

## CURRICULUM VITAE

**Name:** John Carter Smulian, M.D., M.P.H.

**Date:** April 6, 2022

**Address: Work**

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**Present Title:**

B.L. Stalnaker Professor  
Chair, Department of Obstetrics and Gynecology  
University of Florida College of Medicine  
Gainesville, Florida

**Undergraduate Education:**

The Johns Hopkins University  
School of Arts & Sciences  
Baltimore, Maryland  
1977 – 1981  
B.A. - Bachelor of Arts (Natural Science)

**Graduate Education:**

Tulane University  
School of Public Health & Tropical Medicine  
New Orleans, Louisiana  
1981 – 1985  
M.P.H. – Master of Public Health

Tulane University  
School of Medicine  
New Orleans, Louisiana  
1981 – 1985  
M.D. – Doctor of Medicine

**Postgraduate Education:**

**Internship/Residency** – Department of Obstetrics & Gynecology  
Emory University Affiliated Hospitals  
Atlanta, Georgia  
1985 – 1989  
Director – Luella Klein, M.D.

**Fellowship** – Division of Maternal-Fetal Medicine

Department of Obstetrics & Gynecology  
 University of Connecticut Health Center  
 Farmington, Connecticut  
 1992 – 1994  
 Director – Winston Campbell, M.D.

### **Academic Appointments:**

Professor  
 Department of Obstetrics & Gynecology  
 University of Florida College of Medicine  
 Gainesville, Florida  
 2019-Present

Professor  
 Department of Obstetrics & Gynecology  
 University of South Florida College of Medicine  
 Tampa, Florida  
 2010-2019

Clinical Professor, non-tenure track  
 Department of Obstetrics & Gynecology  
 Philadelphia College of Osteopathic Medicine (PCOM)  
 Philadelphia, Pennsylvania  
 2016-2019

Clinical Professor, non-tenure track  
 Department of Obstetrics & Gynecology  
 Penn State University, College of Medicine  
 Hershey, Pennsylvania  
 2008-2012

Professor  
 Department of Obstetrics, Gynecology & Reproductive Sciences  
 Division of Maternal-Fetal Medicine  
 University of Medicine & Dentistry of New Jersey  
 Robert Wood Johnson Medical School  
 New Brunswick, New Jersey  
 2005 – 2008

Adjunct Associate Professor  
 Department of Epidemiology  
 Rutgers University School of Public Health  
 (Formerly: University of Medicine & Dentistry of New Jersey)  
 New Brunswick, New Jersey  
 2004 – present

Associate Professor of Obstetrics & Gynecology  
 Department of Obstetrics, Gynecology & Reproductive Sciences  
 Division of Maternal-Fetal Medicine  
 University of Medicine & Dentistry of New Jersey  
 Robert Wood Johnson Medical School  
 New Brunswick, New Jersey  
 2000 – 2005

Assistant Professor of Obstetrics & Gynecology  
 Department of Obstetrics, Gynecology & Reproductive Sciences  
 Division of Maternal-Fetal Medicine  
 University of Medicine & Dentistry of New Jersey  
 Robert Wood Johnson Medical School  
 New Brunswick, New Jersey  
 1994 – 2000

Instructor  
 Department of Obstetrics & Gynecology  
 University of Connecticut Health Center  
 Farmington, Connecticut  
 1992 – 1994  
 Clinical Instructor  
 Department of Obstetrics, Gynecology & Reproductive Sciences  
 Medical College of Georgia  
 Augusta, Georgia  
 1991 – 1992

Lecturer  
 Columbus College – School of Nursing  
 Columbus, Georgia  
 1991 - 1992

Clinical Assistant Professor  
 Department of Obstetrics & Gynecology  
 Emory University School of Medicine  
 Atlanta, Georgia  
 1990 – 1992

Clinical Assistant Professor  
 Department of Obstetrics & Gynecology  
 Mercer University School of Medicine  
 Macon, Georgia  
 1990 – 1992

### **Areas of Responsibility:**

Chair, Department of Obstetrics and Gynecology  
 University of Florida College of Medicine  
 Lehigh Valley Health Network  
 Gainesville, Florida  
 2019-Present

Vice Chair, Department of Obstetrics and Gynecology  
 Chief, Division of Maternal Fetal Medicine  
 Director of Departmental Research  
 Lehigh Valley Health Network  
 Allentown, Pennsylvania  
 2008-2018

Director, Division of Maternal-Fetal Medicine  
 Department of Obstetrics, Gynecology & Reproductive Sciences  
 UMDNJ-RWJMS/Robert Wood Johnson University Hospital  
 New Brunswick, New Jersey  
 2004 – 2008

Director of Clinical Research  
 Department of Obstetrics, Gynecology & Reproductive Sciences  
 UMDNJ-RWJMS  
 New Brunswick, New Jersey  
 2002 – 2008

Project Director  
 New Jersey Fetal Abnormalities Registry (NJFAR)  
 UMDNJ-RWJMS  
 New Brunswick, New Jersey  
 1999 – 2008

Acting Director, Division of Maternal-Fetal Medicine  
 Department of Obstetrics, Gynecology & Reproductive Sciences  
 UMDNJ-RWJMS/Robert Wood Johnson University Hospital  
 New Brunswick, New Jersey  
 2003 – 2004

Director of Perinatal Research  
 Department of Obstetrics, Gynecology & Reproductive Sciences  
 Division of Maternal-Fetal Medicine  
 UMDNJ-RWJMS  
 New Brunswick, New Jersey  
 1995 – 2002

Co-Director

Center for Perinatal Health Initiatives (CPHI)  
 UMDNJ-RWJMS  
 New Brunswick, New Jersey  
 1996 - 1999

Director of Genetic Perinatology  
 Department of Obstetrics, Gynecology & Reproductive Sciences  
 Division of Maternal-Fetal Medicine  
 UMDNJ-RWJMS  
 New Brunswick, New Jersey  
 1994 – 1996

Associate Chief / Clinical Director  
 Department of Obstetrics & Gynecology  
 The Medical Center  
 Columbus, Georgia  
 1989 - 1992

