfusion pressure (RUPP) model for preeclampsia in SpragueDawley rats. *American Journal of Obstetrics and Gynecology*. *American Journal of Obstetrics and Gynecology*. 2005 Sep;193(3 Pt 2):952-6.

Robinson CJ, Johnson DD, **Chang E**, Armstrong DM, and Wang W. Evaluation of placenta growth factor and soluble Fms-like tyrosine kinase 1 receptor levels in mild and severe preeclampsia. *American Journal of Obstetrics and Gynecology*. Accepted Dec 2005.

Non-Peer Reviewed:

Chang E and Soper D. Surgical-site infections after Obstetric and Gynecologic Surgery. *Seminars in Infection Control*. Vol 2(2): 94, 2002

Chang E and Soper D. Pyelonephritis in Pregnancy. *Optimal Obstetrics*. August 2002

Chang E. Timing of delivery in multiple gestation. *Clinical Obstetrics and Gynecology*. Vol 47(2).