

Curriculum Vitae

Ira Mark Bernstein

Professor and University Scholar

Department of Obstetrics, Gynecology and Reproductive Sciences
Robert Larner M.D. College of Medicine at the University of Vermont
Burlington, Vermont

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Burlington, Vermont 05405

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Education and Honors: Union College, Schenectady, N.Y. 1978
B.S. Psychobiology, Magna Cum Laude
Eliphalet Nott Scholar

University of Vermont College of Medicine M.D. 1983
Alpha Omega Alpha Medical Honor Society,
Carbee Award for Excellence in Ob/Gyn,
Mosby Scholarship Award

George Washington Univ. Hospital, Resident Ob/Gyn 1983-87
Chief Administrative Resident 1986-87,
Surgical Resident of the Year 1987,
Obstetrical Resident of the Year 1987

University of Vermont College of Medicine
Fellow in Maternal Fetal Medicine 1987-90

American College of Physician Executives
On-Site Physician Leadership Education Program Feb-Apr 2003

Harvard School for Public Health
Leadership Development of Physicians in Academic Health Centers
October 2006

AAMC Executive Development Seminar for Associate Deans and
Department Chairs October 2009

Publication selected "Outstanding in Field"
Clinical Digest Series OB/GYN
1992 (Publication #8)

New England Perinatal Society
Ross Award for Clinical Science Presentation
1994 (Abstract #19) 1999 (Abstract # 47)

New England Perinatal Society
Ross Award for Basic Science Presentation
1994 (Abstract # 20)

Society for Perinatal Obstetricians
Fellow Plenary Session Award
1995 (Abstract #25)

University of Vermont College of Medicine
Distinguished Academic Achievement Award 2002

New England Society for Health Care Communications
Lamplighter Award of Excellence May 2005

Society for Maternal Fetal Medicine
Research Excellence Award
2008 (Abstract #101)

Society for Gynecologic Investigation
Trainee Poster Session Award
2010 (Abstract #123)

University of Vermont
University Scholar Award 2016-17

Appointments: Professor and University Scholar 2016-
Department of Obstetrics, Gynecology and Reproductive Sciences
Larner College of Medicine, University of Vermont

Chair and Health Care Service Leader 2012-24
John van Sicklen Maeck Chair
Department of Obstetrics, Gynecology and Reproductive Sciences
Larner College of Medicine, University of Vermont
Chief: Women's Health Care Service
University of Vermont Medicine Center

Senior Associate Dean for Research
University of Vermont College of Medicine 2009-2014

Fellowship Director: Maternal Fetal Medicine
Fletcher Allen Health Care
University of Vermont
Department of Obstetrics, Gynecology and Reproductive Sciences 2004-10

Faculty Member: Graduate College 2006-
University of Vermont

Vice-Chair for Obstetrics
Fletcher Allen Health Care, Women' Health Care Service
University of Vermont Department of Obstetrics and Gynecology 2003-09

Director: Maternal Fetal Medicine
Fletcher Allen Health Care, Women's Health Care Service
University of Vermont Department of Obstetrics and Gynecology 2003-09

Acting Chair and Health Care Service Leader:
Department of Obstetrics and Gynecology / Women's Health Care Service
University of Vermont / Fletcher Allen Health Care 12/06-2/07

Director: Core Laboratory for Imaging
General Clinical Research Center
University of Vermont College of Medicine 2003-2006

Research Subject Advocate
General Clinical Research Center
University of Vermont College of Medicine 2001-2006

Professor (tenured)
Obstetrics, Gynecology and Reproductive Sciences 2001
University of Vermont College of Medicine

Chair: Institutional Review Board for Human Research
University of Vermont 1996-2001

Associate Professor (tenured)
Obstetrics, Gynecology and Reproductive Sciences
University of Vermont College of Medicine 1996-2001

Assistant Professor: Obstetrics/Gynecology/ Maternal Fetal Med
University of Vermont College of Medicine 1990-1996

Named New Investigator/Sims Obesity Nutrition Research Center
University of Vermont College of Medicine 1993-95

Instructor: Obstetrics and Gynecology
University of Vermont College of Medicine 1987-90

Instructor: Obstetrics and Gynecology
George Washington University Hospital 1986-87

Research Assistant, Department of Internal Medicine
Division of Endocrinology/Metabolism, UVM College of Medicine 1982

Certification:	Diplomate: ABOG/Maternal Fetal Medicine	1992-present
	Diplomate: American Board OB/GYN	1991-present
	Diplomate: National Board of Medical Examiners	1983

Service, Committees: Local

University of Vermont: Institutional Review Board for Human Experimentation

Member 1991-2001, Associate Chair: 1992-96, Chair:1996-2001

Alternate Member 2001-2003

Internal Advisory Committee 2002-2010

Medical Center Hospital of VT Committee on Resident Coverage in OB/GYN 1992-94

Fletcher Allen Health Care Diabetes Center Stakeholder 1994-96

Fletcher Allen Health Care Insulin Task Force 1996

Fletcher Allen Health Care Women's Health Care Service, Quality Assurance Committee: Second

Trimester Termination 1995

University of Vermont, Department of Obstetrics and Gynecology

Ad Hoc Committee on Research 1995-2009

Research Finance Committee 1995-2009

Fletcher Allen Health Care, Women's Health Care Service Standing Committee on Rules and
Regulations 1995

Fletcher Allen Health Care, Newborn Care Team

Communications Working Group 1996

Fletcher Allen Health Care, Newborn Formula Pack Committee Working Group 1997

Fletcher Allen Health Care Women's Health Care Service

Bonus Distribution Subcommittee 1999

University Health Center Inc. Board of Trustees 1999-2005

Financial Investment sub-committee 1999-2005

Board President 2001-2003

Board Chairperson 2003-2004

University of Vermont, member, Chair Search, Department of Radiology 2000-02

University of Vermont, VT Children's Obesity Program Working Group 2001-03

University of Vermont General Clinical Research Center Scientific Advisory Committee,
Ex Officio member 2001-2006

University of Vermont, Web Site Development Group Department of Ob/Gyn 2002

University of Vermont, Chair, Faculty Search Committee, Geneticist, Department of Obstetrics and
Gynecology 2003-04

University of Vermont, member, Faculty Search Committee, Reproductive Scientist, Department of
Obstetrics and Gynecology 2003-06

Fletcher Allen Health Care, Professional Compliance Committee 2003-04

University of Vermont, Chair, Neurology Dept Tenure Review Committee, Marilyn Cipolla 2004

University of Vermont College of Medicine, Governance Task Force 2004-2005

University of Vermont College of Medicine, Anna Euser, Ph.D. Thesis Committee, 2005-07

Fletcher Allen Professional Corporation, Nominations Committee 2005-2010, Chair 2007-2010

University of Vermont/FAHC CCTS Advisory Committee 2005-2012

Fletcher Allen Health Care, Women's Health Care Service, Practice Standards Committee 2005-09

FAHC, Scholarship Oversight Committee: Robert Pfister, Neonatology fellow 2006-07

University of Vermont College of Medicine Dean Search Committee 2006-2007

University of Vermont Research, Scholarship & Graduate Education Committee, 2007-09

Fletcher Allen Health Care Senior Management Strategic Planning Committee 2007-09

Fletcher Allen Health Care Physician Pipeline Development Committee 2007-09
Fletcher Allen Health Care Master Plan Facility Affinity Group #2 2007
Fletcher Allen Health Care Professional Revenue Stream Initiative 2007-08
FAHC, Scholarship Oversight Committee: S. Kendra Ardell, Neonatology fellow 2008-11
Fletcher Allen Health Care Finance sub-committee 2008-09
University of Vermont Medical Group (UVMMG) Research and Education Committee 2009-17
Chair 2016-17
University of Vermont Research Conflict of Interest Oversight Committee 2009-2017
DSMB member; Effective Contraception in Narcotic Addicted Young Women (NIH R03, PI Heil) 2011-2013
University of Vermont Presidential Search Committee, Chair: Faculty Panel 2010-2012
UVM COM LCME Task Force subcommittee: Educational Resources 2012
Fletcher Allen Health Care-UVMMG President/Senior Associate Dean for Clinical Affairs Search Committee 2013
Fletcher Allen Health Care-IT Research Compliance Committee 2013-2017
DSMB member; Effective Contraception in Narcotic Addicted Young Women (NIH R01, PI Heil) 2014-2019
UVM COM FTARS Re-evaluation Committee 2013-14
Chair-research sub-committee
UVM Cardiovascular Research Institute (CVRI) Board of Directors 2014-
UVM CNHS Dean Review: Chair-review committee 2014
UVM-WCHNBRI Research Misconduct investigation committee 2014
UVM COM Standing Committee on Endowed Chairs 2014-19
UVM COM Senior Associate Dean for Research: search committee 2014-15
UVMMC Patient Care and Operations 2014-2016
Subcommittee: Physician Effort Allocation 2015
University Medical Education Associates (UMEA) Board 2015-2024
Finance sub-committee 2015-2018
University of Vermont College of Medicine, Chair, Chair search committee, Department of Radiology 2016-17
Vermont State Chemicals of High Concern Working Group Oct 2016-2020
University of Vermont Health Network Medical Group Finance Committee Chair 2017-
University of Vermont Faculty Practice Finance Committee Chair 2017-
University of Vermont Health Network Physician Organization Board Vice-Chair 2017-19
University of Vermont Larner College of Medicine Dean search committee member 2017-18
University of Vermont Health Network Medical Group Executive Planning Council 2017-19
University of Vermont Presidential Search Committee, Faculty Panel 2018-19
University of Vermont Health Network UVMMC President and COO search committee 2019
UVMHN Physician Advisory Group; Lumeris Engagement 2019-20
University of Vermont Larner College of Medicine LCME prep Chair subcommittee 10 2019-21
UVMMC Institutional EDI Task Force 2019-22
UVMMC Patient Rights and Responsibility Task Force Chair 2019-20
UVMMC Discriminatory Patient Preference Working Group Chair 2020
UVM LCOM Re-opening Clinical Research Work Group 2020
University of Vermont Larner College of Medicine VT Cancer Center Director/Heme Onc Division
Director search committee Co-chair 2020-21
University of Vermont Larner College of Medicine FTARRS Re-evaluation Committee Co-chair