**Licensure:**

Florida Medical License – ME 138192  
 Pennsylvania Medical License – MD433629 (inactive)  
 New Jersey Medical License – MA60580  
 Georgia Medical License – 031511 (inactive)  
 Connecticut Medical License – 032243 (inactive)  
 Louisiana Medical License – 018447 (inactive)

**Board Certification:**

**Board Certified** – Obstetrics & Gynecology  
 Diplomate – American Board of Obstetrics & Gynecology  
 December 13, 1991 (No. 896595)  
 Recertification - current

**Board Certified** – Maternal-Fetal Medicine  
 Diplomate – American Board of Obstetrics & Gynecology  
 April 8, 1997 (No. 896595M)  
 Recertification - current

**Additional Certifications:**

Neonatal Resuscitation Certification  
 2008 – Present

Basic Life Support  
 1996 – Present

**Professional Organizations:**

American Board of Obstetrics and Gynecology, **Examiner**

**Subspecialty Division – Maternal-Fetal Medicine**

American College of Obstetrics & Gynecology, Fellow  
 Society for Gynecologic Investigation, Member  
 American Institute of Ultrasound in Medicine, Senior Member  
 Society for Maternal-Fetal Medicine, Regular Member  
 New Jersey Society of Maternal-Fetal Medicine, Member  
 National Perinatal Association, Member  
 Society for Pediatric & Perinatal Epidemiologic Research, Member  
 American Telemedicine Association, Member

**Honors and Awards:**

2019 Golden Apple Teaching Award  
 Department of Obstetrics and Gynecology  
 University of Florida College of Medicine

2019 Top Reviewer Award  
 American Journal of Obstetrics and Gynecology

2018 Medical Student Teacher of the Year  
 USF-Morsani College of Medicine  
 SELECT Program-LVHN Campus

2017 March of Dimes  
 Physician of the Year  
 Northeast PA Division

2012 Semmelweis Award  
 Legacy Award for Education  
 Department of Obstetrics and Gynecology  
 Lehigh Valley Health Network

2011 Outstanding Reviewer (top 5%)  
 American Journal of Obstetrics and Gynecology

2011 Outstanding Reviewer (top 10%)  
 Obstetrics and Gynecology

Inclusion in the America's Best Doctors® database  
 2005-present

Marquis' Who's Who in America  
 2010-present

Marquis Who's Who in Science and Engineering  
 2010-2012

Lehigh Valley Health Network  
 Lehigh Valley Physician's Group (LVPG)  
 Program Recognition Award  
 Division of Maternal Fetal Medicine  
 October 2010

Named to "Top Doctors - Inaugural Class"  
 New Jersey Monthly Magazine  
 November 2006

National Excellence in Teaching Award  
 Association of Professors of Gynecology & Obstetrics (APGO)  
 1997

National Faculty Award for Excellence in Resident Education  
 Council on Resident Education in OB/GYN (CREOG)  
 1997

Teaching Award – Family Practice Residency Program  
 The Medical Center – Columbus, Georgia  
 1992

Honorable Mention – Resident Research Day Presentations  
 Department of Obstetrics & Gynecology  
 Emory University School of Medicine  
 1989

Berlex Foundation Fellow  
 Obstetrics & Gynecology Education Workshop  
 1988

Dean's List  
 Johns Hopkins University 1980 - 1981

### **Editorial Positions:**

Editorial Board – *Journal of Clinical Ultrasound*  
 Editorial Board – *Journal of Maternal, Fetal and Neonatal Medicine*  
 Guest Editor – *Seminars in Perinatology* "Recurrent Complications of Pregnancy" June 2007  
 Peer Reviewer – *Journal of the American Medical Association*  
 Peer Reviewer – *American Journal of Obstetrics & Gynecology*  
 Peer Reviewer – *Obstetrics & Gynecology*  
 Peer Reviewer – *British Journal of Obstetrics and Gynecology*  
 Peer Reviewer – *Journal of Maternal, Fetal and Neonatal Medicine*  
 Peer Reviewer – *American Journal of Perinatology*  
 Peer Reviewer – *Journal of Obstetric & Gynecologic Investigation*

Peer Reviewer – *European Journal of Obstetric and Gynecologic Reproductive Biology*

Peer Reviewer – *The Journal of Family Practice*

Peer Reviewer – *Placenta*

Peer Reviewer – *Pediatrics*

Peer Reviewer – *Southern Medical Journal*

Peer Reviewer – *European Journal of Clinical Nutrition*

Peer Reviewer – *American Journal of Reproductive Immunology*

### **Chapter Reviewer**

Chapter: “Prenatal screening and diagnosis of neural tube defects.” Book: Neural Tube Defects: From Origin to Treatment Editors: Drs. G. Gardener and C. H. Rodeck, Oxford University Press, August 2004

### **Service on National Grant Review Panels, Study Sections, Committees:**

Grant Reviewer – The Cunningham Trust Grant Award, Edinburgh, Scotland – 1998

Program Reviewer – National Institute of Child Health and Human Development - Intramural Program, Perinatology Branch – 1999

Grant Reviewer – PHS, Collateral Reviewer – 1999

National Institute of Child Health and Human Development Special Emphasis Panel – ZHD1 DRG-A (C3) – August 2001

Special Study Section Invited Reviewer – National Children’s Study Proposals, Washington, D.C. – 2007

### **Service on University of Florida- College of Medicine Committees:**

Executive Committee, 2019-present

Surgical Governance Committee, 2019-present

Regional Physician Network Executive Committee, 2019-present

Audit and Compliance Committee 2019-present

University of Florida COVID-19 Research Taskforce: Maternal and Child Health

Sub-Committee Co-Chair 2020-present

Executive Fiscal Advisory Committee 2020-Present

UF College of Medicine Executive Committee 2020-Present

UF College of Medicine Faculty Practice Group Access Committee 2022-Present

Department of Ophthalmology Review Committee (Chair) – 2021

Search Committee (Chair) for Chair of the Department of Pediatrics – 2021-22

Search Committee (Member) - Chief of Division of Neonatology– 2022

### **Service on University of South Florida-Morsani College of Medicine Committees:**

Appointment, Promotion and Tenure Committee - Lehigh Valley Health Network  
Institutional Representative (2010-2017)



