

BIOGRAPHICAL SKETCH

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NAME Brian M. Mercer, MD		POSITION TITLE Professor, Case Western Reserve University,	
eRA COMMONS USER NAME BMERCER			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Queen's University, Kingston, Ontario, Canada	BA	1976-1979	Life Sciences
University of Ottawa, Ontario, Canada	MD	1979-1983	Medicine
Toronto East General Hospital, Univ Toronto, Can	Internship	1983-1984	Rotating Internship
University of Ottawa, Ontario, Canada	Residency	1984-1988	Obstetrics & Gyn
UT, Memphis, TN	Fellowship	1988-1990	Maternal-Fetal Medicine

A. Positions and Honors**RESEARCH / PROFESSIONAL EXPERIENCE**

- Instructor (1990-91), Assistant Professor (1991-94), Associate Professor (1994-99), Professor with Tenure (7/99-12/99) Department of OB/GYN, UT Memphis. Director: The Prematurity Center, Methodist Foundation, UT Memphis 1/97 - 12/99 (Co-Director through 12/01), Head of Perinatology: Methodist Health Care, 1998-99.
- Director: Maternal-Fetal Medicine, CASE-MetroHealth Medical Center, 12/99 – Present. Professor with Tenure: Department of Reproductive Biology, CASE, 6/2000 – Present. Associate Program Director; CASE-General Clinical Research Center, 7/2000 – 7/04. Academic Vice-Chair, Department of Obstetrics & Gynecology, CASE-MHMC, 1/02 – Present. Director of Obstetrics, Department of Obstetrics & Gynecology, CASE-MHMC, 7/05 – Present, Cleveland, OH.

HONORS / PRIZES / AWARDS:

UT Medical Group Gold Standard Quality Service Award (1997), Examiner-American Board of Obstetrics & Gynecology (1999- present), CASE-MHMC Resident teaching award (2002), CASE-MHMC Fellowship teaching award (2002), APGO/CREOG teaching award (2003). Board of Directors: Society for Maternal Fetal Medicine (2004- 07) and Executive Committee (2008- present), Board of Directors: Central Association of Ob/Gyn (2003-06), Editorial Board: Obstetrics & Gynecology (2005-08) and Journal of Maternal-Fetal and Neonatal Medicine (2000-present).

B. SELECTED PEER-REVIEWED PUBLICATIONS of 180 published (in chronological order)

-Mercer BM, Sklar S, Shariatmadar A, Gillieson MS, D'Alton ME. Fetal foot length as a predictor of gestational age. Am J Obstet Gynecol 1987;156:350-5.
-Mercer S, Mercer BM, D'Alton ME, Soucy P. Gastroschisis: Ultrasonographic diagnosis, perinatal embryology, surgical and obstetric treatment and outcomes. Can J Surg (January) 1988; 31:1.
-D'Alton M, Mercer BM, Riddick E, Dudley D. Serial thoracic versus abdominal circumference ratios for the prediction of pulmonary hypoplasia in premature rupture of the membranes remote from term. Am J Obstet Gynecol 1992;166:658-63.
-Mercer BM, Moretti ML, Prevost RR, Sibai BM. Erythromycin therapy in preterm premature rupture of the membranes: A prospective, randomized trial of 220 patients. Am J Obstet Gynecol 1992;166:794-802.
-Mercer BM, Crocker L, Pierce F, Sibai B. Clinical characteristics and outcome of twin gestation complicated by preterm premature rupture of the membranes. Am J Obstet Gynecol, 1993;168:1467-73.
-O'Brien JM, Mercer BM, Friedman SA, Sibai BM. Amniotic fluid index in hospitalized hypertensive patients managed expectantly. Obstet Gynecol, 1993; 82:247-50.
-Mercer BM, Crocker L, Boe N, Sibai B. Induction versus expectant management in PROM with mature amniotic fluid at 32-36 weeks: A randomized trial. Am J Obstet Gynecol, 1993;82:775-82.
-Lubarsky SL, Schiff E, Friedman SA, Mercer BM, Sibai BM. Obstetric characteristics among nulliparas under age fifteen. Obstet Gynecol, 1994;84:365-8.
-O'Brien JM, Peeler GH, Pitts DW, Salama MM, Sibai, BM, Mercer BM. Cervicovaginal prolactin: A marker for spontaneous preterm delivery. Am J of Obstet Gynecol, 1994;171:1107-11.