2020-22

University of Vermont Center for Cardiovascular and Brain Health
Publications and Grants Committee 2021-
UVMMC MFM Fellowship Thesis Committee David Coggin-Carr 2021-
UVMMC MFM Fellowship Thesis Committee Amy Shumer 2022-
University of Vermont Center for Cardiovascular and Brain Health (VCCBH)
Annual meeting 2024 Organizing committee
Annual meeting Session Moderator 6/24
UVMMC MFM Fellowship Thesis Committee Aneesa Stewart 2023-
UVMMC MFM Fellowship Thesis Committee/Mentor Isha Vasudeva 2024-
UVMMC REI Fellowship Thesis Committee Carleigh Nesbitt 2023-
UVMMC REI Fellowship Thesis Committee Catherine Boniface 2024-

Service, Committees: Regional/National

Perinatal Research Society 1996-
Council member 1998-2000, President-elect 03/04, President 04/05, Past President 05/06
New England Perinatal Society 1987-
Prog. Comm. 1992-99, Sec/Treas. 95/96, Vice Pres. 96/97, Pres. 97/98
Society for Gynecologic Investigation 1994-
Membership advisory group ad hoc 2001
Membership advisory committee 2001-2004
Vermont Program for Quality in Health Care, Inc. (VPQHC)
Diabetes Steering Committee 1999-2005
National Institute of Health: NICHD: The National Children's Study
Nutrition, Growth and Pubertal Development Working Group 2002-2004
Fetal Growth workshop 12/02
Body Composition workshop 10/04
National Institute of Health, HED-1 Study Section Ad Hoc 2/01, 10/03
National Institute of Health, Special Study Section (Cooperative Centers in Reproductive Research)
11/02
National Institute of Health, Special Study Section ZRG1 EMNR-F (04) 07/12/05
Vermont Oxford Neonatal Network:
Database Advisory Committee: 2005-2016
Board of Directors: 2015-
National Institute of Health, Pregnancy and Neonatology Study Section
Regular member 2006-09
Chair 2009-11
National Institute of Health, NICHD Advisory Committee: National Standard for Normal Fetal Growth
Study 2008-11
National Institute of Health, Chair-Special Study Section 2009/01 ZRG1 EMNR-D (02) S 11/24/08
National Children's Study, NIH, Ultrasound Training-Vanguard Centers Webinar 3/12/09, 5/21/09
National Institute of Health, Special Study Section 2009/01 ZRG1-EMNR-C 58 6/11/09
National Institute of Health, SEP 2009/01 ZHD1-DSR-K ZG "RECOVERY" National Standard for
Normal Fetal Growth 5/12/10
National Institute of Health, NICHD Scientific Vision Workshop planner on Developmental
Origins of Health and Disease.2010-11
National Institute of Health, NICHD 2011/01 ZHD1 DRG-D (SY) Chair-Special Study Section
Cooperative Multicenter Trials in Obstetrics & Maternal Fetal Medicine (Teleconference)
12/16/2010

American College of Ob/Gyn, Task Force on Hypertension in Pregnancy 2011-13
Gates Foundation Reviewer: Global Alliance for Preventing Preterm Birth and Stillbirth 2012
National Institute of Health, SEP ZRG1 EMNR-T (02), members Study Section 01/30/13
National Institute of Health, SEP SBIR/STTR ZHD1 DRG-H (92) B Chair-Study Section 12/3/13
National Institute of Health, NICHD concept document review, "Fetal Body Composition and Volumes in the NICHD Fetal Growth Studies".ZHD1 DSR-K (42) 2/12/14
National Institute of Health: CSR's Pilot Study to Evaluate the Relative Quality of Grant Applications 10/6/14
Preeclampsia Foundation: Medical Advisory Board member (MAB) 2014-
Preeclampsia Foundation "Vision Grant" review committee 2021-
Expert Directory: Application Review Committee 2022-
MAB Chair 2024-
National Institute of Health, Protocol Review Committee "Chronic Hypertension and Pregnancy, CHAP Clinical Trial" 11/06/14, 1/14/15, 3/10/15
National Institute of Health, NICHD Human Placental Project meeting April 2016
CoLab Preeclampsia Care Plan Development: Precia Group 2022-23
National Institute of Health; NHLBI "Chronic Hypertension and Pregnancy, CHAP Clinical Trial" Maternal F/U study OSMB 2022-

Societies: Council of University Chairs in Obstetrics and Gynecology 2012-
Society for Maternal Fetal Medicine 1988-
Society for Reproductive Investigation 1994-
Perinatal Research Society 1996-
New England Perinatal Society 1987-
American College of Obstetrics and Gynecology 1988-
International Society of Ultrasound in OB/GYN 1991-2010
American Institute of Ultrasound in Medicine 1989-2002
Vermont State Medical Society 1993-99, 2002-
Physicians for Social Responsibility 1978-1984
American Medical Student Association 1978-1983

Associate Editor: Reproductive Sciences 2020-22

Reviewer, Ad Hoc; Journals

1)	Pediatrics	2)	Am J of Obstetrics and Gynecology
3)	Obstetrics and Gynecology	4)	J of Mat Fetal and Neonatal Med
5)	Am J of Human Biology	6)	Am J Clinical Nutrition
7)	Am J of Perinatology	8)	JAMA
9)	J Clin Endocrinol Metab	10)	JSGI/Reproductive Sciences
11)	Kidney International	12)	Ultrasound Obstet Gynecol
13)	Gynecol and Obstet Invest	14)	Expert Review of Obstetrics & Gynecology
15)	Hypertension in Pregnancy	16)	Hypertension
17)	Experimental Physiology		

Reviewer, Ad Hoc; Other

- 1) Society for Gynecologic Investigation, abstract reviewer
- 2) Hospital for Sick Children Foundation (Toronto, ON)
- 3) Vermont Department of Health "Gestational Diabetes Report"
- 4) American Federation for Medical Research, abstract reviewer

Grants:

Peer reviewed research:

ACOG\Mead Johnson: Principle Investigator: Clinical Research Fellowship (P.I. Bernstein)
\$10,000 Study of Fetal Body Composition 1989

National Institute of Health: Sims Obesity/Nutrition Research Center (P.I. Bernstein)
Pilot/Feasibility Project
Prenatal Imprinting of Energy Metabolism in the Fetus
10/1/92-9/30/95

Medical Center Hospital of Vermont: Children's Miracle Network Grants (P.I. Bernstein)
Prevention of Low Birth Weight in Vermont
1/15/93-1/14/95

National Institute of Health: Sims Obesity/Nutrition Research Center (P.I. Danforth)
Named New Investigator
10/1/93-9/30/95

University of Vermont: Interim Research Support (P.I. Bernstein)
Prenatal Imprinting of Energy Metabolism in the Fetus
12/1/95-12/1/96

Department of Obstetrics and Gynecology, University of Vermont (*P.I. Zeigler*)
Co-Investigator/Mentor: Uterine Artery Flow: Adaptation through the Menstrual Cycle and in
Early Pregnancy under Normal Conditions
10/1/96-9/30/98

Fletcher Allen Health Care: Patient Oriented Research Pilot Project Award (*P.I. Zeigler*)
Co-Investigator/Mentor: Hormonal Correlation of Plasma Volume Expansion through the
Menstrual Cycle into Early Pregnancy.
10/1/97-9/30/98

Department of Obstetrics and Gynecology, University of Vermont (P.I. Bernstein)
Plasma Volume and Peripheral Sympathetic Tone in Women with Variants in
Angiotensinogen Genotype.
10/1/98-9/30/01

National Institute of Health (NHLBI) RO1 HL 63101 (P.I. Bernstein)
Uterine Vascular Response to Steroid Signaling
7/1/99- 6/30/04

National Institute of Health (NIDA) RO1 DA 14028 (P.I. Higgins)
Co-investigator: Voucher-based Incentives to Treat Pregnant Smokers
6/01/01-5/31/06:

National Institute of Health (NCRR) GCRC MO1 RR 109 (P.I. Evans)
General Clinical Research Center; Research Subject Advocate
7/01/01- 3/31/06

Department of Obstetrics and Gynecology, University of Vermont (*P.I. Damron*)
Co-Investigator/Mentor: Plasma Volume, Sympathetic Tone and Hemodynamics.
10/1/01-6/30/03

National Institute of Health, RO1, AG 021602 (*P.I. Toth*)
Collaborator: Effect of Ovarian Suppression on Substrate Metabolism
12/1/02- 11/30/07

National Institute of Health, RO1, HL 71944 (*P.I. Bernstein*)
Pre-pregnancy Phenotype & Predisposition to Preeclampsia
2/1/04-7/31/09