USF-Morsani College of Medicine-Lehigh Valley Health Network Joint Affiliation Committee (Member) (2017 – 2018)

USF-Morsani College of Medicine - LVHN LCME Review Committee (2016-2017)

USF-Morsani College of Medicine - LVHN Appointments and Promotions Committee (Chair) - 2010 - 2018

### **Service on Lehigh Valley Hospital Committees:**

Executive Medical Leadership Committee  
Lehigh Valley Health Network-Cedar Crest Campus  
2017-2018

Department of Obstetrics and Gynecology LVH-Muhlenberg Hospital OB/GYN service development committee (Co-Chair)  
2016-2018

Department of Obstetrics and Gynecology Director of Quality  
2015-2016

Maternity Care Pathway Development Committee (Chair)  
2014-2016

Maternity Care Pathway Steering Committee  
2015-present

Obstetric Bundle Development Working Group (clinical lead)  
2015-2017

LVHN Women and Children's Service Line Committee (member)  
2012 - 2018

LVHN Research Leadership Advisory Committee and Finance Subcommittee  
2011-2018

LVHN Department of Education Advisory Committee  
2014 - 2018

Department of OB/GYN Executive Committee  
2008 – 2018

Department of OB/GYN Research Committee

2008 – 2014 (Chair)  
2014-2018 (Member)

Obstetrics QA Committee - Ad hoc member  
OB/GYN Education Committee  
2008 – 2016

**Service on UMDNJ-Robert Wood Johnson Medical School Committees:**

Cancer Institute of New Jersey – Review Committee  
UMDNJ-RWJMS  
2007 – 2008

Awards Nomination Committee  
UMDNJ-RWJMS  
2005 – 2008

UMG Board of Governors  
UMDNJ-RWJMS  
2004 – 2008

Institutional Review Board  
UMDNJ-RWJMS  
1997 – 2003 (Active)  
2003 – 2008 (Alternate)

UMG Steering Committee  
Department of Obstetrics, Gynecology & Reproductive Sciences  
UMDNJ-RWJMS  
2003 - 2008

Clinical Research Committee  
Department of Obstetrics, Gynecology & Reproductive Sciences  
UMDNJ-RWJMS  
1999 – 2008 (Member)  
2003 – 2008 (Chair)

Planning Committee for RWJMS Research Day  
UMDNJ-RWJMS  
2002 – 2008

Education Committee  
Department of Obstetrics, Gynecology & Reproductive Sciences  
1999 – 2008

Census Panel for Academic Activities

Department of Obstetrics, Gynecology & Reproductive Sciences  
2000 – 2008

Clinical Care Committee,  
Risk Management Working Group Subcommittee (Working Chair)  
UMDNJ-RWJMS/UMG  
2004 - 2005

Academic Standing Committee  
UMDNJ-RWJMS  
2003 – 2007

Physiology/Biophysics Review Committee  
Department of Physiology & Biophysics  
UMDNJ-RWJMS  
2004 - 2005

Primary Care Consortium Fellowship  
Health Services Research Training Program  
Executive Committee and Advisory Committee Member  
1996 – 2002

**Service on Graduate School Committees:**

Dissertation Committee (Ph.D. Candidate –Neetu Jain)  
Rutgers University  
School of Public Health  
2014-2018

Dissertation Committee (Ph.D. Candidate – Tong Li)  
UMDNJ  
School of Public Health  
2006-2007

Dissertation Committee (Ph.D. Candidate – Lisa Belzer)  
Cook College- Department of Nutrition Sciences  
2003-2007

Dissertation Committee (M.D.-Ph.D. Candidate – Akiva Marcus)  
UMDNJ-RWJ Medical School  
2007

Site Supervisor (MPH Candidate – Awathif “Dhanya” Mackeen)  
UMDNJ-RWJ Medical School  
School of Public Health  
2002-2003

Dissertation Committee (Ph.D. Candidate – Qiaoyi Zhang)  
 UMDNJ-RWJ Medical School  
 School of Public Health  
 1998 – 2002

Site Supervisor (MPH Candidate – Eden Rauch)  
 UMDNJ-RWJ Medical School  
 School of Public Health  
 2001-2002

**Service on RWJMS Affiliate Hospital Committees:**

Perinatal Services Committee  
 Robert Wood Johnson University Hospital  
 2003 – 2008

Obstetric-Critical Care Research Group  
 Department of OB/GYN & Reproductive Sciences and Department of Medicine  
 Robert Wood Johnson University Hospital/Saint Peter's University Hospital  
 2000 - 2008

Women's & Children's Hospital Management Team Committee  
 Robert Wood Johnson University Hospital  
 2004 - 2006

Marketing Committee  
 Bristol Myers-Squibb Children's Hospital  
 2003 - 2006

Ethics Committee  
 Saint Peter's University Hospital  
 1994 – 1996

Physician's Awareness & Data Feedback Committee  
 Saint Peter's University Hospital  
 1995 – 1996

Institutional Review Board  
 Committee for the Protection of Human Subjects in Research  
 Saint Peter's University Hospital  
 1995 - 2003

**Service to the Community:**

March of Dimes  
 Pennsylvania Program Services Committee  
 2009-2019

March of Dimes, Eastern Pennsylvania Chapter  
Board of Directors  
2008-2018

March of Dimes, New Jersey  
Prematurity Summit Planning Committee  
2004 – 2018

Central New Jersey Maternal & Child Health Consortium  
Research Committee Member  
1996 – 2018

New Jersey Maternal-Fetal Medicine Society  
Officer: Vice President (2006-present)  
Member: 1994 – 2018

March of Dimes, Central NJ  
Program Services Committee, State at-large member  
2005 – 2008

March of Dimes, Central New Jersey Chapter  
Program Services Committee Member  
2002 – 2005

New Jersey Department of Health, Environmental Health Services  
Communication Advisory Group  
“Case control study of neural tube defects and drinking water contaminants.”  
1995 – 1996

### **Teaching/Clinical Responsibilities:**

#### **Course Director**

Ultrasound in Obstetrics and Gynecology: Hot Topics for Good Practice  
Annual CME Conference, Lehigh Valley Health Network  
2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018

#### **Course Co-Director**

Hands-On Obstetric Ultrasound, Lehigh Valley Health Network  
CME Conference  
2012, 2014, 2016, 2018