- Mercer BM, McNanley T, O'Brien JM, Randall L, Sibai B. Early vs. late amniotomy for labor induction: A randomized trial. *Am J Obstet Gynecol*, 1995;173:1321-5.
- Mercer BM, Taylor M, Fricke J, Sibai B. The accuracy and patient preference for self-collected Group B streptococcus cultures. *Am J Obstet Gynecol*, 1995;173:1325-8.
- Meis P, Goldenberg R, (Mercer B) et al. The Preterm Prediction Study. Significance of vaginal infections. *Am J Obstet and Gynecol*, 1995;173:1231-5.
- Smith DP, Felker RE, Noe HN, Emerson DS, Mercer B. Prenatal diagnosis of genital anomalies. *Urology*. 1996;47:114-7.
- Iams J, Goldenberg R, Meis P, Mercer BM et al. The Preterm Prediction Study. The length of the cervix and the risk of spontaneous premature delivery. *New Engl J Med*, 1996;334:567-72.
- Mercer BM, Goldenberg RL, Das A, Moawad AH, Iams JD et al. The Preterm Prediction Study. A clinical risk assessment system. *Am J of Obstet and Gynecol*, 1996;174:1885-95.
- Goldenberg RL, Mercer BM, Meis PJ, Copper RL, Das A, McNellis D. fetal fibronectin testing and spontaneous preterm birth. *Obstet & Gynecol*, 1996;87:643-8.
- Schucker J, Mercer B, Audibert F, Lewis R, Friedman SA, Sibai BM. Serial amniotic fluid index in severe preeclampsia: A poor predictor of adverse outcome. *Am J Obstet Gynecol*, 1996;175:1018-23.
- Bottoms S, Paul R, Iams J, Mercer B et al. Obstetrical determinants of neonatal survival: Influence of willingness to perform cesarean delivery on survival of extremely low birth weight infants. *Am J Obstet Gynecol*, 1997;176:960-66.
- Goldenberg RL, Mercer BM, Iams JD et al. The Preterm Prediction Study. Patterns of cervicovaginal fetal fibronectin as predictors of spontaneous preterm delivery. *Am J Obstet Gynecol*, 1997;177:8-12.
- Mercer BM, Miodovnik M et al. Antibiotic therapy for reduction of infant morbidity after preterm premature rupture of the membranes: A randomized trial. *JAMA*, 1997;278:989-995.
- Bendon RW, Faye-Petersen O, (Mercer B) et al. Histologic features of chorio-amnion membrane rupture: Development of methodology. *Pediatric Pathology and Laboratory Medicine*, 1997;17:27-42.
- Meis, PJ, Goldenberg R, Mercer B et al. The Preterm Prediction Study. Risk factors for indicated preterm births. *Am J Obstet Gynecol*, 1997;17:562-67.
- Iams JD, Goldenberg RL, Mercer BM et al. The Preterm Prediction Study. Recurrence risk of spontaneous preterm birth. *Am J Obstet Gynecol*, 1997;178:1035-40.
- Egerman RS, Mercer BM, Doss JL, and Sibai BM. A randomized controlled trial of oral and intramuscular dexamethasone in the prevention of neonatal respiratory distress syndrome. *Am J Obstet Gynecol*, 1998;179:1120-4.
- Goldenberg R, Iams J, Mercer B et al. The Preterm Prediction Study. The value of new versus standard risk factors in predicting early and all spontaneous preterm birth *Am J Public Health*, 1998;88:233-8.
- Bottoms SF*, Paul RH, Mercer BM et al. Obstetrical determinants of neonatal survival: Antenatal predictors of neonatal survival and morbidity in extremely low birth weight infants. *Am J Obstet Gynecol* 1999;180:665-9.
- Andrews WW, Tsao J, Goldenberg RL, (Mercer B) et al. Failure of midtrimester cervical sialidase level elevation to predict subsequent spontaneous preterm birth. *Am J Obstet Gynecol* 1999;180:1151--60.
- Mercer BM, Carr T, Beazley DM, Crouse DT, Sibai BM. Antibiotic use in pregnancy and drug resistant infant sepsis. *Am J Obstet Gynecol*, 1999;181:816-21.
- Mercer BM, Goldenberg RL, Moawad AH et al. Effect of gestational age and cause of preterm birth on subsequent obstetric outcome. *Am J Obstet Gynecol*, 1999;181:1216-21.
- Bendon RW, Faye-Petersen O, (Mercer BM) et al. Fetal membrane histology in preterm premature rupture of membranes: comparison to controls, and between antibiotic and placebo treatment. *Pediatric and Developmental Pathology*, 1999;2:552-8.
- Schuchat A, Zywicki S, Dinsmoor MJ, Mercer BM et al. Risk factors and opportunities for prevention of early-onset neonatal sepsis: a multicenter case-control study. *Pediatrics* 2000;105:21-6
- Goldenberg RL, Andrews WW, (Mercer BM) et al. Granulocyte colony stimulating factor and spontaneous preterm birth. *Am J Obstet Gynecol*: 2000;182:625-30.
- Goldenberg RL, Andrews WW, (Mercer B) et al. Cervical lactoferrin concentration, other markers of lower genital tract infection, and preterm birth. *Am J Obstet Gynecol*, 2000;182:631-5
- Goldenberg RL, Iams JD, Das A, Mercer BM et al. Sequential cervical length and fetal fibronectin testing for the prediction of spontaneous preterm birth. *Am J Obstet Gynecol*, 2000;182:636-43.