National Institute of Health, K-30 Clinical Research Training Grant (*P.I. Littenberg*)
Internal Advisory Committee University of Vermont
5/01/05-4/30/12

National Institute of Health (NIDA) RO1 DA 14028 (*P.I. Higgins*)
Co-investigator: Voucher-based Incentives to Treat Pregnant Smokers
7/01/06-6/31/11

National Institute of Health (AR) RO1 AR 0050421 (*P.I. Beynnon*)
Co-investigator: A case control study of ACL injury risk factors
9/01/07- 6/30/12

National Institute of Health, NICHD K-12 Women's Reproductive Health Research
(*P.I. Phillippe*)
Chair: Internal Advisory Committee University of Vermont
9/01/09-7/01/12

National Institute of Health 3RO1 NS045940-06S1 (*P.I Cipolla*)
Neural Environment Cluster Supplement to NS045940-05
Mechanisms of blood-brain barrier permeability during pregnancy and preeclampsia
02/01/10-01/31/12

Department of Energy SC 0001753 (*P.I. Bernstein*)
University of Vermont Center for Biomedical Imaging
10/01/10-9/30/12

National Institute of Health, RO1, HL 71944 (*P.I. Bernstein*)
Pre-pregnancy Phenotype & Predisposition to Preeclampsia
7/1/10-6/31/16

National Institute of Health NICHD (*P.I. Bernstein*)
K-12 Women's Reproductive Health Research
7/01/12-5/30/15

National Institutes of Health/DHHS/Food and Drug Administration P-50 (*P.I. Higgins*)
Tobacco Center of Regulatory Science (TCORS)

Vermont Center on Tobacco Regulatory Science
9/15/13-7/1/16

National Institute of Health (NICHD/CDC) RO1 HD 75669 (P.I. Higgins)
Co-I: Financial Incentives for Smoking Cessation among Disadvantaged Pregnant Women
9/10/13-8/31/18

National Institute of Health (NIGMS) CoBRE P-20 (P.I. Higgins)
Project Mentor/Co-I: (Phillips) Incentives Targeting Gestational Weight Gain in Overweight
and Obese Low Income Women
9/10/13-8/31/18

National Institute of Health /NDS NS045940 (P.I. Cipolla)
The Role of the Blood Brain Barrier in Seizure during Pregnancy and Preeclampsia
4/1/14- 3/31/19

National Institute of Health / NIH/LBI RO1 HL141747 (co-PI's Bonney/Gokina)
Systemic Vascular Remodeling in Females: Effects of the Immune System and
experience of Pregnancy
7/1/17-6/30/23

New England Fertility Society/Ferring (PI/mentor)
The Interaction of Basal Risk, Controlled Ovulation Hyperstimulation and Early
Pregnancy on Hemostatic Balance.
1/1/18-12/31/19

National Institutes of Health/DHHS/Food and Drug Administration P-50 (PI Higgins)
Tobacco Center of Regulatory Science (TCORS)
Vermont Center on Tobacco Regulatory Science
9/15/18-7/1/20

National Institute of Health (NHLBI) R61/R33 HL141787 (PI's Bernstein/Orfeo)
The Interaction of Basal Risk, Pharmacologic Ovulation Induction, Pregnancy and
Delivery on Hemostatic Balance
4/1/18-3/31/24

National Institute of Health (NIGMS) CoBRE P-20 (P.I.'s Cushman/Nelson)
Vermont Center for Cardiovascular and Brain Health
Project Mentor/ (PD Peters) Predictors of Post-Stroke Functional Recovery
8/1/20-3/31/24

Cardiovascular Research Institute of Vermont (PI Barker)
Endogenous Clot Formation Potential in the Late Pregnant and Postpartum Woman
7/1/20-6/30/21 Role-Mentor

Equipment/ Supply/ Travel

Society of Perinatal Obstetricians: Sam Seeds Fellowship 1990
\$3,000 Study of Doppler Velocimetry

University of Vermont: Research Advisory Council
Capital Equipment Grant: EM SCAN, T.O.B.E.C. Unit \$6,305 12/1/92

Perinatal Research Society
NICHD sponsored Young Investigator Award 10/95

Fertility Technologies/Quidel
Co-Investigator/Mentor: Uterine Artery Flow: Adaptation through the Menstrual Cycle and in Early Pregnancy under Normal Conditions.
\$ 5,000 10/1/96-10/1/98 Research Supply Grant

Acuson Corporation
Principal Investigator: Unrestricted Research Funding \$1,000 1/1/97

Department of Obstetrics and Gynecology, University of Vermont
Ultrasound equipment upgrade. \$ 10,000 10/1/99

Select Medical Systems Williston, VT
Endometrial biopsy equipment 3/1/00-6/30/04

Research Trainees:

Undergraduates

Rucquoi M. Fetal growth modeling 1994

John L. Cardiovascular response to volume challenge in young women 2014

Medical Students:

Fasking J. In Utero Accretion of Fetal Fat in Fetuses of Diabetic Mothers. 1990

Austin J. Placental histology in patients with elevated maternal serum alphafetoprotein: Association with placental sonolucencies and feto-maternal hemorrhage. 1991

Ing E. Maternal hemoglobin concentration and it's association with birth weight in newborns of mothers with preeclampsia 1995

Phillips J. Seasonal Variation in Preeclampsia based upon Timing of Conception 2004

Choate M. Association of vaginal blood flow response to erotic stimulus and markers of cardiovascular risk. 2010

Brown A. Association of smoking cessation with blood pressure changes during pregnancy 2014-6

Hermel D. Changes in cerebral blood flow associated with pregnancy in prior preeclamptics 2013-5

Supple J. Prediction of blood pressure changes in pregnancy based on prepregnancy sympathetic responsiveness 2015

Woodruff H. Arterial stiffness and distensibility association with recurrent preeclampsia 2018-21

Barker E. The role of microvesicles in peripartum thrombogenesis 2020-1

Cardozo, S The role of microvesicles in peripartum fibrinolysis 2021-22

Horn, C. The interaction of preeclampsia with coagulation balance 2022-23

Residents:Ob/Gyn

Watson M. Brain death and prolonged fetal survival 1988

Wall B. Reproducibility of resident acquired fetal morphometrics 1994

Mohs G. The case for "Hybrid fetal growth curves": A population based estimation of normal fetal size across gestational age 1994-5.

Blake K. Evidence that normal fetal growth is not continuous 1995

Plociennik K. The impact of maternal smoking on fetal growth and body composition 1995
Stahle S. The impact of maternal smoking on fetal growth and body composition 1996
Flaherty K Angiotensinogen genotype and fetal bradycardia following intrapartum spinal analgesia 2002-3
Thibault A The effect of pregnancy on arterial compliance 2003-4
Janowiak M. Birth weight shows a bimodal distribution in newborns of near term and term preeclamptic mothers 2005-6
Sullivan C. The association of maternal blood pressure and cardiac output with markers of endothelial activation prior to and during pregnancy 2006-7.
Frenn R.. Influence of maternal age on birth outcomes in smoking mothers 2008
Carol N. In-vivo estradiol stimulates uterine VEGFR2 expression in human endometrium: A randomized controlled trial 2011-13
Cooper K Maternal uterine blood flow and its independent effect on fetal growth in offspring of smoking mothers 2013-4

Clinical Fellows:

Konchak P. Maternal Fetal Medicine Abnormal uterine artery Doppler velocimetry predicts adverse obstetric outcome in women with elevated maternal serum alphafetoprotein 1993-4
Zeigler W. Reproductive Endocrinology and Infertility Regional hemodynamic adaptation through the menstrual cycle.1995-7
Silver R. Neonatology/Perinatology Amniotic fluid glycine/valine Ratio and neonatal morbidity in fetal growth restriction 1996-7
Fry AG. Maternal Fetal Medicine Models for defining third trimester fetal weight gain 1999-2001
Whitsel A. Maternal Fetal Medicine Plasma volume and sympathetic tone in nulligravid women. 2000-2
Damron D. Maternal Fetal Medicine Uterine arterial response to alpha-adrenergic blockade 2001-3
Jones CW. Maternal Fetal Medicine Sildenafil and uterine blood flow in nonpregnant nulliparous women 2007-8
Amburgey O. Maternal Fetal Medicine MRI quantification of brain water diffusion in nonpregnant, pregnant, and postpartum women 2007-9
Wulffkuhle K.. Maternal Fetal Medicine Tissue factor dependent and independent thrombin generation across pregnancy 2010-1
Davenport WB. Reproductive Endocrinology and Infertility In-Vivo estradiol effects on VEGF receptor-1 and receptor-2 expression in human endometrium 2012-4.
Morris E. Maternal Fetal Medicine. Cardiovascular profile in women with a history of HELLP syndrome versus preeclampsia prior to and during subsequent pregnancy 2013-5.
Cooper K. Maternal Fetal Medicine The association of vascular stiffness with cardiac dysfunction in young health women of reproductive age. 2016-2018
Chiware, T. Reproductive Endocrinology and Infertility Influence of ART and ovulation induction on coagulation balance 2017-2019; Bone mineral density in women with preeclampsia. 2017-19
Kulkarni A. Maternal Fetal Medicine Placental abnormalities and ER stress response associated with arterial under perfusion. 2019-2021
Psoinos R. Maternal Fetal Medicine Prepregnancy inflammation, subclinical cardiovascular function and subsequent pregnancy outcome. 2020-2022
Vasudeva I Postpartum Maternal Cardio-Obstetric Evaluation Following Complicated Pregnancy 2024-

MS students:

Pantazelos M. Medical Sciences Boston University College of Medicine Seasonality of human reproduction 1997-8

Howe L. Clinical and Translational Science, Boston University College of Medicine Evaluating the effect of prior preeclampsia and interval between pregnancies on subsequent pregnancy blood pressure 2014-15

PhD students:

McBride C. Clinical and Translational Science, University of Vermont College of Medicine. The effect of maternal hypertension on neonatal outcome 2010-16

Hoppe K. Clinical and Translational Science, University of Wisconsin College of Medicine. Blood pressure adaptation in pregnancy and postpartum. 2020-

Loftness B. Biomedical Engineering A Machine Modeling Approach to the Prediction of Preterm Preeclampsia. 2022-23

Post-Docs:

Hale Sarah: Evidence of Vascular Dysfunction Prior to Pregnancy in Women who Subsequently Develop Preeclampsia

Publications: (Peer reviewed, *italics* indicates co-author in training)

1. Catalano PM, Bernstein IM, Wolfe RR, Sims EAH. "Subclinical Abnormalities of Glucose Metabolism in Former Gestational Diabetics." *Am J Obstet Gynecol* 1986;155:1255-62.
2. Bernstein IM, *Watson M*, Simmons GM, Catalano PM, Davis G, Collins R. "Maternal Brain Death and Prolonged Fetal Survival." *Obstet Gynecol* 1989;74:434-437.
3. Bernstein IM, Capeless EL. "Elevated Maternal Serum Alphafetoprotein and Hydrops Fetalis in association with Parvovirus B-19 Infection." *Obstet Gynecol* 1989;74:456-7.
4. Bernstein IM, Catalano PM. "Ketoacidosis in Pregnancy Associated with the Parenteral Administration of Terbutaline and Betamethasone." *J Reprod Med* 1990;35:818-820.
5. Bernstein IM, Catalano PM. "Sonographic Estimation of Fetal Body Composition in Children of Diabetic Mothers." *Investig Radiol* 1991;26(8):722-6.
6. Bernstein IM, DeSouza MM, Copeland KC. "IGF-I in Substrate Deprived Growth Retarded Fetal Rats." *Pediat Res* 1991;30(2):154-7.
7. Catalano PM, *Vargo KM*, Bernstein IM, Amini SB. "Incidence and Risk Factors Associated with Abnormal Post Partum Glucose Tolerance in Women with Gestational Diabetes." *Am J Obstet Gynecol* 1991;165:914-9.
8. Bernstein IM, Barth RA, Miller R, Capeless EL. "Elevated Maternal Serum Alphafetoprotein: Association with Placental Sonolucencies, Fetal-Maternal Hemorrhage, Vaginal Bleeding and Pregnancy Outcome in the Absence of Fetal Anomalies." *Obstet Gynecol* 1992;79:71-4.
9. Bernstein IM, Rhodes S, Stirewalt WS. "Amniotic Fluid and Plasma Glycine/Valine Ratios in Substrate Deprived Growth Retarded Fetal Rats: A Potential Metabolic Marker." *J Develop Physiol* 1992;17:277-81.

10. Bernstein IM, Catalano PM. "Influence of Fetal Fat on the Ultrasound Estimation of Fetal Weight in Diabetic Mothers." *Obstet Gynecol* 1992;79:561-3.
11. Bernstein IM, Meyer MC, Clemons JJ. "Improvement of Fetal Umbilical and Aortic Waveforms Despite Persistent Placental Disease." *Maternal Fetal Medicine* 1993;2:129-32.
12. Bernstein IM, Meyer MC, Capeless EL "Fetal Growth Charts": A Comparison of Cross-sectional Ultrasound Examination with Birth Weight. *Maternal Fetal Medicine* 1994;3:182-6.
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183. *Chase V, Hammer E, Badger G, Howe L, Bernstein IM, Factors Contributing to the Increased Birth Weight in Pregnancies Following Preeclampsia SRI 2016 Montreal, CA*

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186. McBride CA, Badger GJ, Morris EA, Bernstein IM Reduced Uterine Blood Flow in the Non-Pregnant State Contributes to Subsequent Early Pregnancy Loss. SRI 2016 Montreal, CA.

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188. McBride CA, Badger GJ, Morris EA, Bernstein IM Women with a History of Early Pregnancy Loss Have Enhanced Cardiovascular Response to Subsequent Pregnancy SRI 2016 Montreal, CA.

189. *Cooper K, McBride C, Badger G, Bernstein IM. The Interaction of Fetal Sex and Maternal Cardiovascular Adaptation SRI 2016 Montreal, CA.*

190. Mann S., McBride C, Magness R, Bernstein IM. Pre pregnancy Adiposity is associated with the Development of Preeclampsia SRI 2016 Montreal, CA.

191. Brown L, Osol G, Bernstein IM, Brown S. Remodeling of the Maternal Aorta in Pregnancy Involves Down Regulation of TET Genes and Epigenetic Modification of Vascular Smooth Muscle SRI 2016 Montreal, CA.

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193. *Chase V, McBride C, Badger G, Morris EA, Bouchard BA, Bernstein IM Pre-pregnancy Platelet Activation as a Contributor to Birth Weight Society for Maternal Fetal Medicine 2017 Las Vegas, NV.*

194. McBride CA, Badger G, Bernstein IM. Distinct Phenotypes for Preterm and Term Preeclampsia Society for Maternal Fetal Medicine 2017 Las Vegas, NV.

195. Morris EA, McBride CA, Badger GJ and Bernstein IM. Pregnancy Induces Increased Arterial Compliance that Persists for Years Society for Maternal Fetal Medicine 2017 Las Vegas, NV.

196. Morris EA, McBride CA, Badger GJ and Bernstein IM. Prepregnancy Fitness and Risk of Hypertensive Disorders of Pregnancy Society for Maternal Fetal Medicine 2017 Las Vegas, NV.

197. Cooper K, McBride C, Badger G, Bernstein IM. Relationship of Fat Distribution to Pre Pregnancy Uterine Artery Hemodynamics and Fetal Growth Society for Reproductive Investigation 2017 Orlando, FL.

198. Cooper K, McBride C, Badger G, Bernstein IM. Pre pregnancy Hemodynamics and Changes during Pregnancy in Women who Develop Recurrent Hypertensive Disease. Society for Reproductive Investigation 2017 Orlando, FL.

199. Bernstein IM, McBride C, Badger G. Prepregnancy Physiology Predicts Subsequent Preterm Preeclampsia Society for Reproductive Investigation 2017 Orlando, FL.

200. McBride C, Waters B, Badger G, Bernstein IM. Placental Underperfusion and its Clinical Associations Society for Reproductive Investigation 2017 Orlando, FL.

201. McBride C, Morris E, Bernstein IM. Women with Prior Preterm Preeclampsia have Elevated Inflammation and Endothelial Dysfunction Compared to Nulliparous Women Society for Reproductive Investigation 2017 Orlando, FL

202. McBride C, Morris E, Bernstein IM. Amyloid Precursor Protein Products are Associated with Vessel Stiffness and Hypertension in Subsequent Pregnancies Society for Reproductive Investigation 2017 Orlando, FL.

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207. Williams F, McBride CA, Badger GJ, Bernstein IM Obesity Correlates with Renal Vascular Resistance and Creatinine Clearance in Young Nulliparous Women Society for Reproductive Investigation 2018 San Diego, CA.

208. McBride CA, Badger GJ, Bernstein IM. Prior Preterm Preeclampsia (pPE) Who Develop

Recurrent Hypertension Have Distinct Non-pregnant Physiologic Profiles Society for Reproductive Investigation 2018 San Diego, CA.

209. *Cooper K, Barrett T, McBride CA, Badger GJ, Steiner J, Bernstein IM.* Cardiac Dysfunction and Peripheral Arterial Stiffness in Normotensive Nulligravid Women Society for Reproductive Investigation 2018 San Diego, CA.

210. *Chiware T, McBride CA, McGee E, Bernstein IM.* Prepregnancy Phenotype and Physiological Characteristics in PCOS. Society for Reproductive Investigation 2018 San Diego, CA.

211. *Cooper K, Olson N, McBride CA, Badger GJ, Bonney E, Bernstein IM.* Relationships between Immune Cell Subtypes, Adiposity and Vascular Function in Reproductive-aged Women Society for Reproductive Investigation 2018 San Diego, CA.

212. *Miller AK, Cooper KM, Morris EA, McBride CA, Badger GJ, Bernstein IM.* Popliteal Artery Stiffness in Nulliparous Women is Associated with Subsequent Development of Hypertension during Pregnancy Society for Reproductive Investigation 2018 San Diego, CA.

213. *Cooper K, McBride CA, Badger GJ, Bernstein IM.* Evidence of subclinical peripheral arterial stiffness in young nulligravid women with a family history of cardiovascular disease Society for Reproductive Investigation 2018 San Diego, CA.

214. *Rieck R, Rood C, Buhimschi I, Buhimschi C, McBride CA, Bernstein IM* Urinary Congo Red Staining Prior to the Onset of Preeclampsia Society for Reproductive Investigation 2018 San Diego, CA.

215. *McBride CA, Bernstein IM.* Uric Acid Levels and Their Association with Preeclampsia, Birth Weight, and Placental Underperfusion Society for Reproductive Investigation 2018 San Diego, CA.