#### **Course Director**

Hands-On Fetal Echocardiography, Lehigh Valley Health Network  
CME Conference  
2010, 2011, 2013, 2015, 2017

**Course Director**

Issues in Obstetrics and Gynecology  
CME Conference, Lehigh Valley Health Network  
2013, 2014

**Course Director**

Quality Improvement in Obstetrics, Lehigh Valley Health Network  
CME Conference (Sponsored by a March of Dimes Grant)  
2010

**UNIVERSITY OF FLORIDA COLLEGE OF MEDICINE**  
**2019-Present**

Medical Students, Residents, Fellows in Maternal Fetal Medicine  
Research Advisor (faculty, residents, fellows, students)  
Clinical Preceptorships  
Didactic Lectures (Internal and external-List available on request)  
Conferences (Internal and external-List available on request)

**LEHIGH VALLEY HEALTH NETWORK- EDUCATION**  
**2008 – 2018**

Medical Students, Residents, Sonography students  
Research Advisor (faculty, residents, students)  
Clinical Preceptorships  
Didactic Lectures (Internal and external-List available on request)  
Conferences (Internal and external-List available on request)

**UMDNJ / ROBERT WOOD JOHNSON MEDICAL SCHOOL**  
**1994 – 2008**

Primary Thesis Advisor – All Fellows in Maternal Fetal Medicine

Thesis Advisor – Fellows in Primary Care Health Research  
Thesis Advisor – Fellows in Neonatology

Medical Students, Residents and Fellows  
Research Advisor  
Clinical Preceptorships  
Didactic Lectures  
Conferences

Fellowship Director, Maternal-Fetal Medicine  
2004 – 2008

### Other Teaching/Clinical Responsibilities:

UMDNJ - School of Public Health, New Brunswick, NJ  
Spring Semester 2003  
Course Co-Director – Maternal-Child Health Course

UMDNJ - School of Public Health, New Brunswick, NJ  
Fall Semester 2010  
Lecturer: Research in Recurrent Pregnancy Complications  
Course: Perinatal Epidemiology  
Course Director: Cande Ananth, PhD, MPH

### Grant Support:

SBIR MultiCenter Trial-Principle Investigator (P.I.)  
An Electrical Inhibition Uterine Pacemaker to Treat Preterm Labor  
Sponsor: SBIR – NIH, e-Bio, Corp  
*Submitted 4/2021 Preparing for resubmission 4/2022*  
Grant Amount: \$1,820,968

Site-Principle Investigator (P.I. Jeffery Karsdon, MD)  
Electrical Inhibition: A preliminary study to prevent the uterine contractions of human preterm labor and preterm birth.  
Sponsor: e-Bio, Inc through grant from the March of Dimes  
Date: January 2020-Present  
Grant Amount: \$27,000

Faculty Sponsor  
Study involving markers of inflammation and their relation to prematurity, including interleukin-6 and soluble intracellular adhesion molecule-1.  
Sponsor: UMDNJ-Robert Wood Johnson Medical School  
Date: June 1, 1996 – July 31, 1996  
Grant Amount: \$2,000 (Jennifer Santiago, Medical Student)

Co-Primary Investigator  
Center for Perinatal Health Initiatives (CPHI)  
Center for Epidemiologic Research in Perinatal Care and Outcomes for Women's Health Issues.  
Sponsor: Robert Wood Johnson Foundation (Grant #-029553)  
Date: August 1996 – January 1999  
Grant Amount: \$250,000

Principle Investigator  
Samuel A. Pasquale, M.D., Research Award - 1997  
Project Title: "Maternal intrapartum fever, neonatal sepsis and interleukin-6

levels.”

Sponsor: UMDNJ-Robert Wood Johnson Medical School  
 Department of Obstetrics, Gynecology & Reproductive Sciences  
 Date: 1997 – 1998      Grant Amount: \$10,480

Principle Investigator

New Jersey Fetal Abnormalities Registry (NJFAR)  
 Sponsor(s): Centers for Disease Control & Prevention (CDC)  
 New Jersey Department of Health & Senior Services (NJDHSS)  
 Date: 1999 – 2003 (projected)  
 Grant Amount: Year 1 - \$19,300, Year 2 - \$195,235 and Year 3 - \$230,000  
 Year 4 - \$167,000

Principle Investigator

Samuel A. Pasquale, M.D., Research Award - 2000  
 Project Title: “The hyperemic response of the brachial artery throughout gestation and its relation to preeclampsia.”  
 Sponsor: UMDNJ-Robert Wood Johnson Medical School  
 Department of Obstetrics, Gynecology & Reproductive Sciences  
 Date: 2000 – 2001  
 Grant Amount: \$11,600

Co-Investigator

Project Title: “Epidemiologic study of placental abruption.”  
 Sponsor: National Institute of Child Health & Development (NICHD) / National Institute Health (NIH), RO1  
 Date: January 1, 2002 – December 31, 2006  
 Grant Amount: \$1,586,000

Co-Investigator

Project Title: “Polymorphism in IL-10 locus predispose to preterm birth.”  
 Sponsor: National Institute of Child Health & Development (NICHD) / National Institute of Health (NIH)  
 Date: December 1, 2001 – November 30, 2006  
 Grant Amount: \$1,290,000

Co-Investigator

Project Title: “A multicenter, randomized, controlled trial of Seprafilm® adhesion barrier to reduce adhesion formation following cesarean delivery.”  
 PI: D Kiefer, Co-investigator: J Smulian  
 Sponsor: Genzyme, Inc  
 Date: Dec 2009-2013  
 Grant Amount: \$145,000  
 -This study is designed to assess the impact of Seprafilm® Adhesion Barrier placed at the time of cesarean delivery on intraabdominal adhesion formation, the difficulty of subsequent cesarean delivery, and safety. This is a multi-center prospective study



involving 3 sites.

#### Co-Investigator

Member: Study Advisory Committee

Project Title: “Mode of First Delivery and Subsequent Childbearing”

PI: Kristen Kjerulff, MA, PhD, Co-investigator: J Smulian

Sponsor: NIH Grant: R01-HD052990-01A2

-This is a multi-center prospective study designed to measure women’s pre-first delivery child-bearing desires, intentions, attitudes and expectations of childbirth among a total of 3000 pregnant women through interviews designed to assess factors of potential relevance to family growth. The study will also measure the impact of peripartal health and events on decisions to pursue subsequent childbearing.