- Mercer BM, Goldenberg RL, Meis PJ et al. Prediction of preterm premature rupture of the membranes using clinical findings and ancillary testing. *Am J Obstet Gynecol* 2000;183:738-45.
- Goepfert AR, Goldenberg RL, Mercer B et al. Quantitative fetal fibronectin values and the prediction of spontaneous preterm birth. *Am J Obstet Gynecol.* 2000;183(6):1480-1483.
- Alexander JM, Mercer BM, Miodovnik M et al. The impact of digital cervical examination on expectantly managed preterm rupture of membranes. . *Am J Obstet Gynecol.* 2000;183:1003-7.
- Goepfert AR, Goldenberg RL, Andrews WW, (Mercer B) et al. Association between cervical interleukin 6 concentration and spontaneous preterm birth. *Am J Obstet Gynecol.* 2001;184:483-8.
- Goepfert AR, Goldenberg RL, (Mercer B) et al. Quantitative fetal fibronectin values and the prediction of spontaneous preterm birth. *Am J Obstet Gynecol.* 2000;183:1480-3.
- Iams JD, Goldenberg RL, Mercer BM et al. The Preterm Prediction Study. Can low-risk women destined for spontaneous preterm birth be identified? *Am J Obstet Gynecol.* 2001;184:652-5.
- Goldenberg RL, Iams JD, Mercer BM et al. The Preterm Prediction Study. Toward a multiple-marker test for spontaneous preterm birth. *Am J Obstet Gynecol.* 2001;185:643-51.
- Ramsey PS, Tamura T, Goldenberg RL, Mercer BM et al. Elevated cervical ferritin levels at 22 to 24 weeks of gestation are associated with spontaneous preterm delivery in asymptomatic women. *Am J Obstet Gynecol.* 2002;186:458-63.
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- Goepfert AR, Varner M, Ward K, (Mercer B) et al. Differences in inflammatory cytokine and Toll-like receptor genes and bacterial vaginosis in pregnancy. *Am J Obstet Gynecol.* 2005;193:1478-85.
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- Wapner RJ, Sorokin Y, Thom EA, (Mercer B) et al. Single versus weekly courses of antenatal corticosteroids: evaluation of safety and efficacy. *Am J Obstet Gynecol.* 2006;195:633-42.
- Merlino A, Laffineuse L, Collin M, Mercer B. Impact of weight loss between pregnancies on recurrent preterm birth. *Am J Obstet Gynecol.* 2006;195:818-21.
- Ehrenberg HM, Mercer BM. Abbreviated postpartum magnesium sulfate therapy for women with mild preeclampsia: a randomized controlled trial. *Obstet Gynecol.* 2006;108:833-8.
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- Pandey V, Jaremko K, Moore RM, Mercer BM et al. The force required to rupture fetal membranes paradoxically increases with acute in vitro repeated stretching. *Am J Obstet Gynecol.* 2007;196:165.e1-7.
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- Rouse DJ, Caritis SN, Peaceman AM, (Mercer BM) et al. A trial of 17 alpha-hydroxyprogesterone caproate to prevent prematurity in twins. N Engl J Med. 2007;357:454-61.