216. *Bravo MC, Bernstein IM, McBride C, McGee E, McLean K, Orfeo T, Brummel-Ziedins K,* Hemostatic Activation and Glycocalyx Shedding During Pregnancy. American Society of Hematology 2018 San Diego, CA

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220. *Parson J, McLean K, Bernstein IM.* Variation in Late Pregnancy Total Blood Volume; Implications for Blood Loss Quantification in Postpartum Hemorrhage Society for Maternal Fetal Medicine 2019 Las Vegas, NV.

221. *Phillips JK, Roberts L, Skelly J, Bernstein IM, Higgins ST.* Financial Incentives as an Adjunct

to Behavioral Weight Management to Optimize Gestational Weight Gain: a Randomized Controlled Trials Society for Maternal Fetal Medicine 2019 Las Vegas, NV.

222. *Woodruff H, McBride C, Bernstein IM* Arterial Stiffness and Distensibility are Associated with Recurrent Preeclampsia Society for Reproductive Investigation 2019 Paris, France.

223. *Bravo MC, McLean K, Orfeo T, Brummel-Ziedins K, Bernstein IM.* Longitudinal changes in thrombin generation as a potential discriminator for hypertensive outcomes during pregnancy Society for Reproductive Investigation 2019 Paris, France.

224. *McLean K, Bravo MC, Orfeo T, Bernstein IM, Brummel-Ziedins K.* Early pregnancy procoagulant phenotype in women who develop preterm preeclampsia Society for Reproductive Investigation 2019 Paris, France.

225. *Chiware T, Bravo MC, DeSarno M, Orfeo T, McBride C, Brummel-Ziedins K, McGee E, Bernstein IM* Interactions in metabolic, inflammatory and coagulation markers in women with Polycystic Ovarian Syndrome compared to normal women Society for Reproductive Investigation 2019 Paris, France.

226. *Chiware T, Brown L, McBride C, DeSarno M, McGee E, Bernstein IM.* Biochemical Markers of Bone Turnover in Women Who Develop Preeclampsia Society for Reproductive Investigation 2019 Paris, France.

227. *McBride CA, Cooper KM, Barrett T, Steiner J, Bernstein IM* Soluble Amyloid Precursor Protein Serum Levels are Associated with Subclinical Cardiovascular Dysfunction Society for Reproductive Investigation 2019 Paris, France.

228. *Chiware T, Bravo MC, DeSarno M, Orfeo T, McBride C, McGee E, Bernstein IM.* Interactions in hormonal and coagulation markers in women with Polycystic Ovarian Syndrome compared to normal women submitted American Society for Reproductive Medicine 2019, Philadelphia, PA.

229. *Chiware T, Bravo MC, DeSarno M, Orfeo T, McGee E, Bernstein IM.* Anthropometric, hormonal and hematological characteristics of women undergoing in vitro fertilization American Society for Reproductive Medicine 2019, Philadelphia, PA.

230. *Morris EA, Psinos RBC, McBride CA, Bernstein IM.* Association of pre-pregnancy subclinical insulin resistance with cardiac dysfunction in healthy nulliparous women 2020 Society for Reproductive Investigation, Vancouver, CA.

231. *McBride CA, Bravo MC, McLean KC, Orfeo T, Brummel-Zeidens KE, Bernstein IM* Women Who Develop Placental Underperfusion Show Evidence of A Procoagulant Phenotype Prior to Pregnancy 2020 Society for Reproductive Investigation, Vancouver, CA.

232. *McLean KC, McBride CA, Bravo MC, Orfeo T, Brummel-Zeidens K, Bernstein IM.* Fibrinolysis parameters in pregnancy compared to pre-pregnancy in longitudinally evaluated healthy women 2020 Society for Reproductive Investigation, Vancouver, CA.

233. *Weiner CP, Zhou H, Cuckle HS, Kusch M, Bernstein I, Carlson SE, Gajewski B, Valentine*

CJ, Kerling B, Dong Y. Plasma Cell Free RNA for the Identification of Women at 12-20 Weeks Destined for Early Onset Preeclampsia (EOPE) 2020 Society for Reproductive Investigation, Vancouver, CA.

234. Barrett T, Cooper K, McBride C, Badger G, Steiner J, LeWinter M, Ira Bernstein IM. Diastolic Indices in Stress Echocardiography as Potential Predictors of Preeclampsia. 2020 UVMMC Fellowship Research Day, Burlington VT.

235. Kulkarni AS, Bernstein IM, McBride CA, Nallasamy S, Sybenga A. The Association of Endoplasmic Reticulum (ER) stress with Labor and Evidence of Placental Vascular Malperfusion. Society for Maternal Fetal Medicine 2021 Las Vegas, NV.

236. Bravo MC, Bernstein IM, McLean KC, Orfeo T, Brummel-Ziedins K. Differential Shedding of Endothelial Cell Proteins During the Peripartum Period 2021 Society for Reproductive Investigation, Boston, MA.

237. Bravo MC, McBride CA, Brummel-Ziedins K, Bernstein IM. Circulating Placental Alkaline Phosphatase Correlates with Systemic Changes in Cardiovascular Function 2021 Society for Reproductive Investigation, Boston, MA

238. Morris EA, McBride CA, Boyer M, Roberts L, Skelly J, Bernstein IM. Cardiovascular Effects of Extra Virgin Olive Oil (EVOO) in Healthy Reproductive-aged Women: A Randomized Controlled Trial. 2021 Society for Reproductive Investigation, Boston, MA.

239. Barker E, Bernstein I, Orfeo T, McLean K, Bravo MC. Clot Formation Potential in the Late Pregnant and Postpartum Woman. 2021 Society for Reproductive Investigation, Boston, MA.

240. Psinos R, Morris E, McBride C, Roberts L, Skelly J, Mandalà M, Bernstein I. Anti-inflammatory effects of extra virgin olive oil (EVOO) in healthy nulliparas 2022 Society for Reproductive Investigation, Denver, CO.

241. Psinos R, Morris E, McBride C, Olson N, Bernstein I. Relationship between inflammation, endothelial damage, and vascular remodeling in late onset preeclampsia 2022 Society for Reproductive Investigation, Denver, CO.

242. Psinos R, Morris E, McBride C, Olson N, Bernstein I. Pre-gestational inflammation, Immune Dysregulation, and Subclinical Cardiovascular Dysfunction in Nulliparas 2022 Society for Reproductive Investigation, Denver, CO.

243. McLean K, Bravo M, , Bernstein I, Orfeo T. Plasminogen Activator Inhibitor-1 (PAI-1), but not Plasminogen Activator 2 (PAI-2) is Associated with Decreased Clot Lysis Potential across Pregnancy 2022 Society for Reproductive Investigation, Denver, CO.

244. McLean K, Orfeo T. Bravo M, Bernstein I. Pre-conception and Early Pregnancy Procoagulant Phenotype in Women with Prior Preeclampsia 2022 Society for Reproductive Investigation, Denver, CO.

245. Bravo M, Orfeo T. Bernstein I. McLean K, Coagulation Parameters in Women with Prior

Preterm Preeclampsia 2022 Society for Reproductive Investigation, Denver, CO.

246. Cardozo S, McLean K, Bernstein I, Orfeo T, Bravo M. Mediators of Fibrinolytic Potential in the Peripartum Period 2022 Society for Reproductive Investigation, Denver, CO.

247. McBride CA, Russon Z, Achenbach E, Bernstein IM, Dumas JA. Cardiovascular Associations with White Matter Hyperintensities in Healthy Young Women 2022 Society for Reproductive Investigation, Denver, CO.

248. Nesbit CB, Brodeur TY, Orfeo T, McGee EA, Bernstein I, Bravo MC. Thrombin Production varies across an IVF cycle and a Significant Difference is Noted with Women who Conceive Versus Those who Do Not. ASRM 2022 Anaheim, CA

249. Bravo M, McLean K, Gissel M, Bernstein I, Orfeo T. Thrombomodulin Sensitivity Decreases in Thrombin Generation Assays In the Early Postpartum Period. THSNA 2022 Chicago, IL

250. Loftness BC, Bernstein IM, McBride C, Cheney N, McGinnis EW, McGinnis RS. Pre-term Preeclampsia Risk Modelling: Examining Hemodynamic, Biochemical, and Biophysical Markers Prior to Pregnancy. Engineering in Medicine and Biology Conference 2022 Glasgow,

251. Horn CE, Bravo MC, Roberts L, McLean K, MD, Bernstein IM. The Effect of a History of Preeclampsia on Hemostatic Balance in the Non-pregnant State ISTH 2023 Montreal, CA

252. Fondakowski M, Orfeo T, Bernstein I, Gissel M, McLean K, Bravo MC. Quantification of Functional Tissue Factor Activity on Microvesicles During the Peripartum Period ISTH 2023 Montreal, CA

253. Gissel M, Bernstein I, McLean K, Bravo MC, Orfeo T. TAFI-dependent Effects on Whole Blood Clot Formation and Lysis Dynamics across the Peripartum Period ISTH 2023 Montreal, CA

254. Bravo MC, Bernstein I, Gissel M, McLean K, Orfeo T. Blood Anticoagulant Impacts Endogenous Thrombin Generation in a Peripartum Population ISTH 2023 Montreal, CA

255. Bravo MC, Orfeo T, Bernstein I, Vadhin S, Lakshmi D, and Varner J. Development of a Population of Synthetic Patients for the Study of Thrombin Dynamics Before and During Pregnancy using Machine Learning. American Chemical Society 2023 Indianapolis, IN

256. Bravo MC, Orfeo T, Bernstein I, Vadhin S, Lakshmi D, and Varner J. BSTModelKit.jl: Building Biochemical Systems Theory Models of Individualized Coagulation Dynamics During Pregnancy. JuliaCon 2023, Boston, MA. Presentation available at: <https://www.youtube.com/watch?v=IGtUqMLHBvQ>