#### Principle Investigator

Title: Quality Assurance in Obstetrics

Sponsor: March of Dimes

Date October 22, 2010

Grant Amount: \$5,000

-This grant is to support an educational CME conference to the region that focuses on Obstetric quality issues relevant to enhance the quality of care and reduce errors and complications in obstetric practice.

#### Sub-Site Principle Investigator

Title: Maternal Fetal Medicine Unit Network

Sponsor: NICHD

Date January 2012-2016

Grant amount: Capitated enrollment for multiple trials including:

##### 1) Antenatal Late Preterm Steroids

- This is a randomized placebo-controlled trial of betamethasone to prevent neonatal morbidity in later preterm births between 34 and 36 6/7 weeks of gestation. With a genetic susceptibility add-on study.

##### 2) A Randomized Trial to Prevent Congenital Cytomegalovirus Infection

- This is a randomized double-masked placebo controlled multi-center trial that involves screening of pregnant women before 23 weeks of pregnancy for primary CMV infection. For those who screen positive and meet eligibility criteria, they will be enrolled in a randomized protocol of IV Cytogam (CMV specific immunoglobulin) vs placebo to determine if treatment can prevent congenital CMV.

##### 3) An Observational Study of Hepatitis C Virus in Pregnancy

-This is a prospective observational cohort study of women screened for HCV in early pregnancy. Those who screen positive will be matched 1:2 with controls who screen positive to determine maternal, fetal and neonatal outcomes.

##### 4) A Randomized Trial of Induction Versus Expectant Management (ARRIVE)

This study is examining whether induction of labor at 39 0/7-39 4/7 weeks EGA vs expectant management for singleton uncomplicated pregnancies is associated with an improvement in infant and maternal outcomes.

#### Site Principle Investigator

Title: Prenatal Non-Invasive Aneuploidy Testing Utilizing SNPs Clinical Study (PreNATUS)

Sponsor: NATURA Inc

Date: December 2012-2013

Grant amount: Capitated enrollment

-This is a prospective study of women at moderate and high risk of fetal aneuploidy to use SNP analysis of free fetal DNA in the maternal circulation to identify efficacy of aneuploidy diagnosis.

#### Co-Investigator

(Principle Investigator: Marc Vengrove, MD)

Title: The impact of a Direct Transmission Glucose Monitor Device (TeleCare) on glucose monitoring compliance and glucose control in pregestational diabetics during pregnancy.

Sponsor: Pool Trust research fund at Lehigh Valley Health Network

Date October 2012

Grant amount: \$24,700

-This is a Pilot study investigates whether the introduction of an auto-transmitting glucose monitor to follow glucoses levels in pregnancy will improve patient compliance with monitoring recommendations and improve glucose control.

#### Co-Investigator

(PI: Alan Tita MD at University of Alabama)

Title: Chronic Hypertension and Pregnancy (CHAP) Project

Sponsor: NIH Grant: U01-HL120338-01A1

Date: June 2015-2016

This is a multi-center prospective randomized placebo-controlled trial of the antihypertensive labetalol in women with uncomplicated mild chronic hypertension during pregnancy. Measured outcomes include maternal, fetal and neonatal health measures, complications and resource utilization. Over 4700 women will be enrolled across all sites.

#### Principle Investigator

Title: The Lehigh Valley Health Network Master Clinician Award

Sponsor: Anderson Trust (Lehigh Valley Health Network)

Date: June 2016-2018

Grant amount: \$45,000

This grant is to develop a network-wide annual award to recognize exceptional clinicians who consistently demonstrate the highest standards of clinical excellence and expertise, compassionate patient care and professionalism. Awardees also demonstrate the ability to model and teach those clinical skills in order to elevate the practice of others.

#### Principle Investigator

Title: Ultrasound Simulation for Obstetrics and Gynecology

Sponsor: Anderson Trust (Lehigh Valley Health Network)

Date: June 2018

Grant amount: \$50,000

This grant is to support the purchase of a high-fidelity ultrasound simulator to enhance ultrasound education and competency assessments for medical students, residents and attending physicians. It will also be used to enhance education for the department's annual CME conference in ultrasound.

Site-Principle Investigator

Title: GestAssured, Prenatal Diagnostic Testing for Early Detection of Preeclampsia

Sponsor: GestVision, Inc

Date: June 2018

Grant amount: Capitated enrollment

Initial clinical testing of a new test to identify pregnancies likely to have or develop preeclampsia.

#### Other Support:

Principle Author/Investigator

Project Title: Women's Advice Line (copyright UMDNJ)

Sponsor: McKesson/HBOC

Date: 1998 – ongoing

Amount: 12% Royalty to UMDNJ on units sold

#### Publications:

1. **Smulian JC**, Sofer T. Extra-amniotic pregnancy. J Ultrasound Med 1991;10:528-9.
2. **Smulian JC**, Rodis JF, Campbell WA, Vintzileos AM. Antenatal diagnosis of severe penile hypospadias. The Fetus 1993;3:5-10.
3. **Smulian JC**, Bhandari V, Rodis JF, Bosse KK, Campbell WA, Vintzileos AM. Fetal inferior vena cava thrombosis: A case report. The Fetus 1993;3:7-11.
4. **Smulian JC**, Rodis JF, Campbell WA, Grant-Kels JM, Vintzileos AM. Non-oral pyogenic granuloma in pregnancy: A report of two cases. Obstet Gynecol 1994;84:652-4.
5. **Smulian JC**, Vintzileos AM, Ciarleglio L, Campbell WA, Rodis JF. Gender-specific patterns of second trimester femur and humerus measurements in fetuses with Down syndrome. J Mat Fet Med 1995;4:225-30.
6. **Smulian JC**, Campbell WA, Rodis JF, Feeny L, Fabbri E, Vintzileos AM. Gender-specific second trimester biometry. Am J Obstet Gynecol 1995;173:1195-1202.
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234. Ananth CV, Peltier MR, Getahun D, Kinzler WL, Rozen R, **Smulian JC**. Association between two mutations of the 5,10-methylenetetrahydrofolate reductase gene and preterm birth. 53rd Annual Meeting of the Society for Gynecologic Investigation. Toronto, Ontario, Canada, March 22-25, 2006. Poster Presentation. J Soc Gynecol Investig 2006;13(2S):Abstract #821.
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237. Nath C, **Smulian JC**, Ananth CV, Peltier M. Can sulfasalazine prevent infection-mediated preterm birth? 28th Annual Meeting of the Society of Maternal Fetal Medicine, Dallas, Tx February 2008. Poster Presentation
238. Mastrolia R., Ananth C, Philipp C., **Smulian J**. The role of factors VIII(c) and XI in placental abruption: for the New Jersey Placental Abruption Study investigators. 28th Annual Meeting of the Society of Maternal Fetal Medicine, Dallas, Tx February 2008. Poster Presentation
239. Kaminsky L. Chavez1 M. Ananth C. **Smulian J**. Vintzileos A. Targeting an ultrasound examination after identification of a cardiac anomaly. 28th Annual Meeting of the Society of Maternal Fetal Medicine, Dallas, Tx February 2008. Poster Presentation