- Sawady J, Mercer BM, Wapner RJ et al. Beneficial Effects of Antenatal Repeated Steroids study: impact of repeated doses of antenatal corticosteroids on placental growth and histologic findings. Am J Obstet Gynecol. 2007;197:281.e1-8.
- Wapner RJ, Sorokin Y, Mele L, (Mercer B) et al. Long-term outcomes after repeat doses of antenatal corticosteroids. N Engl J Med. 2007;357:1190-8.
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- Caritis SN, Rouse DJ, Peaceman AM, (Mercer BM) et al. Prevention of preterm birth in triplets using 17 alpha-hydroxyprogesterone caproate: a randomized controlled trial. Obstet Gynecol. 2009;113:285-92.
- Khoury FR, Stetzer B, Myers SA, Mercer B. Comparison of estimated fetal weights using volume and 2-dimensional sonography and their relationship to neonatal markers of fat. J Ultrasound Med. 2009;28:309-15.
- Khoury FR, Ehrenberg HM, Mercer BM. The impact of maternal obesity on satisfactory detailed anatomic ultrasound image acquisition. J Matern Fetal Neonatal Med. 2009;22:337-41
- Moore RM, Novak JB, Kumar D, (Mercer BM) et al. Alpha-Lipoic Acid Inhibits Tumor Necrosis Factor-Induced Remodeling and Weakening of Human Fetal Membranes. Biol Reprod. 2009;80:781-7.
- Merlino A, Welsh T, Erdonmez T, (Mercer B) et al. Nuclear Progesterone Receptor Expression in the Human Fetal Membranes and Decidua at Term Before and After Labor. Reprod Sci. 2009;16:357-63.
- Waters TP, Mercer B. Impact of timing of antenatal corticosteroid exposure on neonatal outcomes. J Matern Fetal Neonatal Med. 2009;22:311-4.
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- Waters TP, Schultz BA, Mercer BM, Catalano PM. Effect of 17alpha-hydroxyprogesterone caproate on glucose intolerance in pregnancy. Obstet Gynecol. 2009;114:45-9.
- Fonseca L, Ramin SM, Mele L, (Mercer B) et al. Bone Metabolism in Fetuses of Pregnant Women Exposed to Single and Multiple Courses of Corticosteroids. Obstet Gynecol. 2009;114:38-44.
- Rouse DJ, Weiner SJ, Bloom SL, (Mercer BM) et al Second-stage labor duration in nulliparous women: relationship to maternal and perinatal outcomes. Am J Obstet Gynecol. 2009 Oct;201(4):357.e1-7.

C. Research Support

Current research

- 1U10HD63072-01 (Brian Mercer – PI) 1/10 – 12/13
NICHD, Preterm Birth in Nulliparous Women: An Understudied Population at Great Risk
Role: Principal Investigator (15% fte)

- U10 HD40544-01 (Brian Mercer – PI) 4/01 – 3/06
U10HD040544-06 (Brian Mercer – PI) 4/06 – 3/11
NICHD, Cooperative Multicenter Maternal Fetal Medicine Unit Network
Role: Principal Investigator (20% fte)

- R01-HD048476 (John Moore, PI) 4/04 – 3/09
NICHD, Stretch and Apoptosis Cause Fetal Membrane Rupture
Role: Co-investigator (5% fte)