257. Horn CE, Bravo MC, Roberts L, Orfeo T, Roberts L, McLean K, MD, Bernstein IM. Pregnancy Associated Changes in the Prothrombin Proteome are Exaggerated with Term Preeclampsia SRI 2024 Vancouver, CA

258. Bravo MC, Orfeo T, McLean K, MD, Bernstein IM. Coagulation Potential has Variable Thrombomodulin Sensitivity From the Follicular Phase Through the Postpartum Period

SRI 2024 Vancouver, CA

259. Poon, E, Loftness B, Cheney N, McBridger C, Bernstein IM. Selection Algorithms Identify Pre-Pregnancy Features Associated with Preeclampsia Onset and Birthweight Percentile Engineering in Medicine and Biology Conference 2024 Orlando, FL

Presentations: Grand Rounds

Department of Obstetrics and Gynecology/ M.C.H.V., University of Vermont
Society for Gynecology Investigation Highlights 4/91

Department of Pediatrics/M.C.H.V., University of Vermont
Normal Fetal Growth 6/91

Department of Obstetrics and Gynecology/M.C.H.V., University of Vermont
Society of Perinatal Obstetricians Highlights 3/92

Department of Obstetrics and Gynecology/Cleveland Metropolitan Hospital
Interaction between Nutrient Metabolism and Fetal Growth 5/18/92

Department of Obstetrics and Gynecology/M.C.H.V., University of Vermont
Insulin-Like Growth Factor I and Fetal Growth 11/3/92

Department of Obstetrics and Gynecology/M.C.H.V., University of Vermont
Intrauterine Growth Retardation: Quality Assurance Report 12/22/92

Department of Obstetrics and Gynecology/M.C.H.V., University of Vermont
Group B Strep Protocol 1/19/93

Department of Obstetrics and Gynecology/M.C.H.V., University of Vermont
Society of Perinatal Obstetricians Highlights 2/23/93

Department of Pediatrics/M.C.H.V., University of Vermont
Fetal Growth Retardation 4/93

Department of Obstetrics and Gynecology
MaGee Womens Hospital, University of Pittsburgh
Identification of fetal growth abnormalities 1/4/94

Department of Obstetrics and Gynecology/M.C.H.V., University of Vermont
Society of Perinatal Obstetricians Highlights 2/22/94

Department of Obstetrics and Gynecology/Fletcher Allen Health Care, University of Vermont
Society of Perinatal Obstetricians Highlights 2/16/95

Department of Obstetrics and Gynecology/FAHC, University of Vermont
Doppler Flow Assessment of Fetal Health 12/12/95

Department of Obstetrics and Gynecology/FAHC, University of Vermont

Society for Gynecologic Investigation Report 4/23/96

Department of Surgery/FAHC, University of Vermont
Ultrasound in Clinical Practice: Lessons Learned in OB/GYN 5/96

Department of Obstetrics and Gynecology/FAHC, University of Vermont
Critical Evaluation of Antepartum Testing: 1996 11/05/96

Department of Radiology/FAHC, University of Vermont
Fetal Growth Assessment 2/12/97

Department of Obstetrics and Gynecology/FAHC, University of Vermont
Society for Gynecologic Investigation Report 4/28/98

Department of Obstetrics and Gynecology/FAHC, University of Vermont
OB/GYN Program Project Overview 9/15/98

Department of Obstetrics and Gynecology/FAHC, University of Vermont
Pharmacology and the Prevention of Pre-term Birth 11/24/98

Department of Obstetrics and Gynecology/FAHC, University of Vermont
Steroidal Signaling of Uterine Artery Remodeling 05/17/99

Department of Anesthesia /FAHC, University of Vermont
Anesthetic Considerations for the Compromised Fetus 10/14/99

Department of Obstetrics and Gynecology/FAHC, University of Vermont
SMFM Highlights 02/08/00

Department of Obstetrics and Gynecology/Foothills General Hospital, Calgary, CN
Examining Fetal Growth 09/14/00

Department of Obstetrics and Gynecology/FAHC, University of Vermont
Society for Gynecologic Investigation Report 4/10/01

Department of Obstetrics and Gynecology
MaGee Womens Hospital, University of Pittsburgh
Fetal Growth Restriction: Identification and Management 1/15/02

Department of Obstetrics and Gynecology/FAHC, University of Vermont
A Novel Hypothesis Regarding Preeclampsia 10/14/03

Department of Obstetrics and Gynecology/FAHC, University of Vermont
Highlights of the SMFM Meeting 2/15/05

Department of Obstetrics and Gynecology/ University of Hawaii-Manoa
A Novel Hypothesis Regarding Preeclampsia 3/30/05

Department of Neurosciences/FAHC, University of Vermont

Eclampsia/Preeclampsia: A Disorder of Sympathetic Tone? 4/7/05

Department of Obstetrics and Gynecology
University of Western Ontario, London Ontario
Preeclampsia/Eclampsia: Is a Toxic Factor Necessary? 11/29/05

Department of Obstetrics and Gynecology
Canton-Potsdam Hospital
Preeclampsia: Is it a disease limited to pregnancy? 8/10/06

Department of Obstetrics and Gynecology/FAHC, University of Vermont
Highlights of the SMFM Meeting 2/20/07

Department of Obstetrics and Gynecology
University of Toronto
The Root of Preeclampsia: Maternal Cardiovascular Adaptations in Pregnancy 5/3/07

Department of Obstetrics and Gynecology/FAHC, University of Vermont
Maternal Smoking Cessation in Pregnancy 10/9/07

Department of Obstetrics and Gynecology/FAHC, University of Vermont
Society for Gynecologic Investigation Report 5/26/09

Department of Pediatrics/FAHC, University of Vermont
Emerging Concepts in Preeclampsia 4/21/10

Department of Obstetrics and Gynecology
Dartmouth Medical College
Prepregnancy Phenotype and Preeclampsia 9/21/11

Department of Obstetrics, Gynecology and Reproductive Sciences
University of California, San Francisco
Prepregnancy Phenotype and Risk for Preeclampsia 11/2/11

Department of Obstetrics and Gynecology/Fletcher Allen Health Care, University of Vermont
Hypertensive Disorders of Pregnancy: ACOG Definitions Revisited 11/13/12

Department of Obstetrics and Gynecology/Fletcher Allen Health Care, University of Vermont
Research Planning for Obstetrics and Gynecology 11/27/12

Department of Obstetrics and Gynecology/Capital Health, Pennington, NJ
What's New in Preeclampsia 10/6/16

Department of Obstetrics and Gynecology Maine Medical Center, Portland, ME
What's New in Preeclampsia 6/7/17

Department of Obstetrics, Gynecology and Reproductive Sciences
University of Vermont Medical Center Burlington, VT
Pregnancy and Preeclampsia: Insights into Origins of Disease 9/26/17

Research Seminars

Guest, NICHD

Low Birth Weight Conference, Aspen, CO 8/89

Cleveland Metropolitan Hospital

Research Seminar Series.

IGF-1 and Fetal Growth 1990

University of Vermont/Clinical Research Center

Fetal Metabolic Adaptation to Growth Retardation 1990

University of Vermont Ob/Gyn Research Seminar

Doppler Assessment of Fetal Health 1991

University of Vermont Vascular Symposium

Doppler Velocimetry in the Assessment of Fetal Health 6/13/91

Ross Travel Club Symposium/ Research Seminar

Evaluation of Fetal Body Composition 8/2/91

North American OB/GYN Society/ Research Seminar

Fetal Growth: Ultrasound Assessment 9/24/91

University of Vermont/ Ob/Gyn Research Seminar

Prenatal Imprinting of Energy Metabolism in the Fetus 1992

University of Vermont/ Sims Obesity Nutrition Research Center

Fetal Body Composition 11/20/92

University of Vermont/ Ob/Gyn Research Seminar

Outline of Current Research Activities 12/16/93

University of Pittsburgh/Magee Women's Hospital/ Ob/Gyn Resident Conference

Fetal growth patterns 1/4/94

University of Vermont/ Sims Obesity Nutrition Research Center

Prenatal Imprinting of Energy Metabolism: Preliminary Data 3/4/94

Guest, NICHD

Perinatal Research Society, Napa, CA. 9/30/96

Moderator: Scientific session

New England Perinatal Research Society, Chatham, MA 10/98

Patient Oriented Research Program, FAHC "Hormonal Correlation of Plasma Volume Expansion through the Menstrual Cycle into Early Pregnancy" 12/13/98

Ob/Gyn Research Division Seminar/ University of Vermont

Plasma Volume, the Menstrual Cycle and Pregnancy 12/16/1998

Molecular Mechanisms in Obstetrics and Gynecology/ University of Vermont
Cardiovascular Signaling in Obstetrics 3/8/99

Program Project Site Visit (PO-1)
Steroidal Modulation of Uterine Vascular Function
Uterine Artery Steroid Responsiveness 4/99

Scientific Session Program Director
District I ACOG Meeting, Burlington, VT 9/99
Perinatal Physiology Conference/ University of Vermont
Theorized Mechanism of Preeclampsia 11/4/99, 12/2/99

UVM General Clinical Research Center Competitive Renewal NIH Site Visit
Uterine Vascular Response to Steroid Signals 3/28/00

Ob/Gyn Research Division Seminar/ University of Vermont
Examination of Evidence for a Novel Hypothesis for Preeclampsia 11/16/2000