240. Kaminsky L, Chavez1 M, Ananth C, Yeo L, **Smulian J**, Vintzileos A. Targeting an ultrasound examination after identification of a urinary tract anomaly. 28th Annual Meeting of the Society of Maternal Fetal Medicine, Dallas, Tx February 2008. Poster Presentation.
241. Kinzler W, Kaminsky L, Kizhner O, Ananth CV, **Smulian JC**, Peltier M. Is umbilical cord collagen gene expression altered by experimental fetal growth restriction? <sup>SEP</sup><sub>SEP</sub> 55th Annual Scientific Meeting of The Society for Gynecologic Investigation, San Diego, CA March 2008. Poster Presentation.
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247. Uxer JB, Quinones JN, Maran P, Killian A, **Smulian J**. Very preterm birth: the impact of delivery route on neonatal outcomes. American College of Obstetrics and Gynecology Annual Meeting, San Francisco, CA. May 2010 (oral presentation).
248. Quinones JN, **Smulian J**. Can the initial cervical dilation predict gestational age at delivery? 59<sup>th</sup> Annual Clinical Meeting (ACM) of the American College of Obstetricians and Gynecologists, Washington, DC. April 2011. Poster Presentation.
249. Diven LC, Rochon ML, Gogle J, Eid S, **Smulian JC**, Quiñones JN. Oxytocin discontinuation during active labor in women who undergo labor induction. 32nd Annual

Meeting of the Society of Maternal Fetal Medicine, Dallas, Tx February 2012. Poster Presentation

250. Tun C, Quiñones JN, Kurt A, **Smulian JC**, Rochon M. Comparison of 12-hour urine protein and protein:creatinine ratio with 24-hour urine protein for the diagnosis of preeclampsia. 32nd Annual Meeting of the Society of Maternal Fetal Medicine, Dallas, Tx February 2012. Poster Presentation
251. Berger, EA, Quiñones JN, Marraccini RL, Wu A, Curet SL, **Smulian JC**. Edinburgh Postnatal Depression Scale Screening: Who Does Early Inpatient Screening Identify. 61<sup>st</sup> Annual Clinical Meeting The American College of Obstetricians and Gynecologists, New Orleans, LA, May 6, 2013.
252. Berger, EA, Quiñones JN, Marraccini RL, Wu A, Curet SL, **Smulian JC**. Edinburgh Postnatal Depression Scale Screening: Who Does Early Inpatient Screening Identify. 61<sup>st</sup> Annual Clinical Meeting The American Congress of Obstetricians and Gynecologists, New Orleans, LA, May 6, 2013. Poster Presentation
253. Nguyen HY, Quiñones JN, Kiefer DG, Kurt A, Smulian JC. Predictors of participation in perinatal interventional research. 61st Annual Clinical Meeting, American Congress of Obstetricians and Gynecologists, May 7, New Orleans, LA. Poster Presentation.
254. Quiñones JN, Cabrera I, Louis-Jacques A, **Smulian JC**, Freudenberger R. Experience at the Center for Heart and Pregnancy: a collaborative cardiology and maternal fetal medicine practice. Poster presentation at the 3<sup>rd</sup> International Congress of Cardiac Problems in Pregnancy, Venice, Italy, February 2014.
255. Quiñones JN, Louis-Jacques A, Freudenberger R, Fleming L, **Smulian JC**, Martinez M. Is there a role for cardiac magnetic resonance imaging during pregnancy? Experience at Lehigh Valley Health Network. Poster presentation at the 3<sup>rd</sup> International Congress of Cardiac Problems in Pregnancy, Venice, Italy, February 2014.
256. Quiñones JN, Reynolds M, Rochon M, Karabasz-Brown K, **Smulian JC**. A survey of perinatologists: amniotic fluid index or deepest vertical pocket? 62<sup>nd</sup> Annual Clinical Meeting The American College of Obstetricians and Gynecologists, Chicago, IL, April 29, 2014. Poster Presentation
257. Louis-Jacques A, Burans C, Robinson S, Schofield E, **Smulian J**, Rochon M. Use of commercial tests for aneuploidy screening using cell-free fetal DNA in clinical practice. *Obstet Gynecol.* 2014 May;123 Suppl 1:154S.
258. Quinones JN, Reynolds RM, Rochon ML, Brown KK, **Smulian JC**. A survey of perinatologists: amniotic fluid index or deepest vertical pocket? *Obstet Gynecol.* 2014 May;123 Suppl 1:194S-6S.

259. Cabrera IB, Quinones JN, Durie DE, Rust J, **Smulian JC**, Scorza WE. Intracervical balloon placement and the risk of chorioamnionitis in term rupture of membranes. *Obstet Gynecol.* 2014 May;123 Suppl 1:43S.
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262. Kurt A, Curtis C, Semler L, Quinones J, **Smulian J**. Factors Influencing Women's Participation in Clinical research. 2015 Presented at Women's Health Congress, Washington, D.C., April-16-19, 2015.
263. **Smulian JC**, Pascual A, Hesham H, Qureshey E, Thomas MB, Depuy A, Flicker AB, Scorza WE. Invasive placental disease: The impact of a multi-disciplinary approach to management. 36<sup>th</sup> Annual Pregnancy Meeting of the Society of Maternal Fetal Medicine, Atlanta, GA, February 2016. Poster Presentation
264. Quinones JN, Gomez D, Hoffman MK, Ananth CV, **Smulian JC**, Plante LA, Skupski DW, Fuchs KM, Scorza WE. Length of the second stage of labor and risk of preterm delivery in a subsequent delivery. 36<sup>th</sup> Annual Pregnancy Meeting of the Society of Maternal Fetal Medicine, Atlanta, GA, February 2016. Poster Presentation
265. Kurt A, Semler L, Meyers M, Porter B, Myles S, Dusza SW, Jacoby JL, **Smulian JC**. Research Professionals' Experience and Perspectives on Women's Enrollment in Clinical Research. Women's Health Congress, April, 2016, Washington DC.
266. Louis-Jacques A, Romagano M, Ranaweera Y, Nwabuobi C, Cain MA, Sinkey RG, Camporesi EM, **Smulian JC**, Odibo A. Characteristics and predictors of invasive placenta disease (IPD) diagnosed prenatally. AIUM Annual Convention, March, 2017, Lake Buena Vista, Florida. Oral Presentation.
267. Romagano M, Ranaweera Y, Louis-Jacques A, Nwabuobi C, Dalvi P, Cain MA, Camporesi EM, Anthony Odibo, **Smulian JC**. Does Magnetic Resonance Imaging (MRI) improve outcomes in cases of prenatally diagnosed invasive placental disease? AIUM Annual Convention, March, 2017, Lake Buena Vista, Florida. Oral Presentation.
268. Makhoul J, Espallat-Rijo LM, Tugbiyele F, Quinones JN, Kjerulff KH, **Smulian JC**. The impact of route of delivery on urinary and fecal incontinence 18 months after a first delivery. Presented at the 38<sup>th</sup> Annual Meeting of the Society of Maternal Fetal Medicine, Dallas, TX, February 2018. Poster Presentation

269. Romagano MP, Rochon M, Scorza WE, Rust O, Qureshey E, **Smulian JC**. First trimester ultrasound imaging of pregnancies requiring a peripartum hysterectomy for invasive placental disease. Presented at the 38<sup>th</sup> Annual Meeting of the Society of Maternal Fetal Medicine, Dallas, TX, February 2018. Poster Presentation
270. Vengrove M, Qureshey E, Rochon M, Hesham H, **Smulian JC**. Web-based glucose monitoring using the Telcare wireless system for the management of pregnant women with pregestational diabetes. Accepted for poster presentation at the 27<sup>th</sup> Annual Scientific and Clinical Congress of the American Association of Clinical Endocrinologists. Boston, MA, May 2018. *Late Breaking Abstract*.

### Letters and Invited Papers:

1. Vintzileos AM, Ananth CV, **Smulian JC**. Research design and methods of quantitative synthesis of medical evidence. (Letter to the Editor) *Obstet Gynecol* 1998;91:157-8.
2. Vintzileos AM. **Smulian JC**. Defining the relationship between obstetricians and maternal-fetal medicine specialists. (Reply to Letter to the Editor). *Am J Obstet Gynecol* 2002;187:257.
3. Oyelese Y, Yeo L, Kinzler WL, **Smulian JC**, Vintzileos AM. Persistent funic presentation resulting from marginal cord insertion into a low-lying placenta. (Letter to the Editor) *Ultrasound Obstet Gynecol* 2004;24:692-3.
4. **Smulian JC**, Yeo L, Vintzileos AM. Second-trimester genetic sonography. *The Female Patient* 2009;34:45-8.
5. Quinones JN, Uxer JB, Gogle J, Scorza WE, **Smulian JC**. Clinical evaluation during postpartum hemorrhage. *Clin Obstet Gynecol*. 2010 Mar;53(1):157-64. Review
6. Jackson O, Quinones JN, **Smulian JC**. Clinical approach to the patient with threatened preterm labor. *The Female Patient* 2010;35:39-42.

### Chapters:

1. Cusick W, **Smulian JC**, Vintzileos AM. Intrapartum fetal heart rate and contraction monitoring and amnioinfusion. In: *Complicated Labor and Delivery I. Clinics in Perinatology*, Knuppel RA (ed), 1995;22(4):875-906.
2. Vintzileos AM, **Smulian JC**, Day-Salvatore DL. The role of second trimester ultrasound in the detection of fetal aneuploidy. In: *The Fetus as a Patient*, Kurjak A, Chervenak FA (eds), The Parthenon Publishing Group 1996;243-56.
3. Cusick W, **Smulian JC**, Vintzileos AM. Amnioinfusion. In: *Fetal Maternal Medicine*. Mamopoulous MA, Farmakides GB (eds), University Studio Press 1996;207-11.