North American Society for the Study of Hypertension in Pregnancy
Renin-Angiotensin sub-group meeting: T235M Angiotensinogen Genotype, Low Plasma Volume
and Plasma Renin Activity. Winston-Salem, N.C. 7/20/2001

North American Society for the Study of Hypertension in Pregnancy
Keynote Address: Intolerance to Volume Expansion: A Theorized Mechanism for the Development
of Preeclampsia, Winston-Salem, N.C. 7/20/2001

MaGee Women's Institute Research Seminar
Pre-pregnancy Preeclamptic Phenotype 1/15/2002

Ob/Gyn Research Division Seminar/ University of Vermont
Cardiovascular Effects of Physiologic Estrogen 6/23/2002

Moderator: Scientific session
New England Perinatal Research Society, Chatham, MA 10/3/02

Yale/ New Haven Hospital Obstetrical Research Seminar
Pre-pregnancy Predisposition to Preeclampsia 10/9/02

UVM College of Medicine MD-Ph.D. Seminar Series
Research in Integrative Physiology: Preeclampsia 3/11/03

National GCRC Meeting, American Federation for Medical Research Trainee Session
Creating and Managing a Research Team 3/16/03

Tox Talk 2003
Pre-pregnancy Phenotype and Preeclampsia, Mill Valley, CA. 6/28/03

UVM College of Medicine Thrombosis and Hemostasis Lecture Series
Thrombosis and Inflammation: Elements of the Preeclamptic Phenotype 9/17/04

UVM College of Medicine MD-Ph.D. Seminar Series
Vascular Pathophysiology of Hypertensive Pregnancy 10/05/04

UVM College of Medicine Nephrology Division
Preeclampsia: Renal Contributions 11/19/04

UVM GCRC Staff Meeting: Protocol 786
Findings and Implications for the Control of Uterine Blood Flow 1/25/05

Tox Talk 2005
Intolerance to Volume Expansion: Epidemiologic Support, Mill Valley, CA. 6/26/05

Cardiology Research Conference
Elements of the Preeclamptic Phenotype. 11/16/05

Moderator: Scientific session
New England Perinatal Research Society, Newport, RI 9/27/06

Moderator: Scientific session
Society for Gynecologic Investigation, Reno, NV 03/18/07

Tox Talk 2007
Preeclampsia or No Preeclampsia: You are the Decider. Mill Valley, CA. 6/23/07

Aspen Perinatal Biology Symposium
Clinical indices of Maternal Hemodynamics and Pregnancy Outcome. Aspen CO 8/25/07

Perinatal Research Society
Wither Toxemia (with apologies to JR), Savannah, GA, 9/27/07

Maternal Fetal Medicine Society Special Interest Group in Hypertension
Intolerance to Volume Expansion: A Physiologic Examination of Preeclampsia, Dallas TX, 1/28/08

Tox Talk 2009
If You Have Studied Two Preeclamptics: You Have Seen Two Preeclamptics,
Mill Valley, CA 6/20/09

UVM College of Medicine Thrombosis and Hemostasis Lecture Series
Thrombosis and Inflammation: Pregnancy Related Changes and Association with Hypertensive
Complications of Pregnancy 10/14/09

Surgical Research Retreat
Research at UVM/FAHC: The View From 30,000 Feet. 10/23/09

Ob/Gyn/ Reproductive Sciences Research Retreat
Physiological Assessment in Young Women with a Family History for Hypertension, Myocardial

Infarction or Stroke 10/21/2010

Internal Medicine Research Retreat

Research at UVM/FAHC: NIH trends and Predictions 5/2011

Tox Talk 2011

Elements of a Prepregnancy Phenotype for Preeclampsia, Mill Valley, CA. 6/28/11

Writing a Competitive Research Grant

Perinatal Research Society 9/09, 9/10, 9/24/11

Tox Talk 2013

Why Does Preeclampsia Usually Not Recur? Mill Valley, CA. 6/22/13

No Name Society 2013

Recent Observations on the Origins of Preeclampsia. Abiquiu, NM 10/25/13

Predisposition to Preeclampsia

Departmental Research Seminar Kingston, Ontario 5/8/14

No Name Society 2014

Pregnancy Adaptation and Brain MRI Changes. Shelburne, VT 6/11/14

Tox Talk 2015

Subclinical Cardiovascular Distinctions of Women with Preeclampsia Mill Valley, CA 6/27/15

No Name Society 2015

Early Pregnancy Loss: Predictors and Association with Subsequent Pregnancy Outcome, Nassau, BH 11/8/15

Preliminary Examination of Prepregnancy Physiology and Subsequent Pregnancy Outcome

Vascular Biology of Pregnancy Interest Group, UVM College of Medicine 2/22/16

Ob/Gyn/ Reproductive Sciences Research Retreat

Body Composition as a Contributor to Hypertension in Pregnancy 11/17/16

Tox Talk 2017

Preterm Preeclampsia: A Pregnancy Manifestation of the Metabolic Syndrome Mill Valley, CA 6/26/17

Department of Obstetrics and Gynecology Maine Medical Center, Portland, ME

What's New in Preeclampsia 6/7/17

Department of Obstetrics and Gynecology

Visiting Professor/ WRHR Symposium Keynote

Pregnancy and Preeclampsia: Insights into Origin of Disease

University of Washington, Seattle, WA 3/14-15/2018

Society for Reproductive Investigation Annual Meeting Workshop

What can Pregnancy Reveal about Maternal Cardiovascular Risk
Deep Phenotyping and Pregnancy Adaptation 3/14/19

Tox Talk 2019
Preeclampsia and BMD: A Potential Source of Vascular Stiffness, Mill Valley, CA 6/24/19

Deep Phenotyping in Preeclampsia
Global Pregnancy Collaboration (CoLab) annual conference Oxford England 9/2/19

Connecticut OBGYN Residency Research Day, 7th Annual
Danbury CT 9/26/19

Ob/Gyn/ Reproductive Sciences Research Retreat, University of Vermont College of Medicine
Obesity, Metabolic Syndrome and Preeclampsia 11/7/2019

Zooming in on Preeclampsia: Pre-pregnancy Predisposition to Preterm Preeclampsia
1/31/2022 Webinar

Pipeline Investigator Flash Talks:
Cardiovascular Associations with White Matter Hyperintensities in Healthy Young Women
Symposium, Vermont Center for Cardiovascular and Brain Health 6/3/22

Global Pregnancy Collaboration (CoLab) annual meeting
Pre and Peri-conceptional physiology and pathophysiology: Targets for innovative therapy
Oxford England 9/18/23

Global Pregnancy Collaboration (CoLab) Webinar series
Preeclampsia: Preconceptional Physiology: Associations and Potential Causes
1/25/24

Postgraduate Courses

Department of Obstetrics and Gynecology, Univ. of Vermont, Topnotch, Stowe, VT
Doppler Velocimetry in Antenatal Surveillance 9/90

Department of Family Practice, University of Vermont, Lake Placid, N.Y.
Current Concepts in Antenatal Surveillance 1/91

Department of Family Practice, University of Vermont, Lake Placid, N.Y.
Controversies in Labor Management 1/91

Department of Obstetrics and Gynecology, Univ. of Vermont, Topnotch, Stowe, VT
Ultrasound Findings in Fetal Trisomies 9/91

Department of Obstetrics and Gynecology, University of Vermont, Burlington, Vermont
Preconceptional Counseling and Prenatal Diagnosis for the Primary Care Physician 9/94

Department of Obstetrics and Gynecology, University of Vermont, Burlington, Vermont
A Critical Evaluation of Antepartum Testing in 1996 10/1/96

Vermont Department of Health: Low Birth Weight Conference
Fletcher*Allen Health Care, Burlington, Vermont
Growth and Nutritional Aspects of Low Birth Weight 11/1/96

Vermont Department of Health: Low Birth Weight Conference
Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire
Growth and Nutritional Aspects of Low Birth Weight 11/19/96

International Symposium on Neonatal Intensive Care
Milan, Italy/ Prevention of Prematurity: A Pharmacologic Approach 11/6/98

Society for Maternal Fetal Medicine: Special Interest Group in Diabetes
"The Barker Hypothesis" Implications for Perinatal Diabetologists 1/18/99

Perinatal Update 2001, Memorial Health University Medical Center, Savannah, GA
Fetal Growth Restriction: Who Has it and Why We Care 3/8/01

Perinatal Update 2001, Memorial Health University Medical Center, Savannah, GA
How Does the Fetus Grow 3/9/01

Department of Obstetrics and Gynecology, University of Vermont, Burlington, Vermont
Evaluation and Management of Growth Restricted Fetuses 10/8/01

Department of Obstetrics and Gynecology, University of Vermont, Burlington, Vermont
What's New in Preeclampsia? 10/4/04

A Physiologic Approach to Understanding the Cause and Treatment of Preeclampsia
North China Conference on High Risk Pregnancy and Fetal Maternal Medicine
Xian China 5/10/08

Maternal Fetal Medicine Society Postgraduate Course
Fetal Growth and Developmental Programming
Diagnosis of IUGR: Population and Customized Growth Curves San Diego, 1/28/09

Maternal Fetal Medicine Society Postgraduate Course
Basic, Clinical and Translational Research Course
Preparing a Competitive Grant Submission, 2/7/11

Philadelphia Prenatal Diagnosis Conference
Hypertensive Disorders of Pregnancy: ACOG Definitions Revisited 5/17/12

New York State Society for Anesthesiologists
Postgraduate Assembly in Anesthesiology
What's New in Preeclampsia NY, NY 12/8/16

Regional Outreach:

1/28/92 Champlain Valley Physicians Hospital Transport Conference
3/31/92 Central VT Hospital Transport Conference
5/21/92 Porter Hospital Transport Conference

11/12/92	Porter Hospital Transport Conference
2/23/93	Rutland Hospital Fetal Monitoring Review
3/23/93	Alice Hyde Hospital Fetal Monitoring Review
4/13/93	Rutland Hospital Transport Conference
10/5/93	Rutland Hospital Transport conference
11/30/93	Alice Hyde Hospital Transport Conference
1/11/94	Rutland Hospital Fetal Monitoring Review
6/7/94	Rutland Hospital Transport Conference
6/14/94	Alice Hyde Hospital Fetal Monitoring Review
10/31/95	Rutland Regional Hospital Fetal Monitoring Review
12/12/95	Rutland Regional Hospital Transport Conference
12/20/95	Porter Hospital Fetal Monitoring Course
1/2/97	Northwestern Regional Hospital Transport Conference
1/23/97	Champlain Valley Physicians Hospital Transport Conference
4/15/97	North Country Hospital Transport Conference
5/27/97	Champlain Valley Physicians Hospital Fetal Monitoring Course
6/3/97	Rutland Regional Hospital Transport Conference
10/7/97	Central VT Hospital Transport Conference
11/18/97	North Country Hospital Transport Conference
12/16/97	Champlain Valley Physicians Hospital Fetal Monitoring Course
3/9/98	Champlain Valley Physicians Hospital Transport Conference
3/24/98	Central VT Hospital Transport Conference
5/4/98	Alice Hyde Hospital Fetal Monitoring Review
6/15/98	Rutland Regional Hospital Transport Conference
9/15/98	Rutland Regional Hospital Fetal Monitoring Teleconference
10/27/98	Central VT Hospital Fetal Monitoring Teleconference
12/1/98	Rutland Regional Hospital Fetal Monitoring Teleconference
12/15/98	Northwestern Regional Hospital Transport Conference
1/28/99	Rutland Regional Hospital Fetal Monitoring Teleconference
3/3/99	Champlain Valley Physicians Hospital Transport Conference
5/17/99	Champlain Valley Physicians Hospital Fetal Monitoring Conference
10/17/00	Champlain Valley Physicians Hospital Fetal Monitoring Conference
11/13/00	North Country Hospital Transport Conference
6/4/01	Rutland Regional Hospital Transport Conference
6/5/01	Porter Hospital Transport Conference
12/13/01	Copley Hospital Fetal Monitoring Teleconference
4/10/02	Porter Hospital Fetal Monitoring Teleconference
4/11/02	Copley Hospital Fetal Monitoring Teleconference
5/23/02	Champlain Valley Physicians Hospital Transport Conference
6/17/02	Rutland Regional Hospital Transport Conference
3/27/03	Canton–Potsdam Hospital Fetal Monitoring Teleconference
5/27/03	Porter Hospital Transport Conference
9/11/03	Central VT Hospital Fetal Monitoring Teleconference
6/22/07	Champlain Valley Physicians Hospital Transport Conference
6/24/08	Rutland Regional Hospital Fetal Monitoring Teleconference

Other presentations:

Nursing Inservice/University Health Center
Doppler Velocimetry in Antenatal Surveillance 1991

Colchester High School/Science and Society Course
Ethics of Human Fetal Tissue Research 1/6/92

Nursing Inservice/Medical Center Hospital of Vermont, Fetal Blood Sampling 2/27/92

Ultrasound Inservice/MCHV, Fetal Echocardiography 3/6/92

March of Dimes Birth Defects Update, Fetal Growth 10/21/93

University of Vermont/Internal Medicine Resident Conference
Diabetes and pregnancy: Importance of Periconceptional Control 12/6/93

University of Vermont/Perinatal Physiology Group 2/2/94
Fetal Growth Standards

University of Vermont/Endocrinology and Infertility Group, Prenatal Diagnosis 4/22/94

University of Vermont/Perinatal Physiology Group
Fetal Growth Restriction Series Fall 1994

Nursing Inservice/Women's Health Care Service, FAHC
Placenta Previa Percreta 11/13/95

Student Aspiring Midwives Association/ University of Vermont
An Obstetricians Perspective on Midwifery 3/31/99

FAHC Board of Trustees "Mini-Retreat"
Research Round Table Discussion 4/21/00

University of Vermont Dept. of Ob/Gyn / Endocrine/Infertility fellows lecture series
Endocrinology of Pregnancy 6/16/00

University of Vermont/FAHC
Clinical Research Coordinators Conference
The Function of the RSA Office within the GCRC 10/10/02

University of Vermont/FAHC
GCRC Research Nurses Conference
Review of Research Examining the Etiology of Preeclampsia 10/18/02

Resident Introduction to Clinical Research
Introduction to Clinical Research: Regulatory Issues 10/30/02

University of Vermont/FAHC
Clinical Research Coordinators Conference
Adverse Event Reporting to the RSA Office 4/10/03

Resident Introduction to Clinical Research

Introduction to Clinical Research: Regulatory Issues 11/03

University of Vermont/FAHC
Clinical Research Coordinators Conference
GCRC Human Subject Safety Surveillance 9/14/05

Fletcher Allen Health Care
Women's Health Day Seminar
Clinical Research on the Women's Health Care Service at Fletcher Allen Health Care 5/13/06

UVM College of Medicine Generations Course
Epoch 1: Fluids During Pregnancy: Focus on Preeclampsia and Eclampsia
11/05, 11/06, 11/07, 11/08, 10/09, 11/10, 11/11, 10/12, 11/13, 11/14

Fletcher Allen Health Care/University of Vermont
Health Internship Community Rounds
Eclampsia/ Preeclampsia Research Activity 5/24/06

University of Vermont/FAHC
GCRC Research Nurses Conference
The Contribution of Prepregnancy Physiology to Diseases of Pregnancy 4/15/08

Department of Internal Medicine
Resident Didactics
Preeclampsia 4/16/08, 11/12/08

Fletcher Allen Health Care/University of Vermont
Health Internship Community Rounds
Research at the Academic Medical Center 2009-2012 4 times/year

Department of Obstetrics, Gynecology and Reproductive Sciences
Fellow Didactic Series
Evidence Based Approach to the Prevention and Treatment of Hypertension in Preeclampsia
11/17/09

Department of Internal Medicine
Fellow Didactics: Nephrology, Preeclampsia Pathophysiology 3/10

Department of Obstetrics, Gynecology and Reproductive Sciences
Resident Didactic Series: Case Based Approach to Hypertension in Preeclampsia 3/3/11

Department of Obstetrics, Gynecology and Reproductive Sciences
Resident Didactic Series: IUGR 7/14/11

University of Vermont
Community Medical School
Clinical Trials at FAHC/UVM 9/2011

Department of Obstetrics, Gynecology and Reproductive Sciences

Fellow Didactics: Uterine Hemodynamic Studies in Pregnancy: Clinical Significance 5/2013

University of Vermont/Endocrinology and Metabolism Division
Prepregnancy Preeclamptic Phenotype 1/22/14

Department of Obstetrics, Gynecology and Reproductive Sciences
Fellow Didactic Series
Research Grant Writing specific Aims and Preliminary Data 07/31/14

Department of Obstetrics, Gynecology and Reproductive Sciences
University of Vermont Medical Center/Fellow Didactic Series
Prenatal Imprinting and Fetal Origins of Adult Disease 12/10/14

Invited Lectureship/ Roland Cron Memorial Lecture
Preeclampsia: Not Just a Disease of Pregnancy
Medical College of Wisconsin Department of Obstetrics and Gynecology. 6/24/15

Hypertension in Pregnancy
Vermont AWHONN Conference
Burlington, VT 10/8/15

Short and Long Term Implications of Hypertension in Women
CVRI of Vermont Community Rounds
Burlington, VT 2/1/16

Short and Long Term Implications of Hypertension in Pregnancy
UVMMC Academic Medical Center Foundation
Burlington, VT 3/2/16

What Causes Preeclampsia?
Preeclampsia Foundation Webinar
3/15/16

AJP Heart and Circulation podcast: Vascular Stiffness and Preeclampsia
<https://www.dropbox.com/s/ozp8fn79c7yvxu/Van%20Der%20Graff%20podcast%20with%20cuts%208-1-16.mp3?dl=0>
6/30/16

Pregnancy and Preeclampsia: Insights into Women's Health
UVM University Scholar Series
2/8/17

Developmental Origins of Adult Disease
Ob/Gyn 200/3060
Graduate Course, University of Vermont 9/2017, 9/2018, 8/2019, 9/2020, 9/2021, 9/2022 9/2023
Regional Obstetric Services
Population Health and Quality Committee, University of Vermont Health Network 12/10/18

Preeclampsia: When to Deliver

Review of HYPITAT

University of Vermont Medical Center/Fellow Didactic Series 12/19/18

UVMMC Birthing Nursing Staff 2/5/19

Alice Hyde Medical Center 5/9/19

Department of Obstetrics, Gynecology and Reproductive Sciences

University of Vermont Medical Center/Resident Didactic Series

Preeclampsia Review 6/7/22

Department of Obstetrics, Gynecology and Reproductive Sciences

University of Vermont Medical Center/Fellow Didactic Series

Term vs Preterm Preeclampsia... Does Pathophysiology Differ? 10/12/22