4. Scorza WE, **Smulian JC**. Diseases of bone and cartilage in pregnancy. In: Principles and Practice of Medical Therapy in Pregnancy. Third Edition. Gleicher N (ed), Appleton & Lange, Stamford, CT. May 1998;211:1372-84.
9. Heath C, **Smulian JC**. Premature labor. Griffith's 5-Minute Clinical Consult. Dambro MR, Griffith JA (eds), Lippincott Williams & Wilkins, Philadelphia, Pennsylvania 1999, 2000, 2001, 2002, 2003, 2004;868-9.
10. Heath C, **Smulian JC**. Fibrocystic breast disease. Griffith's 5-Minute Clinical Consult. Dambro MR, Griffith JA (eds), Lippincott Williams & Wilkins, Philadelphia, Pennsylvania 2000, 2001, 2002, 2003, 2004, 2005, 2006;406-7.
12. Ananth CV, **Smulian JC**. Epidemiology of critical illness and outcomes in pregnancy. (Lead Chapter) In: Critical Care Obstetrics. Fourth Edition. Dildy GA, Belfort MA, Saade GR, Phelan JP, Hankins GD, Clark SL (eds), Blackwell Science 2004.
13. Ananth CV, **Smulian JC**. Chapter 34: Trends in congenital malformations, chromosomal anomalies and infant mortality among twin births. "Multiple pregnancy: Epidemiology, gestation, and perinatal outcome." Second Edition. Blickstein I, Keith LG (editors). New York, NY: Parthenon Publishing Company; 2005, pp 246-51.
15. **Smulian JC**, Heath C. Preterm Labor. The 5-Minute Clinical Consult 2007. Domnio FJ (ed), Lippincott, Williams & Wilkins, Philadelphia, Pennsylvania 2006, 2007, 2008;990-1.
17. Ananth CV, **Smulian JC**. Epidemiology of critical illness and outcomes in pregnancy. (Lead Chapter) In: Critical Care Obstetrics. Fifth edition. Belfort MA, Dildy GA, Saade GR, Phelan JP, Hankins GD, Clark SL (eds), Blackwell Science 2010;1
18. **Smulian JC**, Coassolo, K. Preterm Labor. In: The 5-Minute Clinical Consult 2010, 2011, 2012. Domnio FJ (ed), Lippincott, Williams & Wilkins, Philadelphia, Pennsylvania 2009,2010,2011
19. Tepper BJ, Beltzer LM, **Smulian JC**, Lu SE. Sweet taste preferences and cravings in gestational diabetes mellitus (GDM): Implications for Diet and Medical Management. In: Diet, Brain and Behavior: Practical Implications. Kanarek RB, Lieberman HR (eds), CRC Press 2012; 169-88.
20. Coassolo, K., **Smulian JC**. Preterm Labor. In: The 5-Minute Clinical Consult 2013, 2014, 2015, 2016-present (annually). Domnio FJ (ed), Lippincott, Williams & Wilkins, Philadelphia, Pennsylvania
21. Sarno AP, Fitch C, **Smulian JC**. The 5-Minute Consult 2015, 2016. Genetic Screening and Counseling (electronic access only <http://5minuteconsult.com>)
22. **Smulian JC**, Brown C, Flicker A. Chapter 13: Antepartum Obstetric Hemorrhage. In: Obstetric Rapid Response. Plante L (ed). CRC Press 2017.

23. Flicker A, Brown C, **Smulian JC**. Chapter 14: Postpartum Obstetric Hemorrhage. In: Obstetric Rapid Response. Plante L (ed). CRC Press 2017.
24. Ananth CV, **Smulian JC**. Epidemiology of Critical Illness in Obstetrics. (Lead Chapter) In: Critical Care Obstetrics. Sixth edition. Belfort MA, Dildy GA, Saade GR, Phelan JP, Hankins GD, Clark SL (eds), Blackwell Science 2017
25. Sarno A, Makhoul J, **Smulian JC**. Maternal Transport in Critical Care Obstetrics. In: Critical Care Obstetrics. Sixth edition. Belfort MA, Dildy GA, Saade GR, Phelan JP, Hankins GD, Clark SL (eds), Blackwell Science 2017
26. Ananth CV, **Smulian JC**. Epidemiology of Critical Illness in Obstetrics. (Lead Chapter) In: Critical Care Obstetrics. Sixth edition. Belfort MA, Dildy GA, Saade GR, Phelan JP, Hankins GD, Clark SL (eds), Blackwell Science 2022 (In Press)
27. Sarno A, Makhoul J, **Smulian JC**. Maternal Transport in Critical Care Obstetrics. In: Critical Care Obstetrics. Sixth edition. Belfort MA, Dildy GA, Saade GR, Phelan JP, Hankins GD, Clark SL (eds), Blackwell Science 2022 (In Press)
28. Quinones J, **Smulian JC**. Post term pregnancy. In: Evidence-Based Obstetrics and Gynecology. First Edition. Norwitz E, Zelop C (ed)s. Wiley-Blackwell Science 2017

#### **Published Reviews of Authored Articles:**

1. Obstetrical and Gynecological Survey 1996;520-1. Review of: Community-based obstetrical ultrasound reports: documentation of compliance with suggested minimum standards. J Clin Ultrasound 1996;24:123-7.
2. Yearbook of Ultrasound 1996. Review of: Community-based obstetrical ultrasound reports: documentation of compliance with suggested minimum standards. . J Clin Ultrasound 1996;24:123-7.
3. Literature Ultrasonore Revue D'Echo-Base 1996;5:30-1. Community-based obstetrical ultrasound reports: documentation of compliance with suggested minimum standards. J Clin Ultrasound 1996;24:123-7.
4. Three Months In Review: Current progress in early pregnancy investigation. In: Early Pregnancy: Biology and Medicine 1997. Review of: Transabdominal versus transvaginal sonographic measurements of fetal nuchal translucency in the first trimester: a comparison of methodologies. J Matern Fetal Invest 1997;7:16-8.
5. Obstetrical and Gynecological Survey 1997. Review of: The epidemiology of antepartum fetal testing. Curr Opin Obstet Gynecol 1997;9:103-8.

6. Year Book of Neonatal and Perinatal Medicine 1998. Review of: Intrauterine growth and ultrasound findings in fetuses with Beckwith-Wiedemann syndrome. Obstet Gynecol 1997;89:538-42.
7. Evidenced-Based Nursing 1998;1:85. Review of: The association between placenta previa and history of cesarean delivery and abortions: A meta-analysis. Am J Obstet Gynecol 1997;177:1071-8.
8. ACOG Clinical Review 2000;5(4):4. Review of: Prenatal diagnosis of Down syndrome. Obstet Gynecol 2000;95:577-83.
9. Yearbook of Obstetrics and Gynecology 2004. The effects of labor on infant mortality among small-for-gestational-age infants in the United States. J Matern-Fetal Neonat Med 2003;12:201-6.

#### **Other Publications:**

1. **Smulian JC**, McCann TO, Vintzileos AM, Knuppel RA. Women's Advice Line. Pre-recorded medical advice and information for women's health issues (250 topics). Licensed to McKesson/HBOC. 1999 (Continuing review from 1999-2012)
2. **Smulian JC**, Hanley ML, McCann TO, Vintzileos AM. After-Hours Women's Health Telephone Triage Algorithms (68 algorithms). Copyright by McKesson/HBOC. 1999.



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